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- 1.272 ppp 2.4.7-r0**
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- 1.273 acl 2.2.52-r0**
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- 1.276 cracklib 2.9.5-r0**
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- 1.277 go-systemd 4+gitb4a58d95188dd092ae20072bac14cece0e67c388-r0**
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- 1.278 libcap-ng 0.7.9-r0**
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- 1.291 python-uwsgi 2.0.18-r0**
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- 1.349 docker 18.03.0+git708b068d3095c6a6be939eb2da78c921d2e945e2-r0**
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<kirkwood@striderfm.intel.com> port to WindowsNT 3.5
4. [5]Michael Barone <michael,barone@lmco.com> GPSVME fixes
5. [6]Jean-Francois Boudreault  
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6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT  
port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver,  
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help with target configuration
13. [14]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference  
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NTP Version 2 as specified in RFC-1119
17. [18]John Hay <jhay@icomtek.csiro.co.za> IPv6 support and testing
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21. [22]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping  
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22. [23]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or  
[24]<H.Lambermont@chello.nl>  
ntpsweep
23. [25]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original  
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24. [26]Frank Kardel [27]<Frank.Kardel@informatik.uni-erlangen.de>  
PARSE <GENERIC> driver (14 reference clocks), STREAMS modules for  
PARSE, support scripts, syslog cleanup
25. [28]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX  
modifications, HPUX modifications
26. [29]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
27. [30]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox  
GPS clock driver

28. [31]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
  29. [32]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
  30. [33]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
  31. [34]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
  32. [35]David L. Mills <mills@udel.edu> Version 4 foundation:  
clock  
discipline, authentication, precision kernel; clock drivers:  
Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics;  
audio clock drivers: CHU, WWV/H, IRIG
  33. [36]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
  34. [37]Jeffrey Mogul <mogul@pa.dec.com> ntprtrace utility
  35. [38]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
  36. [39]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
  37. [40]Derek Mulcahy <derek@toybox.demon.co.uk> and [41]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
  38. [42]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>  
monitoring/trap scripts, statistics file handling
  39. [43]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
  40. [44]Wilfredo S?nchez <wsanchez@apple.com> added support for NetInfo
  41. [45]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
  42. [46]Jack Sasportas <jack@innovativeinternet.com> Saved  
a Lot of  
space on the stuff in the html/pic/ subdirectory
  43. [47]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
  44. [48]Michael Shields <shields@tembel.org> USNO clock driver
  45. [49]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
  46. [50]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
  47. [51]Kenneth Stone <ken@sdd.hp.com> HP-UX port
  48. [52]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
  49. [53]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
  50. [54]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
  51. [55]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
- 

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\*  
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\*  
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## 1.7 regex 3.4a

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# */
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## 1.9 libtomcrypt 1.17

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```
# /*
# * SHA-512
# * Implementation derived from LibTomCrypt (Tom St Denis)
# *
# * LibTomCrypt is a library that provides various cryptographic
# * algorithms in a highly modular and flexible manner.
# *
# * The library is free for all purposes without any express
# * guarantee it works.
# *
# * Tom St Denis, tomstdenis@gmail.com, http://libtomcrypt.org
# */
```

## 1.10 um-ldap 3.3

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# *
# * searchpref.h: display template library defines
# * 16 May 1994 by Gordon Good
```

# \*/

# 1.11 sun-rpc Dec. 2006

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To: Peter Brown <peterb@fsf.org>, drepper@redhat.com, tcallawa@redhat.com

CC: Elena Zannoni <elena.zannoni@oracle.com>

Subject: sun rpc license

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rstat\_proc.c

(2) krb5

authunix\_prot.c

bindresvport.c

clnt\_generic.c

clnt\_perror.c

clnt\_simple.c

get\_myaddress.c

getrpcent.c

pmap\_getmaps.c

pmap\_getport.c

rpc\_callmsg.c

rpc\_commdata.c

rpc\_dtablesize.c

svc\_auth\_unix.c

types.hin

xdr\_alloc.c

xdr\_reference.c

possibly

also the following :

include/gssrpc/auth.h

include/gssrpc/auth\_unix.h

include/gssrpc/clnt.h

include/gssrpc/netdb.h

include/gssrpc/pmap\_clnt.h

include/gssrpc/pmap\_prot.h

include/gssrpc/pmap\_rmt.h

include/gssrpc/rpc.h

include/gssrpc/rpc\_msg.h

include/gssrpc/svc\_auth.h

include/gssrpc/svc.h

include/gssrpc/types.hin

include/gssrpc/xdr.h

kadmin/server/ovsec\_kadmd.c

lib/rpc/auth\_none.c  
lib/rpc/auth\_unix.c

lib/rpc/authunix\_prot.c  
lib/rpc/bindresvport.c

lib/rpc/clnt\_generic.c  
lib/rpc/clnt\_perror.c

lib/rpc/clnt\_raw.c  
lib/rpc/clnt\_simple.c  
lib/rpc/clnt\_tcp.c

lib/rpc/clnt\_udp.c  
lib/rpc/get\_myaddress.c

lib/rpc/getrpcent.c  
lib/rpc/getrpcport.c  
lib/rpc/pmap\_clnt.c

lib/rpc/pmap\_getmaps.c  
lib/rpc/pmap\_getport.c

lib/rpc/pmap\_prot2.c  
lib/rpc/pmap\_prot.c  
lib/rpc/pmap\_rmt.c

lib/rpc/rpc\_callmsg.c  
lib/rpc/rpc\_commondata.c

lib/rpc/rpc\_dtablesize.c  
lib/rpc/rpc\_prot.c

lib/rpc/svc\_auth.c  
lib/rpc/svc\_auth\_unix.c  
lib/rpc/svc.c

lib/rpc/svc\_raw.c  
lib/rpc/svc\_run.c  
lib/rpc/svc\_simple.c

lib/rpc/svc\_tcp.c  
lib/rpc/svc\_udp.c

lib/rpc/unit-test/server.c  
lib/rpc/xdr\_alloc.c



lib/rpc/xdr\_array.c

lib/rpc/xdr.c

lib/rpc/xdr\_float.c

lib/rpc/xdr\_mem.c

lib/rpc/xdr\_rec.c

lib/rpc/xdr\_reference.c

lib/rpc/xdr\_sizeof.c

lib/rpc/xdr\_stdio.c

(3)

glibc

auth\_des.c

authdes\_prot.c

auth.h

auth\_none.c

auth\_unix.c

auth\_unix.h

authuxprot.c

bindrsvprt.c

bootparam\_prot.x

clnt\_gen.c

clnt.h

clnt\_perr.c

clnt\_raw.c

clnt\_simp.c

clnt\_tcp.c

clnt\_udp.c

clnt\_unix.c

des\_crypt.c

des\_crypt.h

des\_soft.c

get\_myaddr.c

getrpcport.c

key\_call.c

key\_prot.c

key\_prot.h

key\_prot.x

klm\_prot.x

mount.x

netdb.h

nfs\_prot.x

nlm\_prot.x

openchild.c

pmap\_clnt.c  
pmap\_clnt.h  
pmap\_prot2.c  
pmap\_prot.c  
pmap\_prot.h  
pmap\_rmt.c  
pmap\_rmt.h  
pm\_getmaps.c  
pm\_getport.c  
rex.x  
rpc\_clntout.c  
rpc\_cmsg.c  
rpc\_common.c  
rpc\_cout.c  
rpc\_des.h  
rpc\_dtable.c  
rpc.h  
rpc\_hout.c  
rpcinfo.c  
rpc\_main.c  
rpc\_msg.h  
rpc\_parse.c  
rpc\_parse.h  
rpc\_prot.c  
rpc\_sample.c  
rpc\_scan.c  
rpc\_scan.h  
rpc\_svcout.c  
rpc\_tblout.c  
rpc\_util.c  
rpc\_util.h  
rstat.x  
rtime.c  
rusers.x  
sm\_inter.x  
spray.x  
svc\_auth.c  
svcauth\_des.c  
svc\_auth.h  
svc\_authux.c  
svc.c  
svc.h  
svc\_raw.c  
svc\_run.c  
svc\_simple.c  
svc\_tcp.c  
svc\_udp.c  
svc\_unix.c

types.h  
xcrypt.c  
xdr\_array.c  
xdr.c  
xdr\_float.c  
xdr.h  
xdr\_mem.c  
xdr\_rec.c  
xdr\_ref.c  
xdr\_sizeof.c  
xdr\_stdio.c  
yppasswd.x

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## 1.12 tcl-tk 8.3.4

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To: Peter Brown <peterb@fsf.org>, drepper@redhat.com, tcallawa@redhat.com  
CC: Elena Zannoni <elena.zannoni@oracle.com>  
Subject: sun rpc license

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include/gssrpc/rpc\_msg.h  
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include/gssrpc/xdr.h  
kadmin/server/ovsec\_kadmd.c

lib/rpc/auth\_none.c  
lib/rpc/auth\_unix.c

lib/rpc/authunix\_prot.c  
lib/rpc/bindresvport.c

lib/rpc/clnt\_generic.c  
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lib/rpc/clnt\_raw.c  
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lib/rpc/rpc\_callmsg.c  
lib/rpc/rpc\_commdata.c

lib/rpc/rpc\_dtablesize.c  
lib/rpc/rpc\_prot.c

lib/rpc/svc\_auth.c

lib/rpc/svc\_auth\_unix.c  
lib/rpc/svc.c

lib/rpc/svc\_raw.c  
lib/rpc/svc\_run.c  
lib/rpc/svc\_simple.c

lib/rpc/svc\_tcp.c  
lib/rpc/svc\_udp.c

lib/rpc/unit-test/server.c  
lib/rpc/xdr\_alloc.c

lib/rpc/xdr\_array.c  
lib/rpc/xdr.c  
lib/rpc/xdr\_float.c

lib/rpc/xdr\_mem.c  
lib/rpc/xdr\_rec.c  
lib/rpc/xdr\_reference.c

lib/rpc/xdr\_sizeof.c  
lib/rpc/xdr\_stdio.c

(3) glibc

auth\_des.c  
authdes\_prot.c  
auth.h  
auth\_none.c  
auth\_unix.c  
auth\_unix.h  
authuxprot.c  
bindrsvprt.c  
bootparam\_prot.x  
clnt\_gen.c  
clnt.h  
clnt\_perr.c  
clnt\_raw.c  
clnt\_simp.c  
clnt\_tcp.c  
clnt\_udp.c  
clnt\_unix.c  
des\_crypt.c  
des\_crypt.h  
des\_soft.c  
get\_myaddr.c  
getrpcport.c  
key\_call.c  
key\_prot.c  
key\_prot.h  
key\_prot.x  
klm\_prot.x  
mount.x  
netdb.h  
nfs\_prot.x  
nlm\_prot.x  
openchild.c  
pmap\_clnt.c  
pmap\_clnt.h  
pmap\_prot2.c  
pmap\_prot.c  
pmap\_prot.h  
pmap\_rmt.c  
pmap\_rmt.h  
pm\_getmaps.c  
pm\_getport.c  
rex.x  
rpc\_clntout.c  
rpc\_cmsg.c  
rpc\_common.c  
rpc\_cout.c  
rpc\_des.h  
rpc\_dtable.c



rpc.h  
rpc\_hout.c  
rpcinfo.c  
rpc\_main.c  
rpc\_msg.h  
rpc\_parse.c  
rpc\_parse.h  
rpc\_prot.c  
rpc\_sample.c  
rpc\_scan.c  
rpc\_scan.h  
rpc\_svcout.c  
rpc\_tblout.c  
rpc\_util.c  
rpc\_util.h  
rstat.x  
rtime.c  
rusers.x  
sm\_inter.x  
spray.x  
svc\_auth.c  
svcauth\_des.c  
svc\_auth.h  
svc\_authux.c  
svc.c  
svc.h  
svc\_raw.c  
svc\_run.c  
svc\_simple.c  
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xdr\_ref.c  
xdr\_sizeof.c  
xdr\_stdio.c  
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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```
gcc/libstdc++-v3/src/ctype.cc (for libstdc++)
```

```
-----
```

```
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```

```
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```

```
//
```

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\*  
\* @(#)endian.h 7.9 (Berkeley) 6/19/92  
\*/

## 1.18 poulhenningkampinflate 1

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\*-----  
\*  
\*/

## 1.19 catalyst-4k-srcgalaxymathh 1

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\*=====

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## 1.21 iosionplatform 1

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## 1.22 catalyst-2k-3k-ibm-ppc-library 1



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```
/*
 * ioLib/ioLib.s, openbios_walnut, walnut_bios 6/17/99 12:54:45
 * -----+
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 * -----
 * -----
 *
 * File Name: ioLib.s
 *
 * Function: C-callable assembler functions for I/O.
 *
 * Author: Bill DeStein.
 *
 * Change Activity-
 *
 * Date Description of Change BY
 * -----
 * 13-Aug-92 Created WCD
 * 27-May-94 Port to Oak MPT
 * 24-Apr-95 Port to Metaware JWB
 * 26-Apr-99 Port to Walnut (added in and out byte reversed routines) JWB
 * -----
```

## 1.23 csrp 1.0

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```
/* $Id: inflate.c,v 3.2.60.1 1996/03/18 19:11:09 gstovall Exp $
* $Source: /release/111/cvs/Xsys/czip/inflate.c,v $
*-----
* inflate.c - unzip inflate
*
* December 1994, Michael Beesley
*
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*
*-----
* $Log: inflate.c,v $
* Revision 3.2.60.1 1996/03/18 19:11:09 gstovall
* Branch: California_branch
* Elvis has left the building. He headed out to California, and took the
* port ready changes with him.
*
```

```

* Revision 3.2.26.2 1996/03/07 08:42:15 mdb
* Branch: DeadKingOnAThrone_branch
* cisco and ANSI/POSIX libraries.
*
* Revision 3.2.26.1 1996/02/20 13:44:31 dstine
* Branch: DeadKingOnAThrone_branch
*   Sync from DeadKingOnAThrone_baseline_960122 to
*   DeadKingOnAThrone_baseline_960213
*
* Revision
3.2 1995/11/17 08:58:13 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 11:15:19 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.2 1995/06/23 22:23:30 mbeesley
* CSCdi36360: 95q1 compiler fails to build czip_elf
* Work-around the compiler bug by declaring variables static.
* This allows zipped images for c4500, rsp to ship in 11.0.
*
* Revision 2.1 1995/06/07 20:22:19 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
/* inflate.c -- Not copyrighted 1992 by Mark Adler
   version c10p1, 10 January 1993 */

/* You can do whatever you like with this source file, though I would
   prefer that if you modify it and redistribute it that you include
   comments to that effect with your name and the date. Thank you.
   [The history has been moved to the file ChangeLog.]
*/

```

## 1.25 asn-cmu v1

### 1.25.1 Available under license :

```

/*****

```

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*
* @(#)radix.c 8.4 (Berkeley) 11/2/94
* $FreeBSD: src/sys/net/radix.c,v 1.20.2.3 2002/04/28 05:40:25 suz Exp
* $
*/

```

## 1.28 ipch 8.3

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* @(#)ipc.h 8.3 (Berkeley) 1/21/94
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```

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* @(#)ttydefaults.h 8.4 (Berkeley) 1/21/94
* $FreeBSD: src/sys/sys/ttydefaults.h,v 1.13.2.1 2001/03/06 03:37:08 jkh Exp $
*/
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 \* @(#)ttycom.h 8.1 (Berkeley) 3/28/94  
 \* \$FreeBSD: src/sys/sys/ttycom.h,v 1.16 2000/01/29 16:47:35 peter Exp \$  
 \*/  
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 \*  
 \* @(#)ttychars.h 8.2 (Berkeley) 1/4/94  
 \* \$FreeBSD: src/sys/sys/ttychars.h,v 1.7 1999/08/28 00:52:06 peter



Exp \$

\*/

## 1.30 tputs-c 4.4BSD? via NetBSD

### 1.30.1 Available under license :

```
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```

```
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```

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## 1.32 termcap 4.4BSD? via OpenBSD

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```
/* $OpenBSD: termcap.c,v 1.7 2009/10/27 23:59:46 deraadt Exp $ */
/* $NetBSD: termcap.c,v 1.7 1995/06/05 19:45:52 pk Exp $ */
```

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## 1.33 pcap-bpf-h 1.34

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\*

\* @(#)bpf.h 7.1 (Berkeley) 5/7/91

\*

\* @(#) \$Header: /tcpdump/master/libpcap/pcap-bpf.h,v 1.34 2005/02/08 20:03:15 guy Exp \$ (LBL)

\*/

## 1.34 sem-h 4.4BSD? via NetBSD

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/\* \$NetBSD: sem.h,v 1.5 2006/02/11 20:15:53 cube Exp \$ \*/

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\* @(#)ftp.h 8.1 (Berkeley) 6/2/93  
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\* @(#)tftp.h 8.1 (Berkeley) 6/2/93

\* \$FreeBSD: /repoman/r/ncvs/src/include/arpa/tftp.h,v 1.3.6.1 2002/08/14 21:59:26  
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## 1.37 lua 5.1.4

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## 1.38 minix 3

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/\* \$NetBSD: statvfs.h,v 1.17 2011/11/18 21:17:45 christos Exp \$ \*/

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* $FreeBSD: src/lib/libc/inet/inet_network.c,v 1.6 1999/11/04 04:30:44 ache Exp $
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/* $NetBSD: scanf.c,v 1.12 2003/08/07 16:43:31 agc Exp $ */

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## 1.41 fipscheck 1.4.1 6.el7

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## 1.42 zlib 1.2.11

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```
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   version 1.2.11, January 15th, 2017
```

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

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@end enumerate

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```
/* _setjmp is implemented in setjmp.S */
```

```
/* setjmp is implemented in setjmp.S */
```

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```
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## 1.57 libksba 1.3.5 7.e18

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<one

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```
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```
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## 1.61 libmetalink 0.1.3 7.e18

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## 1.62 keyutils 1.5.10 6.el8

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```
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```

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```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

# 1.63 cracklib 2.9.6 15.el8

## 1.63.1 Available under license :

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Version 2.1, February 1999

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distribute

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

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Modifications: Added cronjob, configuration file, and man pages.

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This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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EFFECTIVE

OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:15 PM  
> To: cracklib-devel@li...  
> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing  
> libraries under  
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
> -mike

Re: [Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly  
> and see if he wants to relicense his code as LGPL... but at this point,  
> it was enough to just get it consistent and documented as to what it was  
> released under. This wasn't actually a license change, just a  
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didnt notice the license=  
=20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20

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Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

>

Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

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If it's sinful, it's more fun.

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In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

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Attachments: Message

as HTML

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CrackLib was originally licensed with a variant of the Artistic license. In the

interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use  
nneul@neulinger.org.

-----

From alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct  
2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>



X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status:  
RO  
Content-Length: 585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

-----  
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected  
in released code until Nov 2009 - slow release cycle...)  
-----

Discussion thread from mailing list archive, with approval from everyone actively  
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
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University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

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> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

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Attachments: Message as HTML

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From  
alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
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Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from  
[82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>

<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length:  
585  
Lines: 21

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> From: Neulinger, Nathan <nneul@umr.edu>  
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Happy now? :-)

-a

## 1.64 findutils 4.6.0 20.e18

### 1.64.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

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## Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the

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Version 3, 29 June 2007

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pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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## TERMS AND CONDITIONS

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those

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## 1.69 libyami 0.1.7 5.el8

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## 1.71 ncurses 6.1 7.20180224.e18

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## 1.74 popt 1.16 14.el8

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The

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## 1.85 ima-evm-utils 1.1 5.e18

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# 1.87 libsepol 2.9 1.el8

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\* /opt/ws\_local/PERMITS\_SQL/1019648978\_1591375194.93/0/lua-5.3.4-11.el8.src.rpm-cosi-expand-archive-alE0FwEC/lua-5.3.4-tests.tar.gz-cosi-expand-archive-mKLmeq6v/lua-5.3.4-tests/all.lua

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```

## 1.89 libtirpc 1.1.4 4.el8

### 1.89.1 Available under license :

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/*
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## 1.90 kerberos 5

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cmd/krb5/iprof/iprof.x
cmd/krb5/iprof/iprof_hdr.h
cmd/krb5/kadmin/server/iprofd_svc.c
```

cmd/krb5/kproplog/kproplog.c  
cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
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lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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including  
the following new or changed files:

include/ipropr\_hdr.h  
kadmin/server/iproprd\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
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```
/* $Id: compress_lzw.c,v 3.3.62.2 1996/07/10 22:21:52 dstine Exp $
* $Source: /release/112/cvs/Xsys/os/compress_lzw.c,v $
*-----
* compress_lzw.c - generic compress/decompress routines
*
* September 1993, Stig Thormodsrud
*
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*-----
* $Log: compress_lzw.c,v $
* Revision 3.3.62.2 1996/07/10 22:21:52 dstine
* CSCdi62471: Superfluous #include files in atalk, atm, os files
* Branch: California_branch
*
* Revision 3.3.62.1 1996/03/18 21:29:18 gstovall
* Branch: California_branch
* Elvis has left the building. He headed out to California,
* and took the
* port ready changes with him.
*
* Revision 3.3.26.2 1996/03/07 10:18:00 mdb
* Branch: DeadKingOnAThrone_branch
* cisco and ANSI/POSIX libraries.
*
* Revision 3.3.26.1 1996/02/20 16:38:04 dstine
* Branch: DeadKingOnAThrone_branch
* Sync from DeadKingOnAThrone_baseline_960122 to
* DeadKingOnAThrone_baseline_960213
*
* Revision 3.3 1995/11/17 18:46:04 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.2 1995/11/17 00:17:23 gstovall
* Ladies and gentlemen, I introduce to you, the port ready commit.
*
* Revision 3.1 1995/11/09 12:44:48 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/06/07 21:54:12 hampton
* Bump version numbers from 1.x to 2.x.
```

```
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1033344783_1590682057.47/0/compress-lzw-1-zip/compress_lzw.c
```

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```
*/opt/ws_local/PERMITS_SQL/1033344937_1590683254.87/0/locale-2-zip/locale-2.h
```

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```

Found in path(s):

```
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```

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## 1.102 pkix-ssh 11.6

### 1.102.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* name: pkixpath.c
*
* This file implements certificate path building/verifying SPI
* functions that conform to the descriptions in the PKIX draft
* documentation.
*
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*-----
*/
/*
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**
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**
*/
```

Found in path(s):

```
* /opt/cola/permits/1078111861_1615189672.12/0/pkix-tar/pkix/pkixpath.c
```

No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* pkixpath_header.h
```

```

*
* October 2005, Bob Stuercke
*
* Copyright (c) 2005-2006, 2009 by Cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1078111861_1615189672.12/0/pkix-tar/pkix/pkixpath_header.h

```

# 1.103 sed 4.5-2.el8

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Version 3, 29 June 2007

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# 1.104 python-pip 9.0.3-18.el8

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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes

2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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## 1.115 texinfo 6.5 6.el8

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using

a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under

the scope of this License.

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License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete

corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a)

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a

copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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That's all there is to it!

## 1.116 which 2.21 12.el8

### 1.116.1 Available under license :

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand

ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

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A "covered work" means either the unmodified Program or a work based on the Program.

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The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
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- e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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# 1.117 net-tools 2.0-0.52.20160912git.el8

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user

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## 1.123 pynacl 1.4.0

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## 1.124 paramiko 2.7.2

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Any

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```
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```

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## 1.130 dc 1.4

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```

Found in path(s):

```
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/Example-Swift/AppDelegate.swift
```

```
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/Example-Swift-Bridging-Header.h
```

```
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
```

```
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/Example-Swift/ViewController.swift
```

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```
Pod::Spec.new do |s|
```

```
  s.name      = "DCPathButton"
```

```
  s.version   = "2.1.1"
```

```
  s.summary   = " A beautiful button copy from Path® "
```

```
  s.description = <<-DESC
```

```
    DCPathButton is a menu button, design by an famous App Path®.
```

```
    Since Path® 4.0, it return to use a tab bar instead of a side bar,
```

```
    and also change the menu button. So I try to implement it and then
```

the DCPATHButton born :)

DESC

```
s.homepage = "https://github.com/Tangdixi/DCPATHButton"
```

```
s.license = {  
:type => 'MIT',  
:text => 'The DCPATHButton use the MIT license'  
}
```

```
s.author = { "Tangdixi" => "Tangdixi@gmail.com" }
```

```
s.platform = :ios, '7.0'
```

```
s.source = {  
:git => "https://github.com/Tangdixi/DCPATHButton.git",  
:tag => "2.1.1"  
}
```

```
s.source_files = 'DCPATHButton/Classes/*.{h,m}'
```

```
s.resources = ["DCPATHButton/Sounds/*"]
```

```
s.frameworks = 'QuartzCore','AudioToolbox'
```

```
s.requires_arc = true
```

```
end
```

Found in path(s):

```
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPATHButton-ecfc086/DCPATHButton.podspec
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```

```
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPATHButton-ecfc086/Example/Example/BarButtonItemViewController.m
```

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```
<label opaque="NO" clipsSubviews="YES" userInteractionEnabled="NO" contentMode="left"  
horizontalHuggingPriority="251" verticalHuggingPriority="251" text=" Copyright (c) 2015 DC. All rights  
reserved." textAlignment="center" lineBreakMode="tailTruncation" baselineAdjustment="alignBaselines"  
minimumFontSize="9" translatesAutoresizingMaskIntoConstraints="NO" id="8ie-xW-0ye">
```

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\* /opt/cola/permits/1125786974\_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/DCPathButton/Classes/DCPathButton.m

\* /opt/cola/permits/1125786974\_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-

```
DCPathButton-ecfc086/Example/Example/ViewController.h
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
DCPathButton-ecfc086/Example-Swift/DCPathButton/Classes/DCPathButton.h
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
DCPathButton-ecfc086/Example/Example/ViewController.m
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
DCPathButton-ecfc086/DCPathButton/Classes/DCPathButton.h
*
/opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
DCPathButton-ecfc086/Example/Example/main.m
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
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* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
DCPathButton-ecfc086/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
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* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
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* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
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*
/opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
DCPathButton-ecfc086/Example/ExampleTests/ExampleTests.m
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
DCPathButton-ecfc086/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.m
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
DCPathButton-ecfc086/Example-Swift/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
DCPathButton-ecfc086/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.h
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
DCPathButton-ecfc086/Example-Swift/DCPathButton/Classes/DCPathItemButton.h
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
DCPathButton-ecfc086/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.m
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Found in path(s):

```
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
DCPathButton-ecfc086/README.md
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas

Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael

Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
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Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Mallayya, Sangamesh  
Marchionna, Michael D.  
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Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Pasteleurs, Frederic  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik

Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Spradling, Michael  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm



Wieringen, Marco van  
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Wood, David  
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The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
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Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
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Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Puente, Enol  
Putanec, Boidar  
Qun, Trn Ngc

Rasmussen, Sebastian  
Regueiro, Leandro  
Sarer, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

# 1.132 berkeley-db 5.3.28

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# 1.133 iconv 2.28

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## 2.module\_el8.3.0+389+6a62c88d

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes

1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF				yes

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## 1.141 json-c 0.13.1-0.3.el8

### 1.141.1 Available under license :

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## 1.142 d-bus 1.12.8-12.el8

### 1.142.1 Available under license :

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```
#
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#
# This file contains all needed files related to nfs server daemon.
#
infra/systemd/nfs-mountd.service      usr/lib/systemd/system/nfs-mountd.service
infra/systemd/nfs-server.service      usr/lib/systemd/system/nfs-server.service
infra/systemd/proc-fs-nfsd.mount      usr/lib/systemd/system/proc-fs-nfsd.mount

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/exportfs  usr/sbin/exportfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.mountd  usr/sbin/rpc.mountd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.nfsd  usr/sbin/rpc.nfsd
```

```

(include nfs-common)
# The following optional kernel modules are put here to allow forwarding
# compatible when NFSV4 support is configured in kernel.
# When nfsv4 is enabled in kernel, it brings in extra dependency for
# nfsd.ko, which is needed for nfsv3 server.
#
so treat extra modules needed by nfsd.ko as optional since it depend on kernel
# configure.
#
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/nfsv3/nfs-utils
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linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcalc usr/bin/ipcalc

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/ipcalc
No license file was found, but licenses were detected in source scan.

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linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.statd      usr/sbin/rpc.statd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sm-notify      usr/sbin/sm-notify
infra/systemd/nfs-statd.service      usr/lib/systemd/system/nfs-statd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/nfsstat      usr/sbin/nfsstat

contrib/initscripts/binos/etc/${NFS_VER}/nfs-utils.conf  etc/nfs-utils.conf

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/nfsv3/nfs-common
No license file was found, but licenses were detected in source scan.

# Original Creation Date Unknown
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```

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/staprun                   usr/bin/staprun  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/libexec/systemtap/stapio   usr/libexec/systemtap/stapio

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/systemtap

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/journalctl                   usr/bin/journalctl  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemctl                   usr/bin/systemctl  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemd-inhibit                   usr/bin/systemd-inhibit  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemd-notify                   usr/bin/systemd-notify  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemd-tmpfiles                   usr/bin/systemd-tmpfiles  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/udevadm                   usr/bin/udevadm  
contrib/yocto/CGE7/journald.conf                   etc/systemd/journald.conf  
infra/systemd/system.conf                   etc/systemd/system.conf  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/systemd/user.conf  
                 etc/systemd/user.conf  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/udev/udev.conf                   etc/udev/udev.conf  
/usr/lib/systemd/systemd                   init  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system-generators/systemd-fstab-generator  
usr/lib/systemd/system-generators/systemd-fstab-generator  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/basic.target  
usr/lib/systemd/system/basic.target  
/usr/lib/systemd/system/reboot.target                   usr/lib/systemd/system/ctrl-alt-del.target  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/dev-hugepages.mount  
usr/lib/systemd/system/dev-hugepages.mount  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/dev-mqueue.mount  
usr/lib/systemd/system/dev-mqueue.mount  
infra/systemd/emergency.service                   usr/lib/systemd/system/emergency.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/emergency.target  
usr/lib/systemd/system/emergency.target  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/final.target  
usr/lib/systemd/system/final.target  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/halt.target  
usr/lib/systemd/system/halt.target  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/kexec.target  
usr/lib/systemd/system/kexec.target  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/local-fs-pre.target  
usr/lib/systemd/system/local-fs-pre.target  
infra/systemd/local-fs.target                   usr/lib/systemd/system/local-fs.target  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/network-online.target  
usr/lib/systemd/system/network-online.target  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/network.target

```

usr/lib/systemd/system/network.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/paths.target
usr/lib/systemd/system/paths.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/poweroff.target
usr/lib/systemd/system/poweroff.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/reboot.target
usr/lib/systemd/system/reboot.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/remote-fs.target
usr/lib/systemd/system/remote-fs.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/rescue.service
usr/lib/systemd/system/rescue.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/rescue.target
usr/lib/systemd/system/rescue.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/shutdown.target
usr/lib/systemd/system/shutdown.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/slices.target
usr/lib/systemd/system/slices.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/sockets.target
usr/lib/systemd/system/sockets.target
/usr/lib/systemd/system/systemd-journald.socket
usr/lib/systemd/system/sockets.target.requires/systemd-journald.socket
/usr/lib/systemd/system/systemd-udev-control.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udev-control.socket
/usr/lib/systemd/system/systemd-udev-kernel.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udev-kernel.socket
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/sys-kernel-config.mount
usr/lib/systemd/system/sys-kernel-config.mount
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/sys-kernel-debug.mount
usr/lib/systemd/system/sys-kernel-debug.mount
/usr/lib/systemd/system/dev-hugepages.mount
usr/lib/systemd/system/sysinit.target.wants/dev-hugepages.mount
/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/sysinit.target.wants/dev-mqueue.mount
/usr/lib/systemd/system/sys-kernel-config.mount
usr/lib/systemd/system/sysinit.target.wants/sys-kernel-config.mount
/usr/lib/systemd/system/sys-kernel-debug.mount
usr/lib/systemd/system/sysinit.target.wants/sys-kernel-debug.mount
/usr/lib/systemd/system/systemd-journal-flush.service
usr/lib/systemd/system/sysinit.target.wants/systemd-journal-flush.service
/usr/lib/systemd/system/systemd-journald.service
usr/lib/systemd/system/sysinit.target.wants/systemd-journald.service
/usr/lib/systemd/system/systemd-modules-load.service
usr/lib/systemd/system/sysinit.target.wants/systemd-modules-load.service
/usr/lib/systemd/system/systemd-sysctl.service
usr/lib/systemd/system/sysinit.target.wants/systemd-sysctl.service
/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service
usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup-dev.service
/usr/lib/systemd/system/systemd-tmpfiles-setup.service

```

usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup.service  
 /usr/lib/systemd/system/systemd-udev-trigger.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-udev-trigger.service  
 /usr/lib/systemd/system/systemd-udev.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-udev.service  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-halt.service  
   usr/lib/systemd/system/systemd-halt.service  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-journal-flush.service  
 usr/lib/systemd/system/systemd-journal-flush.service  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-journald-dev-log.socket  
 usr/lib/systemd/system/systemd-journald-dev-log.socket  
 infra/systemd/systemd-journald.service.d/visible.conf                   usr/lib/systemd/system/systemd-  
 journald.service.d/visible.conf  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-fsck@.service  
 usr/lib/systemd/system/systemd-fsck@.service  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-journald.socket  
 usr/lib/systemd/system/systemd-journald.socket  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-kexec.service  
 usr/lib/systemd/system/systemd-kexec.service  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-modules-load.service  
 usr/lib/systemd/system/systemd-modules-load.service  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-poweroff.service  
   usr/lib/systemd/system/systemd-poweroff.service  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-reboot.service  
 usr/lib/systemd/system/systemd-reboot.service  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-sysctl.service  
 usr/lib/systemd/system/systemd-sysctl.service  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service  
 usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup.service  
 usr/lib/systemd/system/systemd-tmpfiles-setup.service  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-udev-settle.service  
 usr/lib/systemd/system/systemd-udev-settle.service  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-udev-trigger.service  
 usr/lib/systemd/system/systemd-udev-trigger.service  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-udev-control.socket  
   usr/lib/systemd/system/systemd-udev-control.socket  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-udev-kernel.socket  
 usr/lib/systemd/system/systemd-udev-kernel.socket  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/timers.target  
 usr/lib/systemd/system/timers.target  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/time-sync.target  
 usr/lib/systemd/system/time-sync.target  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/umount.target  
 usr/lib/systemd/system/umount.target  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd                   usr/lib/systemd/systemd  
 linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/bin/systemd-socket-activate           usr/bin/systemd-socket-  
 activate

```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-bootchart
usr/lib/systemd/systemd-bootchart
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-fsck
usr/lib/systemd/systemd-fsck
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-journald
usr/lib/systemd/systemd-
journald
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-modules-load
usr/lib/systemd/systemd-modules-load
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-shutdown
usr/lib/systemd/systemd-shutdown
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-sysctl
usr/lib/systemd/systemd-
sysctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-timedated
usr/lib/systemd/systemd-timedated
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-udev
usr/lib/systemd/systemd-
udev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/udev/rules.d/50-udev-default.rules
usr/lib/udev/rules.d/50-udev-default.rules
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/udev/rules.d/99-systemd.rules
usr/lib/udev/rules.d/99-systemd.rules
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-analyze
usr/bin/systemd-analyze
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/machine.slice
usr/lib/systemd/system/machine.slice
infra/systemd/systemd-journald.service.d/visible.conf
usr/lib/systemd/system/systemd-
journald.service.d/visible.conf

infra/systemd/sysctl/inotify-user-instances.conf
etc/sysctl.d/inotify-user-instances.conf

```

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/systemd-common

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#

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(include audit)

(include bash)

(include binutils)

(include bridge-utils)

(include busybox)

(include bzip2)

(include coreutils)

(include cpio)

(include dbus)

(include diffutils)

(include dosfstools)

(include e2fsprogs)

(include ethtool)  
(include file)  
(include filesystem)  
(include findutils)  
(include gawk)  
(include glibc)  
(include grep)  
(include gzip)  
(include initscripts)  
(include ipcalc)  
(include iproute2)  
(include iptables)  
(include iputils)  
(include kexec-tools)  
(include kmod)  
(include less)  
(include libcap)  
(include lsof)  
(include modules)  
(include ncurses)  
(include netbase)  
(include netcat)  
(include netkit-telnet)  
(include net-tools)  
(include \${NFS\_VER}/nfs-utils-client)  
(include pciutils)  
(include procps)  
(include psmisc)  
(include rpcbind)  
(include sed)  
(include shadow)  
(include strace)  
(include sysklogd)  
(include systemtap)  
(include sysvinit)  
(include  
tar)  
(include tcpdump)  
(include tftp-hpa)  
(include traceroute)  
(include util-linux)

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/all-common

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#

# November 2018, Cisco Systems, Inc.

```
#
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#
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ping      usr/bin/ping
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/tracepath  usr/bin/tracepath
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/in.tftpd-hpa  usr/bin/tftpd
```

Found in path(s):

```
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/iputils
```

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```
#
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```

(include all-common)

(include systemd)

Found in path(s):

```
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/all
```

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```
#
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```

#files related to nfs-statd.service

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.statd      usr/sbin/rpc.statd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sm-notify      usr/sbin/sm-notify
infra/systemd/nfs-statd.service          usr/lib/systemd/system/nfs-statd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/nfsstat        usr/sbin/nfsstat
```

#files related to nfs-idmapd.service

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.idmapd      usr/sbin/rpc.idmapd
infra/systemd/var-lib-nfs-rpc_pipefs.mount  usr/lib/systemd/system/var-lib-nfs-rpc_pipefs.mount
# plugin nsswitch for rpc.idmapd can not be figure out automatilly by dependency.
# The directory for plugin is fix to usr/lib/libnfsidmap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/${LIB}/libnfsidmap/nsswitch.so  usr/lib/libnfsidmap/nsswitch.so
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/idmapd.conf
    etc/idmapd.conf
infra/systemd/nfs-idmapd.service          usr/lib/systemd/system/nfs-idmapd.service
```

```
contrib/initscripts/binos/etc/${NFS_VER}/nfs-utils.conf  etc/nfs-utils.conf
```

Found in path(s):

```
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/nfsv4/nfs-common
```



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#

# May 2018, Victor Kamensky

#

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#

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/audispd      usr/sbin/audispd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/autrace      usr/sbin/autrace
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/aureport      usr/sbin/aureport
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditctl      usr/sbin/auditctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/ausearch      usr/sbin/ausearch
```

```
contrib/initscripts/binos/etc/audit/auditd.conf        etc/audit/auditd.conf
contrib/initscripts/binos/etc/audisp/audispd.conf      etc/audisp/audispd.conf
contrib/initscripts/binos/etc/audit/audit.rules        etc/audit/audit.rules
contrib/initscripts/binos/etc/audisp/plugins.d/syslog.conf  etc/audisp/plugins.d/syslog.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/default/auditd
etc/default/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/libaudit.conf      etc/libaudit.conf
```

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/audit

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(include systemd-common)

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-preset/90-systemd.preset
usr/lib/systemd/system-preset/90-systemd.preset
/usr/lib/systemd/system/tmp.mount                usr/lib/systemd/system/local-
fs.target.requires/tmp.mount
infra/systemd/sysinit.target                    usr/lib/systemd/system/sysinit.target
infra/systemd/cpld-symlink.service              usr/lib/systemd/system/cpld-symlink.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald.service
usr/lib/systemd/system/systemd-journald.service
infra/systemd/systemd-journald.service.d/visible.conf  usr/lib/systemd/system/systemd-
journald.service.d/visible.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-timedated.service
usr/lib/systemd/system/systemd-timedated.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udev.service
usr/lib/systemd/system/systemd-udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/tmp.mount
```

usr/lib/systemd/system/tmp.mount

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/systemd

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#

# This file contains all needed files related to nfs server daemon.

#

infra/systemd/nfs-mountd.service           usr/lib/systemd/system/nfs-mountd.service

infra/systemd/nfs-server.service         usr/lib/systemd/system/nfs-server.service

infra/systemd/proc-fs-nfsd.mount         usr/lib/systemd/system/proc-fs-nfsd.mount

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/exportfs   usr/sbin/exportfs

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.mountd   usr/sbin/rpc.mountd

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.nfsd   usr/sbin/rpc.nfsd

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/rpcinfo   usr/bin/rpcinfo

(include nfs-common)

# The following kernel modules are needed when NFSV4 support is configured

# in kernel.

# nfsd.ko depend on auth\_rpcgss.ko

# auth\_rpcgss.ko depend on oid\_registry.ko

-\${PLATFORM\_SYSROOT}/usr/lib/modules/\${KERNEL\_VER}/kernel/lib/oid\_registry.ko

usr/lib/modules/\${KERNEL\_VER}/kernel/lib/oid\_registry.ko

\${PLATFORM\_SYSROOT}/usr/lib/modules/\${KERNEL\_VER}/kernel/net/sunrpc/auth\_gss/auth\_rpcgss.ko

usr/lib/modules/\${KERNEL\_VER}/kernel/net/sunrpc/auth\_gss/auth\_rpcgss.ko

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/nfsv4/nfs-utils

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#

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# This file is to store extra files needed to support NFSV4 client.

#

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/mount.nfs   usr/sbin/mount.nfs

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/umount.nfs   usr/sbin/umount.nfs

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/mount.nfs4   usr/sbin/mount.nfs4

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/umount.nfs4   usr/sbin/umount.nfs4

contrib/initscripts/binos/etc/\${NFS\_VER}/nfsmount.conf   etc/nfsmount.conf

`${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko`  
`usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko`

`(include nfs-common)`

Found in path(s):

\* `/opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/nfsv4/nfs-utils-client`

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`(include systemd-common)`

<code>infra/systemd/switchroot/sysinit.target</code>	<code>usr/lib/systemd/system/sysinit.target</code>
<code>infra/systemd/switchroot/systemd-journald.service</code>	<code>usr/lib/systemd/system/systemd-journald.service</code>
<code>infra/systemd/switchroot/systemd-timedated.service</code>	<code>usr/lib/systemd/system/systemd-timedated.service</code>
<code>infra/systemd/switchroot/systemd-udev.service</code>	<code>usr/lib/systemd/system/systemd-udev.service</code>
<code>linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journald-audit.socket</code>	
<code>usr/lib/systemd/system/systemd-journald-audit.socket</code>	

Found in path(s):

\* `/opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/systemd-swrt`

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#

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`(include all-common)`

`(include systemd-swrt)`

Found in path(s):

\* `/opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/all-swrt`

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<code>linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/dmesg</code>	<code>usr/bin/dmesg</code>
<code>linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/kill</code>	<code>usr/bin/kill</code>
<code>linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/mount</code>	<code>usr/bin/mount</code>
<code>linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/umount</code>	<code>usr/bin/umount</code>
<code>linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/agetty</code>	<code>usr/sbin/agetty</code>

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/blockdev usr/sbin/blockdev  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/cfdisk usr/sbin/cfdisk  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/ctrlaltdel usr/sbin/ctrlaltdel  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/fdisk usr/sbin/fdisk  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/fsck usr/sbin/fsck  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/hwclock usr/sbin/hwclock  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/mkswap usr/sbin/mkswap  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/pivot\_root  
usr/sbin/pivot\_root  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/sfdisk usr/sbin/sfdisk  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/swapoff usr/sbin/swapoff  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/swapon usr/sbin/swapon  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/arch usr/bin/arch  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/cal usr/bin/cal  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/chrt usr/bin/chrt  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/col usr/bin/col  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/colcrt usr/bin/colcrt  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/colrm usr/bin/colrm  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/column usr/bin/column  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/flock usr/bin/flock  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/getopt usr/bin/getopt  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/hexdump usr/bin/hexdump  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ionice usr/bin/ionice  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ipcrm  
usr/bin/ipcrm  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ipcs usr/bin/ipcs  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/isosize usr/bin/isosize  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/last usr/bin/last  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/logger usr/bin/logger  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/look usr/bin/look  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/lshblk usr/bin/lshblk  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/mesg usr/bin/mesg  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/namei usr/bin/namei  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/newgrp usr/bin/newgrp  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/nsenter usr/bin/nsenter  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/rename usr/bin/rename  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/renice usr/bin/renice  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/rev usr/bin/rev  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/script usr/bin/script  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/setuid  
usr/bin/setuid  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/setterm usr/bin/setterm  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/taskset usr/bin/taskset  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ul usr/bin/ul  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/wall usr/bin/wall  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/whereis usr/bin/whereis  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/write usr/bin/write  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/fdformat usr/sbin/fdformat

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkfs    usr/sbin/mkfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/raw    usr/sbin/raw
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/zramctl  usr/sbin/zramctl
```

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/util-linux

## 1.143 libdnf 0.55.0-1.el8

### 1.143.1 Available under license :

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\*/

Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/getaddrinfo.c

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```
<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
```

```
<!--
```

```
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```

```
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```

```
-
```

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-->

<!-- \$Id: lwres\_getaddrinfo.docbook,v  
1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getaddrinfo</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getaddrinfo</refname>

<refname>lwres\_freeaddrinfo</refname>

<refpurpose>socket address structure to host and service name</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

int

<function>lwres\_getaddrinfo</function></funcdef>

<paramdef>const char \*hostname</paramdef>

<paramdef>const char \*servname</paramdef>

<paramdef>const struct addrinfo \*hints</paramdef>

<paramdef>struct addrinfo \*\*res</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres\_freeaddrinfo</function></funcdef>

<paramdef>struct addrinfo \*ai</paramdef>

</funcprototype>

</funcsynopsis>

<para>

If the operating system does not provide a <type>struct addrinfo</type>, the following structure is used:

<programlisting>

```
struct addrinfo {
    int      ai_flags;    /* AI_PASSIVE, AI_CANONNAME */
    int      ai_family;  /* PF_XXX */
    int      ai_socktype; /* SOCK_XXX */
    int      ai_protocol; /* 0 or IPPROTO_XXX for IPv4 and IPv6 */
    size_t   ai_addrlen; /* length of ai_addr */
    char     *ai_canonname; /* canonical name for hostname */
    struct sockaddr *ai_addr; /* binary address */
    struct addrinfo *ai_next; /* next structure in linked list */
};
```

</programlisting>

</para>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_getaddrinfo()</function>

is used to get a list of IP addresses and port numbers for host

<parameter>hostname</parameter>

and service

<parameter>servname</parameter>.

The function is the lightweight resolver's implementation of

<function>getaddrinfo()</function>

as

defined in RFC2133.

<parameter>hostname</parameter>

and

<parameter>servname</parameter>

are pointers to null-terminated

strings or

<type>NULL</type>.

<parameter>hostname</parameter>

is either a host name or a numeric host address string: a dotted decimal IPv4 address or an IPv6 address.

<parameter>servname</parameter>

is either a decimal port number or a service name as listed in

<filename>/etc/services</filename>.

</para>

<para>

<parameter>hints</parameter>

is an optional pointer to a

<type>struct addrinfo</type>.

This structure can be used to provide hints concerning the type of socket that the caller supports or wishes to use.

The caller can supply the following structure elements in

<parameter>\*hints</parameter>:

<variablelist>

<varlistentry><term><constant>ai\_family</constant></term>

<listitem>

<para>The protocol family that should be used.

When

<constant>ai\_family</constant>

is set to

<type>PF\_UNSPEC</type>,

it means the caller will accept any protocol family supported by the operating system.

</para></listitem></varlistentry>

<varlistentry><term><constant>ai\_socktype</constant></term>

<listitem>

<para>

denotes the type of socket &mdash;

<type>SOCK\_STREAM</type>,

<type>SOCK\_DGRAM</type>

or

<type>SOCK\_RAW</type>

&mdash; that is wanted.

When

<constant>ai\_socktype</constant>

is zero the caller will accept any socket type.

</para>

</listitem>

</varlistentry>

<varlistentry><term><constant>ai\_protocol</constant></term>

<listitem>

<para>

indicates which transport protocol is wanted: IPPROTO\_UDP or IPPROTO\_TCP.

If

<constant>ai\_protocol</constant>

is zero the caller will accept any protocol.

</para>

</listitem>



</varlistentry>  
<varlistentry><term><constant>ai\_flags</constant></term>  
<listitem>  
<para>  
Flag bits.  
If the  
<type>AI\_CANONNAME</type>  
bit is set, a successful call to  
<function>lwres\_getaddrinfo()</function>  
will return a null-terminated string containing the canonical name  
of the specified hostname in  
<constant>ai\_canonname</constant>  
of  
the first  
<type>addrinfo</type>  
structure returned.  
Setting the  
<type>AI\_PASSIVE</type>  
bit indicates that the returned socket address structure is intended  
for used in a call to  
<citrefentry>  
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>.

In this case, if the hostname argument is a  
<type>NULL</type>  
pointer, then the IP address portion of the socket  
address structure will be set to  
<type>INADDR\_ANY</type>  
for an IPv4 address or  
<type>IN6ADDR\_ANY\_INIT</type>  
for an IPv6 address.

</para>  
<para>  
When  
<constant>ai\_flags</constant>  
does not set the  
<type>AI\_PASSIVE</type>  
bit, the returned socket address structure will be ready  
for use in a call to  
<citrefentry>  
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>  
</manvolnum>  
</citrefentry>  
for a connection-oriented protocol or  
<citrefentry>  
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>.

<citrefentry>  
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,&br/></para>

or

<citrefentry>  
<refentrytitle>sendmsg</refentrytitle><manvolnum>2  
</manvolnum>  
</citrefentry>

if

a connectionless protocol was chosen.

The IP address portion of the socket address structure will be set to the loopback address if

<parameter>hostname</parameter>

is a

<type>NULL</type>

pointer and

<type>AI\_PASSIVE</type>

is not set in

<constant>ai\_flags</constant>.

</para>

<para>

If

<constant>ai\_flags</constant>

is set to

<type>AI\_NUMERICHOST</type>

it indicates that

<parameter>hostname</parameter>

should be treated as a numeric string defining an IPv4 or IPv6 address and no name resolution should be attempted.

</para>

</listitem>

</varlistentry>

</variablelist>

</para>

<para>

All other elements of the <type>struct addrinfo</type> passed via <parameter>hints</parameter> must be zero.

</para>

<para>

A <parameter>hints</parameter> of <type>NULL</type> is treated as if the caller provided a <type>struct addrinfo</type> initialized to zero

with <constant>ai\_family</constant> set

to

<constant>PF\_UNSPEC</constant>.

</para>

<para>

After a successful call to  
<function>lwres\_getaddrinfo()</function>,  
<parameter>\*res</parameter>  
is a pointer to a linked list of one or more  
<type>addrinfo</type>  
structures.

Each

<type>struct addrinfo</type>  
in this list can be processed by following  
the

<constant>ai\_next</constant>  
pointer, until a

<type>NULL</type>  
pointer is encountered.

The three members

<constant>ai\_family</constant>,  
<constant>ai\_socktype</constant>,  
and

<constant>ai\_protocol</constant>  
in each  
returned

<type>addrinfo</type>  
structure contain the corresponding arguments for a call to  
<citerefentry>  
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>  
</citerefentry>.

For each

<type>addrinfo</type>  
structure in the list, the  
<constant>ai\_addr</constant>  
member points to a filled-in socket address structure of length  
<constant>ai\_addrlen</constant>.

</para>

<para>

All of the information returned by  
<function>lwres\_getaddrinfo()</function>  
is dynamically  
allocated: the addrinfo structures, and the socket  
address structures and canonical host name strings pointed to by the  
<constant>addrinfo</constant> structures.  
Memory allocated for the dynamically allocated structures created by  
a successful call to  
<function>lwres\_getaddrinfo()</function>  
is released by

<function>lwres\_freeaddrinfo()</function>.

<parameter>ai</parameter>

is a pointer to a

<type>struct addrinfo</type>

created by a call to

<function>lwres\_getaddrinfo()</function>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_getaddrinfo()</function>

returns zero on success or one of the error codes listed in

<citerefentry>

<refentrytitle>gai\_strerror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

if an error occurs.

If both

<parameter>hostname</parameter>

and

<parameter>servname</parameter>

are

<type>NULL</type>

<function>lwres\_getaddrinfo()</function>

returns

<errorcode>EAI\_NONAME</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE

ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citrefentry>  
<refentrytitle>lwres\_gai\_strerror</refentrytitle><manvolnum>3</manvolnum>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>RFC2133</refentrytitle>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>.

</para>

</refsect1>

</refentry>

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in path(s):

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; \$Id: bindevt.mc,v 1.1 2004/11/03 01:39:06 abstine Exp \$

MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)

OutputBase

= 16

MessageId=0x1

Severity=Error

Facility=Application

SymbolicName=BIND\_ERR\_MSG

Language=English

% 1

.

MessageId=0x2

Severity=Warning

Facility=Application

SymbolicName=BIND\_WARN\_MSG

Language=English

% 1

.

MessageId=0x3

Severity=Informational

Facility=Application

SymbolicName=BIND\_INFO\_MSG

Language=English

% 1

.

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 \*  
 /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_neta.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_net\_pton.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_pton.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/getnetent.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_net\_ntop.c  
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 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/getservent.c  
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 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/gen\_nw.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/gen\_p.h  
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 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/gen\_pw.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/nis\_p.h  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/util.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/mpe/include/sys/bitypes.h  
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 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/hpux10/include/sys/bitypes.h  
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 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/bsdos2/include/sys/bitypes.h  
 \*  
 /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/aix32/include/sys/bitypes.h  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/unixware20/include/sys/bitypes.h  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/nis\_ng.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/nis\_pr.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/hesiod\_p.h

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/freebsd/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/hpux/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/sco42/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/hesiod.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_sv.c
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/\* \$Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp \$ \*/

#ifndef ISC\_PLATFORM\_H

#define

ISC\_PLATFORM\_H 1

/\*\*\*\*\*\*

\*\*\*\*\* Platform-dependent defines.

\*\*\*\*\*/

/\*\*\*

\*\*\* Network.

\*\*\*/

/\*

\* Define if this system needs the <netinet/in6.h> header file included  
\* for full IPv6 support (pretty much only UnixWare).

\*/

@ISC\_PLATFORM\_NEEDNETINETIN6H@

/\*

\* Define if this system needs the <netinet6/in6.h> header file included  
\* to support in6\_pkinfo (pretty much only BSD/OS).

\*/

@ISC\_PLATFORM\_NEEDNETINET6IN6H@

/\*

\* If sockaddrs on this system have an sa\_len field, ISC\_PLATFORM\_HAVESALEN  
\* will be defined.

\*/

@ISC\_PLATFORM\_HAVESALEN@

/\*

\* If this system has the IPv6 structure definitions, ISC\_PLATFORM\_HAVEIPV6  
\* will be defined.

\*/

@ISC\_PLATFORM\_HAVEIPV6@

/\*

\* If this system is missing in6addr\_any, ISC\_PLATFORM\_NEEDIN6ADDRANY will  
\* be defined.

\*/

@ISC\_PLATFORM\_NEEDIN6ADDRANY@

/\*

\* If this system is missing in6addr\_loopback, ISC\_PLATFORM\_NEEDIN6ADDRLOOPBACK  
\* will be defined.

\*/

@ISC\_PLATFORM\_NEEDIN6ADDRLOOPBACK@

/\*

\* If this system has in6\_pktinfo,  
ISC\_PLATFORM\_HAVEIN6PKTINFO will be  
\* defined.

\*/

@ISC\_PLATFORM\_HAVEIN6PKTINFO@

/\*

\* If this system has in\_addr6, rather than in6\_addr, ISC\_PLATFORM\_HAVEINADDR6  
\* will be defined.

```
*/
@ISC_PLATFORM_HAVEINADDR6@

/*
* If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.
*/
@ISC_PLATFORM_HAVESCOPEID@

/*
* If this system needs inet_ntop(), ISC_PLATFORM_NEEDNTOP will be defined.
*/
@ISC_PLATFORM_NEEDNTOP@

/*
* If this system needs inet_pton(), ISC_PLATFORM_NEEDPTON will be defined.
*/
@ISC_PLATFORM_NEEDPTON@

/*
* If this system needs inet_aton(), ISC_PLATFORM_NEEDATON will be defined.
*/
@ISC_PLATFORM_NEEDATON@

/*
* If this system needs in_port_t, ISC_PLATFORM_NEEDPORTT will be defined.
*/
@ISC_PLATFORM_NEEDPORTT@

/*
* If the system needs strsep(), ISC_PLATFORM_NEEDSTRSEP will be defined.
*/
@ISC_PLATFORM_NEEDSTRSEP@

/*
* If the system needs strlcpy(), ISC_PLATFORM_NEEDSTRLCOPY will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCOPY@

/*
* If the
system needs strlcat(), ISC_PLATFORM_NEEDSTRLCAT will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCAT@

/*
* Define either ISC_PLATFORM_BSD44MSGHDR or ISC_PLATFORM_BSD43MSGHDR.
*/
@ISC_PLATFORM_MSGHDRFLAVOR@
```

```

/*
* Define if PTHREAD_ONCE_INIT should be surrounded by braces to
* prevent compiler warnings (such as with gcc on Solaris 2.8).
*/
@ISC_PLATFORM_BRACEPTHREADONCEINIT@

/*
* Define on some UnixWare systems to fix erroneous definitions of various
* IN6_IS_ADDR_* macros.
*/
@ISC_PLATFORM_FIXIN6ISADDR@

/**
*** Printing.
***/

/*
* If this system needs vsnprintf() and snprintf(), ISC_PLATFORM_NEEDVSNPRINTF
* will be defined.
*/
@ISC_PLATFORM_NEEDVSNPRINTF@

/*
* If this system need a modern sprintf() that returns (int) not (char*).
*/
@ISC_PLATFORM_NEEDSPRINTF@

/*
* The printf format string modifier to use with isc_uint64_t values.
*/
@ISC_PLATFORM_QUADFORMAT@

/*
* Defined if we are using threads.
*/
@ISC_PLATFORM_USETHREADS@

/*
* Defined if unistd.h does not cause
fd_set to be delared.
*/
@ISC_PLATFORM_NEEDSYSSELECTH@

/*
* Type used for resource limits.
*/
@ISC_PLATFORM_RLIMITTYPE@

```

```

/*
* Define if your compiler supports "long long int".
*/
@ISC_PLATFORM_HAVELONGLONG@

/*
* Define if the system has struct lifconf which is a extended struct ifconf
* for IPv6.
*/
@ISC_PLATFORM_HAVELIFCONF@

/*
* Define if the system has struct if_laddrconf which is a extended struct
* ifconf for IPv6.
*/
@ISC_PLATFORM_HAVEIF_LADDRCONF@

/*
* Define if the system has struct if_laddrreq.
*/
@ISC_PLATFORM_HAVEIF_LADDRREQ@

/*
* Used to control how extern data is linked; needed for Win32 platforms.
*/
@ISC_PLATFORM_USEDECLSPEC@

/*
* Define if the system supports if_nametoindex.
*/
@ISC_PLATFORM_HAVEIFNAMETOINDEX@

/*
* Define if this system needs strtoul.
*/
@ISC_PLATFORM_NEEDSTRTOUL@

/*
* Define if this system needs memmove.
*/
@ISC_PLATFORM_NEEDMEMMOVE@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define

```

```

LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#define LIBBIND9_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#ifdef LIBISC_EXPORTS
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCC_EXPORTS
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif /* ISC_PLATFORM_USEDECLSPEC */

/*
* Tell emacs to use C mode for this file.
*
* Local Variables:
* mode: c
* End:
*/

#endif /* ISC_PLATFORM_H */

Found
in path(s):
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/platform.h.in
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```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_pr.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_pw.c
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-->
```

```
<!-- $Id: lwres_getrrsetbyname.docbook,v
1.1 2004/11/03 01:39:06 abstine Exp $ -->
```

```
<refentry>
<refentryinfo>
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<date>Oct 18, 2000</date>
</refentryinfo>
<refmeta>
<refentrytitle>lwres_getrrsetbyname</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_getrrsetbyname</refname>
<refname>lwres_freerrset</refname>
<refpurpose>retrieve DNS records</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <&lt;lwres/netdb.h>></funcsynopsisinfo>
<funcprototype>
<funcdef>
int
```

```

<function>lwres_getrrsetbyname</function></funcdef>
<paramdef>const char *hostname</paramdef>
<paramdef>unsigned int rdclass</paramdef>
<paramdef>unsigned int rdtype</paramdef>
<paramdef>unsigned int flags</paramdef>
<paramdef>struct rrsetinfo **res</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freerrset</function></funcdef>
<paramdef>struct rrsetinfo *rrset</paramdef>
</funcprototype>
</funcsynopsis>

```

<para>  
The following structures  
are used:

```

<programlisting>
struct rdatainfo {
    unsigned int    rdi_length; /* length of data */
    unsigned char   *rdi_data; /* record data */
};

struct rrsetinfo {
    unsigned int    rri_flags; /* RRSET_VALIDATED... */
    unsigned int    rri_rdclass; /* class number */
    unsigned int    rri_rdtype; /* RR type number */
    unsigned int    rri_ttl; /* time to live */
    unsigned int    rri_nrdatas; /* size of rdatas array */
    unsigned int    rri_nsigs; /* size of sigs array */
    char            *rri_name; /* canonical name */
    struct rdatainfo *rri_rdatas; /* individual records */
    struct rdatainfo *rri_sigs; /* individual signatures */
};
</programlisting>

```

</para>  
</refsynopsisdiv>

<refsect1>  
<title>DESCRIPTION</title>  
<para>  
<function>lwres\_getrrsetbyname()</function>  
gets a set  
of resource records associated with a  
<parameter>hostname</parameter>,  
<parameter>class</parameter>,

and

<parameter>type</parameter>.

<parameter>hostname</parameter>

is

a pointer to a null-terminated string. The

<parameter>flags</parameter>

field is currently unused and must be zero.

</para>

<para>

After a successful call to

<function>lwres\_getrrsetbyname()</function>,

<parameter>\*res</parameter>

is a pointer to an

<type>rrsetinfo</type>

structure, containing a list of one or more

<type>rdatainfo</type>

structures containing resource records and potentially another list of

<type>rdatainfo</type>

structures containing SIG resource records

associated with those records.

The members

<constant>rri\_rdclass</constant>

and

<constant>rri\_rdtype</constant>

are copied from the parameters.

<constant>rri\_ttl</constant>

and

<constant>rri\_name</constant>

are properties of the obtained rrset.

The resource records contained in

<constant>rri\_rdatas</constant>

and

<constant>rri\_sigs</constant>

are

in uncompressed DNS wire format.

Properties of the rdataset are represented in the

<constant>rri\_flags</constant>

bitfield. If the RRSET\_VALIDATED bit is set, the data has been DNSSEC validated and the signatures verified.

</para>

<para>

All of the information returned by

<function>lwres\_getrrsetbyname()</function>

is dynamically allocated: the

<constant>rrsetinfo</constant>

and  
<constant>rdatainfo</constant>  
structures,  
and the canonical host name strings pointed to by the  
<constant>rrsetinfo</constant>structure.

Memory allocated for the dynamically allocated structures created by  
a successful call to  
<function>lwres\_getrrsetbyname()</function>  
is released by  
<function>lwres\_freerrset()</function>.

<parameter>rrset</parameter>  
is a pointer to a  
<type>struct rrset</type>  
created by a call to  
<function>lwres\_getrrsetbyname()</function>.

</para>

<para>

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_getrrsetbyname()</function>

returns zero on success,

and one of the following error

codes if an error occurred:

<variablelist>

<varlistentry><term><constant>ERRSET\_NONAME</constant></term>

<listitem><para>

the name does not exist

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_NODATA</constant></term>

<listitem><para>

the name exists, but does not have data of the desired type

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_NOMEMORY</constant></term>

<listitem><para>

memory could not be allocated

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_INVALID</constant></term>

<listitem><para>

a parameter is invalid  
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_FAIL</constant></term>  
<listitem><para>  
other failure  
</para></listitem></varlistentry>

<varlistentry><term><constant></constant></term>  
<listitem><para>  
</para></listitem></varlistentry>

</variablelist>

</para>  
</refsect1>  
<refsect1>  
<title>SEE ALSO</title>  
<para>  
<citerefentry>  
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>.  
</para>

</refsect1>  
</refentry>

## Found

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getrrsetbyname.docbook  
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-->

<!-- \$Id: lwres\_gabn.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

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<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_gabn</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_gabnrequest\_render</refname>

```

<refname>lwres_gabnresponse_render</refname>
<refname>lwres_gabnrequest_parse</refname>
<refname>lwres_gabnresponse_parse</refname>
<refname>lwres_gabnresponse_free</refname>
<refname>lwres_gabnrequest_free</refname>
<refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
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<paramdef>lwres_lwpacket_t *pkt</paramdef>
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<paramdef>lwres_gabnrequest_t **structp</paramdef>
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```

```

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<paramdef>lwres_context_t *ctx</paramdef>
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**structp</paramdef>
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<refsect1>
<title>DESCRIPTION</title>
<para>
These are low-level routines for creating and parsing
lightweight resolver name-to-address lookup request and
response messages.
</para><para>
There are four main functions for the getaddrbyname opcode.
One render function converts a getaddrbyname request structure &mdash;
<type>lwres_gabnrequest_t</type> &mdash;
to the lightweight resolver's canonical format.
It is complemented by a parse function that converts a packet in this
canonical format to a getaddrbyname request structure.
Another render function converts the getaddrbyname response structure &mdash;
<type>lwres_gabnresponse_t</type> &mdash;
to the canonical format.
This is complemented by a parse function which
converts a packet in
canonical format to a getaddrbyname response structure.
</para>
<para>
These structures are defined in
<filename>&lt;lwres/lwres.h&gt;</filename>.
They are shown below.
<programlisting>
#define LWRES_OPCODE_GETADDRSBYNAME 0x00010001U

typedef struct lwres_addr lwres_addr_t;
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;

typedef struct {
    lwres_uint32_t flags;

```

```

lwres_uint32_t  addrtypes;
lwres_uint16_t  namelen;
char           *name;
} lwres_gabnrequest_t;

```

```

typedef struct {
    lwres_uint32_t  flags;
    lwres_uint16_t  naliases;
    lwres_uint16_t  naddrs;
    char           *realname;
    char           **aliases;
    lwres_uint16_t  realnamelen;
    lwres_uint16_t  *aliaslen;
    lwres_addrlist_t  addrs;
    void           *base;
    size_t         baselen;
} lwres_gabnresponse_t;

```

</programlisting>

</para>

<para>

<function>lwres\_gabnrequest\_render()</function>

uses

resolver context

<parameter>ctx</parameter>

to convert getaddrbyname request structure

<parameter>req</parameter>

to canonical format.

The packet header structure

<parameter>pkt</parameter>

is initialised and transferred to

buffer

<parameter>b</parameter>.

The contents of

<parameter>\*req</parameter>

are then appended to the buffer in canonical format.

<function>lwres\_gabnresponse\_render()</function>

performs the same task, except it converts a getaddrbyname response structure

<type>lwres\_gabnresponse\_t</type>

to the lightweight resolver's canonical format.

</para>

<para>

<function>lwres\_gabnrequest\_parse()</function>

uses context

<parameter>ctx</parameter>

to convert the contents of packet

<parameter>pkt</parameter>

to a

<type>lwres\_gabnrequest\_t</type>

structure.

Buffer

<parameter>b</parameter>

provides space to be used for storing this structure.

When the function succeeds, the resulting

<type>lwres\_gabnrequest\_t</type>

is

made available through

<parameter>\*structp</parameter>.

<function>lwres\_gabnresponse\_parse()</function>

offers the same semantics as

<function>lwres\_gabnrequest\_parse()</function>

except it yields a

<type>lwres\_gabnresponse\_t</type>

structure.

</para>

<para>

<function>lwres\_gabnresponse\_free()</function>

and

<function>lwres\_gabnrequest\_free()</function>

release the memory in resolver context

<parameter>ctx</parameter>

that was allocated to the

<type>lwres\_gabnresponse\_t</type>

or

<type>lwres\_gabnrequest\_t</type>

structures referenced via

<parameter>structp</parameter>.

Any memory associated with ancillary buffers and strings for those structures is also discarded.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The getaddrbyname opcode functions

<function>lwres\_gabnrequest\_render()</function>,

<function>lwres\_gabnresponse\_render()</function>

<function>lwres\_gabnrequest\_parse()</function>

and

<function>lwres\_gabnresponse\_parse()</function>

all return

<errorcode>LWRES\_R\_SUCCESS</errorcode>

on

success.

They return

<errorcode>LWRES\_R\_NOMEMORY</errorcode>

if memory allocation fails.

<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>

is returned if the available space in the buffer

<parameter>b</parameter>

is too small to accommodate the packet header or the

<type>lwres\_gabnrequest\_t</type>

and

<type>lwres\_gabnresponse\_t</type>

structures.

<function>lwres\_gabnrequest\_parse()</function>

and

<function>lwres\_gabnresponse\_parse()</function>

will return

<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>

if the buffer is not empty after decoding the received packet.

These functions will return

<errorcode>LWRES\_R\_FAILURE</errorcode>

if

<structfield>pktflags</structfield>

in the packet header structure

<type>lwres\_lwpacket\_t</type>

indicate that the packet is not a response to an earlier query.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres\_packet</refentrytitle><manvolnum>3

</manvolnum>

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</para>

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in path(s):

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/sco42/include/sys/un.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/nameser/ns\_date.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/include/isc/irpmarshall.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/include/irp.h

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/syslog.h  
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/dns\_gr.c

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_gr.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/resolv/res_mkupdate.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/dst/support.c
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/ctl\_p.c

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/resolv/res\_mkupdate.h

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/ev\_streams.c

\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/ev\_waits.c

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\* SHA-1 in C

\* By Steve Reid <steve@edmweb.com>

\* 100% Public Domain

\*

\* Test Vectors (from FIPS PUB 180-1)

\* "abc"

\* A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D

\* "abcdbcdecdefdefgefghfghighijhijkjkljklmklmnlmnomnopq"

\* 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1

\* A million repetitions of "a"

\* 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F

\*/

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.\"
.\" $Id: lwres_gnba.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_gnba.3
```

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```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/stat.h
```

```
*
```

```
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/portlist.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rrsig_46.c
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/stdlib.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/portlist.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/nsec_47.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rrsig_46.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/sshfp_44.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/ifiter_getifaddrs.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/hash.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dnskey_48.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/nsec_47.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/sshfp_44.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dnskey_48.h
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.\"
```

#### Found

```
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_noop.3
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/\*

\* Get the response to 'request' by filling in 'message'.

\*

\* 'options' is passed

to `dns_message_parse()`. See `dns_message_parse()`

\* for more details.

\*

\* Requires:

\*

\* 'request' is a valid request for which the caller has received the

\* completion event.

\*

\* The result code of the completion event was `ISC_R_SUCCESS`.

\*

\* Returns:

\*

\* `ISC_R_SUCCESS`

\*

\* Any result that `dns_message_parse()` can return.

\*/

Found in path(s):

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\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/irp\_nw.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/irp\_sv.c  
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dlv\_65323.h

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```
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*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/win32/version.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mg_8.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/txt_16.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/eventclass.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/version.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mg_8.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/thread.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/condition.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/null_10.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/version.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/thread.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/version.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mr_9.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rdataclass.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mr_9.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/time.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/version.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/ns_2.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mf_4.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rdatatype.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/util.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/mutex.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/error.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mf_4.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/condition.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/threads/include/isc/condition.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/error.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind9/win32/version.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/cname_5.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/ptr_12.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/cname_5.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/ns_2.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/version.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/time.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mx_15.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/hinfo_13.h
```



\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/md\_3.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/minfo\_14.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mb\_7.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/md\_3.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mb\_7.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/minfo\_14.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/soa\_6.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/proforma.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/boolean.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/iscconf/version.c  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/opt\_41.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/event.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/pthreads/include/isc/thread.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/win32/version.c

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```
*/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_ho.c
*/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_ho.c
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```
*/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/assertions.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/memcluster.h
*/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/cygwin/include/ansi_realloc.h
*/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/memcluster.c
*/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/bsd/utimes.c
```

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/include/isc/heap.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/include/isc/list.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/heap.c  
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/include/arpa/inet.h  
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/any\_255/tsig\_250.c  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdataslab.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/ncache.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/master.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/dispatch.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/db.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/random.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/resolver.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/interfaceiter.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/net.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/types.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/ifiter\_sysctl.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/net.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rbt.c  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/xfrin.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/adb.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/cert\_37.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/sig\_24.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/getipnode.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/tests/t\_api.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/message.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/loc\_29.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/net.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/key\_25.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/cache.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/sockaddr.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/tkey\_249.c  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/zone.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/message.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/ifiter\_ioctl.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/adb.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/app.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/masterdump.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/in\_1/a6\_38.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/view.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/rdataset.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/view.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/zone.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/log.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/nxt\_30.c  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/net.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/dispatch.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/dnssec.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdataset.c

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/resolv/res\_comp.c

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\*  
\* Eventlib error message compiler input file  
\*  
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```

* The file basename is the facility name, the name is made
* uppercase. This file defines facility EVENTLIB
*/
module {
    description "EVENTLIB system messages";
}

errmsg HISTSUMM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
    arg {
        "int" dispatch_time "event dispatch time";
        "int" elapsed_time "event elapsed time";
        "int" hog_detected "event hog detected";
        "int" set_count "event set count since dispatch"
    }
    explanation
        "Eventlib historical summary for detected hog.";

    action
        "This event summary is part of a CPUHOG or TIMEHOG error, "
        "providing diagnostic details useful
to engineering. "
        "Save this summary message along with the HOG error. ";

    tac_details
        "Eventlib historical summary for detected hog.";
}

errmsg HISTELEM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

format "elem[%u] event: %s %s set: %llums unset: %llums hog check: %d caller: %p app-info: %s";

    arg {
        "int" set_count "element set count";
        "char *" position_string "event call type";
        "char *" position_string "event condition";
        "int" set_time "element set time";
        "int" unset_time "element unset time";
        "int" hog_check "element hog check result";
        "int" caller "caller builtin return address";
        "char *" any_string "element callback render buffer";
    }
}

```



```

    }
    explanation
        "Eventlib historical element for detected hog.";

    action
        "This event element is part of a CPUHOG or TIMEHOG error, "
        "providing diagnostic details useful to engineering. "
        "Save all element
messages along with the HOG error. ";

    tac_details
        "Eventlib historical element for detected hog.";
}

```

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.\"

.\" \$Id: lwres\_packet.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

Found

in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_packet.3

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```

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/region.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/socket.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/soa_6.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/netaddr.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/txt_16.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/buffer.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/event.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/hinfo_13.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/threads/include/isc/mutex.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/timer.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/lex.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/proforma.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/buffer.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/opt_41.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/a_1.c

```

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*/

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/iscfg/include/isc/iscfg/namedconf.h

```

```

*

```

```

/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/netscope.h

```

```

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/win32os.c

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/apl_42.c

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/opcode.h

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/region.c

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/apl_42.h

```

```

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/dst_openssl.h

```

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/order.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/netscope.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/win32os.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/ds_43.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/lwconfig.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/ds.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/ds_43.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/order.h
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<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
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<!-- $Id: lwres_context.docbook,v
```

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1.1 2004/11/03 01:39:06 abstine Exp $ -->
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<refname>lwres_context_create</refname>
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```
<refname>lwres_context_destroy</refname>
```

```
<refname>lwres_context_nextserial</refname>
```

```
<refname>lwres_context_initserial</refname>
```

```

<refname>lwres_context_freemem</refname>
<refname>lwres_context_allocmem</refname>
<refname>lwres_context_sendrecv</refname>
<refpurpose>lightweight resolver context management</refpurpose>
</refnamediv>
<refsynopsisdiv>
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**contextp</paramdef>
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<paramdef>lwres_context_t *ctx</paramdef>
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<paramdef>void *mem</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void

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<function>lwres\_context\_allocmem</function></funcdef>

<paramdef>lwres\_context\_t \*ctx</paramdef>

<paramdef>size\_t len</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void \*

<function>lwres\_context\_sendrecv</function></funcdef>

<paramdef>lwres\_context\_t

\*ctx</paramdef>

<paramdef>void \*sendbase</paramdef>

<paramdef>int sendlen</paramdef>

<paramdef>void \*recvbase</paramdef>

<paramdef>int recvlen</paramdef>

<paramdef>int \*recvd\_len</paramdef>

</funcprototype>

</funcsynopsis>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_context\_create()</function>

creates a

<type>lwres\_context\_t</type>

structure for use in lightweight resolver operations.

It holds a socket and other data needed for communicating with a resolver daemon.

The new

<type>lwres\_context\_t</type>

is returned through

<parameter>contextp</parameter>,

a pointer to a

<type>lwres\_context\_t</type>

pointer. This

<type>lwres\_context\_t</type>

pointer must initially be NULL, and is modified

to point to the newly created

<type>lwres\_context\_t</type>.

</para>

<para>

When the lightweight resolver needs to perform dynamic memory allocation, it will call

<parameter>malloc\_function</parameter>

to allocate memory and

<parameter>free\_function</parameter>

to  
free it. If  
<parameter>malloc\_function</parameter>  
and  
<parameter>free\_function</parameter>

are NULL, memory is allocated using  
.Xr malloc 3  
and  
<citerefentry>  
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>.

It is not permitted to have a NULL  
<parameter>malloc\_function</parameter>  
and a non-NULL  
<parameter>free\_function</parameter>  
or vice versa.  
<parameter>arg</parameter>  
is passed as the first parameter to the memory  
allocation functions.

If  
<parameter>malloc\_function</parameter>  
and  
<parameter>free\_function</parameter>  
are NULL,  
<parameter>arg</parameter>

is unused and should be passed as NULL.

</para>

<para>

Once memory for the structure has been allocated,  
it is initialized using

<citerefentry>  
<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>

and returned via  
<parameter>\*contextp</parameter>.

</para>

<para>

<function>lwres\_context\_destroy()</function>

destroys a

<type>lwres\_context\_t</type>,

closing

its socket.

<parameter>contextp</parameter>

is a pointer to a pointer to the context that is to be destroyed.

The pointer will be set to NULL when the context has been destroyed.

</para>

<para>

The context holds a serial number that is used to identify resolver request packets and associate responses with the corresponding requests.

This serial number is controlled using

<function>lwres\_context\_initserial()</function>

and

<function>lwres\_context\_nextserial()</function>.

<function>lwres\_context\_initserial()</function>

sets the serial number for context

<parameter>\*ctx</parameter>

to

<parameter>serial</parameter>.

<function>lwres\_context\_nextserial()</function>

increments the serial number and returns the previous value.

</para>

<para>

Memory for a lightweight resolver context is allocated and freed using

<function>lwres\_context\_allocmem()</function>

and

<function>lwres\_context\_freemem()</function>.

These use whatever allocations were defined when the context was created

with

<function>lwres\_context\_create()</function>.

<function>lwres\_context\_allocmem()</function>

allocates

<parameter>len</parameter>

bytes of memory and if successful returns a pointer to the allocated storage.

<function>lwres\_context\_freemem()</function>

frees

<parameter>len</parameter>

bytes of space starting at location

<parameter>mem</parameter>.

</para>

<para>

<function>lwres\_context\_sendrecv()</function>

performs I/O for the context

<parameter>ctx</parameter>.

Data are read and written from the context's socket.



It writes data from

<parameter>sendbase</parameter>

&mdash; typically a lightweight resolver query packet &mdash;

and waits for a reply which is copied to the receive buffer at

<parameter>recvbase</parameter>.

The number of bytes that were written to this receive buffer is returned in

<parameter>\*recvd\_len</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_context\_create()</function>

returns

<errorcode>LWRES\_R\_NOMEMORY</errorcode>

if

memory for the

<type>struct lwres\_context</type>

could not be allocated,

<errorcode>LWRES\_R\_SUCCESS</errorcode>

otherwise.

</para>

<para>

Successful calls to the memory allocator

<function>lwres\_context\_allocmem()</function>

return a pointer to the start of the allocated space.

It returns NULL if memory could not be allocated.

</para>

<para>

<errorcode>LWRES\_R\_SUCCESS</errorcode>

is returned when

<function>lwres\_context\_sendrecv()</function>

completes successfully.

<errorcode>LWRES\_R\_IOERROR</errorcode>

is returned if an I/O error occurs and

<errorcode>LWRES\_R\_TIMEOUT</errorcode>

is returned if

<function>lwres\_context\_sendrecv()</function>

times out waiting for a response.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,</citerefentry>

<citerefentry>

<refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,</citerefentry>

<citerefentry>

<refentrytitle>free</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>.

</para>

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Found

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\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/result.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/result.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/gen.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/task.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/sockaddr.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/types.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/name.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/name.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rcode.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/time.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/rdata.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/socket.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata.c

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Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/keyflags.h  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/ipv6.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/nls/msgcat.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/in\_1/nsap\_ptr\_23.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/serial.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/rcode.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/rdatastructpre.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/netdb.h

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/tests/include/tests/t_api.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rdatasetiter.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dname_39.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/syslog.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dname_39.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/cert.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/app.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/any_255/tsig_250.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/lfsr.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/gpos_27.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/mutexblock.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/msgcat.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/secproto.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/lib.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/time.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/commandline.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rbtdb.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/dir.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/stdtime.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/loc_29.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/dst_result.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/callbacks.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/tcpmsg.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/resultclass.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/serial.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/once.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/dir.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rdatalist.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/dbiterator.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/nsap_22.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/wks_11.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/ttl.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/taskpool.c

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/app.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/ipv6.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/px_26.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rt_21.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/compress.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/netdb.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/bufferlist.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/stdtime.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/dst_lib.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/bitstring.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/cache.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/unspec_103.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/taskpool.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/cert_37.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/stdtime.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/dbiterator.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/key_25.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/threads/include/isc/once.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/tcpmsg.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/lwpacket.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/dir.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/naptr_35.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/interfaceiter.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/secalg.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/int.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/mutexblock.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/srv_33.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/rdatastructsuf.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/aaaa_28.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/syslog.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/lib.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/once.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/magic.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/int.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/tkey.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/isdn_20.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdatasetiter.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/bitstring.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/afsd_b_18.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/sig_24.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/ttl.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/journal.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/include/dst/result.h

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```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/base64.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rootns.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/bufferlist.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/stdtime.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/random.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/hs_4/a_1.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/fixedname.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/x25_19.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/interfaceiter.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/lang.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/lib.h
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```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/lookup.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/stat.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sdb.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/peer.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/ssu.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/string.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/context.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/pthreads/thread.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/ssu.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/peer.h
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```
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.\"
.\"Os
OPERATING_SYSTEM [version/release]
.\" The following requests should be uncommented and
.\" used where appropriate. This next request is
.\" for sections 2 and 3 function return values only.
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS

```

Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/heap.mdoc
```

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```

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres.html

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.html

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_hstrerror.html

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_inetntop.docbook

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.html

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gnba.docbook

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_packet.html

\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_buffer.html

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.docbook

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_noop.html

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.docbook

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_resutil.html

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres.docbook

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_buffer.docbook

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.html

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gethostent.html

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_context.html

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gnba.html

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_config.html

\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_hstrerror.docbook

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_packet.docbook

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gabn.html

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getipnode.html

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/bsd/strpbrk.c

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*/
/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due
 * to Ron Rivest. This code was
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 *
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 *
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
*/

```

Found in path(s):

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/md5.c
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.\n \$Id: lwres\_config.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\n

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in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_config.3

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\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/syslog.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/parseint.c

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# \$Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp \$

# Search for machine-generated header files in the  
build tree,

# and for normal headers in the source tree (\${top\_srcdir}).

# We only need to look in OS-specific subdirectories for the

# latter case, because there are no machine-generated OS-specific

# headers.

```
ISC_INCLUDES = @BIND9_ISC_BUILDINCLUDE@ \  
-I${top_srcdir}/lib/isc \  
-I${top_srcdir}/lib/isc/include \  
-I${top_srcdir}/lib/isc/unix/include \  
-I${top_srcdir}/lib/isc/@ISC_THREAD_DIR@/include
```

```
ISCCFG_INCLUDES = @BIND9_ISCCFG_BUILDINCLUDE@ \  
-I${top_srcdir}/lib/isccfg/include
```

```
DNS_INCLUDES = @BIND9_DNS_BUILDINCLUDE@ \  
-I${top_srcdir}/lib/dns/include \  
-I${top_srcdir}/lib/dns/sec/dst/include
```

```
OMAPI_INCLUDES = @BIND9_OMAPI_BUILDINCLUDE@ \  
-I${top_srcdir}/lib/omapi/include
```

```
LWRES_INCLUDES = @BIND9_LWRES_BUILDINCLUDE@ \  
-I${top_srcdir}/lib/lwres/include
```

```
TEST_INCLUDES = \  
-I${top_srcdir}/lib/tests/include
```

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/make/includes.in

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\*

\* BINOS specific changes to associate memcluster with an evctx

\*

\* March 2014,



Aswin Kuppusami

\*/

Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/memcluster\_p.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/memcluster\_bin.0.c

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/\* "UH Universal Hashing Library"

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\* SHA-1 in C  
\* By Steve Reid <steve@edmweb.com>  
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\* To compute the message digest of a chunk of bytes, declare an  
\* MD5Context structure, pass it to MD5Init, call MD5Update as  
\* needed on buffers full of bytes, and then call MD5Final, which  
\* will fill a supplied 16-byte array with the digest.  
\*  
\* Changed so as no longer to depend on Colin Plumb's `usual.h'  
\* header definitions; now uses stuff from dpkg's config.h  
\* - Ian Jackson <ijackson@nyx.cs.du.edu>.  
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/string.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/nsec.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdatalist.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/in\_1/px\_26.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/tkey.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rt\_21.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/tkey\_249.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/in\_1/kx\_36.c  
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/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/log.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/print.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/xfrin.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/resolver.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/keyvalues.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/in\_1/naptr\_35.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/nsec.c  
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.\"
.\" $Id: lwres_getaddrinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.3

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/dst/md5\_locl.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/dst/md5\_dgst.c

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\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isccfg/include/isccfg/grammar.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/ds.c

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 */
```

Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/eventlib.h
*
 /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/eventlib.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/ev_timers.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/eventlib_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/misc.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/ev_files.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/ev_connects.c
```

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.\" $Id: lwres_hsterror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

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<!-- \$Id: lwres\_ghostent.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_gethostent</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_gethostbyname</refname>

<refname>lwres\_gethostbyname2</refname>

<refname>lwres\_gethostbyaddr</refname>

<refname>lwres\_gethostent</refname>

<refname>lwres\_sethostent</refname>

<refname>lwres\_endhostent</refname>

<refname>lwres\_gethostbyname\_r</refname>

<refname>lwres\_gethostbyaddr\_r</refname>

<refname>lwres\_gethostent\_r</refname>

<refname>lwres\_sethostent\_r</refname>

<refname>lwres\_endhostent\_r</refname>

<refpurpose>lightweight resolver get network host entry</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

struct hostent \*

<function>lwres\_gethostbyname</function></funcdef>

<paramdef>const char \*name</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

struct

hostent \*

<function>lwres\_gethostbyname2</function></funcdef>

<paramdef>const char \*name</paramdef>

<paramdef>int af</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

struct hostent \*

<function>lwres\_gethostbyaddr</function></funcdef>

<paramdef>const char \*addr</paramdef>

```

<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int
buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr_r</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent_r</function></funcdef>

```

```

<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent_r</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent_r</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

```

```
<refsect1>
```

```
<title>DESCRIPTION</title>
```

```
<para>
```

These

functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver.

They are similar to the standard

```
<citerefentry>
```

```
<refentrytitle>gethostent</refentrytitle><manvolnum>3
```

```
</manvolnum>
```

```
</citerefentry>
```

functions provided by most operating systems.

They use a

```
<type>struct hostent</type>
```

which is usually defined in

```
<filename>&lt;namedb.h&gt;</filename>.
```

```
<programlisting>
```

```

struct hostent {
    char *h_name; /* official name of host */
    char **h_aliases; /* alias list */
    int h_addrtype; /* host address type */
    int h_length; /* length of address */
    char **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */

```

```
</programlisting>
```

```
</para>
```

<para>

The members of this structure are:

<variablelist>

<varlistentry><term><constant>h\_name</constant></term>

<listitem>

<para>

The official (canonical)  
name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addrtype</constant></term>

<listitem>

<para>

The type of address being returned &mdash;

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addr\_list</constant></term>

<listitem>

<para>

A <type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

For backward compatibility with very old software,

<constant>h\_addr</constant>

is the first address in

<constant>h\_addr\_list.</constant>

</para>

<para>

`<function>lwres_gethostent()</function>`,  
`<function>lwres_sethostent()</function>`,  
`<function>lwres_endhostent()</function>`,  
`<function>lwres_gethostent_r()</function>`,  
`<function>lwres_sethostent_r()</function>`  
and  
`<function>lwres_endhostent_r()</function>`  
provide  
iteration over the known host entries on systems that  
provide such functionality through facilities like  
`<filename>/etc/hosts</filename>`  
or NIS. The lightweight resolver does not currently implement  
these functions; it only provides them as stub functions that always  
return failure.  
</para>

<para>  
`<function>lwres_gethostbyname()</function>` and  
`<function>lwres_gethostbyname2()</function>` look up the hostname  
`<parameter>name</parameter>`.  
`<function>lwres_gethostbyname()</function>` always looks for an IPv4  
address while `<function>lwres_gethostbyname2()</function>` looks for an  
address of protocol family `<parameter>af</parameter>`: either  
`<type>PF_INET</type>` or `<type>PF_INET6</type>` &mdash; IPv4 or IPV6  
addresses respectively. Successful  
calls of the functions return a  
`<type>struct hostent</type>` for the name that was looked up.  
`<type>NULL</type>` is returned if the lookups by  
`<function>lwres_gethostbyname()</function>` or  
`<function>lwres_gethostbyname2()</function>` fail.  
</para>

<para>  
Reverse lookups of addresses are performed by  
`<function>lwres_gethostbyaddr()</function>`.  
`<parameter>addr</parameter>` is an address of length  
`<parameter>len</parameter>` bytes and protocol family  
`<parameter>type</parameter>` &mdash; `<type>PF_INET</type>` or  
`<type>PF_INET6</type>`.  
`<function>lwres_gethostbyname_r()</function>` is a thread-safe function  
for forward lookups. If an error occurs, an error code is returned in  
`<parameter>*error</parameter>`.  
`<parameter>resbuf</parameter>` is a pointer to a `<type>struct  
hostent</type>` which is initialised by a successful call to  
`<function>lwres_gethostbyname_r()</function>` .  
`<parameter>buf</parameter>` is a buffer of length  
`<parameter>len</parameter>` bytes which is used to store the  
`<constant>h_name</constant>`,



<constant>h\_aliases</constant>, and  
<constant>h\_addr\_list</constant> elements of the <type>struct  
hostent</type> returned in <parameter>resbuf</parameter>.  
Successful calls to <function>lwres\_gethostbyname\_r()</function>  
return <parameter>resbuf</parameter>,  
which is a pointer to the <type>struct hostent</type> it created.  
</para>

<para>  
<function>lwres\_gethostbyaddr\_r()</function> is a thread-safe function  
that performs a reverse lookup of address <parameter>addr</parameter>  
which is <parameter>len</parameter> bytes long and is of protocol  
family <parameter>type</parameter> &mdash; <type>PF\_INET</type> or  
<type>PF\_INET6</type>. If an error occurs, the error code is returned  
in <parameter>\*error</parameter>. The other function parameters are  
identical to those in <function>lwres\_gethostbyname\_r()</function>.  
<parameter>resbuf</parameter> is a pointer to a <type>struct  
hostent</type> which is initialised by a successful call to  
<function>lwres\_gethostbyaddr\_r()</function>.  
<parameter>buf</parameter>  
is a buffer of length  
<parameter>len</parameter> bytes which is used to store the  
<constant>h\_name</constant>, <constant>h\_aliases</constant>, and  
<constant>h\_addr\_list</constant> elements of the <type>struct  
hostent</type> returned in <parameter>resbuf</parameter>. Successful  
calls to <function>lwres\_gethostbyaddr\_r()</function> return  
<parameter>resbuf</parameter>, which is a pointer to the  
<function>struct hostent()</function> it created.  
</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The functions

<function>lwres\_gethostbyname()</function>,&br/><function>lwres\_gethostbyname2()</function>,&br/><function>lwres\_gethostbyaddr()</function>,&br/>and

<function>lwres\_gethostent()</function>  
return NULL to indicate an error. In this case the global variable  
<type>lwres\_h\_errno</type>  
will contain one of the following error codes defined in  
<filename>&lt;lwres/netdb.h&gt;</filename>:

<variablelist>

<varlistentry><term><constant>HOST\_NOT\_FOUND</constant></term>

</variablelist>

</varlistentry></term></constant></term>

```

<listitem>
<para>
The
host or address was not found.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>TRY_AGAIN</constant></term>
<listitem>
<para>
A recoverable error occurred, e.g., a timeout.
Retrying the lookup may succeed.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>NO_RECOVERY</constant></term>
<listitem>
<para>
A non-recoverable error occurred.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>NO_DATA</constant></term>
<listitem>
<para>
The name exists, but has no address information
associated with it (or vice versa in the case
of a reverse lookup). The code NO_ADDRESS
is accepted as a synonym for NO_DATA for backwards
compatibility.
</para>
</listitem></varlistentry>
</variablelist>
</para>

<para>
<citerefentry>
<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
translates these error codes to suitable error messages.
</para>

<para>
<function>lwres_gethostent</function>
and
<function>lwres_gethostent_r</function>
always
return
<type>NULL</type>.
</para>

```

<para>  
Successful calls to <function>lwres\_gethostbyname\_r()</function> and  
<function>lwres\_gethostbyaddr\_r()</function> return  
<parameter>resbuf</parameter>, a pointer to the <type>struct  
hostent</type> that was initialised by these functions. They return  
<type>NULL</type> if the lookups fail or if <parameter>buf</parameter>  
was too small to hold the list of addresses and names referenced by  
the <constant>h\_name</constant>, <constant>h\_aliases</constant>, and  
<constant>h\_addr\_list</constant> elements of the <type>struct  
hostent</type>. If <parameter>buf</parameter> was too small, both  
<function>lwres\_gethostbyname\_r()</function> and  
<function>lwres\_gethostbyaddr\_r()</function> set the global variable  
<type>errno</type> to <errorcode>ERANGE</errorcode>.  
</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>gethostent</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/></para>

<citerefentry>

<refentrytitle>lwres\_getipnode</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/></para>

<citerefentry>

<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

</para>

</refsect1>

<refsect1>

<title>BUGS</title>

<para>

<function>lwres\_gethostbyname()</function>,&br/><function>lwres\_gethostbyname2()</function>,&br/><function>lwres\_gethostbyaddr()</function>

and

<function>lwres\_endhostent()</function>

are

not thread safe; they return pointers to static data and

provide error codes through a global variable.

Thread-safe versions for name and address lookup are provided by

<function>lwres\_gethostbyname\_r()</function>,&br/></para>

</refsect1>

</refsect1>

and

<function>lwres\_gethostbyaddr\_r()</function>

respectively.

</para>

<para>

The resolver daemon does not currently support any non-DNS name services such as

<filename>/etc/hosts</filename>

or

<type>NIS</type>,

consequently the above functions don't, either.

</para>

</refsect1>

</refentry>

Found in path(s):

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<!-- \$Id: lwres\_config.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_config</refentrytitle>

```

<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_conf_init</refname>
<refname>lwres_conf_clear</refname>
<refname>lwres_conf_parse</refname>
<refname>lwres_conf_print</refname>
<refname>lwres_conf_get</refname>
<refpurpose>lightweight resolver configuration</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
void
<function>lwres_conf_init</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_conf_clear</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const
char *filename</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_print</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>FILE *fp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_conf_t *
<function>lwres_conf_get</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>

```

</funcprototype>

</funcsynopsis>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_conf\_init()</function>

creates an empty

<type>lwres\_conf\_t</type>

structure for lightweight resolver context

<parameter>ctx</parameter>.

</para>

<para>

<function>lwres\_conf\_clear()</function>

frees up all the internal memory used by

that

<type>lwres\_conf\_t</type>

structure in resolver context

<parameter>ctx</parameter>.

</para>

<para>

<function>lwres\_conf\_parse()</function>

opens the file

<parameter>filename</parameter>

and parses it to initialise the resolver context

<parameter>ctx</parameter>'s

<type>lwres\_conf\_t</type>

structure.

</para>

<para>

<function>lwres\_conf\_print()</function>

prints

the

<type>lwres\_conf\_t</type>

structure for resolver context

<parameter>ctx</parameter>

to the

<type>FILE</type>

<parameter>fp</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_conf\_parse()</function>

returns

```

<errorcode>LWRES_R_SUCCESS</errorcode>
if it successfully read and parsed
<parameter>filename</parameter>.
It returns
<errorcode>LWRES_R_FAILURE</errorcode>
if
<parameter>filename</parameter>
could not be opened or contained incorrect
resolver statements.
</para>
<para>
<function>lwres_conf_print()</function>
returns
<errorcode>LWRES_R_SUCCESS</errorcode>
unless an error occurred when converting the network addresses to a
numeric host address string.
If this happens, the function returns
<errorcode>LWRES_R_FAILURE</errorcode>.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>resolver</refentrytitle><manvolnum>5</manvolnum>
</citerefentry>.
</refsect1>
<refsect1>
<title>FILES</title>
<para>
<filename>/etc/resolv.conf</filename>
</para>
</refsect1>
</refentry>

```

Found

in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_config.docbook

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.\"
.\" $Id: lwres_gai_strerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.3

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/symtab.h  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/lwinetpton.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/symtab.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/inet\_ntop.c  
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\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/result.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/time.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/base64.c

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/task.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/rwlock.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/result.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/time.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/rwlock.c
```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/resolv/res_data.c
```

```
*
```

```
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_data.c
```

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AC\_REVISION(\$Revision: 1.1 \$)

AC\_INIT(resolv/herror.c)

AC\_PREREQ(2.13)

AC\_CONFIG\_HEADER(config.h)

AC\_CANONICAL\_HOST

AC\_PROG\_MAKE\_SET

AC\_PROG\_RANLIB

AC\_PROG\_INSTALL

AC\_SUBST(STD\_CINCLUDES)

AC\_SUBST(STD\_CDEFINES)

AC\_SUBST(STD\_CWARNINGS)

AC\_SUBST(CCOPT)

AC\_PATH\_PROG(AR,

ar)

ARFLAGS="cruv"

AC\_SUBST(AR)

AC\_SUBST(ARFLAGS)

# The POSIX ln(1) program. Non-POSIX systems may substitute

# "copy" or something.

LN=ln

AC\_SUBST(LN)

case "\$AR" in

"")

AC\_MSG\_ERROR([

ar program not found. Please fix your PATH to include the directory in  
which ar resides, or set AR in the environment with the full path to ar.

])

::

esac

#

# Etags.

#

AC\_PATH\_PROGS(ETAGS, etags emacs-etags)

#

# Some systems, e.g. RH7, have the Exuberant Ctags etags instead of

# GNU emacs etags, and it requires the -L flag.

#

if test "X\$ETAGS" != "X"; then

AC\_MSG\_CHECKING(for Exuberant Ctags etags)

if \$ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then

```

AC_MSG_RESULT(yes)
ETAGS="$ETAGS -L"
else
AC_MSG_RESULT(no)
fi
fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL,
perl5 perl)
AC_SUBST(PERL)

#
# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
'${prefix}/include')
includedir='${prefix}/bind/include'
;;
esac
case "$libdir" in
'${prefix}/lib')
libdir='${prefix}/bind/lib'
;;
esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
case "$INSTALL" in
/*)
;;
*)
#
# Not all systems have dirname.
#
changequote({, })
ac_dir=""echo $INSTALL | sed 's%/[^\/*]*$%%'"
changequote([, ])

```

```

        ac_prog="`echo
$INSTALL | sed 's%.*/%%`"
        test "$ac_dir" = "$ac_prog" && ac_dir=.
        test -d "$ac_dir" && ac_dir="`(cd \"$ac_dir\" && pwd)`"
        INSTALL="$ac_dir/$ac_prog"
        ;;
esac

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found. The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets $CC to be something, let that override
# our change.
#
if test "X$CC" = "X" ; then
case "$host" in
*-dec-osf*)
        CC="cc"
        ;;
*-solaris*)
        # Use Sun's cc if it is available, but watch
        # out for /usr/ucb/cc; it will never be the right
        # compiler to use.
        #
        # If setting CC here fails, the AC_PROG_CC done
        # below might still find gcc.
IFS="{IFS= }"; ac_save_ifs="$IFS"; IFS=":"
for ac_dir in $PATH; do
        test -z "$ac_dir" && ac_dir=.
        case
"$ac_dir" in
/usr/ucb)
        # exclude
        ;;
*)
        if test -f "$ac_dir/cc"; then
                CC="$ac_dir/cc"
                break
        fi
        ;;
esac
done
IFS="$ac_save_ifs"
        ;;
*-hp-hpux*)
        CC="cc"

```

```
;;
mips-sgi-irix*)
  CC="cc"
;;
esac
fi
```

AC\_PROG\_CC

AC\_HEADER\_STDC

AC\_CHECK\_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/sockio.h sys/select.h sys/timers.h)

AC\_C\_CONST

AC\_C\_INLINE

AC\_TYPE\_SIZE\_T

AC\_HEADER\_TIME

#

# check if we need to #include sys/select.h explicitly

#

case \$ac\_cv\_header\_unistd\_h in

yes)

AC\_MSG\_CHECKING(if unistd.h defines fd\_set)

AC\_TRY\_COMPILE([

#include <unistd.h>],

[fd\_set read\_set; return (0);],

[AC\_MSG\_RESULT(yes)

ISC\_PLATFORM\_NEEDSYSSELECTH="#undef ISC\_PLATFORM\_NEEDSYSSELECTH"

],

[AC\_MSG\_RESULT(no)

case ac\_cv\_header\_sys\_select\_h in

yes)

ISC\_PLATFORM\_NEEDSYSSELECTH="#define ISC\_PLATFORM\_NEEDSYSSELECTH 1"

;;

no)

AC\_MSG\_ERROR([need either working unistd.h or sys/select.h])

;;

esac

])

;;

no)

case ac\_cv\_header\_sys\_select\_h

in

yes)

ISC\_PLATFORM\_NEEDSYSSELECTH="#define ISC\_PLATFORM\_NEEDSYSSELECTH 1"



```

;;
no)
AC_MSG_ERROR([need either unistd.h or sys/select.h])
;;
esac
;;
esac
AC_SUBST(ISC_PLATFORM_NEEDSYSSELECTH)

#
# Find the machine's endian flavor.
#
AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,[ --with-irs-gr Build ....],
want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
    WANT_IRS_GR_OBJS="\${WANT_IRS_GR_OBJS}"
;;
*) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";;
esac
AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,[ --with-irs-pw Build ....],
want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
    WANT_IRS_PW_OBJS="\${WANT_IRS_PW_OBJS}";;
*) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;
esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,[ --with-irs-nis Build ....],
want_irs_nis="$withval",
want_irs_nis="no")
case "$want_irs_nis" in
yes)
WANT_IRS_NIS="#define WANT_IRS_NIS 1"
WANT_IRS_NIS_OBJS="\${WANT_IRS_NIS_OBJS}"
case "$want_irs_gr" in
yes)
WANT_IRS_NISGR_OBJS="\${WANT_IRS_NISGR_OBJS}";;
*)
WANT_IRS_NISGR_OBJS="";;
esac

```

```

case "$want_irs_pw" in
yes)
WANT_IRS_NISPW_OBJS="\${WANT_IRS_NISPW_OBJS}";;
*)
WANT_IRS_NISPW_OBJS="";;
esac
;;
*)
WANT_IRS_NIS="#undef WANT_IRS_NIS"
WANT_IRS_NIS_OBJS=""
WANT_IRS_NISGR_OBJS=""
WANT_IRS_NISPW_OBJS="";;
esac
AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR_OBJS)
AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
#ifdef HAVE_DB_H
int have_db_h = 1;
#else
int have_db_h = 0;
#endif
main() { return(!have_db_h); }
],
WANT_IRS_DBPW_OBJS="\${WANT_IRS_DBPW_OBJS}"
,
WANT_IRS_DBPW_OBJS=""
,
WANT_IRS_DBPW_OBJS=""
)
AC_SUBST(WANT_IRS_DBPW_OBJS)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
[ --with-randomdev=PATH Specify path for random device],
use_randomdev="$withval",
use_randomdev="unspec")

case "$use_randomdev" in
unspec)
case "$host" in
*-openbsd*)
devrandom=/dev/srandom
;;

```

```

*)
devrandom=/dev/random
;;
esac
AC_MSG_RESULT($devrandom)
AC_CHECK_FILE($devrandom,
    AC_DEFINE_UNQUOTED(PATH_RANDOMDEV,
        "$devrandom"),)
;;
yes)
AC_MSG_ERROR([--with-randomdev must specify a path])
;;
*)
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
AC_MSG_RESULT(using "$use_randomdev")
;;
esac

#
# Begin pthreads checking.
#
# First, decide whether to use multithreading or not.
#
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
    [ --disable-threads disable multithreading])
case "$enable_threads" in
yes|")
AC_MSG_RESULT(yes)
use_threads=true
;;
no)
AC_MSG_RESULT(no)
use_threads=false
;;
*)
AC_MSG_ERROR([--enable-threads takes yes or no])
;;
esac

if $use_threads
then
#
# Search for / configure pthreads in a system-dependent fashion.
#
case
"$host" in
*-netbsd*)

```

```

# NetBSD has multiple pthreads implementations. The
# recommended one to use is "unproven-pthreads". The
# older "mit-pthreads" may also work on some NetBSD
# versions. The PTL2 thread library does not
# currently work with bind9, but can be chosen with
# the --with-ptl2 option for those who wish to
# experiment with it.
CC="gcc"
AC_MSG_CHECKING(which NetBSD thread library to use)

AC_ARG_WITH(ptl2,
[ --with-ptl2 on NetBSD, use the ptl2 thread library (experimental)],
  use_ptl2="$withval", use_ptl2="no")

: ${LOCALBASE:=/usr/pkg}

if test "X$use_ptl2" = "Xyes"
then
  AC_MSG_RESULT(PTL2)
  AC_MSG_WARN(
[linking with PTL2 is highly experimental and not expected to work])
  CC=ptlgcc
else
  if test ! -d $LOCALBASE/pthreads
  then
    AC_MSG_RESULT(none)
    use_threads=false
  fi

  if $use_threads
  then
    AC_MSG_RESULT(mit-pthreads/unproven-pthreads)
    pkg="$LOCALBASE/pthreads"
    lib1="-L$pkg/lib -Wl,-R$pkg/lib"
    lib2="-lpthread"
    -lm -lgcc -lpthread"
    LIBS="$lib1 $lib2 $LIBS"
    CPPFLAGS="$CPPFLAGS -I$pkg/include"
    STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
  fi
fi
;;
*)
AC_CHECK_LIB(pthread, pthread_create,,
  AC_CHECK_LIB(pthread, __pthread_create,,
  AC_CHECK_LIB(pthread, __pthread_create_system,,
  AC_CHECK_LIB(c_r, pthread_create,,
  AC_CHECK_LIB(c, pthread_create,,

```

```

        use_threads=false))))))
;;
esac
fi

if $use_threads
then
#
# We'd like to use sigwait() too
#
AC_CHECK_LIB(c, sigwait,
    AC_DEFINE(HAVE_SIGWAIT),
    AC_CHECK_LIB(pthread, sigwait,
    AC_DEFINE(HAVE_SIGWAIT),
    AC_CHECK_LIB(pthread, _Psigwait,
    AC_DEFINE(HAVE_SIGWAIT),))
)

AC_CHECK_FUNC(pthread_attr_getstacksize,
    AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)

#
# Additional OS-specific issues related to pthreads and sigwait.
#
case "$host" in
#
# One more place to look for sigwait.
#
*-freebsd*)
    AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
;;
#
#
BSDI 3.0 through 4.0.1 needs pthread_init() to be
# called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
*-bsdi3.*|*-bsdi4.0*)
    AC_DEFINE(NEED_PTHREAD_INIT)
;;
#
# LinuxThreads requires some changes to the way we
# deal with signals.
#
*-linux*)
    AC_DEFINE(HAVE_LINUXTHREADS)
;;
#

```

```

# Ensure the right sigwait() semantics on Solaris and make
# sure we call pthread_setconcurrency.
#
*-solaris*)
AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
AC_CHECK_FUNC(pthread_setconcurrency,
    AC_DEFINE(CALL_PTHREAD_SETCONCURRENCY))
AC_DEFINE(POSIX_GETPWUID_R)
AC_DEFINE(POSIX_GETPWNAM_R)
AC_DEFINE(POSIX_GETGRGID_R)
AC_DEFINE(POSIX_GETGRNAM_R)
;;
*hpux11*)
AC_DEFINE(_PTHREADS_DRAFT4)
;;
#
# UnixWare does things its own way.
#
*-UnixWare*)
AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)
;;
esac

#
# Look for sysconf to allow detection of the number of processors.
#
AC_CHECK_FUNC(sysconf,
AC_DEFINE(HAVE_SYSCONF),)

if test "X$GCC" = "Xyes"; then
case "$host" in
*-freebsd*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
*-openbsd*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
;;
*-solaris*)
LIBS="$LIBS -lthread"
;;
*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
esac
else

```

```

case $host in
*-dec-osf*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
;;
*-solaris*)
CC="$CC -mt"
CCOPT="$CCOPT -mt"
;;
*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
*-UnixWare*)
CC="$CC -Kthread"
CCOPT="$CCOPT -Kthread"
;;
esac
fi
ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT_IRS_THREADSGR_OBJS="\${WANT_IRS_THREADSGR_OBJS}"
WANT_IRS_THREADSPW_OBJS="\${WANT_IRS_THREADSPW_OBJS}"
WANT_IRS_THREADS_OBJS="\${WANT_IRS_THREADS_OBJS}"
thread_dir=threads
else
ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT_IRS_THREADSGR_OBJS=""
WANT_IRS_THREADSPW_OBJS=""
WANT_IRS_THREADS_OBJS=""
thread_dir=nothreads
fi

AC_CHECK_FUNC(strlcat,
AC_DEFINE(HAVE_STRLCAT))

AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(DO_PTHREADS)
AC_SUBST(WANT_IRS_THREADSGR_OBJS)
AC_SUBST(WANT_IRS_THREADSPW_OBJS)
AC_SUBST(WANT_IRS_THREADS_OBJS)

AC_CHECK_FUNC(if_nametoindex,
[USE_IFNAMESLINKID="#define USE_IFNAMESLINKID 1"],
[USE_IFNAMESLINKID="#undef USE_IFNAMESLINKID"])
AC_SUBST(USE_IFNAMESLINKID)

ISC_THREAD_DIR=$thread_dir

```

```

AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon,
[DAEMON_OBJS="" NEED_DAEMON="#undef NEED_DAEMON"]
,
[DAEMON_OBJS="\${DAEMON_OBJS}" NEED_DAEMON="#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJS)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep,
[STRSEP_OBJS="" NEED_STRSEP="#undef NEED_STRSEP"]
,
[STRSEP_OBJS="\${STRSEP_OBJS}" NEED_STRSEP="#define NEED_STRSEP 1"]
)
AC_SUBST(STRSEP_OBJS)
AC_SUBST(NEED_STRSEP)

AC_CHECK_FUNC(strerror, [NEED_STRERROR="#undef NEED_STRERROR"],
[NEED_STRERROR="#define NEED_STRERROR 1"])
AC_SUBST(NEED_STRERROR)

#
#
# flockfile is usually provided by pthreads, but we may want to use it
# even if compiled with --disable-threads.
#
AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)

#
# Indicate what the final decision was regarding threads.
#
AC_MSG_CHECKING(whether to build with threads)
if $use_threads; then
  AC_MSG_RESULT(yes)
else
  AC_MSG_RESULT(no)
fi

#
# End of pthreads stuff.
#

#
# Additional compiler settings.
#
MKDEPCC="$CC"
MKDEPCFLAGS="-M"

```



```
IRIX_DNSSEC_WARNINGS_HACK=""
```

```
if test "X$GCC" = "Xyes"; then
```

```
STD_CWARNINGS="$STD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
```

```
else
```

```
case $host in
```

```
*-dec-osf*)
```

```
CC="$CC -std"
```

```
CCOPT="$CCOPT -std"
```

```
MKDEPCC="$CC"
```

```
::
```

```
*-hp-hpux*)
```

```
CC="$CC -Ae -z"
```

```
# The version of the C compiler that constantly warns about
```

```
# 'const' as well as alignment issues is unfortunately not
```

```
# able to be discerned via the version of the operating
```

```
# system, nor does cc have a version flag.
```

```
case
```

```
"`$CC +W 123 2>&1`" in
```

```
*Unknown?option*)
```

```
STD_CWARNINGS="+w1"
```

```
::
```

```
*)
```

```
# Turn off the pointlessly noisy warnings.
```

```
STD_CWARNINGS="+w1 +W 474,530"
```

```
::
```

```
esac
```

```
CCOPT="$CCOPT -Ae -z"
```

```
LIBS="-Wl,+vnocompatwarnings $LIBS"
```

```
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>&1 | awk """"BEGIN { colon=0; rec="" }; { for (i = 0 ; i < NF; i++)  
{ if (colon && a[$i]) continue; if ($i == "\\") continue; if (!colon) { rec = $i continue; } if ($i == ":") { rec = rec " :"  
colon = 1 continue; } if (length(rec $i) > 76) { print rec " \\""; rec = "\t" $i; a[$i] = 1; } else { rec = rec " " $i a[$i] = 1;  
} } } END { print rec }"""" >>$TMP'
```

```
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>>$TMP'
```

```
::
```

```
*-sgi-irix*)
```

```
STD_CWARNINGS="-fullwarn -woff 1209"
```

```
#
```

```
# Silence more than 250 instances of
```

```
# "prototyped function redeclared without prototype"
```

```
# and 11 instances of
```

```
# "variable ... was set but never used"
```

```
# from lib/dns/sec/openssl.
```

```
#
```

```
IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"
```

```
::
```

```
*-solaris*)
```

```
MKDEPCFLAGS="-xM"
```

```

;;
*~UnixWare*)
  CC="$CC
-w"
;;
esac
fi

#
# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
#
case $host in
*linux*)
  STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"
  ;;
esac

AC_SUBST(MKDEPCC)
AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

#
# NLS
#
AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS),)

#
# -lxnet buys us one big porting headache... standards, gotta love 'em.
#
# AC_CHECK_LIB(xnet, socket, ,
# AC_CHECK_LIB(socket, socket)
# AC_CHECK_LIB(nsl, inet_ntoa)
# )
#
# Use this for now, instead:
#
case "$host" in
mips-sgi-irix*)
  ;;
*)
  AC_CHECK_LIB(d4r, gethostbyname_r)
  AC_CHECK_LIB(socket, socket)
  AC_CHECK_LIB(nsl, inet_ntoa)
  ;;
esac

```

```

#
# Purify support
#
AC_MSG_CHECKING(whether to use purify)
AC_ARG_WITH(purify,
[ --with-purify[=PATH] use Rational purify],
use_purify="$withval", use_purify="no")

case "$use_purify" in
no)
;;
yes)
AC_PATH_PROG(purify_path,
purify, purify)
;;
*)
purify_path="$use_purify"
;;
esac

case "$use_purify" in
no)
AC_MSG_RESULT(no)
PURIFY=""
;;
*)
if test -f $purify_path || test $purify_path = purify; then
AC_MSG_RESULT($purify_path)
PURIFYFLAGS="`echo $PURIFYOPTIONS`"
PURIFY="$purify_path $PURIFYFLAGS"
else
AC_MSG_ERROR([$purify_path not found.

```

Please choose the proper path with the following command:

```

configure --with-purify=PATH
])
fi
;;
esac

```

```

AC_SUBST(PURIFY)

```

```

#
# GNU libtool support
#
AC_ARG_WITH(libtool,
[ --with-libtool use GNU libtool (following indented options supported)],

```

```

use_libtool="$withval", use_libtool="no")

case $use_libtool in
yes)
AM_PROG_LIBTOOL
O=lo
A=la
LIBTOOL_MKDEP_SED='s;\.o;\.lo;'
LIBTOOL_MODE_COMPILE='--mode=compile'
LIBTOOL_MODE_INSTALL='--mode=install'
LIBTOOL_MODE_LINK='--mode=link'
;;
*)
O=o
A=a
LIBTOOL=
AC_SUBST(LIBTOOL)
LIBTOOL_MKDEP_SED=
LIBTOOL_MODE_COMPILE=
LIBTOOL_MODE_INSTALL=
LIBTOOL_MODE_LINK=
;;
esac

#
#
# File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a

AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

#
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#

#
# IPv6
#
AC_ARG_ENABLE(ipv6,

```

```

[ --enable-ipv6 use IPv6 [default=autodetect]]

case "$enable_ipv6" in
yes|"autodetect")
    AC_DEFINE(WANT_IPV6)
    ;;
no)
    ;;
esac

#
# We do the IPv6 compilation checking after libtool so that we can put
# the right suffix on the files.
#
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>],
[struct sockaddr_in6 sin6; return (0);],
[AC_MSG_RESULT(yes)
found_ipv6=yes],
[AC_MSG_RESULT(no)
found_ipv6=no])

#
# See whether
# IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)
AC_ARG_WITH(kame,
[ --with-kame[=PATH] use Kame IPv6 [default path /usr/local/v6]],
use_kame="$withval", use_kame="no")

case "$use_kame" in
no)
    ;;
yes)
    kame_path=/usr/local/v6
    ;;
*)
    kame_path="$use_kame"
    ;;
esac

case "$use_kame" in
no)

```

```

AC_MSG_RESULT(no)
;;
*)
if test -f $kame_path/lib/libinet6.a; then
  AC_MSG_RESULT($kame_path/lib/libinet6.a)
  LIBS="-L$kame_path/lib -linet6 $LIBS"
else
  AC_MSG_ERROR([$kame_path/lib/libinet6.a not found.

```

Please choose the proper path with the following command:

```

  configure --with-kame=PATH
)
fi
;;
esac

#
# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.
# Including it on Kame-using platforms is very bad, though, because
# Kame uses #error against direct inclusion. So include it on only
# the platform that is otherwise broken without
it -- BSD/OS 4.0 through 4.1.
# This is done before the in6_pktinfo check because that's what
# netinet6/in6.h is needed for.
#
changequote({, })
case "$host" in
*-bsdi4.[01]*)
  ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"
  isc_netinet6in6_hack="#include <netinet6/in6.h>"
  ;;
*)
  ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
  isc_netinet6in6_hack=""
  ;;
esac
changequote([, ])

#
# This is similar to the netinet6/in6.h issue.
#
case "$host" in
*-UnixWare*)
  ISC_PLATFORM_NEEDNETINETIN6H="#define ISC_PLATFORM_NEEDNETINETIN6H 1"
  ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
  isc_netinetin6_hack="#include <netinet/in6.h>"
  ;;

```

```

*)
ISC_PLATFORM_NEEDNETINETIN6H="#undef ISC_PLATFORM_NEEDNETINETIN6H"
    ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
isc_netinetin6_hack=""
;;
esac

#
# Now delve deeper into the suitability of the IPv6 support.
#
case "$found_ipv6" in
yes)
    HAS_INET6_STRUCTS="#define
HAS_INET6_STRUCTS 1"

    AC_MSG_CHECKING(for in6_addr)
    AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_addr in6; return (0);],
[AC_MSG_RESULT(yes)
HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
isc_in_addr6_hack=""],
[AC_MSG_RESULT(no)
HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
isc_in_addr6_hack="#define in6_addr in_addr6"])

    AC_MSG_CHECKING(for in6addr_any)
    AC_TRY_LINK([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
$isc_in_addr6_hack
],
[struct in6_addr in6; in6 = in6addr_any; return (0);],
[AC_MSG_RESULT(yes)
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"],
[AC_MSG_RESULT(no)
NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1"])

    AC_MSG_CHECKING(for sin6_scope_id in struct sockaddr_in6)
    AC_TRY_COMPILE([

```

```

#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct
sockaddr_in6 xyzy; xyzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
result="#define HAVE_SIN6_SCOPE_ID 1"],
[AC_MSG_RESULT(no)
result="#undef HAVE_SIN6_SCOPE_ID")
HAVE_SIN6_SCOPE_ID="$result"

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_pktinfo xyzy; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"],
[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"])

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_storage xyzy; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SOCKADDR_STORAGE="#define HAVE_SOCKADDR_STORAGE 1"],
[AC_MSG_RESULT(no)

HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"])
;;
no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_INET6ADDR_ANY="#undef NEED_INET6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"

```



```

HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"
;;
esac

```

```

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINETIN6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_IN_ADDR6)
AC_SUBST(NEED_IN6ADDR_ANY)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)
AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)

```

```

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs
#   to come after checking for a Kame add-on,
#   which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_ntop(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_ntop.c"
ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"])
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_pton(0, 0, 0); return (0);],

```

```

[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON
1")
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[struct in_addr in; inet_aton(0, &in); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1"])

AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)

#
# Look for a 4.4BSD-style sa_len member in struct sockaddr.
#
case "$host" in
*-dec-osf*)
# Turn on 4.4BSD style sa_len support.
AC_DEFINE(_SOCKADDR_LEN)
;;
esac

AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct sockaddr sa; sa.sa_len = 0; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef
HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)

```

```

# HAVE_MINIMUM_IFREQ

case "$host" in
*-bsdi[2345]*) have_minimum_ifreq=yes;;
*-darwin*) have_minimum_ifreq=yes;;
*-freebsd*) have_minimum_ifreq=yes;;
*-lynxos*) have_minimum_ifreq=yes;;
*-netbsd*) have_minimum_ifreq=yes;;
*-next*) have_minimum_ifreq=yes;;
*-openbsd*) have_minimum_ifreq=yes;;
*-rhapsody*) have_minimum_ifreq=yes;;
esac

case "$have_minimum_ifreq" in
yes)
HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";
no)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";
*)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";
esac
AC_SUBST(HAVE_MINIMUM_IFREQ)

# PORT_DIR
PORT_DIR=port/unknown
SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"
case "$host" in
*aix3.2*) PORT_DIR="port/aix32";;
*aix4*) PORT_DIR="port/aix4";;
*aux3*) PORT_DIR="port/aux3";;
*-bsdi2*) PORT_DIR="port/bsdos2";;
*-bsdi*) PORT_DIR="port/bsdos";;
*-cygwin*) PORT_DIR="port/cygwin";;
*-darwin*) PORT_DIR="port/darwin";;
*-osf*) PORT_DIR="port/decunix";;
*-freebsd*) PORT_DIR="port/freebsd";;
*-hpux9*) PORT_DIR="port/hpux9";;
*-hpux10*) PORT_DIR="port/hpux10";;
*-hpux11*) PORT_DIR="port/hpux";;
*-irix*) PORT_DIR="port/irix";;
*-linux*) PORT_DIR="port/linux";;
*-lynxos*) PORT_DIR="port/lynxos";;
*-mpe*) PORT_DIR="port/mpe";;
*-netbsd*) PORT_DIR="port/netbsd";;
*-next*) PORT_DIR="port/next";;
*-openbsd*) PORT_DIR="port/openbsd";;

```

```

*-qnx*) PORT_DIR="port/qnx";;
*-rhapsody*) PORT_DIR="port/rhapsody";;
*-solaris2.[[01234]]*)
  BSD_COMP="#define
BSD_COMP 1"
  SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
  USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
  PORT_DIR="port/solaris";;
*-solaris2.5*)
  BSD_COMP="#define BSD_COMP 1"
  SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
  PORT_DIR="port/solaris";;
*-solaris2*) BSD_COMP="#define BSD_COMP 1"
  PORT_DIR="port/solaris";;
*-ultrix*) PORT_DIR="port/ultrix";;
*-sco-sysv*uw2.0*) PORT_DIR="port/unixware20";;
*-sco-sysv*uw2.1.2*) PORT_DIR="port/unixware212";;
*-sco-sysv*uw7*) PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

#
#
# Look for a 4.4BSD or 4.3BSD struct msghdr
#
AC_MSG_CHECKING(for struct msghdr flavor)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct msghdr msg; msg.msg_flags = 0; return (0);],
[AC_MSG_RESULT(4.4BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"],
[AC_MSG_RESULT(4.3BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"])
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

#
# Look for in_port_t.
#
AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE([
#include <sys/types.h>

```

```

#include <netinet/in.h>],
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
    [AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDPORTT="#define
ISC_PLATFORM_NEEDPORTT 1"])
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE([
#include <netdb.h>],
[struct addrinfo a; return (0);],
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = sethostent(0); return(0);],
[AC_MSG_RESULT(yes)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endhostent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"])
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)

AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = setnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"])
AC_SUBST(ISC_LWRES_SETNETENTINT)

AC_MSG_CHECKING(for

```

```

int endnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endnetent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"])
AC_SUBST(ISC_LWRES_ENDNETENTINT)

AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE([
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);],
[return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"])
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE([
#include <netdb.h>],
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO"],
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"])
AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,
[ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"],
[ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"])
AC_CHECK_FUNC(getnameinfo,
[ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"],
[ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"])
AC_CHECK_FUNC(getaddrinfo,
[ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"]
AC_DEFINE(HAVE_GETADDRINFO)],
[ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
[NEED_PSELECT="#undef NEED_PSELECT"],
[NEED_PSELECT="#define NEED_PSELECT"])

```

```

AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
    [NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
    [NEED_GETTIMEOFDAY="#define
NEED_GETTIMEOFDAY 1"])
AC_SUBST(NEED_GETTIMEOFDAY)
AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
    [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [
#include <sys/param.h>
#include <sys/sysctl.h>
#include <sys/socket.h>
#ifdef NET_RT_IFLIST
found_rt_iflist
#endif
],
    [AC_MSG_RESULT(yes)
    AC_DEFINE(HAVE_IFLIST_SYSCTL)],
    [AC_MSG_RESULT(no)])

#
# Check for some other useful functions that are not ever-present.
#
AC_CHECK_FUNC(strsep,
    [ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],
    [ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,
    [ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
    [ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS print.$O"
    ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS print.c"
    ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1"])
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)

AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
    [USE_SYSError_LIST="#undef
USE_SYSError_LIST"],
    [USE_SYSError_LIST="#define USE_SYSError_LIST 1"])
AC_SUBST(USE_SYSError_LIST)

```

```

#
# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(l)
ISC_PLATFORM_QUADFORMAT=#define ISC_PLATFORM_QUADFORMAT "l"],
[AC_MSG_RESULT(ll)
ISC_PLATFORM_QUADFORMAT=#define ISC_PLATFORM_QUADFORMAT "ll"],
[AC_MSG_RESULT(default ll)
ISC_PLATFORM_QUADFORMAT=#define ISC_PLATFORM_QUADFORMAT
"ll""])
AC_SUBST(ISC_PLATFORM_QUADFORMAT)

#
# Security Stuff
#
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))

#
# for accept, recvfrom, getpeername etc.
#
AC_MSG_CHECKING(for socket length type)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, socklen_t *);
],[],
[ISC_SOCKLEN_T=#define ISC_SOCKLEN_T socklen_t]
AC_MSG_RESULT(socklen_t)
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned int *);
],[],
[ISC_SOCKLEN_T=#define ISC_SOCKLEN_T unsigned int]
AC_MSG_RESULT(unsigned int)
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned long *);

```



```

],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned long"
AC_MSG_RESULT(unsigned long)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, long *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long)]
,
ISC_SOCKLEN_T="#define
ISC_SOCKLEN_T int"
AC_MSG_RESULT(int)
)))
AC_SUBST(ISC_SOCKLEN_T)

AC_CHECK_FUNC(getgrouplist,
AC_TRY_COMPILE(
[#include <unistd.h>
int
getgrouplist(const char *name, int basegid, int *groups, int *ngroups) {
}
],
[return (0);],
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int
*ngroups"
,
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"
),
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
)
AC_SUBST(GETGROUPLIST_ARGS)

AC_CHECK_FUNC(setgroupent,,AC_DEFINE(NEED_SETGROUPEMENT))

AC_CHECK_FUNC(getnetbyaddr_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC

```

```

#include <netdb.h>
struct netent *
getnetbyaddr_r(long net, int type, struct netent *result, char *buffer,
int buflen) { }
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS
char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetbyaddr_r (unsigned long int, int, struct netent *,
char *, size_t, struct netent **, int *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errno"
NET_R_BAD="#define NET_R_BAD ERANGE"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS char *buf, size_t buflen"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN
int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC

```

```

#define __USE_MISC
#include <netdb.h>
extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"
],
AC_TRY_COMPILE(
#undef __USE_MISC
#define __USE_MISC
[#include <netdb.h>
int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define
NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
],
)
)
)
)
)
,
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"

```

```

NETENT_DATA="#undef NETENT_DATA"
)
case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,
AC_TRY_COMPILE(
[
#undef
__USE_MISC
#define __USE_MISC
#include <netdb.h>
void setnetent_r(int);
],[return (0);],[
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
],
AC_TRY_COMPILE(
[
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int setnetent_r(int, struct netent_data *);
],[return (0);],[
NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
],
)
)
,
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
)
AC_SUBST(NET_R_ENT_ARGS)

```

```

AC_SUBST(NET_R_SET_RESULT)
AC_SUBST(NET_R_SET_RETURN)

AC_CHECK_FUNC(endnetent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include
<netdb.h>
void endnetent_r (void);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) return (x)"
NET_R_END_RETURN="#define NET_R_END_RETURN int"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
)
)
)
)
,
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
)
)

```

AC\_SUBST(NET\_R\_END\_RESULT)

AC\_SUBST(NET\_R\_END\_RETURN)

AC\_CHECK\_FUNC(getgrnam\_r,,AC\_DEFINE(NEED\_GETGRNAM\_R))

AC\_CHECK\_FUNC(getgrgid\_r,,AC\_DEFINE(NEED\_GETGRGID\_R))

AC\_CHECK\_FUNC(getgrent\_r,

AC\_TRY\_COMPILE(

[

#include

<grp.h>

struct group \*getgrent\_r(struct group \*grp, char \*buffer,  
int buflen) { }

],[return (0);],[

GROUP\_R\_ARGS="#define GROUP\_R\_ARGS char \*buf, int buflen"

GROUP\_R\_BAD="#define GROUP\_R\_BAD NULL"

GROUP\_R\_OK="#define GROUP\_R\_OK gptr"

GROUP\_R\_RETURN="#define GROUP\_R\_RETURN struct group \*"

],

)

,

GROUP\_R\_ARGS="#define GROUP\_R\_ARGS char \*buf, int buflen"

GROUP\_R\_BAD="#define GROUP\_R\_BAD NULL"

GROUP\_R\_OK="#define GROUP\_R\_OK gptr"

GROUP\_R\_RETURN="#define GROUP\_R\_RETURN struct group \*"

AC\_DEFINE(NEED\_GETGRENT\_R)

)

AC\_SUBST(GROUP\_R\_ARGS)

AC\_SUBST(GROUP\_R\_BAD)

AC\_SUBST(GROUP\_R\_OK)

AC\_SUBST(GROUP\_R\_RETURN)

AC\_CHECK\_FUNC(endgrent\_r,

,

GROUP\_R\_END\_RESULT="#define GROUP\_R\_END\_RESULT(x) /\*empty\*/"

GROUP\_R\_END\_RETURN="#define GROUP\_R\_END\_RETURN void"

GROUP\_R\_ENT\_ARGS="#define GROUP\_R\_ENT\_ARGS void"

AC\_DEFINE(NEED\_ENDGRENT\_R)

)

AC\_SUBST(GROUP\_R\_END\_RESULT)

AC\_SUBST(GROUP\_R\_END\_RETURN)

AC\_SUBST(GROUP\_R\_ENT\_ARGS)

AC\_CHECK\_FUNC(setgrent\_r,

,

GROUP\_R\_SET\_RESULT="#undef

GROUP\_R\_SET\_RESULT /\*empty\*/"

GROUP\_R\_SET\_RETURN="#define GROUP\_R\_SET\_RETURN void"

```
AC_DEFINE(NEED_SETGRENT_R)
)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)
```

```
AC_CHECK_FUNC(gethostbyname_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct hostent *gethostbyname_r
(const char *name, struct hostent *hp, char *buf, int len, int *h_errnop) {}
],
[return (0);],
[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int gethostbyname_r(const
char *name,
struct hostent *result,
struct hostent_data *hdptr);
],,[
HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
HOST_R_BAD="#define HOST_R_BAD (-1)"
HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#define HOSTENT_DATA 1"
],
AC_TRY_COMPILE([
```

```

#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int gethostbyname_r (const char *,
                           struct hostent *,
                           char *, size_t,
                           struct hostent **,
                           int *);

],[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define
HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"
],
)))
,
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
)
AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE([
#undef
_REENTRANT
#define _REENTRANT
#undef __USE_MISC

```



```

#define __USE_MISC
#include <netdb.h>
int endhostent_r(struct hostent_data *buffer);
], ,
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(struct hostent_data *ht_data);
],[,]
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(void);
],[,]
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
],
)
)
)
,
HOST_R_END_RESULT="#define
HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
)
AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT

```

```

#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void sethostent_r(int flag, struct hostent_data *ht_data);,[],
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT /*empty*/"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int sethostent_r(int flag, struct hostent_data *ht_data);,[],
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      sethostent_r (int);,[],
[HOST_R_SET_RESULT="#undef
HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
)
)
)
,
HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"
)
AC_SUBST(HOST_R_SET_RESULT)
AC_SUBST(HOST_R_SET_RETURN)

AC_MSG_CHECKING(struct passwd element pw_class)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
],[struct passwd *pw; pw->pw_class = "";],
AC_MSG_RESULT(yes)
AC_DEFINE(HAS_PW_CLASS)
,
AC_MSG_RESULT(no)
)

```

```

AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
void
setpwent(void) {}
],
[return (0);],
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)

```

```

AC_TRY_COMPILE([
#include <sys/types.h>
#include <grp.h>
void
setgrent(void) {}
],
[return (0);],
SETGRENT_VOID="#define SETGRENT_VOID 1"
,
SETGRENT_VOID="#undef SETGRENT_VOID"
)
AC_SUBST(SETGRENT_VOID)

```

```

AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getnetgrent_r(char **m, char **u, char **d, char *b, int l) {}
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[

```

```

#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) {
}
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetgrent_r( char **, char **, char **, void **);
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS void **buf"
NGR_R_BAD="#define NGR_R_BAD
(0)"
NGR_R_COPY="#define NGR_R_COPY buf"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
NGR_R_PRIVATE="#define NGR_R_PRIVATE 1"
]
,
)
)
)
,
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
)
AC_SUBST(NGR_R_ARGS)

```

```

AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)
AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(endnetgrent_r,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) return (x)"
NGR_R_END_RETURN="#define NGR_R_END_RETURN int"
NGR_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"
,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"
NGR_R_END_RETURN="#define NGR_R_END_RETURN void"
NGR_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGRENT_R)
)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)

AC_CHECK_FUNC(setnetgrent_r,
[
case
"$host" in
*bsdi*)
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
;;
*)
NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
;;
esac
]
,
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
)
AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(innetgr_r,,AC_DEFINE(NEED_INNETGR_R))

AC_CHECK_FUNC(getprotoent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC

```

```

#define __USE_MISC
#include <netdb.h>
struct protoent *getprotoent_r(struct protoent *result,
    char *buffer, int buflen) { }
]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define
PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);

]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
PROTO_R_OK="#define PROTO_R_OK 0"
PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="#define PROTO_R_RETURN int"
]
,
)
)
,
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"

```

```

PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define
PROTO_R_RETURN struct protoent *"
)
AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)
AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)

AC_CHECK_FUNC(endprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endprotoent_r(void);
]
,
[
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS"
]
,
)
,
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/"
)
AC_SUBST(PROTO_R_END_RESULT)
AC_SUBST(PROTO_R_END_RETURN)
AC_SUBST(PROTO_R_ENT_ARGS)

AC_CHECK_FUNC(setprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void          setprotoent_r __P((int));

```

```

],[],
PROTO_R_SET_RESULT="#undef
PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
,
)
,
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
)
AC_SUBST(PROTO_R_SET_RESULT)
AC_SUBST(PROTO_R_SET_RETURN)

AC_CHECK_FUNC(getpwent_r,
AC_TRY_COMPILE(
[
#include <sys/types.h>
#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) {}
]
,
[])
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
,
)
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd
*"
AC_DEFINE(NEED_GETPWENT_R)
)
AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)

```



```

AC_CHECK_FUNC(endpwent_r,
AC_TRY_COMPILE(
[
#include <pwd.h>
void endpwent_r(FILE **pwfp);
], ,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
,
)
,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#undef PASS_R_ENT_ARGS"
AC_DEFINE(NEED_ENDPWENT_R)
)
AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r,,AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))

```

```

AC_CHECK_FUNC(setpwent_r,
AC_TRY_COMPILE([
#include <pwd.h>
void setpwent_r(FILE **pwfp);
], ,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN
int"
,
AC_TRY_COMPILE([
#include <pwd.h>
int setpwent_r(FILE **pwfp);
], ,
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
)
)
,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /*empty*/"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"
AC_DEFINE(NEED_SETPWENT_R)
)
AC_SUBST(PASS_R_SET_RESULT)

```

AC\_SUBST(PASS\_R\_SET\_RETURN)

AC\_CHECK\_FUNC(getpwnam\_r,,AC\_DEFINE(NEED\_GETPWNAM\_R))

AC\_CHECK\_FUNC(getpwuid\_r,,AC\_DEFINE(NEED\_GETPWUID\_R))

AC\_CHECK\_FUNC(getservent\_r,

AC\_TRY\_COMPILE([

#undef \_\_USE\_MISC

#define \_\_USE\_MISC

#include <netdb.h>

struct servent \*

getservent\_r(struct servent \*result, char \*buffer, int buflen) {}

],[return (0);],

[

SERV\_R\_ARGS="#define SERV\_R\_ARGS char \*buf, int buflen"

SERV\_R\_BAD="#define SERV\_R\_BAD NULL"

SERV\_R\_COPY="#define SERV\_R\_COPY buf, buflen"

SERV\_R\_COPY\_ARGS="#define SERV\_R\_COPY\_ARGS SERV\_R\_ARGS"

SERV\_R\_OK="#define SERV\_R\_OK sptr"

SERV\_R\_SETANSWER="#undef SERV\_R\_SETANSWER"

SERV\_R\_RETURN="#define SERV\_R\_RETURN

struct servent \*"

]

,

AC\_TRY\_COMPILE([

#undef \_\_USE\_MISC

#define \_\_USE\_MISC

#include <netdb.h>

int

getservent\_r (struct servent \*, char \*, size\_t, struct servent \*\*);

],[return (0);],

[

SERV\_R\_ARGS="#define SERV\_R\_ARGS char \*buf, size\_t buflen, struct servent \*\*answerp"

SERV\_R\_BAD="#define SERV\_R\_BAD ERANGE"

SERV\_R\_COPY="#define SERV\_R\_COPY buf, buflen"

SERV\_R\_COPY\_ARGS="#define SERV\_R\_COPY\_ARGS char \*buf, size\_t buflen"

SERV\_R\_OK="#define SERV\_R\_OK (0)"

SERV\_R\_SETANSWER="#define SERV\_R\_SETANSWER 1"

SERV\_R\_RETURN="#define SERV\_R\_RETURN int"

]

,

)

)

,

SERV\_R\_ARGS="#define SERV\_R\_ARGS char \*buf, int buflen"

SERV\_R\_BAD="#define SERV\_R\_BAD NULL"

SERV\_R\_COPY="#define SERV\_R\_COPY buf, buflen"

SERV\_R\_COPY\_ARGS="#define SERV\_R\_COPY\_ARGS SERV\_R\_ARGS"

```

SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)
AC_SUBST(SERV_R_RETURN)

AC_CHECK_FUNC(endservent_r,
AC_TRY_COMPILE(
[
#undef
_REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endservent_r(void);
]
,
,
[
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
]
,
)
,
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
)
AC_SUBST(SERV_R_END_RESULT)
AC_SUBST(SERV_R_END_RETURN)
AC_SUBST(SERV_R_ENT_ARGS)

AC_CHECK_FUNC(setservent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC

```

```

#include <netdb.h>
void      setservent_r(int);
]
”
[
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
]
,
)
,
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define
SERV_R_SET_RETURN void"
)
AC_SUBST(SERV_R_SET_RESULT)
AC_SUBST(SERV_R_SET_RETURN)

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int inetgr(const char *netgroup, const char *host, const char *user, const char *domain);
]
”
[
INNETGR_ARGS="#undef INNETGR_ARGS"
]
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int inetgr(char *netgroup, char *host, char *user, char *domain);
]
”
[
INNETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"
]
,

```

```

))

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(const char *);
]
,
[
SETNETGRENT_ARGS="#undef SETNETGRENT_ARGS"
]
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void
setnetgrent(char *);
]
,
[
SETNETGRENT_ARGS="#define SETNETGRENT_ARGS char *netgroup"
]
,
))
AC_SUBST(SETNETGRENT_ARGS)
AC_SUBST(INNETGR_ARGS)

#
# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?
#
AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
*-bsdi3.1*)
hack_shutup_sputaux=yes

```

```

;;
*-bsd4.0*)
hack_shutup_sigwait=yes
hack_shutup_sputaux=yes
hack_shutup_in6addr_init_macros=yes
;;
*-bsd4.1*)
hack_shutup_stdargcast=yes
;;
*-solaris2.8)
hack_shutup_pthreadonceinit=yes
hack_shutup_in6addr_init_macros=yes
;;
esac

case "$hack_shutup_pthreadonceinit" in
yes)
#
# Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.
#
ISC_PLATFORM_BRACEPTHREADONCEINIT="#define ISC_PLATFORM_BRACEPTHREADONCEINIT 1"
;;
esac

case
"$hack_shutup_sigwait" in
yes)
#
# Shut up a -Wmissing-prototypes warning for sigwait().
#
AC_DEFINE(SHUTUP_SIGWAIT)
;;
esac

case "$hack_shutup_sputaux" in
yes)
#
# Shut up a -Wmissing-prototypes warning from <stdio.h>.
#
AC_DEFINE(SHUTUP_SPUTAUX)
;;
esac

case "$hack_shutup_stdargcast" in
yes)
#
# Shut up a -Wcast-qual warning from va_start().
#

```

```

AC_DEFINE(SHUTUP_STDARG_CAST)
;;
esac

case "$shack_shutup_in6addr_init_macros" in
yes)
AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
;;
esac

#
# Substitutions
#
AC_SUBST(BIND9_TOP_BUILDDIR)
BIND9_TOP_BUILDDIR=`pwd`

AC_SUBST_FILE(BIND9_INCLUDES)
BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)
BIND9_MAKE_RULES=$BIND9_TOP_BUILDDIR/make/rules

. $srcdir/../../version
BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELEASEVER}"
AC_SUBST(BIND9_VERSION)

AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api

AC_OUTPUT(
make/rules
make/mkdep
make/includes
Makefile
bsd/Makefile
dst/Makefile
include/Makefile
inet/Makefile
irs/Makefile
isc/Makefile
nameser/Makefile
port_after.h
port_before.h
resolv/Makefile
port/Makefile
${PORT_DIR}/Makefile
${PORT_INCLUDE}/Makefile

```

)

#

Tell Emacs to edit this file in shell mode.

# Local Variables:

# mode: sh

# End:

Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/configure.in

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Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/hmacmd5.c  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/stdio.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/keyboard.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/nothreads/include/isc/condition.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/include/lwres/context.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/nothreads/include/isc/mutex.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/resource.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/nothreads/condition.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/lwpacket.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/ntpaths.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/resource.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/include/dst/gssapi.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/os.c  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/version.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/fsaccess.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/include/lwres/lang.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/gai\_strerror.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/unistd.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/offset.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/fsaccess.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/keyboard.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/stats.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/keyboard.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/socket\_p.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/keytable.h  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/hmacmd5.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/timer\_p.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/win32/include/lwres/platform.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/ondestroy.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/lwres\_noop.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/ondestroy.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/hex.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/win32/bindevt/bindevt.c

```

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/timer.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/formatcheck.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/stats.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/keyboard.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/entropy.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/bit.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwres_grbn.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/include/lwres/netdb.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/lwres.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/fsaccess.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/quota.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/timer.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/soa.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/netdb.h.in
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/mutex.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/resource.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/errno2result.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/lookup.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/int.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/offset.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/include/lwres/int.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/include/isc/thread.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/assert_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/result.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/task_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/quota.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/diff.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/file.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/keytable.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/forward.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/include/lwres/net.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/sdb.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/include/isc/once.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwresutil.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/forward.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/errno2result.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/netdb.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwres_gabn.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/thread.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/ipv6.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/os.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdatalist_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/stdio.c

```

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/lwbuffer.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/gethost.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/context\_p.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/stdio.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/soa.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/gssapictx.c

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\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/ntgroups.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/version.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/sterror.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind9/include/bind9/version.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind9/version.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind9/include/bind9/check.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/version.c

\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/platform.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/zonekey.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/include/lwres/version.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/solaris/include/sys/bittypes.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind9/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/streerror.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/win32/DLLMain.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/bind\_registry.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/streerror.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/version.h  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/ntpaths.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/syslog.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isccc/include/isccc/version.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/ntgroups.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/bindevt.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/key.c  
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```

*/

/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp $ */

#ifndef LWRES_PLATFORM_H
#define
LWRES_PLATFORM_H 1

/*****
**** Platform-dependent defines.
****/

/**
** Network.
**/

/*
* Define if this system needs the <netinet/in6.h> header file for IPv6.
*/
@LWRES_PLATFORM_NEEDNETINETIN6H@

/*
* Define if this system needs the <netinet6/in6.h> header file for IPv6.
*/
@LWRES_PLATFORM_NEEDNETINET6IN6H@

/*
* If sockaddrs on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN
* will be defined.
*/
@LWRES_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, LWRES_PLATFORM_HAVEIPV6
* will be defined.
*/
@LWRES_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, LWRES_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback,
* LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
*/

```

@LWRES\_PLATFORM\_NEEDIN6ADDRLOOPBACK@

/\*

\* If this system has in\_addr6, rather than in6\_addr,  
\* LWRES\_PLATFORM\_HAVEINADDR6 will be defined.

\*/

@LWRES\_PLATFORM\_HAVEINADDR6@

/\*

\* Defined if unistd.h does not cause fd\_set to be declared.

\*/

@LWRES\_PLATFORM\_NEEDSYSSELECTH@

/\*

\* Used to control how extern data is linked; needed for Win32 platforms.

\*/

@LWRES\_PLATFORM\_USEDECLSPEC@

/\*

\* Defined this system needs vsnprintf() and snprintf().

\*/

@LWRES\_PLATFORM\_NEEDVSNPRINTF@

/\*

\* If this system need a modern sprintf() that returns (int) not (char\*).

\*/

@LWRES\_PLATFORM\_NEEDSPRINTF@

#ifndef LWRES\_PLATFORM\_USEDECLSPEC

#define LIBLWRES\_EXTERNAL\_DATA

#else

#ifdef LIBLWRES\_EXPORTS

#define LIBLWRES\_EXTERNAL\_DATA \_\_declspec(dllexport)

#else

#define LIBLWRES\_EXTERNAL\_DATA \_\_declspec(dllimport)

#endif

#endif

#endif /\* LWRES\_PLATFORM\_H \*/

Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/include/lwres/platform.h.in

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/lcl\_gr.c  
\*  
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.\ " \$Id: lwres\_getipnode.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/msgs.h

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/entropy.c

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/types.h
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.\n

.\n \$Id: lwres\_getrrsetbyname.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\n

Found

in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getrrsetbyname.3

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.\n \$Id: lwres\_resutil.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\n

Found

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_resutil.3

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/unix/include/lwres/net.h  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/ipv6.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/gssapi\_link.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/fsaccess.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/errno2result.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/threads/mutex.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/errno2result.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/file.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/include/dst/dst.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/lwres\_gnba.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/request.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/os.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/entropy.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/cfg/include/isc/cfg/cfg.h

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```
.\"Os OPERATING_SYSTEM [version/release]
.\"Dt DOCUMENT_TITLE [section number] [volume]
.\" The following requests should be uncommented and
.\" used where appropriate. This next request is
.\" for sections 2 and 3 function return values only.
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" .Sh DIAGNOSTICS
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS
```

Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/logging.mdoc
```

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```
*/
```

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/tree.c
```

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```
.\" $Id: memcluster.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
```

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.\"
The following six UNCOMMENTED lines are required.
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.\"Dt DOCUMENT_TITLE [section number] [volume]
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh FILES
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" .Sh DIAGNOSTICS
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS

```

Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/memcluster.mdoc
```

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\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/nameser/ns\_verify.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/nameser/ns\_sign.c

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/include/lwres/list.h  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/heap.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/assertions.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/mem.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/heap.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/assertions.c

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.\"
.\" $Id: lwres_context.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_context.3  
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-->

<!-- \$Id: lwres\_getipnode.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getipnode</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getipnodebyname</refname>

<refname>lwres\_getipnodebyaddr</refname>

<refname>lwres\_freehostent</refname>

<refpurpose>lightweight resolver nodename / address translation API</refpurpose>

</refnamediv>

<refsynopsisdiv>

<functsynopsis>

<functsynopsisinfo>#include <lwres/netdb.h></functsynopsisinfo>

<funcprototype>

<funcdef>

struct hostent \*

<function>lwres\_getipnodebyname</function></funcdef>

<paramdef>const char \*name</paramdef>

<paramdef>int af</paramdef>

<paramdef>int flags</paramdef>

<paramdef>int \*error\_num</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

struct hostent \*

<function>lwres\_getipnodebyaddr</function></funcdef>

<paramdef>const void \*src</paramdef>

<paramdef>size\_t len</paramdef>

<paramdef>int

af</paramdef>

<paramdef>int \*error\_num</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres\_freehostent</function></funcdef>

<paramdef>struct hostent \*he</paramdef>

</funcprototype>

</functsynopsis>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

These functions perform thread safe, protocol independent nodename-to-address and address-to-nodename translation as defined in RFC2553.

</para>

<para>

They use a

<type>struct hostent</type>

which is defined in

<filename>namedb.h</filename>:

<programlisting>

```
struct hostent {
    char  *h_name;    /* official name of host */
    char  **h_aliases; /* alias list */
    int   h_addrtype; /* host address type */
    int   h_length;   /* length of address */
    char  **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
```

</programlisting>

</para>

<para>

The members of this structure

are:

<variablelist>

<varlistentry><term><constant>h\_name</constant></term>

<listitem>

<para>

The official (canonical) name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addrtype</constant></term>

<listitem>

<para>

The type of address being returned - usually

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>  
<varlistentry><term><constant>h\_addr\_list</constant></term>

<listitem>

<para>

A

<type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<function>lwres\_getipnodebyname()</function>

looks

up addresses of protocol family

<parameter>af</parameter>

for the hostname

<parameter>name</parameter>.

The

<parameter>flags</parameter>

parameter contains ORed flag bits to

specify the types of addresses that are searched

for, and the types of addresses that are returned.

The flag bits are:

<variablelist>

<varlistentry><term><constant>AI\_V4MAPPED</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF\_INET6, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_ALL</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF\_INET6, and causes all known addresses (IPv6 and IPv4) to be returned.

If AI\_V4MAPPED is also set, the IPv4 addresses are return as mapped IPv6 addresses.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_ADDRCONFIG</constant></term>

```

<listitem>
<para>
Only return an IPv6 or
IPv4 address if there is an active network
interface of that type. This is not currently implemented
in the BIND 9 lightweight resolver, and the flag is ignored.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>AI_DEFAULT</constant></term>
<listitem>
<para>
This default sets the
<constant>AI_V4MAPPED</constant>
and
<constant>AI_ADDRCONFIG</constant>
flag bits.
</para>
</listitem></varlistentry>
</variablelist>
</para>
<para>
<function>lwres_getipnodebyaddr()</function>
performs a reverse lookup
of address
<parameter>src</parameter>
which is
<parameter>len</parameter>
bytes long.
<parameter>af</parameter>
denotes the protocol family, typically
<type>PF_INET</type>
or
<type>PF_INET6</type>.

</para>
<para>
<function>lwres_freehostent()</function>
releases all the memory associated with
the
<type>struct hostent</type>
pointer
<parameter>he</parameter>.

Any memory allocated for the
<constant>h_name</constant>,

<constant>h_addr_list</constant>
and

```

<constant>h\_aliases</constant>

is

freed, as is the memory for the

<type>hostent</type>

structure itself.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

If an error occurs,

<function>lwres\_getipnodebyname()</function>

and

<function>lwres\_getipnodebyaddr()</function>

set

<parameter>\*error\_num</parameter>

to an appropriate error code and the function returns a

<type>NULL</type>

pointer.

The error codes and their meanings are defined in

<filename>&lt;lwres/netdb.h&gt;</filename>:

<variablelist>

<varlistentry><term><constant>HOST\_NOT\_FOUND</constant></term>

<listitem>

<para>

No such host is known.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO\_ADDRESS</constant></term>

<listitem>

<para>

The server recognised the request and the name but no address is

available. Another type of request to the name server for the

domain might return an answer.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>TRY\_AGAIN</constant></term>

<listitem>

<para>

A temporary and possibly

transient error occurred, such as a

failure of a server to respond. The request may succeed if

retried.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO\_RECOVERY</constant></term>

<listitem>

<para>



An unexpected failure occurred, and retrying the request is pointless.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<citerefentry>

<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

translates these error codes to suitable error messages.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>RFC2553</refentrytitle>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_gethostent</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_getnameinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

Found

in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getipnode.docbook

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.\" $Id: lwres_inetntop.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_inetntop.3
```

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```

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```

```
*/
```

```
/*
```

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- \*/

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-->

<!-- \$Id: lwres\_resutil.docbook,v  
1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_resutil</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_string\_parse</refname>

<refname>lwres\_addr\_parse</refname>

<refname>lwres\_getaddrbyname</refname>

<refname>lwres\_getnamebyaddr</refname>

<refpurpose>lightweight resolver utility functions</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include &lt;lwres/lwres.h&gt;</funcsynopsisinfo>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_string\_parse</function></funcdef>

<paramdef>lwres\_buffer\_t \*b</paramdef>

<paramdef>char \*\*c</paramdef>

<paramdef>lwres\_uint16\_t \*len</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_addr\_parse</function></funcdef>

<paramdef>lwres\_buffer\_t \*b</paramdef>

<paramdef>lwres\_addr\_t \*addr</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_getaddrbyname</function></funcdef>

<paramdef>lwres\_context\_t

```

*ctx</paramdef>
<paramdef>const char *name</paramdef>
<paramdef>lwres_uint32_t addrtypes</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getnamebyaddr</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t addrtype</paramdef>
<paramdef>lwres_uint16_t addrlen</paramdef>
<paramdef>const unsigned char *addr</paramdef>
<paramdef>lwres_gnbaresponse_t **structp</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

```

```

<refsect1>
<title>DESCRIPTION</title>

```

```

<para>
<function>lwres_string_parse()</function> retrieves a DNS-encoded
string starting the current pointer of lightweight resolver buffer
<parameter>b</parameter>: i.e. <constant>b-&gt;current</constant>.
When the function returns, the address of the first byte of the
encoded string is returned via
<parameter>*c</parameter> and the
length of that string is given by <parameter>*len</parameter>. The
buffer's current pointer is advanced to point at the character
following the string length, the encoded string, and the trailing
<type>NULL</type> character.
</para>

```

```

<para>
<function>lwres_addr_parse()</function> extracts an address from the
buffer <parameter>b</parameter>. The buffer's current pointer
<constant>b-&gt;current</constant> is presumed to point at an encoded
address: the address preceded by a 32-bit protocol family identifier
and a 16-bit length field. The encoded address is copied to
<constant>addr-&gt;address</constant> and
<constant>addr-&gt;length</constant> indicates the size in bytes of
the address that was copied. <constant>b-&gt;current</constant> is
advanced to point at the next byte of available data in the buffer
following the encoded address.
</para>

```

```

<para>

```

<function>lwres\_getaddrbyname()</function>

and

<function>lwres\_getnamebyaddr()</function>

use the

<type>lwres\_gnbaresponse\_t</type>

structure

defined below:

<programlisting>

```
typedef struct {
    lwres_uint32_t    flags;
    lwres_uint16_t    naliases;
    lwres_uint16_t    naddrs;
    char              *realname;
    char              **aliases;
    lwres_uint16_t    realnamelen;
    lwres_uint16_t    *aliaslen;
    lwres_addrlist_t  addrs;
    void              *base;
    size_t            baselen;
} lwres_gabnresponse_t;
```

</programlisting>

The contents of this structure are not manipulated directly but they are controlled through the

<citerefentry>

<refentrytitle>lwres\_gabn</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

functions.

</para>

<para>

The lightweight resolver uses

<function>lwres\_getaddrbyname()</function> to perform forward lookups.

Hostname <parameter>name</parameter> is looked up using the resolver context <parameter>ctx</parameter> for memory allocation.

<parameter>addrtypes</parameter>

is a bitmask indicating which type of

addresses are to be looked up. Current values for this bitmask are

<type>LWRES\_ADDRTYPE\_V4</type> for IPv4 addresses and

<type>LWRES\_ADDRTYPE\_V6</type> for IPv6 addresses. Results of the lookup are returned in <parameter>\*structp</parameter>.

</para>

<para>

<function>lwres\_getnamebyaddr()</function> performs reverse lookups.

Resolver context <parameter>ctx</parameter> is used for memory allocation. The address type is indicated by

<parameter>addrtype</parameter>: <type>LWRES\_ADDRTYPE\_V4</type> or

<type>LWRES\_ADDRTYPE\_V6</type>. The address to be looked up is given by <parameter>addr</parameter> and its length is <parameter>addrlen</parameter> bytes. The result of the function call is made available through <parameter>\*structp</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

Successful calls to

<function>lwres\_string\_parse()</function>

and

<function>lwres\_addr\_parse()</function>

return

<errorcode>LWRES\_R\_SUCCESS.</errorcode>

Both

functions return

<errorcode>LWRES\_R\_FAILURE</errorcode>

if the buffer is corrupt or

<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>

if the buffer has less space than expected for the components of the encoded string or address.

</para>

<para>

<function>lwres\_getaddrbyname()</function>

returns

<errorcode>LWRES\_R\_SUCCESS</errorcode>

on success and it returns

<errorcode>LWRES\_R\_NOTFOUND</errorcode>

if the hostname

<parameter>name</parameter>

could not be found.

</para>

<para>

<errorcode>LWRES\_R\_SUCCESS</errorcode>

is returned by a successful call to

<function>lwres\_getnamebyaddr()</function>.

</para>

<para>

Both

<function>lwres\_getaddrbyname()</function>

and

<function>lwres\_getnamebyaddr()</function>

return

<errorcode>LWRES\_R\_NOMEMORY</errorcode>

when memory allocation requests fail and

<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>  
if the buffers used for sending queries and receiving replies are too  
small.  
</para>

</refsect1>  
<refsect1>  
<title>SEE  
ALSO</title>  
<para>  
<citerefentry>  
<refentrytitle>lwres\_buffer</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>,&br/>

<citerefentry>  
<refentrytitle>lwres\_gabn</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>.  
</para>

</refsect1>  
</refentry>

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/openssldsa\_link.c



\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/dst\_parse.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/hmac\_link.c

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\*

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_makeaddr.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_lnaof.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_netof.c

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\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/getgrent\_r.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/getnetent\_r.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/getpwent\_r.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/ghostent\_r.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/getservent\_r.c  
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\*

```
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/tsig.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/hs_4/a_1.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/callbacks.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/ipv6.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/gpos_27.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/events.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/ratelimiter.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rootns.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/log.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/acl.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rbt.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/netaddr.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/x25_19.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/nsap_22.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/masterdump.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/acl.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/master.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/aaaa_28.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/tsig.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/nxt_30.h
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```

```
/*
* msg_eventlib.c - Error messages for evlib
*
* January 2007, Vikram Visweswaraiiah
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*/
```

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\*/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/darwin/include/sys/bitypes.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/rhapsody/include/sys/bitypes.h

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/lynxos/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/cygwin/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/next/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/aix32/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/mpe/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/aix4/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/hpux/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/unixware20/include/sys/cdefs.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/hpux9/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/sunos/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/unixware212/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/irix/include/sys/cdefs.h

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of

the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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```
<one line to give the library's name and a brief idea of what it does.>  
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Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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section 10

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## 1.147 glibc 2.28-145.el8

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\* /opt/cola/permits/1130449880\_1615190737.4/0/glibc-tar/glibc/test/Makefile.binos

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/\* PUBLIC DOMAIN Oct 2002 <marc@snafu.org> \*/

Found in path(s):

\* /opt/cola/permits/1130449880\_1615190737.4/0/glibc-tar/glibc/test/test\_pthread\_kill.c

## 1.148 p11-kit 0.23.21-4.el8

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# 1.149 iptools 20180629-6.el8

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```
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*-----
* ip_parser_linkpoints.h - IP related parser linkpoint decls.
*
* April, 2005
*
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* All rights reserved.
*-----
*/
```

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\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/include/ip\_parser\_linkpoints.h

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```
/*
*-----
* util_ip.c -- miscellaneous ip specific utility routines
*
* Feb 2008, Hiral mehta
*
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*-----
*/
```

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\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/src/ip\_util.c

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\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/include/reg/ip\_15\_registry.reg

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/makefile

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/expl\_path/makefile

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/src/src.mk

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/expl\_path/src/src.mk

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```
/*
```

```
*-----
* ipaddress_api.h
*
* Febuary 2004
*
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*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/ipaddress_api.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* ip_parser_macros.h - IP* macros moved out of
* sys/parser/macros.h
*
* November, 2004
*
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*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/ip_parser_macros.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* ip_15_registry.h -- Registration Points for IP_15 support
*
* August 2006, Krishna Kumar Maurya
*
* Copyright (c) 2006-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* The file ip_registry.reg has been re-factored into 44 different
* registries to address the 2G problem. The detail regarding the
* mapping of registries into services is available at
* /vob/ios.sys1/deprecated/sys/ip/ip_registry_map.txt
* For further detail regarding the re-factoring of registries,
* please mail in your queries to dolphins@cisco.com
*/
```

Found in path(s):

```
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/ip_15_registry.h
```

```
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
*-----
```

```
* ip_parser_linkpoints.c - IP related parser linkpoint definitions.
```

```
*
```

```
* April, 2005
```

```
*
```

```
* Copyright (c) 2005, 2008-2009, 2014 by cisco Systems, Inc.
```

```
* All rights reserved.
```

```
*
```

```
*-----
```

```
*/
```

```
Found in path(s):
```

```
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/src/ip_parser_linkpoints.c
```

```
No license file was found, but licenses were detected in source scan.
```

```
##
```

```
## Component "ip":
```

```
##
```

```
## Copyright (c) 2008-2009, 2013-2014 by cisco Systems, Inc.
```

```
## All rights reserved.
```

```
##
```

```
syntax: 1.0.0
```

```
# meta-source files found within component 'ip'
```

```
group: generic
```

```
{
```

```
  reg:
```

```
    include/reg/ip_15_registry.reg
```

```
    include/reg/ip_registry.reg
```

```
}
```

```
# migrated from file: 'ip/src/src.mk'
```

```
group: top
```

```
{
```

```
  includes: $(IOS_SYSROOT)/ion/include $(COMPONENT_ROOT)/posix/include
```

```
# These diagnostic disables are temporary and must be removed
```

```
# after fixing the problems in the source code
```

```
if: compiler == gcc.c4.7
```

```
{
```

```
  cflags : -Wno-error=unused-but-set-variable -Wno-error=enum-compare
```

```
}
```

```

sub: ip_parser
{
  contains:
    src/ip_parser_linkpoints.c
}
sub: ip_registry
{
  contains:
    src/ip_registry.c
}
sub: ip_util
{
  contains:
    src/ip_util.c
}
}
# end of group: top

##

```

Found in path(s):

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/content.lst

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```

/*
*-----
* ip_util.h
*
* February 2005
*
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*-----
*/

```

Found in path(s):

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/include/ip\_util.h

## 1.150 glib 2.56.4-9.el8

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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## 1.152 elfutils 0.182-3.el8

### 1.152.1 Available under license :

No license file was found, but licenses were detected in source scan.

# All rights reserved

Found in path(s):

```
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/parseinfo.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/datastore.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/structdef.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/ActionTable.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/fixup_parser_extension.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/LinkTable.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/SimpleELF.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Makefile
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/extract_func_calls.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/codegen.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/StructFormat.py
*
/opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/SimpleCType.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/setup.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/struct_unpack.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/gdblist.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/bat_structoffset.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/CmdSelector.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/parser_bin_tool.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/SymbolTable.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/extract_address.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Traverser.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/graph_algo.py
*
/opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/actionenum.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/handler.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Condition.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/SimpleTraverser.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/tlutils.py
```

No license file was found, but licenses were detected in source scan.

```
/*  
* lua_ex_api.h  
*  
* July 2016, Jingfeng Yan  
*  
* Copyright (c) 2016 by cisco Systems, Inc.  
* All rights reserved  
*/
```

Found in path(s):

\* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/lua\_ex\_api.h

No license file was found, but licenses were detected in source scan.

```
/*  
* lua_ex_api.c  
*  
* July 2016, Jingfeng Yan  
*  
* Copyright (c) 2016 by cisco Systems, Inc.  
* All rights reserved  
*/
```

Found in path(s):

\* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/lua\_ex\_api.c

No license file was found, but licenses were detected in source scan.

parser\_bin\_tool\_readme.html

July 2016, Jingfeng Yan

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Found in path(s):

\* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/parser\_bin\_tool\_readme.html

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```
/*  
* symbol_type_info.c  
*  
* July 2016, Jingfeng Yan  
*  
* Copyright (c) 2016 by cisco Systems, Inc.  
* All rights reserved  
*/
```

Found in path(s):

\* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/symbol\_type\_info.c

## 1.153 systemd 239-43.el8

### 1.153.1 Available under license :

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## 1.154 iptables 1.8.4-16.el8

### 1.154.1 Available under license :

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#

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#

# This file contains all needed files related to nfs server daemon.

#

infra/systemd/nfs-mountd.service           usr/lib/systemd/system/nfs-mountd.service

infra/systemd/nfs-server.service           usr/lib/systemd/system/nfs-server.service

infra/systemd/proc-fs-nfsd.mount           usr/lib/systemd/system/proc-fs-nfsd.mount

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/exportfs   usr/sbin/exportfs

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.mountd   usr/sbin/rpc.mountd

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.nfsd   usr/sbin/rpc.nfsd

(include nfs-common)

# The following optional kernel modules are put here to allow forwarding

# compatible when NFSV4 support is configured in kernel.

# When nfsv4 is enabled in kernel, it brings in extra dependency for

# nfsd.ko, which is needed for nfsv3 verver.

#

so treat extra modules needed by nfsd.ko as optional since it depend on kernel

# configure.

```
#
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
```

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/nfsv3/nfs-utils

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(include systemd-common)

```
infra/systemd/switchroot/sysinit.target          usr/lib/systemd/system/sysinit.target
infra/systemd/switchroot/systemd-journald.service  usr/lib/systemd/system/systemd-
journald.service
infra/systemd/switchroot/systemd-timedated.service  usr/lib/systemd/system/systemd-
timedated.service
infra/systemd/switchroot/systemd-udev.service      usr/lib/systemd/system/systemd-
udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald-audit.socket
usr/lib/systemd/system/systemd-journald-audit.socket
```

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/systemd-swrt

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```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/journalctl  usr/bin/journalctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemctl  usr/bin/systemctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-inhibit  usr/bin/systemd-inhibit
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-notify  usr/bin/systemd-notify
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-tmpfiles  usr/bin/systemd-tmpfiles
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/udevadm        usr/bin/udevadm
contrib/yocto/CGE7/journald.conf                        etc/systemd/journald.conf
infra/systemd/system.conf                              etc/systemd/system.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/systemd/user.conf  etc/systemd/user.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/udev/udev.conf    etc/udev/udev.conf
/usr/lib/systemd/systemd                              init
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-generators/systemd-fstab-generator
```

```

usr/lib/systemd/system-generators/systemd-fstab-generator
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/basic.target
usr/lib/systemd/system/basic.target
/usr/lib/systemd/system/reboot.target                usr/lib/systemd/system/ctrl-alt-del.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-hugepages.mount
usr/lib/systemd/system/dev-hugepages.mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/dev-mqueue.mount
infra/systemd/emergency.service
                usr/lib/systemd/system/emergency.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/emergency.target
usr/lib/systemd/system/emergency.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/final.target
usr/lib/systemd/system/final.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/halt.target
usr/lib/systemd/system/halt.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/kexec.target
usr/lib/systemd/system/kexec.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/local-fs-pre.target
usr/lib/systemd/system/local-fs-pre.target
infra/systemd/local-fs.target                usr/lib/systemd/system/local-fs.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/network-online.target
usr/lib/systemd/system/network-online.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/network.target
                usr/lib/systemd/system/network.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/paths.target
usr/lib/systemd/system/paths.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/poweroff.target
usr/lib/systemd/system/poweroff.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/reboot.target
usr/lib/systemd/system/reboot.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/remote-fs.target
usr/lib/systemd/system/remote-fs.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/rescue.service
usr/lib/systemd/system/rescue.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/rescue.target
usr/lib/systemd/system/rescue.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/shutdown.target
usr/lib/systemd/system/shutdown.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/slices.target
                usr/lib/systemd/system/slices.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sockets.target
usr/lib/systemd/system/sockets.target
/usr/lib/systemd/system/systemd-journald.socket
usr/lib/systemd/system/sockets.target.requires/systemd-journald.socket
/usr/lib/systemd/system/systemd-udev-control.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udev-control.socket
/usr/lib/systemd/system/systemd-udev-kernel.socket

```

usr/lib/systemd/system/sockets.target.requires/systemd-udev-kernel.socket  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/sys-kernel-config.mount  
 usr/lib/systemd/system/sys-kernel-config.mount  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/sys-kernel-debug.mount  
 usr/lib/systemd/system/sys-kernel-debug.mount  
 /usr/lib/systemd/system/dev-hugepages.mount  
     usr/lib/systemd/system/sysinit.target.wants/dev-hugepages.mount  
 /usr/lib/systemd/system/dev-mqueue.mount  
 usr/lib/systemd/system/sysinit.target.wants/dev-mqueue.mount  
 /usr/lib/systemd/system/sys-kernel-config.mount  
 usr/lib/systemd/system/sysinit.target.wants/sys-kernel-config.mount  
 /usr/lib/systemd/system/sys-kernel-debug.mount  
 usr/lib/systemd/system/sysinit.target.wants/sys-kernel-debug.mount  
 /usr/lib/systemd/system/systemd-journal-flush.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-journal-flush.service  
 /usr/lib/systemd/system/systemd-journald.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-journald.service  
 /usr/lib/systemd/system/systemd-modules-load.service  
     usr/lib/systemd/system/sysinit.target.wants/systemd-modules-load.service  
 /usr/lib/systemd/system/systemd-sysctl.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-sysctl.service  
 /usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup-dev.service  
 /usr/lib/systemd/system/systemd-tmpfiles-setup.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup.service  
 /usr/lib/systemd/system/systemd-udev-trigger.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-udev-trigger.service  
 /usr/lib/systemd/system/systemd-udev.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-udev.service  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-halt.service  
     usr/lib/systemd/system/systemd-halt.service  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journal-flush.service  
 usr/lib/systemd/system/systemd-journal-flush.service  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journald-dev-log.socket  
 usr/lib/systemd/system/systemd-journald-dev-log.socket  
 infra/systemd/systemd-journald.service.d/visible.conf                      usr/lib/systemd/system/systemd-  
 journald.service.d/visible.conf  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-fsck@.service  
 usr/lib/systemd/system/systemd-fsck@.service  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journald.socket  
 usr/lib/systemd/system/systemd-journald.socket  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-kexec.service  
 usr/lib/systemd/system/systemd-kexec.service  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-modules-load.service  
 usr/lib/systemd/system/systemd-modules-load.service  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-poweroff.service  
     usr/lib/systemd/system/systemd-poweroff.service  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-reboot.service

usr/lib/systemd/system/systemd-reboot.service

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-sysctl.service

usr/lib/systemd/system/systemd-sysctl.service

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service

usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup.service

usr/lib/systemd/system/systemd-tmpfiles-setup.service

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-udev-settle.service

usr/lib/systemd/system/systemd-udev-settle.service

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-udev-trigger.service

usr/lib/systemd/system/systemd-udev-trigger.service

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-udev-control.socket

usr/lib/systemd/system/systemd-udev-control.socket

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-udev-kernel.socket

usr/lib/systemd/system/systemd-udev-kernel.socket

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/timers.target

usr/lib/systemd/system/timers.target

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/time-sync.target

usr/lib/systemd/system/time-sync.target

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/umount.target

usr/lib/systemd/system/umount.target

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd

usr/lib/systemd/systemd

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/bin/systemd-socket-activate

usr/bin/systemd-socket-activate

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-bootchart

usr/lib/systemd/systemd-bootchart

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-fsck

usr/lib/systemd/systemd-fsck

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-journald

usr/lib/systemd/systemd-journald

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-modules-load

usr/lib/systemd/systemd-modules-load

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-shutdown

usr/lib/systemd/systemd-shutdown

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-sysctl

usr/lib/systemd/systemd-sysctl

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-timedated

usr/lib/systemd/systemd-timedated

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-udev

usr/lib/systemd/systemd-udev

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/udev/rules.d/50-udev-default.rules

usr/lib/udev/rules.d/50-udev-default.rules

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/udev/rules.d/99-systemd.rules

usr/lib/udev/rules.d/99-systemd.rules

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/bin/systemd-analyze

usr/bin/systemd-analyze

linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/machine.slice

usr/lib/systemd/system/machine.slice

infra/systemd/systemd-journald.service.d/visible.conf

usr/lib/systemd/system/systemd-



journald.service.d/visible.conf

infra/systemd/sysctl/inotify-user-instances.conf

etc/sysctl.d/inotify-user-instances.conf

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/systemd-common

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#

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(include all-common)

(include systemd-swrt)

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/all-swrt

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#

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#files related to nfs-statd.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.statd           usr/sbin/rpc.statd

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/sm-notify       usr/sbin/sm-notify

infra/systemd/nfs-statd.service           usr/lib/systemd/system/nfs-statd.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/nfsstat       usr/sbin/nfsstat

#files related to nfs-idmapd.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.idmapd       usr/sbin/rpc.idmapd

infra/systemd/var-lib-nfs-rpc\_pipefs.mount   usr/lib/systemd/system/var-lib-nfs-rpc\_pipefs.mount

# plugin nsswitch for rpc.idmapd can not be figure out automatilly by dependency.

# The directory for plugin is fix to usr/lib/libnfsidmap

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/\${LIB}/libnfsidmap/nsswitch.so   usr/lib/libnfsidmap/nsswitch.so

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/idmapd.conf

etc/idmapd.conf

infra/systemd/nfs-idmapd.service           usr/lib/systemd/system/nfs-idmapd.service

contrib/initscripts/binos/etc/\${NFS\_VER}/nfs-utils.conf   etc/nfs-utils.conf

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/nfsv4/nfs-common

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#

# Copyright (c) 2018-2020 by Cisco Systems, Inc.

```

# All rights reserved.
#
# This file contains all needed files related to nfs server daemon.
#
infra/systemd/nfs-mountd.service      usr/lib/systemd/system/nfs-mountd.service
infra/systemd/nfs-server.service      usr/lib/systemd/system/nfs-server.service
infra/systemd/proc-fs-nfsd.mount      usr/lib/systemd/system/proc-fs-nfsd.mount

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/exportfs  usr/sbin/exportfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.mountd  usr/sbin/rpc.mountd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.nfsd  usr/sbin/rpc.nfsd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rpcinfo  usr/bin/rpcinfo

(include nfs-common)
# The following kernel modules are needed when NFSV4 support is configured
# in kernel.
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko

Found in path(s):
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/nfsv4/nfs-utils
No license file was found, but licenses were detected in source scan.

#
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# This file is to store extra files needed to support NFSV4 client.
#
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mount.nfs  usr/sbin/mount.nfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/umount.nfs  usr/sbin/umount.nfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mount.nfs4  usr/sbin/mount.nfs4
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/umount.nfs4  usr/sbin/umount.nfs4

contrib/initscripts/binos/etc/${NFS_VER}/nfsmount.conf  etc/nfsmount.conf
${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko
usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko

(include nfs-common)

Found in path(s):
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/nfsv4/nfs-utils-client

```

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(include systemd-common)

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-preset/90-systemd.preset
usr/lib/systemd/system-preset/90-systemd.preset
/usr/lib/systemd/system/tmp.mount                usr/lib/systemd/system/local-
fs.target.requires/tmp.mount
infra/systemd/sysinit.target                    usr/lib/systemd/system/sysinit.target
infra/systemd/cpld-symlink.service              usr/lib/systemd/system/cpld-symlink.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald.service
usr/lib/systemd/system/systemd-journald.service
infra/systemd/systemd-journald.service.d/visible.conf    usr/lib/systemd/system/systemd-
journald.service.d/visible.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-timedated.service
usr/lib/systemd/system/systemd-timedated.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udev.service
usr/lib/systemd/system/systemd-udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/tmp.mount
usr/lib/systemd/system/tmp.mount
```

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/systemd

No license file was found, but licenses were detected in source scan.

#

# May 2018, Victor Kamensky

#

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#

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd        usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd        usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd        usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd        usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd        usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd        usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd        usr/sbin/auditd
```

```
contrib/initscripts/binos/etc/audit/auditd.conf        etc/audit/auditd.conf
contrib/initscripts/binos/etc/audit/auditd.conf        etc/audit/auditd.conf
contrib/initscripts/binos/etc/audit/auditd.conf        etc/audit/auditd.conf
contrib/initscripts/binos/etc/audit/auditd.conf        etc/audit/auditd.conf
contrib/initscripts/binos/etc/audit/auditd.conf        etc/audit/auditd.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/default/auditd
```

etc/default/auditd  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/libaudit.conf      etc/libaudit.conf

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/audit

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ipcalc      usr/bin/ipcalc

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/ipcalc

No license file was found, but licenses were detected in source scan.

# Original Creation Date Unknown

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/staprun      usr/bin/staprun

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/libexec/systemtap/stapio      usr/libexec/systemtap/stapio

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/systemtap

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.statd      usr/sbin/rpc.statd

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/sm-notify      usr/sbin/sm-notify

infra/systemd/nfs-statd.service      usr/lib/systemd/system/nfs-statd.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/nfsstat      usr/sbin/nfsstat

contrib/initscripts/binos/etc/\${NFS\_VER}/nfs-utils.conf      etc/nfs-utils.conf

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/nfsv3/nfs-common

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/dmesg      usr/bin/dmesg

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/kill      usr/bin/kill

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/mount      usr/bin/mount

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/umount      usr/bin/umount

```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/agetty  usr/sbin/agetty
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/blockdev  usr/sbin/blockdev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/cfdisk  usr/sbin/cfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/ctrlaltdel  usr/sbin/ctrlaltdel
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdisk  usr/sbin/fdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fsck  usr/sbin/fsck
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/hwclock  usr/sbin/hwclock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkswap  usr/sbin/mkswap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/pivot_root
  usr/sbin/pivot_root
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sfdisk  usr/sbin/sfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapoff  usr/sbin/swapoff
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapon  usr/sbin/swapon
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/arch  usr/bin/arch
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/cal  usr/bin/cal
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/chrt  usr/bin/chrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/col  usr/bin/col
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colcrt  usr/bin/colcrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colrm  usr/bin/colrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/column  usr/bin/column
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/flock  usr/bin/flock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/getopt  usr/bin/getopt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/hexdump  usr/bin/hexdump
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ionice  usr/bin/ionice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcrm
  usr/bin/ipcrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcs  usr/bin/ipcs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/isosize  usr/bin/isosize
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/last  usr/bin/last
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/logger  usr/bin/logger
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/look  usr/bin/look
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/lslblk  usr/bin/lslblk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mesg  usr/bin/mesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/namei  usr/bin/namei
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/newgrp  usr/bin/newgrp
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/nsenter  usr/bin/nsenter
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rename  usr/bin/rename
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/renice  usr/bin/renice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rev  usr/bin/rev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/script  usr/bin/script
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setuid
  usr/bin/setuid
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setterm  usr/bin/setterm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/taskset  usr/bin/taskset
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ul  usr/bin/ul
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/wall  usr/bin/wall
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/whereis  usr/bin/whereis
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/write  usr/bin/write

```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdformat  usr/sbin/fdformat
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkfs    usr/sbin/mkfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/raw     usr/sbin/raw
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/zramctl  usr/sbin/zramctl
```

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/util-linux

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#

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(include audit)

(include bash)

(include binutils)

(include bridge-utils)

(include busybox)

(include bzip2)

(include coreutils)

(include cpio)

(include dbus)

(include diffutils)

(include dosfstools)

(include e2fsprogs)

(include ethtool)

(include file)

(include filesystem)

(include findutils)

(include gawk)

(include glibc)

(include grep)

(include gzip)

(include initscripts)

(include ipcalc)

(include iproute2)

(include iptables)

(include iputils)

(include kexec-tools)

(include kmod)

(include less)

(include libcap)

(include lsof)

(include modules)

(include ncurses)

(include netbase)

(include netcat)

(include netkit-telnet)

```
(include net-tools)
(include ${NFS_VER}/nfs-utils-client)
(include pciutils)
(include procps)
(include psmisc)
(include rpcbind)
(include sed)
(include shadow)
(include strace)
(include sysklogd)
(include systemtap)
(include sysvinit)
(include
tar)
(include tcpdump)
(include tftp-hpa)
(include traceroute)
(include util-linux)
```

Found in path(s):

```
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/all-common
No license file was found, but licenses were detected in source scan.
```

```
#
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```

```
(include all-common)
```

```
(include systemd)
```

Found in path(s):

```
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/all
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```

```
#
# November 2018, Cisco Systems, Inc.
#
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```

```
#
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ping      usr/bin/ping
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/tracpath  usr/bin/tracpath
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/in.tftpd-hpa  usr/bin/tftpd
```

Found in path(s):

```
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/iputils
```

# 1.155 curl 7.61.1-17.el8

## 1.155.1 Available under license :

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# 1.156 zlib 1.2.11-17.el8

## 1.156.1 Available under license :

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## 1.157 libsolv 0.7.16-1.el8

### 1.157.1 Available under license :

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## 1.158 dnf 4.4.2-2.el8

## 1.158.1 Available under license :

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```
/*
*-----
* erp_io.c - ERP IO common code
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2011, 2016-2017 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_io.c

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_ctrl_ha.c - ERP Controller HA common code
*
* Sep 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2011, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_ctrl\_ha.c

No license file was found, but licenses were detected in source scan.

```
#
# erp_ring.zn - Oxide rules file
#
# June 2018, Gangadhara Valluri
#
# Copyright (c) 2018 by cisco Systems, Inc.
# All rights reserved.
#
```

```
name: erp_ring;
type: erp_ring_t;
type: erp_instance_t;
type: erp_port_id_t;
type: erp_profile_t;
type: erp_instance_stats_t;
```

type: erp\_port\_info\_t;  
type: erp\_l2req\_state\_t;  
type: erp\_raps\_encap\_t;  
type: xos\_bitlist\_handle;  
type: xos\_list\_t;  
type: xos\_list\_element\_t;

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_ring.zn

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* erp\_ctrl\_sm.c

\* G.8032 ERP Controller state machine

\*

\* July 2010, Viet Nguyen

\*

\* Copyright (c) 2010-2020 by Cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_ctrl\_sm.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* erp\_io.sm - Ethernet Ring Protection Controller state machine

\*

\* June 2010, Viet Nguyen

\*

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\* All rights reserved.

\*-----

\*/

XOS\_SM\_EVENTLIST\_BEGIN

XOS\_SM\_EVENT(init)

XOS\_SM\_EVENT(clear)

XOS\_SM\_EVENT(fs)

XOS\_SM\_EVENT(aps\_fs)

XOS\_SM\_EVENT(local\_sf)

XOS\_SM\_EVENT(local\_clear\_sf)

XOS\_SM\_EVENT(aps\_sf)

XOS\_SM\_EVENT(aps\_ms)

XOS\_SM\_EVENT(ms)

```
XOS_SM_EVENT(wtr_expires)
XOS_SM_EVENT(wtb_expires)
XOS_SM_EVENT(aps_nr_rb)
XOS_SM_EVENT(aps_nr)
XOS_SM_EVENT(ack)
XOS_SM_EVENTLIST_END
```

```
/*
 * State machine states
 * - Init,
 * A_Idle,
 * B_Protection,
 * C_ManualSwitch,
 * D_ForcedSwitch,
 * E_Pending
 */
```

```
XOS_SM_STATE_BEGIN(init)
  XOS_SM_TRANSITION(init, erp_io_sm_action_init,
init) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_io_sm_action_init_ack, E_Pending)
XOS_SM_STATE_END
```

```
XOS_SM_STATE_BEGIN(A_Idle)
  XOS_SM_TRANSITION(clear, erp_io_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, A_Idle) /* wait ack
 */
  XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_io_sm_action_A_Idle_ack, A_Idle)
  XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END
```

```
XOS_SM_STATE_BEGIN(B_Protection)
  XOS_SM_TRANSITION(clear, erp_io_sm_action_null, B_Protection)
  XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_local_clear_sf, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, B_Protection) /* wait ack */
```

```

XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, B_Protection) /* wait
ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_B_Protection_ack, B_Protection)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(C_ManualSwitch)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, C_ManualSwitch)
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms,
C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_C_ManualSwitch_ack, C_ManualSwitch)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_null, D_ForcedSwitch)
/* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_D_ForcedSwitch_ack, D_ForcedSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(E_Pending)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, E_Pending) /* wait ack */

```

```
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_wtr_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_wtb_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_E_Pending_ack, E_Pending)
XOS_SM_STATE_END
```

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_io.sm

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_pdb.h
* G.8032 Profile Database
*
* July 2010, Mark Bilstad
*
* Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_pdb.c

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_common.c - ERP common code
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2011 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_common.c

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_debug.c - G.8032 Ethernet Ring Protection debug routines
*
* June 2010, Viet Nguyen
*
* Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

`/opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_debug.c`

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_io_pak.c - ERP IO packet handling source file
*
* August 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

`/opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_io_pak.c`

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_ctrl.sm - Ethernet Ring Protection Controller state machine
*
* June 2010, Viet Nguyen
*
* Copyright (c) 2010-2011, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

XOS\_SM\_EVENTLIST\_BEGIN

```
XOS_SM_EVENT(init)
XOS_SM_EVENT(clear)
XOS_SM_EVENT(fs)
XOS_SM_EVENT(aps_fs)
```

```
XOS_SM_EVENT(local_sf)
XOS_SM_EVENT(local_clear_sf)
XOS_SM_EVENT(aps_sf)
XOS_SM_EVENT(aps_ms)
XOS_SM_EVENT(ms)
XOS_SM_EVENT(wtr_expires)
XOS_SM_EVENT(wtb_expires)
XOS_SM_EVENT(aps_nr_rb)
XOS_SM_EVENT(aps_nr)
XOS_SM_EVENT(ack)
XOS_SM_EVENTLIST_END
```

```
/*
 * State machine states
 * - Init,
 * A_Idle,
 * B_Protection,
 * C_ManualSwitch,
 * D_ForcedSwitch,
 * E_Pending
 */
```

```
XOS_SM_STATE_BEGIN(init)
  XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init,
init) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_init_ack, E_Pending)
XOS_SM_STATE_END
```

```
XOS_SM_STATE_BEGIN(A_Idle)
  XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb,
A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_A_Idle_ack, A_Idle)
  XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END
```

```
XOS_SM_STATE_BEGIN(B_Protection)
  XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
```



```

XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
    B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_local_clear_sf,
    B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null,
B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_B_Protection_ack, B_Protection)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(C_ManualSwitch)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs,
    C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
    C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf,
erp_ctrl_sm_action_null, C_ManualSwitch)
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf,
    C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_C_ManualSwitch_ack,
    C_ManualSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, D_ForcedSwitch)
/* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */

```

```

XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_D_ForcedSwitch_ack,
    D_ForcedSwitch)
XOS_SM_STATE_END

```

```

XOS_SM_STATE_BEGIN(E_Pending)

```

```

    XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, E_Pending) /* wait ack */
    XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, E_Pending) /* wait ack */
    XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, E_Pending) /* wait ack */
    XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
        E_Pending) /* wait ack */
    XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, E_Pending) /* wait ack */
    XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, E_Pending) /* wait ack */
    XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, E_Pending) /* wait ack */
    XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, E_Pending) /* wait ack */
    XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_wtr_expires,
        E_Pending) /* wait ack */
    XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_wtb_expires,
        E_Pending) /* wait ack */
    XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb,
        E_Pending) /* wait ack */
    XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, E_Pending) /* wait ack */
    XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_E_Pending_ack, E_Pending)
    XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

```

Found in path(s):

```
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ctrl.sm
```

No license file was found, but licenses were detected in source scan.

```

/*
*-----
* erp_ctrl.c - ERP Controller common code
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2014, 2016-2019, 2021 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ctrl.c
```

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_ridb.c
* G.8032 Ring/Instance Database
*
* July 2010, Mark Bilstad
*
* Copyright (c) 2010-2014, 2016, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ridb.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* erp_io_ha.c - ERP IO HA common code
*
* Sep 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2011 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_io_ha.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* erp_cfg_parser.c - ERP config parser code
*
* August 2011
*
* Copyright (c) 2011-2012, 2016-2017, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_cfg_parser.c
No license file was found, but licenses were detected in source scan.
```

```

/*
*-----
* erp_io_sm.c
* G.8032 ERP IO state machine
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2012, 2014-2017, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_io_sm.c
```

No license file was found, but licenses were detected in source scan.

```

/*
*-----
* erp_pd_caps_stubs.c - ERP Controller stub file
*
* July 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2011 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_pd_caps_stubs.c
```

# 1.159 util-linux 2.32.1-26.el8

## 1.159.1 Available under license :

NR	START	END	SECTORS	SIZE	NAME	UUID
1	32	7679	7648	3.7M	8f8378c0-01	
2	7680	16383	8704	4.3M	8f8378c0-02	
5	7936	12799	4864	2.4M		
6	12544	16127	3584	1.8M		

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```
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under certain conditions; type `show c' for details.
```

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*/
```

# 1.160 libpwquality 1.4.4-1.el8

## 1.160.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* pw_const.tph
*
* Copyright (c) 2019 by Cisco Systems, Inc.
* All rights reserved.
*/
```

```
@DIRECTIVES{
    auto_import_stg = false;
    skip_auto_tdl_include = true;
}@
```

```
@IMPORT_STG{
    import "constant_gen.stg";
}@
```

```
@TDL{
    import "pw_const.tdl"
}@
```

```
@CODE{
```

```
#ifndef __TDLG_GEN_PW_CONST_H__
#define __TDLG_GEN_PW_CONST_H__
```

```
    $constant_generate()$
```



```
#endif /* __TDLC_GEN_PW_CONST_H__ */
```

```
}@
```

Found in path(s):

```
*/opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/include/pw_const.tph
```

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```
/*
```

```
*/ pw.c
```

```
*/
```

```
*/ AAA password routines, adopted from IOX
```

```
*/
```

```
*/ January 2005, Naiming Shen
```

```
*/ July 2005, Craig MacFarlane
```

```
*/
```

```
*/ Copyright (c) 2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
```

```
*/ All rights reserved.
```

```
*/
```

```
*/-----
```

```
*/ pw.c -- password encryption/decryption routines
```

```
*/
```

```
*/ May 08 2000, Mark Eklund
```

```
*/
```

```
*/ Copyright (c) 2002-2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
```

```
*/ All rights reserved.
```

```
*/-----
```

```
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/src/pw.c
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
*/ pw.h
```

```
*/
```

```
*/ Password routines, adopted from IOX
```

```
*/
```

```
*/ May 2000 Mark Eklund
```

```
*/ July 2005, Craig MacFarlane
```

```
*/
```

```
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```

```
*/ All rights reserved.
```

```
*/
```

```
/*
```

```
*/ edt: * pw_type_t
```

```
*/ Possible formats of saving the password in SysDB.
```

```
*/
```

```
* item: PW_TYPE_CLEAR
*   The password in the clear, visible for anybody.
*
* item: PW_TYPE_1WAY
*   The password encrypted to an MD5 digest. This is not reversible.
*
* item: PW_TYPE_1WAY_2
*   The password encrypted to an sha256 digest. This is not reversible.
*
* item: PW_TYPE_2WAY
*   The Cisco type 7 password encryption. This is reversible
* by both Cisco products and several public domain programs.
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/include/pw.h
No license file was found, but licenses were detected in source scan.
```

```
/*
* pw_defs.h
*
* Password defines.
*
* July 2005, Craig MacFarlane
*
* Copyright (c) 2005, 2007, 2010, 2014, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/include/pw_defs.h
No license file was found, but licenses were detected in source scan.
```

```
# All rights reserved.
```

Found in path(s):

```
* /opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/Makefile.bin
```

# 1.161 shadow-utils 4.6-12.el8

## 1.161.1 Available under license :

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```
# This program is the proprietary software of Broadcom Corporation
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```

Found in path(s):

\* /opt/cola/permits/1130449954\_1615183583.0/0/shadow-tar/shadow/Makefile

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: port.c 1.11 Broadcom SDK \$

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\* ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.\$

```
*
* File:    port.c
* Purpose: Manages untagged priority setting for port
*/
```

Found in path(s):

```
* /opt/cola/permits/1130449954_1615183583.0/0/shadow-tar/shadow/port.c
```

# 1.162 python 3.6.8-34.el8

## 1.162.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
# * Copyright (c) 2010-2014 by cisco Systems, Inc. All rights reserved.
```

Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/AppEvent.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/CLIEvent.py
```

No license file was found, but licenses were detected in source scan.

```
# This software released into the public domain. Anyone is free to copy,
```

Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/win_inet_pton.py
```

No license file was found, but licenses were detected in source scan.

```
# * All rights reserved.
```

Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/container/cshandler.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/FirewallService.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/nat.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/pfr/pfr_test.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/pfr/pfrconfig.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/pfr/pfrproper.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/sample.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/advancedrouting/config.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/container/cs.py
```

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```
# to you under the Apache License, Version 2.0 (the
```

```
# "License"); you may not use this file except in compliance
```

```
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```

```
# http://www.apache.org/licenses/LICENSE-2.0
```

```
# software distributed under the License is distributed on an
```

Found in path(s):

```

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/TSerialization.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/TProtocol.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/TProcessPoolServer.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/TBase.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/Thrift.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TTwisted.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TTransport.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/TServer.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/TBinaryProtocol.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/TCompactProtocol.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TSSLSocket.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/TCons.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/TNonblockingServer.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/THttpClient.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TSocket.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TZlibTransport.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/THttpServer.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/__init__.py
No license file was found, but licenses were detected in source scan.

```

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Found in path(s):

```

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/L2Acl.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/ntp/ntp_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policyservice/caps.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/dhcp/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/Version.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/dns.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/aaa/OnepAAAAttributeType.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/onep/interfaces/InterfaceAddressChangeEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/L3Acl.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/onep/interfaces/InterfaceCreateDeleteListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/event/EventManager.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStatus.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/tools/release_Acl.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/tunnels/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/policyservice/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStatisticsListener.py

```

- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/ConnectionEvent.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/event/KeepaliveMonitor.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/FRU.py
- \*
- /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/exception/ConfigFailedException.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/policy/utest\_l2\_acl.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/container/csevent.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/aaa/AddressAttribute.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/AppListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/util/LicensingService.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/applmgmt/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/location/location.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/crypto/test\_ike.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-
- tar/python/onep/interfaces/InterfaceAddressChangeFilter.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/crypto/\_\_init\_\_.py
- \*
- /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/policy/utest\_l3\_acl.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/SyslogFilter.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/tunnels/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/SessionHandle.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/crypto/ipsec.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/crypto/ike.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-
- tar/python/onep/core/exception/OnepIllegalArgumentException.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/policy/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/mediatrace/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/policy/utest\_filter\_acl.py
- \*
- /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/util/Period.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/event/EventListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/interfaces/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/routing/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/applmgmt/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStatisticsFilter.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/core/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStateListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/CLIListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/policyservice/statistics.py
- \*
- /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceMtuListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/vrf.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/util/ntp.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/element/element\_tls\_Test.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/cdp/CDPListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/tunnels/tunnel.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/NetworkPrefix.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/location/\_\_init\_\_.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/ConnectionListener.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/transport/TTIPCSocket.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/vty/\_\_init\_\_.py  
 \*  
 /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/event/EventObject.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/ElementProperty.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/util/logger.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/policy/Acl.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/policyservice/bulk\_qos\_test.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/ApplyFilter.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/policyservice/classmap.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStatisticsEvent.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/NetworkApplication.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStateEvent.py  
 \*  
 /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/ElementConfig.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/aaa/Attribute.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/tools/ADT\_setup.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/aaa/IntAttribute.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/util/HostIpCheck.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/tools/release\_L3Acl.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-  
 tar/python/onep/interfaces/InterfaceCreateDeleteEvent.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/SyslogEvent.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/exception/OnepException.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/core/licensing/licensing\_test.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/policyservice/match.py  
 \*  
 /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/SessionStatistics.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/aaa/Server.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/exception/\_\_init\_\_.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/topology/\_\_init\_\_.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/discovery/\_\_init\_\_.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/policyservice/policymap.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/policyservice/target.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/policyservice/action\_test.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/setup.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/licensing/licensing\_Test.py  
 \*  
 /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/event/EventFilter.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-  
 tar/python/onep/core/exception/OnepConnectionException.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/event/AsyncMsg.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/tools/customer\_setup.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceProperty.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/element/element\_Test.py  
 \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/SessionConfig.py

```

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/container/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/batch_helper.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/aaa/User.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/vty/VtyListener.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policyservice/bulk.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/aaa/StringAttribute.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/onep/core/exception/OnepDuplicateElementException.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/discovery/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/internal.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/vty/VtyService.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/cdp/CDPEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/identity/identity.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/interfacestatspoll.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/L3Ace.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/vty/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/discovery/ServiceSetDescription.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/vty/VtyData.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/vty/VtyProxy.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/onep/interfaces/InterfaceBandwidthListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/vty/util.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVrfListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/__init__.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/NetworkInterface.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/cdp/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/container/csdata.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/CiscoTSSL.Socket.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/aaa/BinaryAttribute.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/NetworkElement.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/dhcp/dhcp_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/element/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/topology/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/OnepConstants.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStatistics.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/aaa/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/onep/interfaces/InterfaceAddressChangeListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/tools/release_vty_proxy.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-

```



```
tar/python/onep/core/exception/OnepInvalidSettingsException.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/SyslogListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/L2Ace.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/dhcp/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/tools/internal_setup.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/socket_imp.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/crypto/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVlanListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceConfig.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/onep/core/exception/OnepRemoteProcedureException.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/router.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/pfr/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/crypto/crypto.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/cdp/CDPFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/Vlan.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceCreateDeleteFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/SessionProperty.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/mediatrace/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/event/EventDispatcher.py
No license file was found, but licenses were detected in source scan.
```

<url><http://www.apache.org/licenses/LICENSE-2.0.txt></url>

Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/lib/ant/pyanttasks-1-3-3-jar/META-INF/maven/org.pyant.tasks/pyAntTasks/pom.xml
```

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Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/OIRFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/OIREvent.py
```

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Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/basetest.py
```

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```
/*-----
```

```
* README
```

```
*
```

```
* Cisco ONE-P Python SDK
```

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\*-----  
\*/

#### Introduction:

-----

The APIs contained in these modules allow the developer to design controller applications that interface to compatible Cisco network elements. These applications will be able to configure the element and retrieve statistics.

#### WARNING:

It is suggested that the developer be very knowledgeable of the network element configuration before applying. You can bring down a production network with the wrong setup!

#### onePK Python API Reference:

-----

The onePK Python API Reference is provided in HTML format and can be found in the docs directory. Open the index.html with a web browser.

#### Installing Modules

-----

#### Must

have Python version 2.7.

From root of uncompressed directory type:

```
python setup.py install
```

This will install the SDK modules in the standard directory.

If you wish to locate the modules into a custom directory:

```
python setup.py install --prefix="<your custom directory>"
```

Alternatively, pip can be used to install the SDK.

```
pip install <sdk_tar>
```

Pip can also be used to uninstall the sdk

```
pip uninstall onep-python-sdk
```

This will install the SDK modules in :

```
<your custom directory>/lib/python2.7/site-packages/onep
```

Be sure that your custom directory is included in the PYTHONPATH.

## Creating Application

-----

Must have a Cisco network device capable of communicating with ONE-P APIs. Network Element must also have onep configured with the socket transport and have the correct onep services activated. A network interface must be configured with a valid IP address and pingable.

First step to communicate with network element is to connect. See sample.py

for a very basic example. You should be able to run:

```
./sample.py
```

## Usage:

```
sample.py -a <element address or FQDN> [-t <transport_type>] \  
  [-C <client cert file> -K <client private key file> \  
  -R <root certificates file>]
```

-a <ip\_addr or FQDN> Network element's IP Address or Fully Qualified Domain Name

-t <tls|tipc> Transport type. Default is TLS connection

-C <clientcert.pem> Client certificate file required TLS connection  
(default location ./clientcert.pem)

-K <clientkey.pem> Client private key file required for TLS connection  
(default location ./clientkey.pem)

-R <nerootca.pem> Root certificate file required for TLS connection  
(default location ./nerootca.pem)

The application will prompt the user to enter username and password that are configured on the network element you are connecting to.

For more information on how to use TLS connection please refer to the

Getting Started Guide.

Happy Scripting!

Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/README
```

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Found in path(s):

- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/routing/RouterTest.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/applmgmt/ApplicationExecCliListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/mediatrace/mtrace.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/dhcp/dhcp.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/applmgmt/ApplicationConfigCliListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/routing/PSSession.py

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Found in path(s):

- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/core/tlspinningtest.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/core/enumtest.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/util/tlspinning.py

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Found in path(s):

- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/discovery/DiscoveryListener.py

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Found in path(s):

- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/AppRouteTable.py

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Found in path(s):

- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/CLIFilter.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/OIRListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/ConnectionProperty.py

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Found in path(s):

- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/policy/action.py

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Found in path(s):

- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/RoutingServiceStatusListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/UpdateRouteResponseListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/topology/TopologyListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/RouteRange.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/RouteOperation.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/RIBFilter.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRouteOperation.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/RIBRouteStateListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/ARTRouteStateListener.py
- \*
- /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/NextHop.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/ReplayRouteEventListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRouteRange.py

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Found in path(s):

- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/interfaces/StatisticsListeners\_Test.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/interfaces/AddressChangeEvent\_Test.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVrfFilter.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/interfaces/InterfaceFilter\_Test.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/applmgmt/CliExtension\_Test.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/interfaces/NetworkInterface\_Test.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceMtuEvent.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/applmgmt/ApplicationCli.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/interfaces/InterfaceCreateDeleteEvent\_Test.py
- \*
- /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/interfaces/InterfaceStateEvent\_Test.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/interfaces/InterfaceStatisticsEvent\_Test.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/interfaces/InterfaceStatisticsFilter\_Test.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceBandwidthEvent.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/interfaces/InterfaceVlanChangeEvent\_Test.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/interfaces/InterfaceMTUEvent\_Test.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVlanEvent.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/applmgmt/ApplicationCliData.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceMtuFilter.py
- \*

```
/opt/cola/permits/1130449986_1615182707.44/0/python-  
tar/python/test/interfaces/InterfaceCreateDeleteFilter_Test.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-  
tar/python/test/interfaces/InterfaceAddressChangeFilter_Test.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVrfEvent.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVlanFilter.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-  
tar/python/test/interfaces/InterfaceVrfChangeEvent_Test.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-  
tar/python/test/interfaces/InterfaceBandwidthEvent_Test.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceBandwidthFilter.py  
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```

```
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```
Found in path(s):
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Node.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIB.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/Scope.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyFilter.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RoutingServiceStatusEvent.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/UpdateRouteResponse.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Edge.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastNextHop.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyClass.py  
*  
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRoute.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RoutingClass.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRIBFilter.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyEvent.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/IdlConverter.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/NodeConnector.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIBRouteStateEvent.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/Route.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Graph.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/ReplayRouteEvent.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/ARTRouteStateEvent.py  
*  
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastScope.py  
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```

```
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```

```
Found in path(s):
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/discovery/DiscoveryEvent.py  
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/discovery/DiscoveryFilter.py
```

# 1.163 gzip 1.9-11.el8

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library `Frob' (a library for tweaking knobs) written by James  
Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

# 1.165 libxslt 1.1.32-6.el8

## 1.165.1 Available under license :

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## 1.166 iproute 5.9.0-1.el8

### 1.166.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* msg_iproute.c - Message file for iproute facility
*
* July 17, 1990, Kevin Paul Herbert
*
* Copyright (c) 1990-2013, 2015-2017, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/msg\_iproute.rc

No license file was found, but licenses were detected in source scan.

```
/*-----
```

```
* router_af_actions_registry.c
*
* Router address family actions registry.
*
* May 2002, Victor Kamensky
*
* Copyright (c) 2002-2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_af_actions_registry.c
No license file was found, but licenses were detected in source scan.
```

```
/* $id: iprouting_actions.c,v 3.2.60.2 1996/08/23 22:02:29 jserpa Exp $
* $Source: /release/112/cvs/Xsys/iprouting/iprouting_actions.c,v $
*-----
* IP routing specific parsing functions.
*
* August 1994, Bruce Cole
*
* Copyright (c) 1994-2010, 2012, 2015, 2017-2018 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: iprouting_actions.c,v $
* Revision 3.2.60.2 1996/08/23 22:02:29 jserpa
* CSCdi67021: router ospf <as> gets nv-ramed in reverse order of
* configuration
* Branch: California_branch
*
* Revision 3.2.60.1 1996/04/15 21:18:11 bcole
* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
*
* Revision 3.2 1995/11/17 17:34:38 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09
 12:08:28 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/06/07 21:07:33 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
```

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_actions.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* iprouting\_registry.c

\*

\* September 2001, Fan Kong

\*

\* Copyright (c) 2001, 2003, 2005, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_registry.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id: iprouting\_setup.c,v 3.4.4.1 1996/06/28 01:21:03 snyder Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/iprouting\_setup.c,v \$

\*-----

\* IP Routing setup commands

\*

\* May 1993, Robert Widmer

\*

\* Copyright (c) 1993-2002, 2007-2008, 2010 by cisco Systems, Inc.

\* All rights reserved.

\*

\*-----

\* \$Log: iprouting\_setup.c,v \$

\* Revision 3.4.4.1 1996/06/28 01:21:03 snyder

\* CSCdi61601: fix some char \* that should have been char [] in iprouting

\* Branch: California\_branch

\*

\* You get space back for the pointer

\* You get space back for each reference

\* You get bytes out of data space

\*

\* Revision 3.4 1996/03/09 22:56:04 widmer

\* CSCdi47890: HTTP server doesnt work

\* Add HTTP server

\*  
\* Revision 3.3 1995/11/28 03:58:38 widmer  
\*  
CSCdi44175: Add setup\_printf to replace sprintf in setup code  
\*

\* Revision 3.2 1995/11/17 17:34:53 hampton  
\* Remove old entries from the RCS header logs.  
\*

\* Revision 3.1 1995/11/09 12:08:42 shaker  
\* Bump version numbers from 2.x to 3.x.  
\*

\* Revision 2.1 1995/06/07 21:07:55 hampton  
\* Bump version numbers from 1.x to 2.x.  
\*

\*-----  
\* \$Endlog\$  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_setup.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$  
\* \$Source\$  
\*-----  
\* cfg\_route\_default.h  
\*  
\* September 2016, Yingzhen Qu  
\*  
\* Copyright (c) 2016 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\* \$Log\$  
\*-----  
\* \$Endlog\$  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_route\_default.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router\_timers.h,v 3.2.60.1 1996/04/15 21:17:46 bcole Exp \$  
\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_timers.h,v \$  
\*-----  
\* C F G \_ R O U T E R \_ T I M E R S . H  
\*  
\* Copyright (c) 1992-1999, 2002, 2004-2011, 2018 by cisco Systems, Inc.  
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```

*-----
* $Log: cfg_router_timers.h,v $
* Revision 3.2.60.1 1996/04/15 21:17:46 bcole
* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
*
* Revision 3.2 1995/11/17 17:32:28 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:06:09 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:16:04 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:13:13 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_timers.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$
*-----
* cfg_routemap_match_ip.h -- IP specific route-map clauses
*
* March 1995 Tony Li
*
* Copyright (c) 1995-1998, 2000-2002, 2004-2005, 2007-2010, 2014 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_match_ip.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$

```

```
* $Source$
*-----
* cfg_router_input-queue.h
*
* September 1997, Dawn Li
*
* Copyright (c) 1997-2002, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_input-queue.h
```

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* cfg_router_topology_mode.h - router topology configuration sub mode
*   commands.
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_topology_mode.h
```

No license file was found, but licenses were detected in source scan.

```
/*-----
* routemap_api.h -- Dynamic routemap API definitions.
*
* May 2003, Tanya Shastri
*
* Copyright (c) 2003, 2005-2009, 2011, 2013, 2015, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routemap_api.h
```



No license file was found, but licenses were detected in source scan.

```
/*
*-----
* msg_routemap.c -- Message system definitions for Route-map
*
* Copyright (c) 2003, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/msg\_routemap.c

No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* iprouting_init_ionized.c - ION specific IP Routing Protocol support.
*
* September 2001, Chandra Appanna
*
* Copyright (c) 2001-2012 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_init\_ionized.c

No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* IP routing clear commands
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-1999, 2001-2002, 2004-2010 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
```

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/exec\_clear\_ip\_routing.h  
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* iprouting_debug.c -- Debugging routines for IP routing
*
* May 1993, John Bashinski
*
* Copyright (c) 1993-2010, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_debug.c  
No license file was found, but licenses were detected in source scan.

```
/*
*
*-----
* Generic route tag list support.
*
* June 2011, Karthik Subramaniam
*
* Copyright (c) 1997-2008, 2010-2012 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/routetag\_list.h  
No license file was found, but licenses were detected in source scan.

```
/*
*-----
* C F G _ R O U T E R _ B F D . H
*
* Copyright (c) 2004-2008, 2010-2011, 2015 by cisco Systems, Inc.
* All Rights Reserved
```

\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_router\_bfd.h

No license file was found, but licenses were detected in source scan.

/\*  
\*-----

\* route\_map\_ion.h - Route map support data structures specific to ION.

\*

\* January 2002, Siva Yaragalla

\*

\* Copyright (c) 2002-2009, 2011 by cisco Systems, Inc.

\* All rights reserved.

\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/route\_map\_ion.h

No license file was found, but licenses were detected in source scan.

/\*  
\*-----

\* network\_constants.h -- General Networking Constants

\*

\* June 2002, interest-idb

\*

\* Copyright (c) 2002-2004, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/network\_constants.h

No license file was found, but licenses were detected in source scan.

/\*-----

\* route3\_blob.c

\*

\* IOS and blob specific route3.c parser functions.

\*

\* March 2002, Victor Kamensky

\*

\* Copyright (c) 2002-2003, 2005, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route3\_blob.c

No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router.h,v 3.2.60.2 1996/08/12 16:03:38 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router.h,v \$

\*-----

\* C F G \_ R O U T E R . H

\*

\* Enter router subcommand mode

\*

\* Copyright (c) 1992-2002, 2005, 2007-2009, 2015, 2017-2018 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: cfg\_router.h,v \$

\* Revision 3.2.60.2 1996/08/12 16:03:38 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

\* Remove hidden keyword help strings

\*

\* Revision 3.2.60.1 1996/04/15 21:17:43 bcole

\* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature

\* commit

\* Branch: California\_branch

\*

\* Revision 3.2 1995/11/17 17:31:56 hampton

\* Remove old

entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:05:20 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.1 1995/07/01 12:15:46 tli

\* CSCdi36508: Rationalize parser file placement, part I

\* Rationalize iprouting

\*

\* Revision 2.1 1995/06/07 22:12:17 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_router.h

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* routemap_debug_flags.h -- Routemap debugging support
*
* July 1998, Wilber Su
*
* Copyright (c) 1998, 2004, 2007-2008, 2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/routemap\_debug\_flags.h

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* IOS prefix list support.
*
* March 2005, Sarath Chandran
*
* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_ios.c

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* cfg_router_auto_summary.h
*
* October 1993
*
* Copyright (c) 1993-1996, 1999-2009 by cisco Systems, Inc.
* All rights reserved.
*
* Supports the router subcommand "auto-summary". Configures auto aggregation
* of routing information to the network number level.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_auto_summary.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* router_topology_chain.c - Parser chains of router topology sub mode
*   for multi-topology routing support
*   Sept 2004, Mercia Zheng
*
* Copyright (c) 2004-2010, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_topology_chain.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* routing_context.c
*
* This file has global definitions for routing context support
* common to blob and iprouting proceses.
*
* March 2009, Derek Yeung
*
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routing_context.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: cfg_routemap_set_policy.h,v 3.3.52.1 1996/05/21 09:53:12 thille Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_routemap_set_policy.h,v $
*-----
* cfg_routemap_set_policy.h -- Policy specific route map clauses
*
* Mar 1995 Tony Li
*
* Copyright (c) 1995-1996, 2000, 2002, 2004, 2007-2009 by cisco Systems, Inc.
```

```

* All rights reserved.
*-----
* $Log: cfg_routemap_set_policy.h,v $
* Revision 3.3.52.1 1996/05/21 09:53:12 thille
* CSCdi51599: multiple /interface/ literals bloat code.
* Branch: California_branch
* Save another 392 bytes by doing away with duplicate literals.
*
* Revision 3.3 1995/11/28 19:50:39 widmer
* CSCdi44251: Replace Ifelse(csb->in_help)/Eval with Func
*
* Revision 3.2 1995/11/17 17:31:55 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:18 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.3 1995/06/21 18:16:03 widmer
* CSCdi36227: Fix parse chain alternates
*
* Revision 2.2 1995/06/15 15:18:47 widmer
* CSCdi35889: parser transition structures should be static
*
* Revision 2.1 1995/06/07 21:05:42 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/cfg_routemap_set_policy.h
No license file was found, but licenses were detected in source scan.

```

/\*

```

*-----
* route_map_registry.h -- Registration Points for Route Maps support in ION
*
* July 2001, Siva Yaragalla
*
* Copyright (c) 2001, 2003, 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/route_map_registry.h

```

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* route_map_nbcmn.c -- Route map support non-Blob common routines
*
* October 2001, Siva Yaragalla
*
* Copyright (c) 2001-2013, 2018, 2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route\_map\_nbcmn.c

No license file was found, but licenses were detected in source scan.

```
/*-----
* routing_context.h - Routing Context library API
*
* March 2009, Derek Yeung
*
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/routing\_context.h

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* routemap_track_ios.c -- Route map support for tracking
*           Functions shared by rp & vip.
*
* March 2003 Shyan Wignarajah
*
* Copyright (c) 2003-2010, 2013-2014, 2016 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_track\_ios.c

No license file was found, but licenses were detected in source scan.

```
/*
```



```
*-----
* IP routing table flap statistics collection facility.
*
* Nov 1996, Ravi Chandra
*
* Copyright (c) 1995-1998, 2001-2005, 2007-2010 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_stats.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* route_capability.h
*
* August 2003, Peter Psenak
*
* Copyright (c) 2003-2004, 2007-2009, 2011, 2015 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/route_capability.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* route_map_registry.c
*
* July 2001, Siva Yaragalla
*
* Copyright (c) 2001, 2003, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_registry.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* cfg_routemap_set_ip.h -- IP specific route-map clauses
*

```

```
* Mar 1995 Tony Li
*
* Copyright (c) 1995-1998, 2000-2004, 2006-2013, 2016, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_set_ip.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* routemap_internal.h
*
* Route map support data structures.
* To be included only by routemap code.
*
* Copyright (c) 1986-2003, 2005-2009, 2011, 2013-2015, 2018 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routemap_internal.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: cfg_ip_prefixlist.h,v 3.1.2.2 1998/02/23 19:43:42 enkechen Exp $
* $Source: /release/111/cvs/Xsys/ip/cfg_ip_prefixlist.h,v $
*-----
* cfg_ip_prefix.h -- IP Prefix List Parser Commands
*
* June 1997, Enke Chen
*
* Copyright (c) 1997-2001, 2004, 2007-2008, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: cfg_ip_prefixlist.h,v $
* Revision 3.1.2.2 1998/02/23 19:43:42 enkechen
* CSCdj75270: Prefix-list: optimization for downloading large lists
* Branch: FIB_branch
*
* Revision 3.1.2.1 1997/12/17 21:36:57 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
```

\*  
\* Revision 3.1 1997/12/17 01:46:33 enkechen  
\* Start with the new file.

\*  
\*-----  
\* \$Endlog\$  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_ip\_prefixlist.h

No license file was found, but licenses were detected in source scan.

/\* \$Id\$  
\* \$Source\$  
\*-----  
\* cfg\_router\_flash-threshold.h  
\*  
\* January 1998, 2001 Dawn Li  
\*  
\* Copyright (c) 1998-1999, 2001, 2007-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\* \$Log\$  
\*-----  
\* \$Endlog\$  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_flash-threshold.h

No license file was found, but licenses were detected in source scan.

/\*  
\*-----  
\* routemap\_ios.c -- Route map support routines that can be shared  
\* by RP and VIP/LC  
\*  
\* July 1998 Wilber Su  
\*  
\* Copyright (c) 1998-2020 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_ios.c

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* policylist_ios.c - IOS stubs for notification routines
*     in policylist code
*
* Jun 2005, Tony P. Ambalathingal
*
* Copyright (c) 2003, 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/policylist_ios.c
```

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* route_map_http_ion.c
*
* March, 2003 Phil Winterfield
*
* Copyright (c) 2003-2004, 2006-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_http_ion.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----
* route_map_globs.c
*
* This file has the route map globals common to blob (for lc images)
* and routing process(for routing images).
*
* Copyright (c) 2002-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_globs.c
```

No license file was found, but licenses were detected in source scan.

# All rights reserved.

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/reg/route_map_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/reg/router_topology_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/makefile
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/reg/ion_iprouting_cmd_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/reg/router_af_actions_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/.signature/makefile
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/reg/routing_context_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/reg/iprouting_registry.reg
*
/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/reg/lfafr_registry.reg
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* ip_prefixlist_ion.h - IP Prefix Lists support for ION
*
* June 2002, Siva Yaragalla
*
* Copyright (c) 2002, 2005, 2007-2017 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/ip_prefixlist_ion.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: cfg_router_distribute.h,v 3.3.50.2.6.1 1996/09/12 19:08:19 perry1 Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_distribute.h,v $
*-----
* C F G _ R O U T E R _ D I S T R I B U T E . H
*
* Copyright (c) 1992-2001, 2003-2012, 2015-2016, 2018 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log: cfg_router_distribute.h,v $
* Revision 3.3.50.2.6.1 1996/09/12 19:08:19 perry1
* Branch: Att-branch
* Allow virtual-access interface for distribute-list
*
* Revision 3.3.50.2 1996/08/12 16:03:44 widmer
```

```

* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3.50.1 1996/05/04 01:21:18 wilber
* Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
*
* Name Access List
*
* Revision 3.3 1995/12/04 06:47:13 tli
* CSCdi43559: IP: distribute-list 101 out should work
*
* Revision 3.2 1995/11/17 17:32:10 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:34 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:52 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:36 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_distribute.h

```

No license file was found, but licenses were detected in source scan.

```

/*
*-----
* policylist_blob.c - Routines to handle policy-list commands.
*           Common for IOS and ION Blob.
*
* November 2003, Siva Yaragalla
*
* Copyright (c) 2003-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----

```

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/policylist\_blob.c  
No license file was found, but licenses were detected in source scan.

/\*-----

\* ip\_stats.c - IP for topology aware stats

\*

\* April 2006, Jonsky Hsu

\*

\* Copyright (c) 2006-2010 by cisco Systems, Inc.

\* All rights reserved.

\*

/\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_stats.c  
No license file was found, but licenses were detected in source scan.

/\*-----

\* IP routemap test commands

\*

\* May 2003, Tanya Shastri

\*

\* Copyright (c) 2003, 2005-2008, 2011-2013, 2015, 2018-2019 by cisco Systems, Inc.

\* All rights reserved.

\*

/\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/exec\_test\_ip\_routemap.h  
No license file was found, but licenses were detected in source scan.

/\*-----

\* route\_map\_def.h - Route Map Tyep Definition

\*

\* Feb, 2006 Allen Hu

\*

\* Copyright (c) 2006-2008, 2017 by cisco Systems, Inc.

\* All rights reserved.

/\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/route\_map\_def.h

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* ip_prefixlist_ionized.c - IP Prefix Lists support for ionized processes
*
* August 2001, Siva Yaragalla
*
* Copyright (c) 2001-2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_ionized.c

No license file was found, but licenses were detected in source scan.

```
/*$Id: cfg_router_maximum-paths.h,v 3.2 1995/11/17 17:32:11 hampton Exp $
* $Source: /swt/cherf.111/ios/sys/iprouting/cfg_router_maximum-paths.h,v $
*-----
* cfg_router_maximum-paths.h
*
* <July> 1994 rchandra
*
* Copyright (c) 1994-2016, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: cfg_router_maximum-paths.h,v $
* Revision 3.2 1995/11/17 17:32:11 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:39 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:53 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:44 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_maximum-paths.h



No license file was found, but licenses were detected in source scan.

```
/*-----  
* router_af_actions.h  
*  
* Router Address Family action declarations.  
*  
* May 2002, Victor Kamensky  
*  
* Copyright (c) 2002, 2004-2005, 2007-2008 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/router_af_actions.h  
No license file was found, but licenses were detected in source scan.
```

```
/*-----  
* ion_iprouting_cmd_registry.c  
*  
* September 2001, Rashmi Shrivastava  
*  
* Copyright (c) 2001, 2003, 2005-2008 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ion_iprouting_cmd_registry.c  
No license file was found, but licenses were detected in source scan.
```

```
/*-----  
* protofltr.h  
*  
* Routing protocol filter manager Public API definitions  
*  
* Jan 2006, Mercia Zheng  
*  
* Copyright (c) 2005-2011, 2020 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/protofltr.h
```

No license file was found, but licenses were detected in source scan.

```
/* $Id$
 * $Source$
 *-----
 * cfg_router_validate.h
 *
 * Nob to allow user to decide whether or not system should sanity check
 * source IP address of incoming routing updates.
 *
 * March 1994, Bruce Cole
 *
 * Copyright (c) 1994-2002, 2007-2008 by cisco Systems, Inc.
 * All rights reserved.
 *-----
 * $Log$
 *-----
 * $Endlog$
 */
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_validate.h
```

No license file was found, but licenses were detected in source scan.

```
/* $Id: exec_show_route-map.h,v 3.2.60.1 1996/08/12 16:04:13 widmer Exp $
 * $Source: /release/112/cvs/Xsys/iprouting/exec_show_route-map.h,v $
 *-----
 * exec_show_route-map.h
 *
 * Copyright (c) 1993-1996, 1998, 2003-2008, 2011 by cisco Systems, Inc.
 * All rights reserved.
 *
 * Command parsing chain for "show route-map".
 *-----
 * $Log: exec_show_route-map.h,v $
 * Revision 3.2.60.1 1996/08/12 16:04:13 widmer
 * CSCdi65725: Create Eolns macro that defaults csb->which to 0
 * Branch: California_branch
 * Add Eolns and Nvgenns macro that default csb->which to 0
 * Remove hidden keyword help strings
 *
 * Revision 3.2 1995/11/17 17:33:31 hampton
 * Remove old entries from the RCS header logs.
 *
 * Revision 3.1 1995/11/09 12:07:29 shaker
 * Bump version numbers from 2.x to 3.x.
 *
```

```
*
Revision 2.1 1995/07/01 12:16:22 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:25:36 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/exec\_show\_route-map.h  
No license file was found, but licenses were detected in source scan.

```
/*
*-----
* routemap_debug.h -- Routemap debugging support
*
* July 1998, Wilber Su
*
* Copyright (c) 1998, 2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/routemap\_debug.h  
No license file was found, but licenses were detected in source scan.

```
/*
*-----
* exec_debug_routemapapi.h -- Debugging for Route-map API
*
* May 2003, Tanya Shastri
*
* Copyright (c) 2003-2004, 2007-2008, 2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/exec\_debug\_routemapapi.h  
No license file was found, but licenses were detected in source scan.

```
/* $Id$
```

```
* $Source$
*-----
* iprouting_commands.h -- Support for extern command function declaration
*
* September 2001, Rashmi Shrivastava
*
* Copyright (c) 2001-2010, 2013, 2016 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/iprouting_commands.h
No license file was found, but licenses were detected in source scan.
```

```
#-----
# iproutingcmn_router_cmd.run-doxygen -- Run-doxygen Configuration File for
#           IP Routing Common Router Commands
#
# December 2007, Chi Iong Ansjory
#
# Copyright (c) 2007-2008, 2012 by cisco Systems, Inc.
# All rights reserved.
#-----
```

```
#-----
# RUN-DOXYGEN CONFIG FILE
#
# The variables defined in this file are used by the run-doxygen script to
# execute doxygen and generate API documentation.
# This file will be sourced by a bourne shell script (/bin/sh)
# and so must follow the bourne shell script syntax
#
# This default configuration file is setup to work for the XOS project.
# If you want to reuse it, you must customize the properties below in order to
# make it work for your project.
#
# For more help contact doxygen-trolls@cisco.com
#-----
```

```
# The PROJECT_NAME variable is a single word (or a sequence of words surrounded
# by quotes) that should identify the project.
```

PROJECT\_NAME=IPROUTINGCMN\_ROUTER\_CMD

# The PROJECT\_NUMBER tag can be used to enter a project or revision number.  
# This could be handy for archiving the generated documentation or  
# if some version control system is used.

PROJECT\_NUMBER=0.1.0.2

# The latest version of doxygen can be picked on the shared storage  
# of the XOS/Component Framework team  
# This executable can only run on linux 2.6 !!!!  
#DOXYGEN=/auto/ios\_comp/tools/doxygen-1.5.4/bin/doxygen  
# Change this sanity check when doxygen will be supported for other hosts  
#host=`uname -s`  
#host\_version=`uname -r`  
#if [ \$host != "Linux" ]; then  
#echo "Error: this wrapper can only be executed from Linux"  
#exit  
#fi  
#if [ \$host\_version \< "2.6" ]; then  
#echo "Error:  
this wrapper requires Linux 2.6 or higher"  
#exit  
#fi  
#  
#  
# The location of the latex suite, this is needed only if the PDF  
# generation option is used (-f)  
# This binary is also only available on linux 2.6  
#  
#LATEX\_PATH=/auto/ios\_comp/tools/tetex/bin/i686-pc-linux-gnu  
#LATEX\_PATH=/usr/bin  
#  
#-----

# Use this variable to specify one or more wildcard pattern (like \*.cpp  
# and \*.h) to filter out the source-files in the directories.

FILE\_PATTERNS="ip\_stats.h iprouting\_debug.h router\_af\_actions\_registry.reg.h"

# Exclude all internal defines (defines used to guard against multiple  
# inclusions of the same header file)  
EXCLUDE\_SYMBOLS="\_\_\*\_H\_\_ reg\_add\* reg\_delete\* service\_\* reg\_used\* \  
\_reg\_add\* reg\_inv\_\* reg\_svr\* \_registry\_\* registry\* REG\_ELOG \*\_GEN\_ID \  
\*\_DEFINED \*\_argt \*\_res \  
bgp\* ospf\* debug\* route\_debug\* igrp\* ipcache\* ipproc\* ip\_mobile\* netred\* \  
iprouting\_acl DEBUG\_ROUTING\_PROT MISC\_DEBUG\_VARS \  
DEBUG\_ROUTING\*

```
ALTP_BGF* __DEBUG_FLAGS* \  
iprouting_debug_init iprouting_set_debug_array iprouting6_debug_list_command \  
iprouting_debug_list_command iprouting_nsap_debug_list_command \  
iprouting_debug_acl_notify \  
reg_invoke_address_family_action_get_entries \  
reg_invoke_address_family_action_nvgen_exit"
```

```
# When all symbols in a project start with a common prefix, by default all  
# symbols will be put under the same header in the alphabetical index.  
# The IGNORE_PREFIX tag can be used to specify one or more prefixes that  
# should be ignored while generating the index headers. This will allow  
# to spread the symbol index more evenly.
```

```
IGNORE_PREFIX="xos_XOS_"
```

```
# If the EXTRACT_ALL tag is set to YES doxygen will assume all entities in  
# documentation are documented, even if no documentation was available.  
# Private class members and static file members will be hidden unless  
# the EXTRACT_PRIVATE and EXTRACT_STATIC tags are set to YES
```

```
EXTRACT_ALL=YES
```

```
# If the EXTRACT_STATIC tag is set to  
# YES all static members of a file  
# will be included in the documentation.
```

```
EXTRACT_STATIC=YES
```

```
# If the HIDE_UNDOC_MEMBERS tag is set to YES, Doxygen will hide all  
# undocumented members of documented classes, files or namespaces.  
# If set to NO (the default) these members will be included in the  
# various overviews, but no documentation section is generated.  
# This option has no effect if EXTRACT_ALL is enabled.
```

```
HIDE_UNDOC_MEMBERS=NO
```

```
#-----
```

```
# VARIABLES RELATED TO DOXYGEN OUTPUT
```

```
# This is the root of the destination folder (local variable)  
# Note that the archive area and the workspace area do not have to share the  
# same destination root.
```

```
DST_BASE=/auto/ios_comp/iprouting_cmn
```

```
# This is the URL through which the DST_BASE folder can be accessed  
# from the intranet. This URL depends on the location of the storage.
```

```
# Contact IT to find out the correct URL.
```

```
# (Local variable)
```

```

URL_DST_BASE=http://sjc-filer29a-web/projects/ios_comp/iprouting_cmnn

#
---- WORKSPACE AREA
# Relative path (to DST_BASE) - used by OUTPUT_WORKSPACE (local variable)
WORKSPACE_FOLDER=api-docs

# This is the full pathame of the root under which all normal output folders will be located
OUTPUT_WORKSPACE=$DST_BASE/$WORKSPACE_FOLDER

# This is the URL of the above OUTPUT_WORKSPACE directory
# Only used for displaying where to access the documentation after the doxygen run
URL_WORKSPACE=$URL_DST_BASE/$WORKSPACE_FOLDER

# ---- ARCHIVE AREA
# Relative path (to DST_BASE) - used by OUTPUT_ARCHIVE (local variable)
ARCHIVE_FOLDER=archive/xoslib

# This is the full pathame of the root under which all archive output folders will be located
OUTPUT_ARCHIVE=$DST_BASE/$ARCHIVE_FOLDER

# This is the URL of the above OUTPUT_WORKSPACE directory
# Only used for displaying where to access the documentation after the doxygen run
URL_ARCHIVE=$URL_DST_BASE/$ARCHIVE_FOLDER

#-----
#
VARIABLES RELATED TO DOXYGEN INPUT

# This is the root of the API source code (local variable)
SRC_BASE=/vob/cisco.comp/routing/iprouting_cmnn

# This is the location of all the API public header files (or directories)
# In XOS all public header files are located in one directory
API_PUBLIC="$SRC_BASE/include $SRC_BASE/include/reg"
#API_PUBLIC="$SRC_BASE/include"

# This is the location of all the API source code, used with option -all only
# if you want to generate doxygen documentation for the source code
# (only useful for internal code review)
# Do not put the content of API_PUBLIC as it is added automatically
API_ALL="$SRC_BASE/shared $SRC_BASE/ios $SRC_BASE/iox $SRC_BASE/linux"

# The EXAMPLE_PATH tag can be used to specify one or more files or
# directories that contain example code fragments that are included (see
# the @example command).

EXAMPLE_PATH=$SRC_BASE/test/src

```

# The IMAGE\_PATH tag can be used to specify one or more  
# directories that contain image that are included  
# in the documentation (see  
# the @image command).  
# This is only used/relevant if you have images in your API documentation.

IMAGE\_PATH=\$DST\_BASE/api-docs-images

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-  
tar/iprouting\_cmn/docs/iproutingcmn\_router\_cmd.run-doxxygen  
No license file was found, but licenses were detected in source scan.

/\*

\* P A R S E R \_ D E F S \_ R O U T E R . H

\*

\* \$Id: parser\_defs\_router.h,v 3.1.40.2 1996/07/30 06:56:06 rchandra Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/parser\_defs\_router.h,v \$

\*

\* Copyright (c) 1985-2020 by cisco Systems, Inc.

\* All rights reserved.

\*

\*-----

\* \$Log: parser\_defs\_router.h,v \$

\* Revision 3.1.40.2 1996/07/30 06:56:06 rchandra

\* CSCdi64489: BGP: private-AS number cannot be removed from AS-path

\* Branch: California\_branch

\* - add 'neighbor x.x.x.x remove-private-AS' command.

\* - add 'inbound' keyword to 'neighbor x.x.x.x soft-reconfiguration'

\* command (CSCdi64487)

\*

\* Revision 3.1.40.1 1996/04/16 19:02:10 rchandra

\* CSCdi54830: IP features commit

\* Branch: California\_branch

\*

\* Revision 3.1 1996/02/01 04:58:48 hampton

\* Migrate files out of the parser directory. [CSCdi47717]

\* Step 1: Create

copies of the files to be moved in their new location.

\*

\* Revision 3.2 1995/11/17 18:52:17 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:56:05 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.4 1995/08/28 21:14:47 rchandra



```

* CSCdi39436: BGP : Allow conditional unsuppression of suppressed routes
* - add 'neighbor x.x.x.x unsuppress-map <map>' command
*
* Revision 2.3 1995/07/06 23:11:21 rchandra
* CSCdi36759: BGP : Add conditional per neighbor default generation
* - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.
*
* Revision 2.2 1995/06/30 20:24:40 rchandra
* CSCdi36620: BGP requires IBGP neighbors to be fully meshed
*
* Revision 2.1 1995/06/07 22:31:08 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/parser_defs_router.h

```

No license file was found, but licenses were detected in source scan.

```

/* $Id: cfg_router_network.h,v 3.2.60.1 1996/08/12 16:03:46 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_network.h,v $
*-----
* C F G _ R O U T E R _ N E T W O R K . H
*
* Copyright (c) 1992-2002, 2004-2009, 2013, 2018 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log: cfg_router_network.h,v $
* Revision 3.2.60.1 1996/08/12 16:03:46 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2 1995/11/17 17:32:18 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:49 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.2 1995/09/25 08:30:52
tli
* CSCdi40960: ISP jumbo patch 2
*
* Revision 2.1 1995/07/01 12:15:58 tli
* CSCdi36508: Rationalize parser file placement, part I

```

\* Rationalize iprouting  
\*  
\* Revision 2.1 1995/06/07 22:12:56 hampton  
\* Bump version numbers from 1.x to 2.x.

\*-----  
\* \$Endlog\$  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-  
tar/iprouting\_cmn/internal\_inc/cfg\_router\_network.h

No license file was found, but licenses were detected in source scan.

/\* \$Id: exec\_show\_ip\_prefixlist.h,v 3.1.2.1 1997/12/17 21:36:59 enkechen Exp \$

\* \$Source: /release/111/cvs/Xsys/ip/exec\_show\_ip\_prefixlist.h,v \$

\*-----

\* exec\_show\_ip\_prefixlist.h -- Show IP prefix lists

\*

\* July 1997 Enke Chen

\*

\* Copyright (c) 1994-1998, 2000-2001, 2007-2008, 2010 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: exec\_show\_ip\_prefixlist.h,v \$

\* Revision 3.1.2.1 1997/12/17 21:36:59 enkechen

\* CSCdj61356: Prefix-list - facility for efficient route filtering

\* Branch: FIB\_branch

\*

\* Revision 3.1 1997/12/17 01:46:35 enkechen

\* Start with the new file.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/exec\_show\_ip\_prefixlist.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* routemap\_track.h -- Route map support for tracking

\*

\* March 2003 Shyan Wignarajah

\*

\* Copyright (c) 2003, 2006-2008, 2010, 2012-2014 by cisco Systems, Inc.

\* All rights reserved.

\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/routemap\_track.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----  
\* Generic prefix list support - prefix lists private header file

\*

\* March 2002, Siva Yaragalla

\*

\* Copyright (c) 2002, 2004, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_private.h

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: route\_map.h,v 3.3.12.6 1996/05/04 01:22:42 wilber Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/route\_map.h,v \$

\*-----

\* route\_map.h

\*

\* Route map support data structures.

\*

\* Copyright (c) 1986-2020 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: route\_map.h,v \$

\* Revision 3.3.12.6 1996/05/04 01:22:42 wilber

\* Branch: California\_branch

\*

\* Constrained Multicast Flooding

\* - Define MOSPF hello option bit.

\*

\* Name Access List

\*

\* Revision 3.3.12.5 1996/04/16 19:02:23 rchandra

\* CSCdi54830: IP features commit

\* Branch: California\_branch

\*

\* Revision 3.3.12.4 1996/04/05 03:46:42 rchandra

\* CSCdi53755: BGP: flap dampening settings not flexible enough

- \* Branch: California\_branch
- \* - add route-map support to set flap dampening parameters
- \*
- \* Revision 3.3.12.3 1996/04/02 07:29:32 dkatz
- \* CSCdi52277: Redistribution metric problems with IGRP/EIGRP
- \* Branch: California\_branch
- \* Always store canonical metrics scaled for IGRP, and make EIGRP do
- \* its own scaling internally. Get the scaling right in all three
- \* places.
- \*
- \* Revision 3.3.12.2 1996/03/28 23:59:20 rchandra
- \* CSCdi52098: BGP: exact keyword not accepted by route-map in community
- \* match
- \* Branch: California\_branch
- \* - fix my silly bug in handling exact community matching
- \* - limit the range of valid community to 0xFFFF0000
- \* - fix a cosmetic bug in show ip community-list
- \*
- \* Revision 3.3.12.1 1996/03/28 22:28:27 rchandra
- \* CSCdi52880: BGP: generate error message for unsupported route-map
- \* options
- \* Branch: California\_branch
- \* - generate error message when unsupported route-map option is used
- \* - treat confederation EBGp neighbors similar to internal neighbors in
- \* best path selection
- \* - fix the bug in bgp\_compare\_med, so that
- during MED comparison,
- \* confederation information is skipped properly
- \* - confederation EBGp paths should be inserted into the IP table with
- \* internal distance
- \* - do not consider common-AS neighbors as confederation neighbors
- \* - during 'clear ip bgp dampening' avoid skipping paths
- \* - undo the patch to the radix version walker
- \*
- \* Revision 3.3 1996/02/17 01:23:27 myeung
- \* CSCdi49210: match tag clause does not work with static routes
- \*
- \* Revision 3.2 1995/11/17 17:37:17 hampton
- \* Remove old entries from the RCS header logs.
- \*
- \* Revision 3.1 1995/11/09 12:10:38 shaker
- \* Bump version numbers from 2.x to 3.x.
- \*
- \* Revision 2.4 1995/09/25 08:31:20 tli
- \* CSCdi40960: ISP jumbo patch 2
- \*
- \* Revision 2.3 1995/07/12 07:19:12 tli
- \* CSCdi36426: Policy routing will not disable on an interface

- \* - Policy routed packets were creating fastswitching cache entries.
- \* That's not till `_next_release`.
- \* - Add counters to record packet and byte count on a per route map entry basis.
- \* - Marketing identified a catastrophic deficiency. Implemented "set ip tos" and "set ip precedence" to cover this deficiency.
- \*
- \* Revision 2.2 1995/07/06 23:12:41 rchandra
- \* CSCdi36759: BGP : Add conditional per neighbor default generation
- \* - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.
- \*
- \* Revision 2.1 1995/06/07 21:10:57 hampton
- \* Bump version numbers from 1.x to 2.x.
- \*
- \*-----
- \* \$Endlog\$
- \*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/route\_map.h  
 No license file was found, but licenses were detected in source scan.

```

/* $Id$
* $Source$
*-----
* C F G _ R O U T E R _ D E F A U L T S . H
*
* Copyright (c) 1992-2011, 2013, 2015-2016, 2019 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_default.h  
 No license file was found, but licenses were detected in source scan.

```

/*-----
* iprouting_common.h - Basic types for IP routing (IPv4/IPv6)
*
* Contains:
* - address family enum,
* - tableid type and related macros
* - topoid type and related macros
* - private topoid definitions and APIs

```

```
* - generic non-routing ID definitions/APIs
*
* Warning: this file should not have any dependency on other header file
* except those where basic C types are defined.
*
* June 2003, Luc Revardel
*
* Copyright (c) 2003-2013, 2016, 2018, 2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/iprouting_common.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* cfg_int_ip2_vnet_routing.h
*
* Interface VNET submode configuration IP commands.
*
* Copyright (c) 2009-2010 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_int_ip2_vnet_routing.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* iprouting_init_blob.c -- Partner file (in blob) for iprouting_init.c
*
* 27-August-2001, Fan Kong
*
* Copyright (c) 2001-2011, 2015, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_init\_blob.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id: exec\_show\_protocols.h,v 3.3.20.1 1996/08/12 16:04:12 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/exec\_show\_protocols.h,v \$

\*-----

\* EXEC\_SHOW\_PROTOCOLS.H

\*

\* Copyright (c) 1992-1996, 2007-2009 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\* \$Log: exec\_show\_protocols.h,v \$

\* Revision 3.3.20.1 1996/08/12 16:04:12 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

\* Remove hidden keyword help strings

\*

\* Revision 3.3 1996/01/29 07:08:56 hampton

\* Remove command number arguments passed to parse routines that only

\* perform a single function. [CSCdi47717]

\*

\* Revision 3.2 1995/11/17 17:33:30 hampton

\* Remove old entries from

the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:07:27 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.1 1995/07/01 12:16:21 tli

\* CSCdi36508: Rationalize parser file placement, part I

\* Rationalize iprouting

\*

\* Revision 2.1 1995/06/07 22:25:21 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/exec\_show\_protocols.h

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* IP routing show commands

```
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-2003, 2005, 2007-2011, 2013, 2015-2020 by cisco Systems, Inc.
* All rights reserved.
*
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_show_ip_routing.h
```

No license file was found, but licenses were detected in source scan.

```
!-----
! iproutingcmn_router_cmd.sesut - IPv4 Routing Common Router
!     Commands Unit Test Routines
!
! December 2007, Chi Iong Ansjory
!
! Copyright (c) 2007 by cisco Systems, Inc.
! All rights reserved.
!-----
! Sample unit test description file.
! This file is used for generation of unit test module by SESUT.
! See http://www.win-ses.cisco.com/unittest/sesut\_ios.html for
! information about SESUT.
!
! Include a description of your test here.
!
! This is made up of many sections. Each section header starts with % in
! first column. It is followed by the section identifier.
! Lines that have '!' in the first column are considered comments.
! Blank lines are ignored.
!
! You can report success/failure of your test by calling the following
! functions.
! Call sesut_<file prefix>_testpass to indicate
! test success.
! void sesut_<file prefix>_testpass(void);
! Call sesut_<file prefix>_testfail to indicate test failure.
! void sesut_<file prefix>_testfail(const char *fmt, ... );
! The length of the formatted string should be less than or equal
! to 255. Else it will be truncated.
! Prototypes for these functions are included in the header file that
! is generated by SESUT.
```



```
% Cflow
! Enter the files/subsystems in the unit under test.
! These files will be instrumented for Cflow and MIF(if MIF is
! available in your view). GDB flag -g is used during compilation.
! cflow_list=$(sub_mif) xyz.o $(my_subsys) abc.o
! This list is ignored if ses_iouut is used. ses_iouut instruments all files
! in UUT(defined by -old and -new options).
```

```
% MIF
! Enter MIF configuration
! If MIF configuration is not specified and cflow_list is specified
! then a default MIF configuration is used.
!../os/free.c
!../os/buffers.c
!../os/chunk.c
!-----
!malloc
!malloc_aligned
!malloc_fast
!malloc_pcimem
!malloc_named
!chunk_malloc
!getbuffer
!pool_getbuffer
```

```
%
API
! Include DTD configuration.
! Not all features of DTD are available with SESUT yet.
! List headers/text that contain prototypes for the functions to be tested
! for robustness followed by a line consisting of '-'s followed by
! the list of functions to be tested for robustness.
! It is assumed that a .h file that includes all the text listed above
! the line consisting of '-'s is self-compiling in the same context as
! the one used to compile the .sesut file and has the definitions of
! all the objects whose pointers are referenced.
!master.h
!../testtools/testtools.h
!../testtools/testtools_private.h
!<stdio.h>
!void mynewapi(int,int);
!-----
!mif_enable
!mif_disable
!mif_clear
!mif_lock
```

!mynewapi

% env

! Use this section to list object modules that are not  
! part of the standard build but are used by the tests defined in this  
! file. The text following "link:" is inserted  
! into the final link step.

!link: xyz.o abc.o

!

! Use this section to add any special 'CFLAGS' needed to compile sesut  
! generated test file

!cflags: -I../http/http\_core/include

!cflags: -I../http/http\_core/server

!cflags: -I../ios\_http\_core/config -I../http/http\_core/lib

!cflags: -DEW\_CONFIG\_OPTION\_CLIENT\_CACHE

!

! You can specify functions to be executed before and after the test.  
! pretest is executed before executing the unit test and the posttest is  
! executed after executing the unit test. These are executed once regardless  
! of the repeat count. The prototypes of these functions are expected to be:

! void <pretest>(void);

! void <posttest>(void);

! Define these functions in the 'model prolog' section. Note that these  
! are optional. You can have one or both or none.

!pretest:config\_my\_feature

!posttest:validate\_results

! If want want your pretest/posttest functions to receive same  
! parameters as the test then specify the functions as:

!pretest\_withparams:config\_my\_feature

!posttest\_withparams:validate\_results

!

The prototypes for these functions would be:

! void <pretest\_withparams>(<types of parameters>)

! void <posttest\_withparams>(<types of parameters>)

! Parameters are specified using "parameter:" keyword in % model" section.

! If both {pre|post}test and {pre|post}test\_withparams are specified:

! pretest is executed before pretest\_withparams.

! posttest is executed after posttest\_withparams.

! You can specify a initializer/finalizer function to be executed  
! at the time of test initialization/removal.

! Initializer is executed once during the lifetime of the current instance of  
! the test. If the test is part of the image then the initializer is executed  
! during subsystem initialization. If the test is a DLST(dynamically loaded)  
! then the initializer is executed just after the dynamic load.

! The finalizer is executed when the test is removed (happens when the test is  
! being replaced).

! Note that the subsystems in

```

the DLST are not initialized. You must list the
! subsystem init functions in the initializer function. Subsystem header is
! ignored for DLST's. You will not see the subsystems for DLST's listed in
! "show subsys" output.
! Use initializer to perform tasks like registry addition, memory allocation etc.
! Similarly use the finalizer to free these resources. This is an important
! consideration. Treat them like constructor/destructor for the DLST.
!
! The prototypes of these functions are expected to be:
! void <initializer>(void);
! void <finalizer> (void);
! Define these functions in the 'model prolog' section. Note that these
! are optional. You can have one or both or none.
!initializer:my_init
!finalizer:my_finit

```

```

% model prolog iou
! This code will be copied unchanged to the start of the generated .c file
! Include definitions, declarations, include statements that
! are used in the model
! You can include stubs for the functions that are not ready yet but are
! invoked.
!
! If you choose to have pretest and posttest functions include them here.
!
! "model prolog " accepts additional keywords.
! dt - This is meaningful in automation environments. If the test you are
! creating alters global state then use "dt" keyword. This informs
! automation framework that device should be reloaded prior to
! running next test.
! iou - Use this keyword if the test can be executed under IOU.
! preinit - Use this if the test executes prior to system initialization.
! % model prolog dt

```

```

#include IOS_INC(testtools/sesutlib_ios.h)
#include <routing/iprouting_cmn/include/ip_stats.h>
#include <routing/iprouting_cmn/include/iprouting_debug.h>
#include <routing/iprouting_cmn/include/router_af_actions_registry.h>

```

```

boolean sesrc;

```

```

% model digraph
! Describe the model. You have structured your test as a
! directed graph. Start keywords in column 1. Start the code at an
! offset(2TABS). This line("model digraph") can have an optional keyword.
! That is "vdag".

```

This would generate testcases representing various  
! acyclic paths leading from the start node. These tests cover all nodes.  
! This does not guarantee that all the edges are covered.  
! If your test model is a tree(or hierarchical) or a DAG(Directed Acyclic  
! Graph) then you should use this keyword.  
!% model digraph vdag  
! There are three keywords. They are  
! start node <nodeIdentifier> - Specify the start node in the model  
! node <nodeIdentifier>: - Begining of a node description.  
!         Include descriptions for all edges starting at this node.  
!         If there is code to be executed upon entry to this node  
!         enter that immediatly following this line but before  
!         entering any edge description.  
! -><nodeIdentifier>: - Begining of an edge description. This describes an  
!         edge from the node to &lt;n>  
! Choose <nodeIdentifier> to be descriptive. Examples: AVLTreeInsert,  
!         DBSearch, DetachLine  
!  
These identifiers are used during runtime to present execution times  
! and other data.  
! You can specify parameters for your unit test as follows:  
!parameters:(uint interface, char\* hostname="abc", uint subInterface=1)  
!This should come before the line specifying the start node.  
!The parameters can be used in the code for nodes/edges. The values  
!for parameters are received via CLI or as a result of direct invocation of  
!the generated function. Parameters can be of type 'uint'  
!or 'char\*'. If values for parameters are provided on CLI defaults are used.  
! You should provide default values. If default values are not specified  
! then the tool would assign default values. If the type is "uint" the  
! default value is 0. Else(type char\*) the default value is "".  
! During automation the default values are used. Use descriptive names  
! for parameters.  
start node StartNode  
! You can place initialization code that needs to be executed  
! prior to entering the start node here.  
node StartNode:  
!  
===== 6 APIs from ip\_stats.h/ip\_registry.reg =====  
!  
! 1. DEFINE show\_ip\_interface\_with\_topo  
  
(void) sesut\_execcommand(FALSE, "show ip interface e0/0 topology base stats");  
printf("\n----- SESUT Test Reg: show\_ip\_interface\_with\_topo -----");  
  
! 2. DEFINE clear\_ip\_interface\_with\_topo  
  
(void) sesut\_execcommand(FALSE, "clear ip interface e0/0 topology base stats");

```

printf("\n----- SESUT Test Reg: clear_ip_interface_with_topo -----");

! 3. DEFINE show_ip_traffic_with_topo

(void) sesut_execcommand(FALSE, "show ip traffic topology base");
printf("\n----- SESUT Test Reg: show_ip_traffic_with_topo -----");

! 4. DEFINE clear_ip_traffic_with_topo

(void) sesut_execcommand(FALSE, "clear ip traffic topology base");
printf("\n----- SESUT Test: clear_ip_traffic_with_topo -----");

! 5. DEFINE show_ip_interface_stats

(void) sesut_execcommand(FALSE, "show ip interface e0/0 stats");
printf("\n----- SESUT Test Reg: show_ip_interface_stats -----");

! 6. DEFINE clear_ip_interface_stats

(void) sesut_execcommand(FALSE,
"clear ip interface e0/0 stats");
printf("\n----- SESUT Test Reg: clear_ip_interface_stats -----");

! ===== 2 APIs from iprouting_debug.h =====

! 1. void
!  iprouting_debug_arr_ios_set_csb(struct parseinfo_ *csb);

!iprouting_debug_arr_ios_set_csb(NULL);
printf("\n----- SESUT Test: iprouting_debug_arr_ios_set_csb() -----");

! 2. void
!  iprouting_ios_call_debug_cmd(struct parseinfo_ *csb);

!iprouting_ios_call_debug_cmd(NULL);
printf("\n----- SESUT Test: iprouting_ios_call_debug_cmd() -----");

! ===== 1 API from router_af_actions_registry.reg =====

! 1. DEFINE address_family_action_named_router REMOTE 3

sesrc = reg_invoke_address_family_action_named_router(NULL);
printf("\n----- SESUT Test Reg: address_family_action_named_router -----");

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/test/iproutingcmn_router_cmd.sesut

```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* route3_ionized.c  
*  
* ION specific route3.c parser functions.  
*  
* March 2002, Victor Kamensky  
*  
* Copyright (c) 2002, 2005-2008 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route3\_ionized.c

No license file was found, but licenses were detected in source scan.

```
/* $Id$  
* $Source$  
*-----  
* Registry for IP routing infrastructure in ION  
*  
* September 2001, Fan Kong  
*  
* Copyright (c) 2001-2003, 2005, 2007-2008, 2010 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/iprouting\_registry.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: route_map.h,v 3.3.12.6 1996/05/04 01:22:42 wilber Exp $  
* $Source: /release/112/cvs/Xsys/iprouting/route_map.h,v $  
*-----  
* policylist.h -- Policy list support data structures  
*  
* April 2000, Rex Fernando  
*  
* Copyright (c) 2000, 2002-2003, 2005, 2007-2011 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/policylist.h

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* cfg\_routemap\_set.h

\*

\* Process route-map set subcommands.

\*

\* Copyright (c) 1992-1998, 2001-2003, 2007-2019 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_routemap\_set.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* routemap\_ios\_chain.c -- Route-map generic ios parse chains that

\* will be in both RP and VIP/LC

\*

\* July 1998, Wilber Su

\*

\* Copyright (c) 1998, 2004-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_ios\_chain.c

No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router\_distance.h,v 3.2.60.1 1996/05/04 01:21:16 wilber Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_distance.h,v \$

\*-----

\* C F G \_ R O U T E R \_ D I S T A N C E . H

\*

\* The bgp version must come before the weight version so that both NVGEN

\* and normal processing happen correctly.

\*

\* Copyright (c) 1992-1999, 2001-2010, 2015-2016, 2019-2020 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: cfg\_router\_distance.h,v \$

\* Revision 3.2.60.1 1996/05/04 01:21:16 wilber

\* Branch: California\_branch

\*

\* Constrained Multicast Flooding

\* - Define MOSPF hello option bit.

\*

\* Name Access List

\*

\* Revision 3.2 1995/11/17 17:32:05 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:05:29 shaker

\* Bump version

numbers from 2.x to 3.x.

\*

\* Revision 2.1 1995/07/01 12:15:50 tli

\* CSCdi36508: Rationalize parser file placement, part I

\* Rationalize iprouting

\*

\* Revision 2.1 1995/06/07 22:12:30 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-  
tar/iprouting\_cmn/internal\_inc/cfg\_router\_distance.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* protofltr\_debug.c - Debug functions for protocol filter manager

\*

\* Mercia Zheng, Jan 2006

\*

\* Copyright (c) 2006-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/protofltr\_debug.c



No license file was found, but licenses were detected in source scan.

```
/*
*-----
* cfg_router_topology.h - router topology configuration mode command
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004-2005, 2007-2009, 2013 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

`/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_topology.h`

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* iprouting_init_ionblob.c -- IP Routing Init code for blog in ION only
*
* October 2001, Rashmi Shrivastava
*
* Copyright (c) 2001-2017 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

`/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_ionblob.c`

No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* Registry for routing context for RP and LC common code.
*
* September 2009, Derek Yeung
*
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/routing_context_registry.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* Address Family configuration mode commands.
*
* April 1998, Bob Thomas
*
* Copyright (c) 1998-1999, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_af_mode.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* ip_stats.h - IP for topology aware stats
*
* Feburary 2006, Jonsky Hsu
*
* Copyright (c) 2006-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/ip_stats.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* protofltr_debug_flags.h -- Protofltr manager debug flags declarations
*
* Jan 2006, Mercia Zheng
*
* Copyright (c) 2005-2008 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/protofltr\_debug\_flags.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* route\_map\_ionized.c - Route Maps support for IONized processes

\*

\* July 2001, Siva Yaragalla

\*

\*

\* Route map subsystem for IOS style processes.

\*

\* Copyright (c) 2001-2009, 2011, 2016-2017 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route\_map\_ionized.c

No license file was found, but licenses were detected in source scan.

/\*-----

\* iprouting\_actions\_registry.h

\*

\* Router address family actions registry.

\*

\* May 2002, Victor Kamensky

\*

\* Copyright (c) 2002-2003, 2007-2008, 2010 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-

tar/iprouting\_cmn/include/router\_af\_actions\_registry.h

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* C F G \_ R O U T E R \_ T A B L E - M A P . H

\*

\* Copyright (c) 1993-1996, 1999, 2001, 2003, 2005-2019 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

```
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_table-map.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* routing_context_registry.c
*
* September 2009, Derek Yeung
*
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routing_context_registry.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: iprouting_actions.h,v 3.2 1995/11/17 17:34:39 hampton Exp $
* $Source: /swt/cherf.111/ios/sys/iprouting/iprouting_actions.h,v $
*-----
* IP routing specific parsing functions.
*
* August 1994, Bruce Cole
*
* Copyright (c) 1994, 2004-2008, 2015 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: iprouting_actions.h,v $
* Revision 3.2 1995/11/17 17:34:39 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:08:30 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/06/07 21:07:35 hampton
* Bump version numbers from 1.x to 2.x.
*
*/
```

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/iprouting\_actions.h

No license file was found, but licenses were detected in source scan.

/\*-----

\* routemap\_api.c -- Dynamic routemap APIs.

\*

\* May 2003, Tanya Shastri

\*

\* Copyright (c) 2003, 2005-2015, 2018-2019 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_api.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* router\_topology\_parse.h

\*

\* Router topology parser functions declarations.

\*

\* Sept 2004, Mercia Zheng

\*

\* Copyright (c) 2004-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/router\_topology\_parse.h

No license file was found, but licenses were detected in source scan.

/\* \$Id: exec\_debug\_ip\_routing.h,v 3.3.20.1 1996/06/27 04:40:57 mikel Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/exec\_debug\_ip\_routing.h,v \$

\*-----

\* IP routing debug commands

\*

\* May 1993, Robert Widmer

\*

\* Copyright (c) 1993-2003, 2005-2009, 2019 by cisco Systems, Inc.

\* All rights reserved.

```

*
*-----
* $Log: exec_debug_ip_routing.h,v $
* Revision 3.3.20.1 1996/06/27 04:40:57 mikel
* CSCdi37749: <debug ip eigrp> help wrong
* Branch: California_branch
* clean up ip-eigrp AS debugging
*
* Revision 3.3 1996/02/01 23:34:07 widmer
* CSCdi45325: Change Keyword/Set to use Keyword_Id macro
*
* Revision 3.2 1995/11/17 17:33:17 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:07:09 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.2 1995/11/08 21:06:22 shaker
* Merge Arkansas_branch into 11.1 mainline.
*
* Revision 2.1 1995/07/01 12:16:15 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:18:58 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/exec\_debug\_ip\_routing.h

No license file was found, but licenses were detected in source scan.

```

/*
*-----
* protofltr_public.h
*
* Routing protocol filter manager Public API definitions
*
* Dec 2008, Mercia Zheng
*
* Copyright (c) 2008-2009 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/protofltr\_public.h

No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_routemap\_exit.h,v 3.2.60.1 1996/08/12 16:03:34 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_routemap\_exit.h,v \$

\*-----

\* cfg\_routemap\_exit.h

\*

\* exit - exit from route-map configuration mode

\*

\* Copyright (c) 1992-1996, 2007-2009 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\* \$Log: cfg\_routemap\_exit.h,v \$

\* Revision 3.2.60.1 1996/08/12 16:03:34 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

\* Remove hidden keyword help strings

\*

\* Revision 3.2 1995/11/17 17:31:42 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:05:03 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.1 1995/07/01

12:15:44 tli

\* CSCdi36508: Rationalize parser file placement, part I

\* Rationalize iprouting

\*

\* Revision 2.1 1995/06/07 22:12:09 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_routemap\_exit.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* iprouting\_parser\_macros.h - Routing macros moved out of

\* sys/parser/macros.h

\*

\* November, 2004  
\*  
\* Copyright (c) 2004-2011, 2013, 2015, 2018 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-  
tar/iprouting\_cmn/include/iprouting\_parser\_macros.h

No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router\_traffic-share.h,v 3.3.20.1 1996/08/12 16:03:58 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_traffic-share.h,v \$

\*-----

\* cfg\_router\_traffic-share.h - parsing of the traffic-share command

\*

\* Oct 1993 Tony Li

\*

\* Copyright (c) 1993-1999, 2001-2002, 2004-2009, 2015 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: cfg\_router\_traffic-share.h,v \$

\* Revision 3.3.20.1 1996/08/12 16:03:58 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

\* Remove hidden keyword help strings

\*

\* Revision 3.3 1996/02/01 23:34:03 widmer

\* CSCdi45325: Change Keyword/Set to use Keyword\_Id macro

\*

\* Revision 3.2 1995/11/17 17:32:35 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:06:21 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.1 1995/07/01 12:16:07 tli

\* CSCdi36508: Rationalize parser file placement, part I

\* Rationalize iprouting

\*

\* Revision 2.1 1995/06/07 22:13:22 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$



\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_traffic-share.h

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* route.h -- IP routing definitions

\*

\* 22-March-1986, Kirk Lougheed

\*

\* Copyright (c) 1986-2020 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/route.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* routemap\_ios\_blob.c -- Route map support routines that can be shared

\* by RP and VIP/LC

\*

\* October 14, 2001 Siva Yaragalla

\*

\* Copyright (c) 2001-2020 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_ios\_blob.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* protofltr\_debug.h -- Routing protocol filter manager debug flag

\*

\* Jan 2006, Mercia Zheng

\*

\* Copyright (c) 2005-2008 by Cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/protofltr\_debug.h

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id\$

\* \$Source\$

\*-----

\* route3.c -- Routing Support: Router command and related routines

\*

\* 15-June-1987, Kirk Lougheed

\*

\* Copyright (c) 1987-2021 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

/\*

\* If its not a per-user distribute-list, we have to configure the  
\* route-map for pflist\_def too - its used to restore default when  
\* a per-user distribute-list is un-configured as well as for  
\* nvgen purposes. All this mess, only for the interface specific  
\* version.

\*/

/\*

\* This command is only valid for ipv4 and nsap AFs in BGP.  
\* However it is accepted for other BGP AFs  
\* for backwards compatibility. However, no action  
\* is taken for these

AFs and it is not nvgen'ed

\* either. Check out cfg\_router\_default.h for  
\* more details.

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route3.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* cfg\_router\_maximum-paths.h

\*  
\* 22-May-2016, Les Ginsberg  
\*  
\* Copyright (c) 2016 by cisco Systems, Inc.  
\* All rights reserved.

\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-  
tar/iprouting\_cmn/internal\_inc/cfg\_router\_maximum-sec-paths.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router\_metric.h,v 3.2 1995/11/17 17:32:13 hampton Exp \$  
\* \$Source: /swtal/cherf.111/ios/sys/iprouting/cfg\_router\_metric.h,v \$

\*-----

\* C F G \_ R O U T E R \_ M E T R I C . H

\*

\* Copyright (c) 1992-2002, 2004, 2006-2009 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\* \$Log: cfg\_router\_metric.h,v \$

\* Revision 3.2 1995/11/17 17:32:13 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:05:41 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.1 1995/07/01 12:15:54 tli

\* CSCdi36508: Rationalize parser file placement, part I

\* Rationalize iprouting

\*

\* Revision 2.1 1995/06/07 22:12:46 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_metric.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id: ip\_routing.h,v 3.2 1995/11/17 17:34:12 hampton Exp \$

\* \$Source: /swtal/cherf.111/ios/sys/iprouting/ip\_routing.h,v \$

\*-----

\* ip\_routing.h -- Generic IP routing declarations

\*

\* Mar 1995 Tony Li  
\*  
\* Copyright (c) 1995, 1998, 2004, 2006-2008 by cisco Systems, Inc.  
\* All rights reserved.

\*-----  
\* \$Log: ip\_routing.h,v \$  
\* Revision 3.2 1995/11/17 17:34:12 hampton  
\* Remove old entries from the RCS header logs.

\*  
\* Revision 3.1 1995/11/09 12:08:06 shaker  
\* Bump version numbers from 2.x to 3.x.

\*  
\* Revision 2.1 1995/06/07 21:07:05 hampton  
\* Bump version numbers from 1.x to 2.x.

\*-----  
\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/ip\_routing.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----  
\* Exit from BGP Address Family mode.

\*  
\* Sept 1998, Bob Thomas

\*  
\* Copyright (c) 1998-1999, 2007-2009 by cisco Systems, Inc.  
\* All rights reserved.

\*-----  
\* \$Log\$

\*-----  
\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_af\_exit.h  
No license file was found, but licenses were detected in source scan.

/\*

\*-----  
\* iprouting\_debug.h -- Debugging declarations for IP routing

\*  
\* May 1993, John Bashinski

\*

\* Copyright (c) 1993-2010 by Cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/iprouting\_debug.h

No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router\_offset.h,v 3.3.20.4 1996/09/04 23:46:26 mikel Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_offset.h,v \$

\*-----

\* C F G \_ R O U T E R \_ O F F S E T . H

\*

\* Copyright (c) 1992-1998, 2002, 2004-2008 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\* \$Log: cfg\_router\_offset.h,v \$

\* Revision 3.3.20.4 1996/09/04 23:46:26 mikel

\* CSCdi65889: offset-list doesnt work for EIGRP

\* Branch: California\_branch

\* Re-enable offset-list command as well as adding offset-list out support,

\* and fix offset-list to work with access-lists

\*

\* Revision 3.3.20.3 1996/08/12 16:03:48 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

\* Remove hidden keyword

help strings

\*

\* Revision 3.3.20.2 1996/05/04 01:21:23 wilber

\* Branch: California\_branch

\*

\* Constrained Multicast Flooding

\* - Define MOSPF hello option bit.

\*

\* Name Access List

\*

\* Revision 3.3.20.1 1996/04/09 05:54:35 mikel

\* CSCdi49628: EIGRP ignores outgoing offset-list

\* Branch: California\_branch

\* disable offset-list command from eigrp router config

\*

\* Revision 3.3 1996/02/01 23:33:59 widmer

\* CSCdi45325: Change Keyword/Set to use Keyword\_Id macro

\*

\* Revision 3.2 1995/11/17 17:32:19 hampton

```
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:53 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:58 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:58 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
*
/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_offset.h
No license file was found, but licenses were detected in source scan.
```

```
#
#-----
# iprouting_api.enum - IP Routing public API enum definitions
#
# August 2009, Prashant Srinivas
#
# Copyright (c) 2009-2010 by cisco Systems, Inc.
# All rights reserved.
#-----
#
```

BEGIN IPROUTING\_API

```
#
# Enumeration of the possible reasons for disabling routing on an interface
#
# Note, string length of the LONG description, should be <= 16 chars,
# and contain nothing but alfanumerical characters and _
#
ENUM routing_disable_flag_t
```

```
    ITEM ROUTING_DISABLE_FLAG_INT_IF
    LONG "Internal_IF"
    END ITEM
```

END ENUM

END

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/enum/iprouting\_api.enum  
No license file was found, but licenses were detected in source scan.

```
/*
*-----
* routemap_track.c -- Route map support for tracking
*       Functions which run on RP (not VIP).
*
* March 2003  Shyan Wignarajah
*
* Copyright (c) 2003-2008, 2013-2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_track.c  
No license file was found, but licenses were detected in source scan.

```
/* $Id
* $Source
*-----
* iprib_api_svr.c -- IP Routing Information Base (RIB) API definitions
*
* August-2001, Fan Kong
*
* Copyright (c) 2001-2012, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprib\_api\_svr.c  
No license file was found, but licenses were detected in source scan.

```
/*-----
* router_topology_registry.h
*
* Router topology registry.
*
* Sept 2004, Mercia Zheng
*
*/
```

\* Copyright (c) 2004, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/router\_topology\_registry.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* iprouting\_parser\_linkpoints.c - iprouting parser linkpoint defs.

\*

\* April, 2005

\*

\* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_parser\_linkpoints.c

No license file was found, but licenses were detected in source scan.

/\*-----

\* routing\_context\_chain.c

\*

\* Parse chain file for routing context support.

\*

\* March 2009, Derek Yeung

\*

\* Copyright (c) 2009, 2015 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routing\_context\_chain.c

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* cfg\_routemap\_match.h

\*

\* Process route-map match subcommands.



```
*
* Copyright (c) 1992-1999, 2002-2005, 2007-2012, 2018 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_match.h
No license file was found, but licenses were detected in source scan.
```

```
##
## content.lst file for iprouting_cmn
## See EDCS-905060 for more details.
##
## Oct 2010, Manu Pathak
##
## Copyright (c) 2010-2011, 2016 by cisco Systems, Inc.
## All rights reserved.
##
```

syntax: 1.0.0

```
# iprouting_cmn meta-source files
group: iprouting_cmn-generic
{
enum:
    iprouting_cmn/include/enum/iprouting_api.enum

reg:
    iprouting_cmn/include/reg/ion_iprouting_cmd_registry.reg
    iprouting_cmn/include/reg/iprouting_registry.reg
    iprouting_cmn/include/reg/lfafr_registry.reg
    iprouting_cmn/include/reg/route_map_registry.reg
    iprouting_cmn/include/reg/router_af_actions_registry.reg
    iprouting_cmn/include/reg/router_topology_registry.reg
    iprouting_cmn/include/reg/routing_context_registry.reg
}
# end of group: iprouting_cmn-generic
```

```
# iprouting_cmn source files
group: iprouting_cmn
{
includes:
    ../generic/routing/iprouting_cmn/include
    $(COMPONENT_ROOT)/routing/iprouting_cmn/include
```

```

$(COMPONENT_ROOT)/routing/iprouting_cmn/internal_inc
$(COMPONENT_ROOT)/routing/iprouting_cmn/src
$(COMPONENT_ROOT)/routing
$(COMPONENT_ROOT)/posix/include
$(IOS_SYSROOT)/ion/include
$(IOS_SYSROOT)/crypto/ca
$(IOS_SYSROOT)/crypto/ca/certcinc
$(IOS_SYSROOT)/crypto/ca/bsafeinc
$(IOS_SYSROOT)/crypto/ca/provider/include
defines: CRYPTOCv5 CERTCv5
cflags: -Wno-parentheses -Wno-uninitialized
sub: ion_iprouting_cmd_registry
{
  context: os==ion
  contains:
    iprouting_cmn/src/ion_iprouting_cmd_registry.c
}
sub: iprouting_blob
{
  contains:
    iprouting_cmn/src/ip_routing.c
    iprouting_cmn/src/ip_stats.c
    iprouting_cmn/src/iprouting_actions.c
    iprouting_cmn/src/iprouting_chain.c
    iprouting_cmn/src/iprouting_debug.c
    iprouting_cmn/src/iprouting_init_blob.c
    iprouting_cmn/src/iprouting_setup.c
    iprouting_cmn/src/protofltr_debug.c
    iprouting_cmn/src/route3_blob.c
    iprouting_cmn/src/routemap_debug.c
    iprouting_cmn/src/router_af_chain.c
    iprouting_cmn/src/router_topology_chain.c
    iprouting_cmn/src/routing_context_chain.c
}
sub: iprouting_cmn
{
  contains:
    iprouting_cmn/include/msg_iproute.rc
    iprouting_cmn/src/iprouting_cmn.c
}
sub: iprouting_common_blob
{
  contains:
    iprouting_cmn/src/ip_prefixlist_chain.c
    iprouting_cmn/src/policylist_blob.c
    iprouting_cmn/src/route_map_blob.c
    iprouting_cmn/src/routemap_track.c
}

```

```
sub: iprouting_common_ionblob
{
  context: os==ion
  contains:
    iprouting_cmn/src/ip_prefixlist_ionblob.c
    iprouting_cmn/src/route_map_ionblob.c
}
sub: iprouting_common_ionized
{
  context: os==ion
  contains:
    iprouting_cmn/src/ip_prefixlist_ionized.c
    iprouting_cmn/src/policylist_ionized.c
    iprouting_cmn/src/route_map_ionized.c
}
sub: iprouting_common_misc
{
  contains:
    iprouting_cmn/src/ip_prefixlist.c
    iprouting_cmn/src/msg_routemap.c
    iprouting_cmn/src/policylist.c
    iprouting_cmn/src/route_map.c
    iprouting_cmn/src/routetag_list.c
}
sub: iprouting_common_nbcmn
{
  contains:
    iprouting_cmn/src/route_map_nbcmn.c
}
sub: iprouting_common_nonblob
{
  contains:
    iprouting_cmn/src/ip_prefixlist_ios.c
    iprouting_cmn/src/policylist_ios.c
}
sub: iprouting_init_ios
{
  contains:
    iprouting_cmn/src/iprouting_init_ios.c
}
sub: iprouting_ionblob
{
  context: os==ion
  contains:
    iprouting_cmn/src/iprouting_init_ionblob.c
    iprouting_cmn/src/iprouting_parse_blob.c
    iprouting_cmn/src/router_af_parse_blob.c
}
```

```
sub: iprouting_ionized
{
  context: os==ion
  contains:
    iprouting_cmn/src/iprouting_init_ionized.c
    iprouting_cmn/src/route3_ionized.c
}
sub: iprouting_misc
{
  contains:
    iprouting_cmn/src/routemap_api.c
    iprouting_cmn/src/routemap_api_util.c
    iprouting_cmn/src/routemap_internal.c
}
sub: iprouting_nonblob
{
  contains:
    iprouting_cmn/src/iprib_api_svr.c
    iprouting_cmn/src/iprouting_init.c
    iprouting_cmn/src/iprouting_stats.c
    iprouting_cmn/src/protofltr.c
    iprouting_cmn/src/route1.c
    iprouting_cmn/src/route2.c
    iprouting_cmn/src/route3.c
    iprouting_cmn/src/router_af_parse.c
    iprouting_cmn/src/router_topology_parse.c
}
sub: iprouting_parser
{
  contains:
    iprouting_cmn/src/iprouting_parser_linkpoints.c
}
sub: iprouting_registry
{
  contains:
    iprouting_cmn/src/iprouting_registry.c
}
sub: ipv4_subsys
{
  contains:
    iprouting_cmn/src/ipv4_subsys.c
}
sub: lfafrr_registry
{
  contains:
    iprouting_cmn/src/lfafrr_registry.c
}
sub: route_map_globs
```

```

{
  contains:
    iprouting_cmn/src/route_map_globs.c
}
sub: route_map_registry
{
  contains:
    iprouting_cmn/src/route_map_registry.c
}
sub: routemap_common_blob
{
  contains:
    iprouting_cmn/src/routemap_ios_blob.c
}
sub: routemap_common_ionized
{
  context: os==ion
  contains:
    iprouting_cmn/src/route_map_http_ion.c
}
sub: routemap_common_nonblob
{
  contains:
    iprouting_cmn/src/routemap_ios.c
    iprouting_cmn/src/routemap_track_ios.c
}
sub: routemap_ios_chain
{
  contains:
    iprouting_cmn/src/routemap_ios_chain.c
}
sub: routemap_lc_ipc
{
  context: os==ios
  contains:
    iprouting_cmn/src/route_map_globs.c
    iprouting_cmn/src/routemap_api.c
    iprouting_cmn/src/routemap_api_util.c
    iprouting_cmn/src/routemap_debug.c
    iprouting_cmn/src/routemap_internal.c
    iprouting_cmn/src/routemap_ios_chain.c
    iprouting_cmn/src/routetag_list.c
}
sub: router_af_actions_registry
{
  contains:
    iprouting_cmn/src/router_af_actions_registry.c
}

```

```

sub: router_topology_registry
{
  contains:
    iprouting_cmn/src/router_topology_registry.c
}
sub: routing_context
{
  contains:
    iprouting_cmn/src/routing_context.c
}
sub: routing_context_registry
{
  contains:
    iprouting_cmn/src/routing_context_registry.c
}
}
# end of group: iprouting_cmn

```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/content.lst

No license file was found, but licenses were detected in source scan.

```

/* $Id$
* $Source$
*-----
* route1.c -- Routing Support: Common Routines
*
* 22-March-1986, Kirk Lougheed
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route1.c

No license file was found, but licenses were detected in source scan.

```

/*
*
*-----
* Generic tag list support.
*
* June 2011, Karthik Subramaniam
*

```

\* Copyright (c) 1997-2008, 2010-2012 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routetag\_list.c

No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_routemap\_match\_policy.h,v 3.3 1995/11/28 19:50:34 widmer Exp \$

\* \$Source: /swt/cherf.111/ios/sys/iprouting/cfg\_routemap\_match\_policy.h,v \$

\*-----

\* cfg\_routemap\_match\_policy.h -- Route map match clauses for policy

\* routing.

\*

\* Mar 1995 Tony Li

\*

\* Copyright (c) 1995, 2001-2002, 2007-2009, 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: cfg\_routemap\_match\_policy.h,v \$

\* Revision 3.3 1995/11/28 19:50:34 widmer

\* CSCdi44251: Replace Ifelse(csb->in\_help)/Eval with Func

\*

\* Revision 3.2 1995/11/17 17:31:48 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:05:10 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.3 1995/06/21 18:16:00 widmer

\* CSCdi36227: Fix parse chain alternates

\*

\* Revision 2.2 1995/06/15 15:18:44 widmer

\* CSCdi35889: parser transition structures should be static

\*

\* Revision 2.1 1995/06/07 21:05:32 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-

tar/iprouting\_cmn/include/cfg\_routemap\_match\_policy.h

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* exec_debug_protofltr.h
*
* Jan 2006, Mercia Zheng
*
* Copyright (c) 2005-2009 by cisco Systems, Inc.
*
* All Rights Reserved
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_debug_protofltr.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* route3_parse.h
*
* Route parser functions declarations.
*
* March 2002, Victor Kamensky
*
* Copyright (c) 2002, 2005-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/route3_parse.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: cfg_int_ip2_routing.h,v 3.2.60.1 1996/08/12 16:03:24 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_int_ip2_routing.h,v $
*-----
* cfg_int_ip2_routing.h
*
* May 1994, Derek Yeung
*
* Copyright (c) 1993-1996, 1998-1999, 2007-2009 by cisco Systems, Inc.
* All rights reserved.
*
* IP routing interface commands that must be after the encapsulation command
* in NV order.
*-----
* $Log: cfg_int_ip2_routing.h,v $
* Revision 3.2.60.1 1996/08/12 16:03:24 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
```



```

* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2 1995/11/17 17:31:23 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09
12:04:31 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.2 1995/08/04 03:07:45 dstine
* CSCdi37681: Need event logging for EIGRP
*
* Revision 2.1 1995/07/01 12:15:32 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:05:27 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_int_ip2_routing.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id: rouource_commande_map.c,v 3.4.10.11 1996/07/09 07:35:58 dawnli Exp $
* $Source: /release/112/cvs/Xsys/iprouting/route_map.c,v $
*-----
* route_map.c -- Route map support routines.
*
* 23-January-1993
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: route_map.c,v $
* Revision 3.4.10.11 1996/07/09 07:35:58 dawnli
* CSCdi57006: route-map in configuration are stored/displayed in reverse
* order
* Branch: California_branch
*
* Revision 3.4.10.10 1996/06/28 23:19:51 hampton
* Remove gratuitous casting. [CSCdi61655]
* Branch: California_branch

```

\*  
 \* Revision 3.4.10.9 1996/06/05 08:27:06 rchandra  
 \* CSCdi59547: Routemap: %SYS-4-REGEXP: NULL string parameter error  
 \* Branch: California\_branch  
 \* - do not pass null path to route\_map\_match\_aspath  
 \*  
 \* Revision 3.4.10.8 1996/06/03 23:24:12 ahh  
 \* CSCdi59119: IP: NAT should support named access-lists  
 \* And extended access-lists and non-contiguous address pools.  
 \* Branch: California\_branch  
 \*  
 \* Revision 3.4.10.7 1996/05/04 01:22:39 wilber  
 \* Branch: California\_branch  
 \*  
 \* Constrained Multicast Flooding  
 \* - Define MOSPF hello option bit.  
 \*  
 \* Name Access List  
 \*  
 \* Revision 3.4.10.6 1996/04/16 19:02:21 rchandra  
 \* CSCdi54830: IP features commit  
 \* Branch: California\_branch  
 \*  
 \* Revision 3.4.10.5 1996/04/05 03:46:40 rchandra  
 \* CSCdi53755: BGP: flap dampening settings not flexible enough  
 \* Branch: California\_branch  
 \* - add route-map support to set flap dampening parameters  
 \*  
 \* Revision 3.4.10.4 1996/04/02 07:29:30 dkatz  
 \* CSCdi52277: Redistribution metric problems with IGRP/EIGRP  
 \* Branch: California\_branch  
 \* Always store canonical metrics scaled for IGRP, and make EIGRP do  
 \* its own scaling internally. Get the scaling right in all  
 \* three  
 \* places.  
 \*  
 \* Revision 3.4.10.3 1996/03/28 23:59:18 rchandra  
 \* CSCdi52098: BGP: exact keyword not accepted by route-map in community  
 \* match  
 \* Branch: California\_branch  
 \* - fix my silly bug in handling exact community matching  
 \* - limit the range of valid community to 0xFFFF0000  
 \* - fix a cosmetic bug in show ip community-list  
 \*  
 \* Revision 3.4.10.2 1996/03/28 22:28:25 rchandra  
 \* CSCdi52880: BGP: generate error message for unsupported route-map  
 \* options  
 \* Branch: California\_branch

- \* - generate error message when unsupported route-map option is used
- \* - treat confederation EBGp neighbors similar to internal neighbors in
- \* best path selection
- \* - fix the bug in bgp\_compare\_med, so that during MED comparison,
- \* confederation information is skipped properly
- \* - confederation EBGp paths should be inserted into the IP table with
- \* internal distance
- \* - do not consider common-AS neighbors as confederation neighbors
- \* - during 'clear ip bgp dampening'
- avoid skipping paths
- \* - undo the patch to the radix version walker
- \*
- \* Revision 3.4.10.1 1996/03/18 20:29:32 gstovall
- \* Branch: California\_branch
- \* Elvis has left the building. He headed out to California, and took the
- \* port ready changes with him.
- \*
- \* Revision 3.2.26.3 1996/03/16 06:58:25 gstovall
- \* Branch: DeadKingOnAThrone\_branch
- \* Make the king aware of V111\_1\_3.
- \*
- \* Revision 3.2.26.2 1996/03/07 09:50:41 mdb
- \* Branch: DeadKingOnAThrone\_branch
- \* cisco and ANSI/POSIX libraries.
- \*
- \* Revision 3.2.26.1 1996/02/20 01:04:27 dstine
- \* Branch: DeadKingOnAThrone\_branch
- \* Sync from DeadKingOnAThrone\_baseline\_960122 to
- \* DeadKingOnAThrone\_baseline\_960213
- \*
- \* Revision 3.4 1996/02/24 02:01:55 pst
- \* CSCdi49774: modularize regexp's for bgp (part 3)
- \*
- \* Revision 3.3 1996/02/01 06:06:17 hampton
- \* Migrate files out of the parser directory. [CSCdi47717]
- \* Step 2: Change all files which reference the moved parser files to
- \*
- point to their new locations.
- \*
- \* Revision 3.2 1995/11/17 17:37:13 hampton
- \* Remove old entries from the RCS header logs.
- \*
- \* Revision 3.1 1995/11/09 12:10:35 shaker
- \* Bump version numbers from 2.x to 3.x.
- \*
- \* Revision 2.6 1995/09/25 08:31:19 tli
- \* CSCdi40960: ISP jumbo patch 2
- \*

```

* Revision 2.5 1995/07/06 23:12:39 rchandra
* CSCdi36759: BGP : Add conditional per neighbor default generation
* - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.
*
* Revision 2.4 1995/06/23 14:26:05 widmer
* CSCdi36318: multiple route-map commands are not accepted
* Fix route-map command NV generation
*
* Revision 2.3 1995/06/15 15:18:52 widmer
* CSCdi35889: parser transition structures should be static
*
* Revision 2.2 1995/06/08 08:59:19 tli
* CSCdi35274: route-map test-1 crashes IOS
* - If a route map does not set any routing information, it should be
* equivalent to not having policy routed the packet.
* - "match length" clauses
* were having their flag stepped on because the
* flag update routine didn't know about the clause.
*
* Revision 2.1 1995/06/07 21:10:53 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map.c
No license file was found, but licenses were detected in source scan.

```

```

/*-----
* router_af_parse.h
*
* Route Address Family parser functions declarations.
*
* May 2002, Victor Kamensky
*
* Copyright (c) 2002, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/router_af_parse.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$

```

```
*-----  
* Registry for IP FRR infrastructure  
*  
* July 6, 2010 Ahmed Bashandy  
*  
* Copyright (c) 2001-2003, 2005, 2007-2008, 2010 by cisco Systems, Inc.  
* All rights reserved.
```

```
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

`/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/lfafrr_registry.h`

No license file was found, but licenses were detected in source scan.

```
/* $Id$  
* $Source$  
*-----  
* cfg_route_map.h  
*  
* Enter route-map subcommand mode  
*  
* Copyright (c) 1992-1996, 2001-2002, 2007-2010, 2017 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

`/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_route_map.h`

No license file was found, but licenses were detected in source scan.

```
/* $Id$  
* $Source$  
*-----  
* exec_show_ip_extcommunity-list.h  
*  
* April 2000, Rex Fernando  
*  
* Copyright (c) 2000, 2002-2003, 2007-2008 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Endlog$  
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-  
tar/iprouting\_cmn/internal\_inc/exec\_show\_ip\_policylist.h

No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_routemap\_set\_ip\_policy.h,v 3.3.52.1 1996/06/18 19:06:39 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_routemap\_set\_ip\_policy.h,v \$

\*-----

\* cfg\_routemap\_set\_ip\_policy.h -- IP policy specific route map clauses

\*

\* Mar 1995 Tony Li

\*

\* Copyright (c) 1995-1998, 2000, 2002, 2004, 2007-2009 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: cfg\_routemap\_set\_ip\_policy.h,v \$

\* Revision 3.3.52.1 1996/06/18 19:06:39 widmer

\* CSCdi59706: parser lets you set tos/precedence bits forever (input  
\* loop)

\* Branch: California\_branch

\*

\* Revision 3.3 1995/11/28 19:50:38 widmer

\* CSCdi44251: Replace Ifelse(csb->in\_help)/Eval with Func

\*

\* Revision 3.2 1995/11/17 17:31:53 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09

12:05:16 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.5 1995/08/16 01:01:15 tli

\* CSCdi38512: Policy: TOS and precedence long help says match instead of  
\* set

\*

\* Revision 2.4 1995/07/12 07:19:09 tli

\* CSCdi36426: Policy routing will not disable on an interface

\* - Policy routed packets were creating fastswitching cache entries.

\* That's not till \_next\_ release.

\* - Add counters to record packet and byte count on a per route map entry  
\* basis.

\* - Marketing identified a catastrophic deficiency. Implemented "set ip

\* tos" and "set ip precedence" to cover this deficiency.

\*

\* Revision 2.3 1995/06/21 18:16:02 widmer

\* CSCdi36227: Fix parse chain alternates

\*

\* Revision 2.2 1995/06/15 15:18:47 widmer  
\* CSCdi35889: parser transition structures should be static  
\*  
\* Revision 2.1 1995/06/07 21:05:39 hampton  
\* Bump version numbers from 1.x to 2.x.  
\*  
\*-----  
\*  
\$Endlog\$  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-  
tar/iprouting\_cmn/include/cfg\_routermap\_set\_ip\_policy.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router\_passive-interface.h,v 3.2.60.1 1996/08/12 16:03:49 widmer Exp \$  
\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_passive-interface.h,v \$  
\*-----  
\* C F G \_ R O U T E R \_ P A S S I V E \_ I N T . H  
\*  
\* Copyright (c) 1992-1999, 2001-2010, 2018 by cisco Systems, Inc.  
\* All Rights Reserved  
\*-----  
\* \$Log: cfg\_router\_passive-interface.h,v \$  
\*-----  
\* \$Endlog\$  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_passive-  
interface.h  
No license file was found, but licenses were detected in source scan.

/\*  
\*-----  
\* routemap\_debug.c -- Routemap debugging support  
\*  
\* July 1998, Wilber Su  
\*  
\* Copyright (c) 1998, 2004, 2006-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_debug.c

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* CFG_ROUTER_TOPO_REDISTRIBUTE.H
*
* October 2004, Lisa Z Xu
*
* Copied from and modified based on cfg_router_redistribute.h.
* Warning:
* If you modify this file, please also check cfg_router_redistribute.h
* to see if the changes apply to config-router mode as well.
*
* Copyright (c) 2004-2011, 2018-2021 by Cisco Systems, Inc.
* All Rights Reserved
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/src/cfg_router_topo_redistribute.h
```

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* route_map_ionblob.c -- Route Maps support for ION Blob
*
* October 2001, Siva Yaragalla
*
* Copyright (c) 2001-2009, 2011, 2013, 2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_ionblob.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----
* router_af_parse_blob.c
*
* Address family submode command - proxy EOLs
*
* May 2002, Victor Kamensky
*
* Copyright (c) 2002-2005, 2007-2009 by cisco Systems, Inc.
* All Rights Reserved
*-----
```



\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/router\_af\_parse\_blob.c  
No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* topo\_aware.h - Define multi-topology awareness

\*

\* March 2005, Les Ginsberg

\*

\* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/topo\_aware.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\*

\* parser\_defs\_route\_map.h

\*

\* Constant definition for route-map command and associated subcommands.

\*

\* Copyright (c) 1985-1996, 1999, 2001, 2004-2005, 2007-2008, 2011, 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/parser\_defs\_route\_map.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* Parse chains for router Address Family mode

\*

\* June 2002, Donnie Savage

\*

\* Copyright (c) 1998-2011, 2013-2014, 2016, 2018-2019 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/router\_af\_chain.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* exec\_debug\_routemap.h -- Debugging for Route-map IPC

\*

\* July 1998, Wilber Su

\*

\* Copyright (c) 1998, 2001-2002, 2004-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/exec\_debug\_routemap.h

No license file was found, but licenses were detected in source scan.

/\* \$Id: exec\_clear\_ip\_prefixlist.h,v 3.1.2.1 1997/12/17 21:36:58 enkechen Exp \$

\* \$Source: /release/111/cvs/Xsys/ip/exec\_clear\_ip\_prefixlist.h,v \$

\*-----

\* exec\_clear\_ip\_prefixlist.h

\*

\* July 1997, Enke Chen

\*

\* Copyright (c) 1995-1998, 2000-2001, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: exec\_clear\_ip\_prefixlist.h,v \$

\* Revision 3.1.2.1 1997/12/17 21:36:58 enkechen

\* CSCdj61356: Prefix-list - facility for efficient route filtering

\* Branch: FIB\_branch

\*

\* Revision 3.1 1997/12/17 01:46:34 enkechen

\* Start with the new file.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/exec\_clear\_ip\_prefixlist.h

No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* iprouting_blob_undef.c -- undefined symbols from blob when
* routing subsystems are pulled out
*
* October, 2002 Phil Winterfield
*
* Copyright (c) 2001-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_blob\_undef.c

No license file was found, but licenses were detected in source scan.

```
/*-----
* iprouting_cmn.c
*
* This file has global definitions common to blob and iprouting proceses.
*
* Copyright (c) 2002-2009, 2011, 2013 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_cmn.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: ip_prefixlist.c,v 1.1 2011/02/02 21:47:40 vkoshi Exp vkoshi $
* $Source: /view/vkoshi-
comp_routing_rel5.rel4_1_1_19.2460.ss.comp1.port/vob/ss.comp1/routing/iprouting_cmn/src/ip_prefixlist.c,v $
*-----
* Generic prefix list support.
*
* June 1997, Enke Chen
*
* Copyright (c) 1997-2012, 2016, 2020 by cisco Systems, Inc.
```

```

* All rights reserved.
*-----
* $Log: ip_prefixlist.c,v $
* Revision 1.1 2011/02/02 21:47:40 vkoshi
* checkin by port_commit
*
* Revision 3.1.2.4 1998/03/20 17:03:32 enkechen
* CSCdj88889: Prefix-list: sho ip prefix-list summ does not pause
* Branch: FIB_branch
*
* Revision 3.1.2.3 1998/02/23 19:43:44 enkechen
* CSCdj75270: Prefix-list: optimization for downloading large lists
* Branch: FIB_branch
*
* Revision 3.1.2.2 1998/02/11 01:55:32 soma
* Merge FIB_L3 branch into FIB branch
*
* Revision 3.1.2.1.8.1 1998/01/29 00:59:02 enkechen
* CSCdj77190: Prefix-list: mishandling of long prefix-list names
* Branch: FIB_L3_branch
*
* Revision 3.1.2.1 1997/12/17 21:37:00 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:33 enkechen
* Start with the new file.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist.c
No license file was found, but licenses were detected in source scan.

```

```

/* $Id: cfg_router_redistribute.h,v 3.4.20.3 1996/08/12 16:03:50 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_redistribute.h,v $
*-----
* C F G _ R O U T E R _ R E D I S T R I B U T E . H

```

\* Warning:

```

* If you modify this file, please also check cfg_router_topo_redistribute.h
* to see if the changes apply to config-router-topo mode as well.
*
* Copyright (c) 1992-2012, 2014-2015, 2018-2021 by cisco Systems, Inc.
* All Rights Reserved
*-----

```

\* \$Log: cfg\_router\_redistribute.h,v \$

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-

tar/iprouting\_cmn/internal\_inc/cfg\_router\_redistribute.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* iprouting\_DEBUG\_FLAG\_BB.h -- Debugging flag declarations for IP routing

\*

\* May 1993, John Bashinski

\*

\* Copyright (c) 1993-2011, 2013, 2015, 2018-2020 by Cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/iprouting\_debug\_flags.h

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* iprouting\_parser.h -- IP routing parser API header file

\*

\* April - 2007, Selva Subramanian

\*

\* Copyright (c) 2001-2009 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_parser.h

No license file was found, but licenses were detected in source scan.

# \$Id\$

#

#-----

#

# iprouting.startup - ION iprouting process .startup file

#

```
# October, 2001, Fan Kong
#
#-----
#
# Copyright (c) 2001-2002, 2004-2007 by cisco Systems, Inc.
# All rights reserved.
#
#-----
```

```
name:iprouting.iosproc
path:/sbin
feature:iprouting
level:100
envs:RLIMIT_NOFILE=65535
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting.startup
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* policylist.c - Routines to handle policy-list commands
*
* Apr. 2000, Rex Fernando
*
* Copyright (c) 2000, 2002-2011, 2016-2017, 2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/policylist.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: ip_routing.c,v 3.2 1995/11/17 17:34:11 hampton Exp $
* $Source: /swtal/cherf.111/ios/sys/iprouting/ip_routing.c,v $
*-----
* ip_routing.c -- Generic IP routing functions
*
* Mar 1995 Tony Li
*
* Copyright (c) 1995-1998, 2002-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: ip_routing.c,v $
* Revision 3.2 1995/11/17 17:34:11 hampton
* Remove old entries from the RCS header logs.
```

\*  
\* Revision 3.1 1995/11/09 12:08:05 shaker  
\* Bump version numbers from 2.x to 3.x.  
\*  
\* Revision 2.1 1995/06/07 21:07:03 hampton  
\* Bump version numbers from 1.x to 2.x.  
\*

\*-----  
\* \$Endlog\$  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_routing.c  
No license file was found, but licenses were detected in source scan.

/\*-----  
\* router\_af\_parse.c  
\*  
\* Route Address Family command and action definitions. Derived from  
\* router\_af\_chain.c  
\*  
\* May 2002, Victor Kamensky  
\*  
\* Copyright (c) 2002-2010, 2012, 2014-2016, 2019 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/router\_af\_parse.c  
No license file was found, but licenses were detected in source scan.

/\*-----  
\* ip\_prefixlist\_chain.c - Parse chains for IP Prefix Lists  
\*  
\* August 2001, Siva Yaragalla  
\*  
\* Copyright (c) 2001-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_chain.c  
No license file was found, but licenses were detected in source scan.

/\*

```
*-----
* Registry for IP route commands in ION
*
* September 2001, Rashmi Shrivastava
*
* Copyright (c) 2001, 2003-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/ion_iprouting_cmd_registry.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* routemap_api_util.c -- Dynamic routemap API utility functions.
*
* May 2003, Tanya Shastri
*
* Copyright (c) 2003, 2005-2010, 2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_api_util.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* iprouting_init_ios.c -- IP Routing Init code for Native IOS only
*
* October 2001, Rashmi Shrivastava
*
* Copyright (c) 2001-2009 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_ios.c
No license file was found, but licenses were detected in source scan.
```



```

/* $Id$
* $Source$
* -----
* cfg_router_summary_addr.h
*
* Supports the router subcommand "summary-address". Provides IP aggregation
* configuration.
*
* Copyright (c) 1992-2004, 2007-2010, 2015, 2018 by cisco Systems, Inc.
* All rights reserved.
*
* Longer description here.
* -----
* $Log$
* -----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_summary_addr.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id: cfg_router_neighbor.h,v 3.3.20.1 1996/08/12 16:03:45 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_neighbor.h,v $
* -----
* C F G _ R O U T E R _ N E I G H B O R . H
*
* Copyright (c) 1992-2002, 2004-2010, 2012, 2018 by cisco Systems, Inc.
* All Rights Reserved
* -----
* $Log: cfg_router_neighbor.h,v $
* Revision 3.3.20.1 1996/08/12 16:03:45 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3 1996/02/01 23:33:57 widmer
* CSCdi45325: Change Keyword/Set to use Keyword_Id macro
*
* Revision 3.2 1995/11/17 17:32:14 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1
  1995/11/09 12:05:42 shaker
* Bump version numbers from 2.x to 3.x.
*

```

```
* Revision 2.1 1995/07/01 12:15:55 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:48 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_neighbor.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* exec_clear_routemap.h -- clear route-map counters
*
* Copyright (c) 1986-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_clear_routemap.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* router_topology_parse.c - Router topology command definitions.
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004-2010, 2019-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_topology_parse.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: ip_prefixlist.h,v 3.1.2.3 1998/02/23 19:43:44 enkechen Exp $
* $Source: /release/111/cvs/Xsys/ip/ip_prefixlist.h,v $
*-----
* Generic prefix list support.
*

```

```

* June 1997, Enke Chen
*
* Copyright (c) 1997-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: ip_prefixlist.h,v $
* Revision 3.1.2.3 1998/02/23 19:43:44 enkechen
* CSCdj75270: Prefix-list: optimization for downloading large lists
* Branch: FIB_branch
*
* Revision 3.1.2.2 1998/02/11 01:55:34 soma
* Merge FIB_L3 branch into FIB branch
*
* Revision 3.1.2.1.8.1 1998/01/29 01:02:13 enkechen
* CSCdj77191: Reduce several chunk size parameters to save memory
* Branch: FIB_L3_branch
*
* Revision 3.1.2.1 1997/12/17 21:37:00 enkechen
* CSCdj61356: Prefix-list - facility for efficient route
filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:32 enkechen
* Start with the new file.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/ip_prefixlist.h
No license file was found, but licenses were detected in source scan.

```

```

/*

```

```

*-----

```

```

* route_map_blob.c -- Route Map Subsystem

```

```

*

```

```

* Aug 2001, Siva Yaragalla

```

```

*

```

```

* Copyright (c) 2001-2012, 2014-2018 by cisco Systems, Inc.

```

```

* All rights reserved.

```

```

*-----

```

```

*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_blob.c
No license file was found, but licenses were detected in source scan.

```

```
/*
*-----
* iprouting_parser_linkpoints.h - iprouting parser linkpoint decls.
*
* April, 2005
*
* Copyright (c) 2005, 2007-2008, 2015 by cisco Systems, Inc.
* All rights reserved.
*
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/iprouting_parser_linkpoints.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: cfg_ip_routing_routing.h,v 3.3.46.3 1996/08/12 16:03:33 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_ip_routing_routing.h,v $
*-----
* IP routing routing commands
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-2000, 2002-2009 by cisco Systems, Inc.
* All rights reserved.
*
*-----
* $Log: cfg_ip_routing_routing.h,v $
* Revision 3.3.46.3 1996/08/12 16:03:33 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3.46.2 1996/06/17 23:33:31 hampton
* Implement the long sought parser "default" keyword. [CSCdi60510]
* Branch: California_branch
*
* Revision 3.3.46.1 1996/04/15 21:17:41 bcole
*
CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
*
* Revision 3.3 1995/12/10 00:42:36 pst
* CSCdi38750: Allow static routes with both next hop and interface
* also add "permanent" keyword for non-flapping static routes
```

```

*
* Revision 3.2 1995/11/17 17:31:40 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:04:59 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.4 1995/10/23 18:33:19 pst
* CSCdi42608: allow IP cache ager to be shut down, make the
* "ip cache-ager" and "ip cache-invalidate-delay"
* commands internal only.
*
* Revision 2.3 1995/07/13 21:39:05 ahh
* CSCdi36962: UDP parsing of tacacs-ds port name broken
* Restore "tacacs-ds" as a keyword, but hide it and map it to TACACS_PORT
* for backwards compatibility.
*
* Revision 2.2 1995/07/11 21:52:08 raj
* CSCdi36510: parser doesnt accept ip forward-protocol
udp xdmcp
* (Actually the parser didn't accept *any* symbolic names in the position
* of the UDP port number; only numbers. It now uses the UDP_PORT macro
* instead.
*
* Revision 2.1 1995/07/01 12:15:42 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:08:34 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

`/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_ip_routing_routing.h`

No license file was found, but licenses were detected in source scan.

```

/*-----
* router_topology_registry.c
*
* Router topology registry.
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.

```

```
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_topology_registry.c  
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$  
* $Source$  
*-----  
* route2.c -- Routing Support: User Interface Routines  
*  
* 22-March-1986, Kirk Lougheed  
*  
* Copyright (c) 1986-2020 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route2.c  
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$  
* $Source$  
*-----  
* IP routing parse chains  
*  
* May 1993, Robert Widmer  
*  
* Copyright (c) 1993-2012, 2015-2016 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_chain.c  
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$  
* $Source$
```

```
*-----  
* lfafr_registry.c  
*  
* July 2010, Ahmed Bashandy  
*  
* Copyright (c) 2001, 2003, 2005, 2007-2008, 2010 by cisco Systems, Inc.  
* All rights reserved.
```

```
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/lfafr_registry.c
```

No license file was found, but licenses were detected in source scan.

```
/*  
*-----  
* ip_prefixlist_ionblob.c - IP Prefix Lists support for IONized clients  
*  
* January 2002, Siva Yaragalla  
*  
* Copyright (c) 2002-2003, 2005, 2007-2008 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist_ionblob.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* exec_routing_context.h  
*  
* This file defines the routing-context command syntax.  
*  
* March 2009, Derek Yeung  
*  
* Copyright (c) 2009-2010, 2015, 2020 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_routing_context.h
```

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* cfg_router_topology_exit.h - Exit from router topology sub mode.
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004, 2006-2009 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_topology_exit.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: iprouting_init.c,v 1.1 2003/06/13 18:30:09 dsavage Exp dsavage $
* $Source: /view/dsavage-CSCdy77097-rip-V123/vob/ios.sys2/sys/iprouting/iprouting_init.c,v $
*-----
* iprouting_init.c -- initialize IP Routing Protocol support.
*
* 20-August-1985, Kirk Lougheed
*
* Copyright (c) 1985-2012, 2016, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: iprouting_init.c,v $
* Revision 1.1 2003/06/13 18:30:09 dsavage
* Initial revision
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* Address-family command; enters Address Family mode.
*
* Sept 1998, Bob Thomas
*
* Copyright (c) 1998-1999, 2001-2010, 2012, 2018 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
```



```
*-----  
* $Endlog$  
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_af.h  
No license file was found, but licenses were detected in source scan.
```

```
/*  
*-----  
* cfg_routetag_list.h -- Route Tag List Parser Command  
*  
* June 2011, Karthik Subramaniam  
*  
* Copyright (c) 1997-2001, 2004, 2007-2008, 2011, 2013 by cisco Systems, Inc.  
* All rights reserved.  
*  
*-----  
* $Endlog$  
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routetag_list.h  
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$  
* $Source$  
*-----  
* protofltr.c -- Routing protocol filter manager support routines  
*  
* Jan 2006, Mercia Zheng  
*  
* Copyright (c) 2005-2011, 2020 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/protofltr.c  
No license file was found, but licenses were detected in source scan.
```

```
/*  
*-----  
* exec_show_routetag_list.h  
*  
*-----
```

\* Copyright (c) 1993-1996, 1998, 2003-2008, 2011 by cisco Systems, Inc.

\* All rights reserved.

\*

\* Command parsing chain for "show route-tag".

\*-----

\*

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/exec\_show\_routetag\_list.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* Debugging flag declarations for protocol filter manager - ION

\*

\* Jan 2006, Mercia Zheng

\*

\* Copyright (c) 2005-2008 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/protofltr\_debug\_flags\_ion.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* ipv4\_subsys.c - IPv4 Routing Startup Subsystem

\*

\* July 2005, Mark Schaefer

\*

\* Copyright (c) 2005-2010, 2013 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ipv4\_subsys.c

No license file was found, but licenses were detected in source scan.

/\*-----

\* routemap\_internal.c -- Internal funtions of routemap code.

\*

\* May 2003, Tanya Shastri

\*

\* Copyright (c) 2003, 2005-2009, 2011-2019 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_internal.c

No license file was found, but licenses were detected in source scan.

/\*-----

\* iprouting\_parse\_blob.c

\*

\* Parser support for IP ROUTING .

\* This file implements proxy eols that call iprouting parser remote

\* registries.

\*

\* September 2001, Rashmi Shrivastava

\*

\* Copyright (c) 2001-2009 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_parse\_blob.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* policylist\_ionized.c - Routines to handle policy-list commands for

\* IONized processes.

\*

\* November 2003, Siva Yaragalla

\*

\* Copyright (c) 2003-2005, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/policylist\_ionized.c

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* C F G \_ R O U T E R \_ O U T P U T - D E L A Y . H

\*

\* router RIP inter-frame gap subcommand

```

*
* Aug 1996, Dawn Li
*
* Copyright (c) 1996, 1998-1999, 2001, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_output-delay.h

```

## 1.167 ethtool 5.8-5.el8

### 1.167.1 Available under license :

No license file was found, but licenses were detected in source scan.

```

# Original Creation Date Unknown
# Copyright (c) 2018 by Cisco Systems, Inc.
# All rights reserved.

```

```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/staprun          usr/bin/staprun
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/libexec/systemtap/stapio  usr/libexec/systemtap/stapio

```

Found in path(s):

```

* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/systemtap

```

No license file was found, but licenses were detected in source scan.

```

#
# Copyright (c) 2018-2020 by Cisco Systems, Inc.
# All rights reserved.
#
# This file contains all needed files related to nfs server daemon.
#

```

```

infra/systemd/nfs-mountd.service          usr/lib/systemd/system/nfs-mountd.service
infra/systemd/nfs-server.service          usr/lib/systemd/system/nfs-server.service
infra/systemd/proc-fs-nfsd.mount          usr/lib/systemd/system/proc-fs-nfsd.mount

```

```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/exportfs  usr/sbin/exportfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.mountd  usr/sbin/rpc.mountd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.nfsd  usr/sbin/rpc.nfsd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rpcinfo  usr/bin/rpcinfo

```

(include nfs-common)

```
# The following kernel modules are needed when NFSV4 support is configured
# in kernel.
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko
```

```
-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
```

Found in path(s):

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-utils
No license file was found, but licenses were detected in source scan.
```

```
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved.
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/journalctl                usr/bin/journalctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemctl                usr/bin/systemctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-inhibit          usr/bin/systemd-inhibit
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-notify           usr/bin/systemd-notify
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-tmpfiles          usr/bin/systemd-tmpfiles
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/udevadm                  usr/bin/udevadm
contrib/yocto/CGE7/journald.conf                                    etc/systemd/journald.conf
infra/systemd/system.conf                                          etc/systemd/system.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/systemd/user.conf            etc/systemd/user.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/udev/udev.conf                etc/udev/udev.conf
/usr/lib/systemd/systemd                                           init
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-generators/systemd-fstab-generator
usr/lib/systemd/system-generators/systemd-fstab-generator
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/basic.target
usr/lib/systemd/system/basic.target
/usr/lib/systemd/system/reboot.target                                usr/lib/systemd/system/ctrl-alt-del.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-hugepages.mount
usr/lib/systemd/system/dev-hugepages.mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/dev-mqueue.mount
infra/systemd/emergency.service                                    usr/lib/systemd/system/emergency.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/emergency.target
usr/lib/systemd/system/emergency.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/final.target
usr/lib/systemd/system/final.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/halt.target
usr/lib/systemd/system/halt.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/kexec.target
usr/lib/systemd/system/kexec.target
```

```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/local-fs-pre.target
usr/lib/systemd/system/local-fs-pre.target
infra/systemd/local-fs.target                               usr/lib/systemd/system/local-fs.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/network-online.target
usr/lib/systemd/system/network-online.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/network.target
    usr/lib/systemd/system/network.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/paths.target
usr/lib/systemd/system/paths.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/poweroff.target
usr/lib/systemd/system/poweroff.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/reboot.target
usr/lib/systemd/system/reboot.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/remote-fs.target
usr/lib/systemd/system/remote-fs.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/rescue.service
usr/lib/systemd/system/rescue.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/rescue.target
usr/lib/systemd/system/rescue.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/shutdown.target
usr/lib/systemd/system/shutdown.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/slices.target
    usr/lib/systemd/system/slices.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sockets.target
usr/lib/systemd/system/sockets.target
/usr/lib/systemd/system/systemd-journald.socket
usr/lib/systemd/system/sockets.target.requires/systemd-journald.socket
/usr/lib/systemd/system/systemd-udev-control.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udev-control.socket
/usr/lib/systemd/system/systemd-udev-kernel.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udev-kernel.socket
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sys-kernel-config.mount
usr/lib/systemd/system/sys-kernel-config.mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sys-kernel-debug.mount
usr/lib/systemd/system/sys-kernel-debug.mount
/usr/lib/systemd/system/dev-hugepages.mount
    usr/lib/systemd/system/sysinit.target.wants/dev-hugepages.mount
/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/sysinit.target.wants/dev-mqueue.mount
/usr/lib/systemd/system/sys-kernel-config.mount
usr/lib/systemd/system/sysinit.target.wants/sys-kernel-config.mount
/usr/lib/systemd/system/sys-kernel-debug.mount
usr/lib/systemd/system/sysinit.target.wants/sys-kernel-debug.mount
/usr/lib/systemd/system/systemd-journal-flush.service
usr/lib/systemd/system/sysinit.target.wants/systemd-journal-flush.service
/usr/lib/systemd/system/systemd-journald.service
usr/lib/systemd/system/sysinit.target.wants/systemd-journald.service
/usr/lib/systemd/system/systemd-modules-load.service

```

usr/lib/systemd/system/sysinit.target.wants/systemd-modules-load.service

/usr/lib/systemd/system/systemd-sysctl.service

usr/lib/systemd/system/sysinit.target.wants/systemd-sysctl.service

/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service

usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup-dev.service

/usr/lib/systemd/system/systemd-tmpfiles-setup.service

usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup.service

/usr/lib/systemd/system/systemd-udev-trigger.service

usr/lib/systemd/system/sysinit.target.wants/systemd-udev-trigger.service

/usr/lib/systemd/system/systemd-udev.service

usr/lib/systemd/system/sysinit.target.wants/systemd-udev.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-halt.service

usr/lib/systemd/system/systemd-halt.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journal-flush.service

usr/lib/systemd/system/systemd-journal-flush.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journald-dev-log.socket

usr/lib/systemd/system/systemd-journald-dev-log.socket

infra/systemd/systemd-journald.service.d/visible.conf

usr/lib/systemd/system/systemd-journald.service.d/visible.conf

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-fsck@.service

usr/lib/systemd/system/systemd-fsck@.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journald.socket

usr/lib/systemd/system/systemd-journald.socket

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-kexec.service

usr/lib/systemd/system/systemd-kexec.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-modules-load.service

usr/lib/systemd/system/systemd-modules-load.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-poweroff.service

usr/lib/systemd/system/systemd-poweroff.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-reboot.service

usr/lib/systemd/system/systemd-reboot.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-sysctl.service

usr/lib/systemd/system/systemd-sysctl.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service

usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup.service

usr/lib/systemd/system/systemd-tmpfiles-setup.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-udev-settle.service

usr/lib/systemd/system/systemd-udev-settle.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-udev-trigger.service

usr/lib/systemd/system/systemd-udev-trigger.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-udev-control.socket

usr/lib/systemd/system/systemd-udev-control.socket

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-udev-kernel.socket

usr/lib/systemd/system/systemd-udev-kernel.socket

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/timers.target

usr/lib/systemd/system/timers.target

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/time-sync.target

```

usr/lib/systemd/system/time-sync.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/umount.target
usr/lib/systemd/system/umount.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd                usr/lib/systemd/systemd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-socket-activate          usr/bin/systemd-socket-
activate
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-bootchart
usr/lib/systemd/systemd-bootchart
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-fsck
usr/lib/systemd/systemd-fsck
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-journald          usr/lib/systemd/systemd-
journald
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-modules-load
usr/lib/systemd/systemd-modules-load
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-shutdown
usr/lib/systemd/systemd-shutdown
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-sysctl            usr/lib/systemd/systemd-
sysctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-timedated
usr/lib/systemd/systemd-timedated
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-udev              usr/lib/systemd/systemd-
udev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/udev/rules.d/50-udev-default.rules
usr/lib/udev/rules.d/50-udev-default.rules
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/udev/rules.d/99-systemd.rules
usr/lib/udev/rules.d/99-systemd.rules
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-analyze                  usr/bin/systemd-analyze
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/machine.slice
usr/lib/systemd/system/machine.slice
infra/systemd/systemd-journald.service.d/visible.conf                    usr/lib/systemd/system/systemd-
journald.service.d/visible.conf

infra/systemd/sysctl/inotify-user-instances.conf                          etc/sysctl.d/inotify-user-instances.conf

```

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/systemd-common

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(include systemd-common)

```

infra/systemd/switchroot/sysinit.target                usr/lib/systemd/system/sysinit.target
infra/systemd/switchroot/systemd-journald.service     usr/lib/systemd/system/systemd-
journald.service
infra/systemd/switchroot/systemd-timedated.service    usr/lib/systemd/system/systemd-
timedated.service

```



```
infra/systemd/switchroot/systemd-udev.service          usr/lib/systemd/system/systemd-
udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald-audit.socket
usr/lib/systemd/system/systemd-journald-audit.socket
```

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/systemd-swrt

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```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/dmesg      usr/bin/dmesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/kill       usr/bin/kill
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mount      usr/bin/mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/umount     usr/bin/umount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/agetty    usr/sbin/agetty
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/blockdev  usr/sbin/blockdev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/cfdisk    usr/sbin/cfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/ctrlaltdel  usr/sbin/ctrlaltdel
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdisk     usr/sbin/fdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fsck      usr/sbin/fsck
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/hwclock   usr/sbin/hwclock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkswap    usr/sbin/mkswap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/pivot_root
  usr/sbin/pivot_root
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sfdisk    usr/sbin/sfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapoff   usr/sbin/swapoff
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapon    usr/sbin/swapon
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/arch       usr/bin/arch
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/cal        usr/bin/cal
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/chrt       usr/bin/chrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/col        usr/bin/col
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colcrt     usr/bin/colcrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colrm      usr/bin/colrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/column     usr/bin/column
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/flock      usr/bin/flock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/getopt     usr/bin/getopt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/hexdump    usr/bin/hexdump
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ionice     usr/bin/ionice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcrm
  usr/bin/ipcrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcs       usr/bin/ipcs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/isosize    usr/bin/isosize
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/last       usr/bin/last
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/logger     usr/bin/logger
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/look       usr/bin/look
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/lslblk     usr/bin/lslblk
```

```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mesg    usr/bin/mesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/namei    usr/bin/namei
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/newgrp   usr/bin/newgrp
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/nsenter  usr/bin/nsenter
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/renice   usr/bin/renice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rev      usr/bin/rev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/script  usr/bin/script
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setsid   usr/bin/setsid
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setterm  usr/bin/setterm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/taskset  usr/bin/taskset
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ul       usr/bin/ul
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/wall     usr/bin/wall
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/whereis  usr/bin/whereis
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/write    usr/bin/write
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdformat usr/sbin/fdformat
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkfs    usr/sbin/mkfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/raw     usr/sbin/raw
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/zramctl  usr/sbin/zramctl

```

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/util-linux

No license file was found, but licenses were detected in source scan.

#

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(include audit)

(include bash)

(include binutils)

(include bridge-utils)

(include busybox)

(include bzip2)

(include coreutils)

(include cpio)

(include dbus)

(include diffutils)

(include dosfstools)

(include e2fsprogs)

(include ethtool)

(include file)

(include filesystem)

(include findutils)

(include gawk)

(include glibc)

(include grep)

```
(include gzip)
(include initscripts)
(include ipcalc)
(include iproute2)
(include iptables)
(include iputils)
(include kexec-tools)
(include kmod)
(include less)
(include libcap)
(include lsof)
(include modules)
(include ncurses)
(include netbase)
(include netcat)
(include netkit-telnet)
(include net-tools)
(include ${NFS_VER}/nfs-utils-client)
(include pciutils)
(include procps)
(include psmisc)
(include rpcbind)
(include sed)
(include shadow)
(include strace)
(include sysklogd)
(include systemtap)
(include sysvinit)
(include
tar)
(include tcpdump)
(include tftp-hpa)
(include traceroute)
(include util-linux)
```

Found in path(s):

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all-common
```

No license file was found, but licenses were detected in source scan.

```
#
```

```
# Copyright (c) 2018 by Cisco Systems, Inc.
```

```
# All rights reserved.
```

```
# This file is to store extra files needed to support NFSV4 client.
```

```
#
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mount.nfs usr/sbin/mount.nfs
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/umount.nfs usr/sbin/umount.nfs
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mount.nfs4 usr/sbin/mount.nfs4
```

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/umount.nfs4 usr/sbin/umount.nfs4

contrib/initscripts/binos/etc/\${NFS\_VER}/nfsmount.conf etc/nfsmount.conf  
\${PLATFORM\_SYSROOT}/usr/lib/modules/\${KERNEL\_VER}/kernel/fs/nfs/nfsv4.ko  
usr/lib/modules/\${KERNEL\_VER}/kernel/fs/nfs/nfsv4.ko

(include nfs-common)

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-utils-client

No license file was found, but licenses were detected in source scan.

#

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(include all-common)

(include systemd)

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/all

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#

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#files related to nfs-statd.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.statd usr/sbin/rpc.statd

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/sm-notify usr/sbin/sm-notify

infra/systemd/nfs-statd.service usr/lib/systemd/system/nfs-statd.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/nfsstat usr/sbin/nfsstat

#files related to nfs-idmapd.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.idmapd usr/sbin/rpc.idmapd

infra/systemd/var-lib-nfs-rpc\_pipefs.mount usr/lib/systemd/system/var-lib-nfs-rpc\_pipefs.mount

# plugin nsswitch for rpc.idmapd can not be figure out automatilly by dependency.

# The directory for plugin is fix to usr/lib/libnfsidmap

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/\${LIB}/libnfsidmap/nsswitch.so usr/lib/libnfsidmap/nsswitch.so

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/idmapd.conf

etc/idmapd.conf

infra/systemd/nfs-idmapd.service usr/lib/systemd/system/nfs-idmapd.service

contrib/initscripts/binos/etc/\${NFS\_VER}/nfs-utils.conf etc/nfs-utils.conf

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-common

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ipcalc usr/bin/ipcalc

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/ipcalc

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#  
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#  
# This file contains all needed files related to nfs server daemon.

#  
infra/systemd/nfs-mountd.service           usr/lib/systemd/system/nfs-mountd.service  
infra/systemd/nfs-server.service         usr/lib/systemd/system/nfs-server.service  
infra/systemd/proc-fs-nfsd.mount         usr/lib/systemd/system/proc-fs-nfsd.mount

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/exportfs   usr/sbin/exportfs  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.mountd   usr/sbin/rpc.mountd  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.nfsd   usr/sbin/rpc.nfsd

(include nfs-common)

# The following optional kernel modules are put here to allow forwarding  
# compatible when NFSV4 support is configured in kernel.  
# When nfsv4 is enabled in kernel, it brings in extra dependency for  
# nfsd.ko, which is needed for nfs3 verver.

#  
so treat extra modules needed by nfsd.ko as optional since it depend on kernel  
# configure.  
#  
# nfsd.ko depend on auth\_rpcgss.ko  
# auth\_rpcgss.ko depend on oid\_registry.ko

-\${PLATFORM\_SYSROOT}/usr/lib/modules/\${KERNEL\_VER}/kernel/lib/oid\_registry.ko  
usr/lib/modules/\${KERNEL\_VER}/kernel/lib/oid\_registry.ko  
-\${PLATFORM\_SYSROOT}/usr/lib/modules/\${KERNEL\_VER}/kernel/net/sunrpc/auth\_gss/auth\_rpcgss.ko  
usr/lib/modules/\${KERNEL\_VER}/kernel/net/sunrpc/auth\_gss/auth\_rpcgss.ko

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/nfsv3/nfs-utils

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(include systemd-common)

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-preset/90-systemd.preset
usr/lib/systemd/system-preset/90-systemd.preset
/usr/lib/systemd/system/tmp.mount                usr/lib/systemd/system/local-
fs.target.requires/tmp.mount
infra/systemd/sysinit.target                    usr/lib/systemd/system/sysinit.target
infra/systemd/cpld-symlink.service              usr/lib/systemd/system/cpld-symlink.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald.service
usr/lib/systemd/system/systemd-journald.service
infra/systemd/systemd-journald.service.d/visible.conf    usr/lib/systemd/system/systemd-
journald.service.d/visible.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-timedated.service
usr/lib/systemd/system/systemd-timedated.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udev.service
usr/lib/systemd/system/systemd-udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/tmp.mount
usr/lib/systemd/system/tmp.mount
```

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/systemd

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#

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(include all-common)

(include systemd-swrt)

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/all-swrt

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```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.statd    usr/sbin/rpc.statd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sm-notify    usr/sbin/sm-notify
infra/systemd/nfs-statd.service                        usr/lib/systemd/system/nfs-statd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/nfsstat      usr/sbin/nfsstat
```

```
contrib/initscripts/binos/etc/${NFS_VER}/nfs-utils.conf  etc/nfs-utils.conf
```

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/nfsv3/nfs-common

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```
#
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#
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ping      usr/bin/ping
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/tracepath  usr/bin/tracepath
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/in.tftpd-hpa  usr/bin/tftpd
```

Found in path(s):

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/iputils
```

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```
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#
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
```

```
contrib/initscripts/binos/etc/audit/auditd.conf      etc/audit/auditd.conf
contrib/initscripts/binos/etc/audit/auditd.conf      etc/audit/auditd.conf
contrib/initscripts/binos/etc/audit/auditd.conf      etc/audit/auditd.conf
contrib/initscripts/binos/etc/audit/auditd.conf      etc/audit/auditd.conf
contrib/initscripts/binos/etc/audit/auditd.conf      etc/audit/auditd.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/default/auditd
etc/default/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/libaudit.conf    etc/libaudit.conf
```

Found in path(s):

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/audit
```

## 1.168 cryptography 3.3.1

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010  
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# 1.175 expat 2.2.5 4.el8

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## 1.181 cyrus-sasl 2.1.27 5.e18

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 * Tim Martin
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\* Rob Siemborski

\*/

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## 1.183 crypto-policies 20200713

## 1.git51d1222.el8

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```
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//
```

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## 1.192.1 Available under license :

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the static EXT2  
file system consistency checker (e2fsck.static). The EXT2 utilities  
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card  
<card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

clean::

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o  
23-June-2007

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Version 2, June 1991

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```
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Gnomovision  
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This is free software, and you are welcome to redistribute it  
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```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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## Constant-time SSSE3 AES core implementation.

## version 0.1

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# COPYING.other          -*- org -*-  
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#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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## 1.197 python-setuptools 39.2.0 6.el8

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## 1.198 pcre 10.32 2.el8

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## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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## 1.199 libgcrypto 1.8.5 4.el8

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from a designated place, then offering equivalent access to copy the  
source code from the same place satisfies the requirement to  
distribute the source code, even though third parties are not  
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the  
Library, but is designed to work with the Library by being compiled or  
linked with it, is called a "work that uses the Library". Such a  
work, in isolation, is not a derivative work of the Library, and  
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library  
creates an executable that is a derivative of the Library (because it  
contains portions of the Library), rather than a "work  
that uses the  
library". The executable is therefore covered by this License.  
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file  
that is part of the Library, the object code for the work may be a  
derivative work of the Library even though the source code is not.  
Whether this is true is especially significant if the work can be  
linked without the Library, or if the work is itself a library. The  
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data  
structure layouts and accessors, and small macros and small inline  
functions (ten lines or less in length), then the use of the object  
file is unrestricted, regardless of whether it is legally a derivative  
work. (Executables containing this object code plus portions of the  
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may  
distribute  
the object code for the work under the terms of Section 6.  
Any executables containing that work also fall under Section 6,  
whether or not they are linked directly with the Library itself.  
^L

6. As an exception to the Sections above, you may also combine or  
link a "work that uses the Library" with the Library to produce a  
work containing portions of the Library, and distribute that work  
under terms of your choice, provided that the terms permit

modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a)

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will

operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,

the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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That's all there is to it!

# 1.200 coreutils 8.30 8.e18

## 1.200.1 Available under license :

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Version 3, 29 June 2007

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# 1.201 libssh 0.9.4 2.e18

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## 1.202 libffi 3.1 22.el8

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## 1.207 vim 8.0.1763 15.el8

## 1.208 lz4 1.8.3 2.el8

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Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

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Copyright (C) <year> <name of author>
```

```
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```

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```
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it  
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```

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```
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```

```
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```

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## 1.211 fdisk 2.32.1

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;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%Q?f_{+T@Uo)2fgYZ
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## 1.212 kerberos 1.18.2-8.el8

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lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
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lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
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lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
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lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
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kadmin/server/ipropr\_svc.c  
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lib/kdb/kdb\_convert.c  
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Written by: Philip Hazel

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Written by: Philip Hazel  
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[Misc C library code]

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[zlib]

/\* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.3, July 18th, 2005

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

\*/

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[dialyzer]

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[edoc, syntax\_tools]

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## 1.221 inetutils 0.17-73.el8\_1.1

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## 1.224 lvm2 1.02.175-

## 0.4.20201222gitb84a992.e18

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## 1.225 rfkill 2.32.1-26.el8

### 1.225.1 Available under license :

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"0h*5x)*x\n)#!$*w!:499X1il:"P+=22cmr3J}/0o9nIB?\N&(q=$pPc!ab,6f&v/RS>O./OW[INy(BM~)-uf$Ngl]"_W[0;
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;*!;_>KfBqxY(F|0.Ve%S61opMG`\YfRXvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%Q?f_{+T@Uo)2fgYZ
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```
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```

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## 0.4.20201222gitb84a992.el8

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\* /opt/cola/permits/1155340545\_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/type/\_\_main\_\_.py

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ASN.1 library for Python

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```

Abstract Syntax Notation One (ASN.1

<[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)>\_) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <<https://pypi.org/project/pyasn1/>> library implements ASN.1 support in pure-Python.

What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <<https://news.ycombinator.com/item?id=8871453>> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol-buffers/>> or `FlatBuffers` <<https://google.github.io/flatbuffers/>>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

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```
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```

`/pyasn1/contents`

Use case

-----

```
.. toctree::  
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```

`/example-use-case`

Download & Install

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```
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```

/download

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

..

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/changelog

## License

-----

The PyASN1 software is distributed under 2-clause BSD License.

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/license

## Getting help

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Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_` and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub.

Alternatively, you could ask for help at

`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_`

or search

`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_` mailing list archive.

## Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

\* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`\_` by Olivier Dubuisson

\* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`\_` by Prof John Larmouth

Here you can get the official standards which is hard to read:

\* `ITU standards

<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`\_

On the other end of the readability spectrum, here is a quick and sweet write up:

\* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`\_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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\* /opt/cola/permits/1155340545\_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/docs/source/contents.rst

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ASN.1 library for Python

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[![PyPI](<https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000>)](<https://pypi.org/project/pyasn1>)  
[![Python Versions](<https://img.shields.io/pypi/pyversions/pyasn1.svg>)](<https://pypi.org/project/pyasn1/>)  
[![Build status](<https://travis-ci.org/etingof/pyasn1.svg?branch=master>)](<https://secure.travis-ci.org/etingof/pyasn1>)  
[![Coverage Status](<https://img.shields.io/codecov/c/github/etingof/pyasn1.svg>)](<https://codecov.io/github/etingof/pyasn1>)  
[![GitHub license](<https://img.shields.io/badge/license-BSD-blue.svg>)](<https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt>)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification]([https://www.itu.int/rec/dologin\\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items)).

Features

-----

\*

- Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.4 up to Python 3.7
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)

by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
    ),
```

```

    DefaultedNamedType(
        'house',
    Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
    )
)
)
)
...

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123

```

```

room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).



How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If

something does not work as expected,

[open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or

post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>)

or try browsing pyasn1

[mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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\* /opt/cola/permits/1155340545\_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/README.md

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\* /opt/cola/permits/1155340545\_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/LICENSE.rst

# 1.234 luajit 2.2.1

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```

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Ty Coon, President of Vice
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## 1.242 golang git-r0

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## 1.245 popt 1.16-r3

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## 1.246 devmem2 1.0-r7

# 1.247 bash 4.2-r6

## 1.247.1 Available under license :

From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP (8.6.10+cwru/CWRU-2.1-ins)

id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)

Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT

Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT

Message-Id: <9505251618.AA16031@tepui.cli.com>

From: friedman@gnu.ai.mit.edu (Noah Friedman)

To: chet@po.cwru.edu

Subject: Bash scripts

Reply-To: friedman@gnu.ai.mit.edu

In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400

References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>

Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged

some of your bash functions from your home directory on

>the FSF machines (naughty, I know), and I was wondering if you'd let

>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in

~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From speccdt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: speccdt@armory.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP (8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from speccdt@armory.com for <chet@odin.INS.CWRU.Edu>)

Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from speccdt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <speccdt@armory.com>

Date: Tue, 9 May 1995 22:33:12 -0700

In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

"ksh scripts" (May 9, 1:36pm)  
X-Www: http://www.armory.com/~spcedt/  
X-Mailer: Mail User's Shell (7.2.5 10/14/92)  
To: chet@po.cwru.edu  
Subject: Re: ksh scripts  
Message-ID: <9505092233.aa13001@deephought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in
} the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
```

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From mikel@ora.com Tue Aug 1 12:13:20 1995

Flags: 10

Return-Path: mikel@ora.com

Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP  
(8.6.12+cwru/CWRU-2.1-ins)

id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995  
12:07:51 -0400

Received: by los.ora.com (4.1/Spike-2.1)

id AA00672; Tue, 1 Aug 95 08:57:32 EDT

Date: Tue, 1 Aug 95 08:57:32 EDT  
From: mikel@ora.com (Michael Loukides)  
Message-Id: <9508011257.AA00672@los.ora.com>  
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]  
To: Chet Ramey <chet@odin.INS.CWRU.Edu>  
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com  
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger  
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it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and  
stick it in our ftp archive, and put a reference to it in the book.  
(Too late to actually discuss the thing, at least for this edition).

-----

## 1.248 jemalloc 4.0.4-r0

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## 1.249 e2fsprogs

# 1.42.99+1.43+gitAUTOINC+0f26747167-r0

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It is part of the main e2fsprogs distribution, which can be found at:

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Index: `tdbsa/tdb.c`

-----  
--- `tdbsa.orig/tdb.c`

+++ `tdbsa/tdb.c`

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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Version 2, June 1991

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```

```
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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23-June-2007

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!



```

#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'~/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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## 1.250 open-vm-tools 10.0.7-r0

### 1.250.1 Available under license :

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Any executables

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```
>>> base64.c-none
>>> convertutf.c/h
from unicode, inc.-none
>>> freebsd-1.72
>>> icu4c-4.4.1
>>> unicode-5.0
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```
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```

```
base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
This work is part of OpenLDAP Software <http://www.openldap.org/>.
```

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This work  
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>>> convertutf.c/.h from unicode, inc.-none

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>>> freebsd-1.72

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>>> icu4c-4.4.1

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# 1.252 libopflex beryllium-sr1-r0

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# 1.253 cpio 2.12-r0

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# 1.257 base-passwd 3.5.29-r0

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/\*

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Files: passwd.master, group.master

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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and  
Bruce Perens <bruce@pixar.com>.

Files: doc/\*

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 * imap_gssapi.c is partially derived from sample code in:
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 * Part No: 816-1331-11
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 */
```

=====

```
/* md5.h and md5.c are derived from RFC 1321:
```

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\* hmac.c is derived from:

Network Working Group     H. Krawczyk  
Request for Comments: 2104     IBM  
Category: Informational     M. Bellare  
                                UCSD  
                                R. Canetti  
                                IBM  
                                February 1997

                                HMAC: Keyed-Hashing for Message Authentication

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=====  
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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

-----

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux

-----

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023 bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe

bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux
<removed>2		4096	20479	16384	8M	a5	FreeBSD

-----

Create default BSD

2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors  
Geometry: 255 heads, 63 sectors/track, 1 cylinders  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel  
type: bsd  
partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-----

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors  
Geometry: 255 heads, 63 sectors/track, 1 cylinders  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: bsd  
partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
a	4096	6144	2049	1M	4.2BSD			
	0	0	0					
c	4096	20479	16384	8M	unused	0	0	0

d 0 16064 16065 7.9M unused 0 0 0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-----

Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0 unused	5 4.1BSD	9 4.4LFS	d boot
1 swap	6 Eighth Edition	a unknown	e ADOS
2 Version 6	7 4.2BSD	b HPFS	f HFS
3 Version 7	8 MS-DOS	c ISO-9660	10 AdvFS
4 System V			

Command (m for help):

/\*

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## 1.263 libdaemon 0.14-r0

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<one line to give the program's name and a brief idea of what it does.>  
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```

```
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```
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```

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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# 1.268 python-pycrypto 2.6.1-r0

## 1.268.1 Available under license :

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### A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release from	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002		
	PSF	yes		
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

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From dlitz@dlitz.net Sun Aug 2 21:48:25 2009

Date: Sun, 2 Aug 2009 21:48:25 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Paul Swartz <paulswartz@gmail.com>

Subject: PyCrypto license clarification

Message-ID: <20090803014825.GA1326@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
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=====
```

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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg.

I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
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- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing

key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <paulswartz@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)

Received: (vmmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... \_spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159

Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])

by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066

for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)

Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3

for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

:from:date:message-id:subject:to:content-type

:content-transfer-encoding;

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d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:from:date:message-id:subject:to

:content-type:content-transfer-encoding;

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MIME-Version: 1.0

Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,

03 Aug 2009 09:14:03 -0700 (PDT)



--=20

Paul Swartz  
paulswartz at gmail dot com  
<http://paulswartz.net/>  
AIM: z3penguin

From dlitz@dlitz.net Mon Aug 3 14:35:01 2009  
Date: Mon, 3 Aug 2009 14:35:01 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: Paul Swartz <paulswartz@gmail.com>  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>  
References: <20090803014825.GA1326@rivest.dlitz.net>  
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1; format=flowed  
Content-Disposition: inline  
Content-Transfer-Encoding: 8bit  
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: <http://www.dlitz.net/>  
X-OpenPGP:  
url=<http://www.dlitz.net/go/gpgkey/>;  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:  
>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:  
>> Hi Paul,  
>>  
>> I am the new maintainer of the Python Cryptography Toolkit, and I am  
>> working on a new release at <http://www.pycrypto.org/>.  
>  
>That's great!  
>  
>> I understand that you have made contributions to PyCrypto, under nickname  
>> "z3p" and/or other names. May I, on your behalf, dedicate to the public  
>> domain all your contributions to PyCrypto, with the following notice?  
>>  
>> =====  
>> The contents of this file are dedicated to

the public domain. To the  
>> extent that dedication to the public domain is not available, everyone  
>> is granted a worldwide, perpetual, royalty-free, non-exclusive license  
>> to exercise all rights associated with the contents of this file for  
>> any purpose whatsoever. No rights are reserved.  
>> =====  
>  
>Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--  
Dwayne C. Litzengerger <dlitz@dlitz.net>  
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
From dlitz@dlitz.net Sat Apr 18 09:14:20 2009  
Date: Sat, 18 Apr 2009 09:14:20 -0400  
From: "Dwayne C. Litzengerger" <dlitz@dlitz.net>  
To: Mark Moraes <moraes@computer.org>  
Subject: PyCrypto license clarification  
Message-ID: <20090418131419.GA14494@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2635

Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

=====  
Distribute and use  
freely; there are no restrictions on further  
dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.  
=====

Incorporating the code into commercial products is permitted; you do



not have to make source available or contribute your changes back  
(though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
- Dwayne

--  
Dwayne C. Litzberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009  
X-Maildir-Dup-Checked: Yes  
Return-Path: <markmoraes@yahoo.com>  
X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net  
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD  
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F  
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)  
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198  
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])  
by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE  
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)  
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000  
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;  
bh=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;  
b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3s  
EY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB  
2aU=  
DomainKey-Signature:a=rsa-sha1; q=dns; c=noaws;  
s=s1024; d=yahoo.com;  
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;  
b=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj7  
63caOAl08Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j  
eo=;  
Message-ID:  
<551071.34569.qm@web32405.mail.mud.yahoo.com>  
X-YMail-OSG:  
FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.KIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY  
4vZSnfTT8wnCkzZNZ\_g6k.XUc3ipo\_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWWJYVyp50clsUFS  
Hzf7Zbpa8P1Yoe\_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X  
onq8h\_TmzX9g84Bin9g\_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv\_bj\_Ghx--  
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT  
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1  
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)  
From: M Moraes <markmoraes@yahoo.com>  
Reply-To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Status: RO  
X-Status: A  
Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,  
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzberger <dlitz@dlitz.net>  
> Subject: PyCrypto license clarification  
> To: "Mark Moraes" <moraes@computer.org>  
> Date: Saturday, April 18, 2009, 9:14 AM  
> Hi Mark,

>  
> I am the new maintainer of the Python Cryptography Toolkit,  
> and I am  
> working on a new release at <http://www.pycrypto.org/>.

>  
> People often ask me what license PyCrypto is covered by, if  
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> GPL-compatible, etc. Right now, I'm not really sure  
> what to tell them.  
> The text in the current LICENSE file (quoted below) is not  
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>  
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> =====  
>     Distribute and use freely; there are  
> no restrictions on further  
>     dissemination and usage except those  
>  
> imposed by the laws of your  
>     country of residence. This  
> software is provided "as is" without  
>     warranty of fitness for use or  
> suitability for any purpose, express  
>     or implied. Use at your own risk or  
> not at all.

>  
> =====  
>     Incorporating the code into commercial  
> products is permitted; you do  
>     not have to make source available or  
> contribute your changes back  
>     (though that would be nice).

> --amk

> (www.amk.ca)

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>     any purpose whatsoever. No  
> rights are reserved.  
>  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> -- Dwayne C. Litzberger <dlitz@dlitz.net>  
>  
>     Key-signing key - 19E1  
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009  
Date: Mon, 20 Apr 2009 20:01:37 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>  
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3677

Thanks a lot, and don't  
worry about not responding to previous emails. I  
do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

>

>Hi Dwayne.

>

>Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies  
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>

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>

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>>  
>>

>> =====  
>> Distribute and use freely; there are  
>> no restrictions on further  
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>> imposed by the laws of your  
>> country of residence. This  
>> software is provided "as is" without  
>> warranty of fitness for use or  
>> suitability for any purpose, express  
>> or implied. Use at your own risk or  
>> not at all.  
>>

>> =====  
>>  
>> Incorporating the code into commercial  
>> products is permitted; you do  
>> not have to make source available or  
>> contribute your changes back  
>> (though that would be nice).  
>>

>> --amk  
>>

>> (www.amk.ca)  
>>

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>> domain is not available, everyone  
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>> a worldwide, perpetual,  
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>> to exercise all rights associated with  
>> the contents of this file for  
>> any purpose whatsoever. No  
>> rights are reserved.  
>>  
>> =====  
>>  
>> Regards,  
>> - Dwayne  
>>  
>> -- Dwayne C. Litzenger <dlitz@dlitz.net>  
>> Key-signing key - 19E1  
>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>>  
>  
  
--  
Dwayne C. Litzenger <dlitz@dlitz.net>  
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45  
From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008  
X-Maildir-Dup-Checked: Yes  
Return-Path: <dlitz@dlitz.net>  
X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D  
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA  
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)  
Received: (vmmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)  
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])  
by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088  
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)  
Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk  
[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS  
15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;  
Thu, 28 Aug 2008 01:45:02 +0100  
To: crypt@bis.doc.gov,  
enc@nsa.gov,  
web\_site@bis.doc.gov,  
pycrypto@lists.dlitz.net,  
PYTHON-CRYPTO@NIC.SURFNET.NL,  
dlitz@dlitz.net  
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net  
designates 64.5.53.201 as permitted sender) identity=mailfrom;  
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;  
helo=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;  
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by  
m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id  
taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100  
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])  
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1  
for <post@stamper.itconsult.co.uk>;  
Wed, 27 Aug 2008 18:42:56 -0600 (CST)  
Received: by rivest.dlitz.net (Postfix, from userid 1000)  
id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)  
Received: by rivest.dlitz.net (tmdb-sendmail, from uid 1000);  
Wed, 27 Aug 2008 20:42:54 -0400  
Date: Wed, 27 Aug 2008 20:42:54 -0400  
Cc: post@stamper.itconsult.co.uk  
Subject: PyCrypto TSU NOTIFICATION  
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);



preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
X-Delivery-Agent: TMDA/1.1.9 (Jura)  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
X-DNSBL: 0  
Status: O  
Content-Length:  
2182  
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

#####

#  
# This is a proof of posting certificate from  
# stamper.itconsult.co.uk certifying that a user  
# claiming to be:-  
# dlitz@dlitz.net  
# requested that this message be sent to:-  
# crypt@bis.doc.gov  
# enc@nsa.gov  
# web\_site@bis.doc.gov  
# pycrypto@lists.dlitz.net  
# PYTHON-CRYPTO@NIC.SURFNET.NL  
# dlitz@dlitz.net  
#  
# This certificate was issued at 00:45 (GMT)  
# on Thursday 28 August 2008 with reference 0520978  
#  
# CAUTION: while the message may well be from the sender  
# indicated in the "From:" header, the sender  
# has NOT been authenticated by this service  
#  
# For information about the Stamper service see  
# <http://www.itconsult.co.uk/stamper.htm>  
#

#####

SUBMISSION TYPE: TSU  
SUBMITTED BY: Dwayne C. Litzenberger  
SUBMITTED FOR: Dwayne C. Litzenberger  
POINT OF CONTACT: Dwayne C.  
Litzenberger  
PHONE and/or FAX: +1-613-693-1296  
MANUFACTURER: n/a

PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")

ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

--

Dwayne C. Litzenger <[dlitz@dlitz.net](mailto:dlitz@dlitz.net)>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----

Version: 2.6.3i

Charset: noconv

Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr  
d+q0E7eE8VtnvviUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t  
UNjJ/kv8QLz/aq2fi/HNjyrwnqFnUI0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq  
sxbzCOpjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQIOhJQ6o  
XYhY+HBRjsD741/GSpOt9IIN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/  
W/pqSSiPkwmblPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==  
=3oIX

-----END

PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <[wiml@hxxx.org](mailto:wiml@hxxx.org)>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <[dlitz@dlitz.net](mailto:dlitz@dlitz.net)>

Cc: Wim Lewis <[wiml@hxxx.org](mailto:wiml@hxxx.org)>

Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hxxx.org>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On November 23, 2008, you wrote:

>Hi Wim,

>

>I am the new maintainer of the Python Cryptography Toolkit, and I am

>working on a new release at <http://www.pycrypto.org/>.

>

>I understand that you have made contributions to PyCrypto. May I, on  
>your behalf, dedicate to the public domain all your contributions to  
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> extent that dedication to the public domain is not available, everyone  
> is granted a worldwide, perpetual, royalty-free, non-exclusive license  
> to exercise all rights associated with the contents  
> of this file for  
> any purpose whatsoever. No rights are reserved.  
> =====

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128  
implementation, which already has a public-domain notice at the top of  
the file. But I am happy to have that, any any other code of mine that  
might have wandered in there under an unclear open sourcish license,  
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnA18UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B  
FektbDOzkxgc5580MGGeX/MVn8aw+1BHg0YD85gsntlDzkcQtb+BR/xAvJ5zKyA  
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKobx+/5+t1lJtBcZ  
wrPEa9Oui9s=  
=zSY9

-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting  
code to PyCrypto must be able to certify the following (taken from the Linux  
kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I  
have the right to submit it under the open source license  
indicated in the file; or

(b) The contribution is based upon previous work that, to the best  
of my knowledge, is covered under an appropriate open source

license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever.  
No rights are reserved.

=== EOF ===

From dlitz@dlitz.net Sun Nov 23 00:17:22 2008

Date: Sun, 23 Nov 2008 00:17:22 -0500

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: "A. M. Kuchling" <amk@amk.ca>

Subject: PyCrypto license clarification

Message-ID: <20081123051722.GA29253@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: multipart/signed; micalg=pgp-sha1;  
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"

Content-Disposition: inline

X-Primary-Address: dlitz@dlitz.net

X-Homepage: <http://www.dlitz.net/>

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);

preference=unprotected

X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3461  
Lines: 78

--YiEDa0DAkWCtVeE4  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
Content-Transfer-Encoding: quoted-printable

Hi Andrew,

People

often ask me what license PyCrypto is covered by, if it's=20  
GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20  
The text in the current LICENSE file (quoted below) is not entirely clear=  
=20  
on the point of whether distributing modified versions is allowed. (It=20  
says "distribute and use", but not "modify".)

=3D=  
=3D=  
=3D

Distribute and use freely; there are no restrictions on further  
dissemination and usage except those imposed by the laws of your  
country of residence. This software is provided "as is" without  
warranty of fitness for use or suitability for any purpose, express  
or implied. Use at your own risk or not at all.

=3D=  
=3D=  
=3D

Incorporating the code into commercial products is permitted; you do  
not have to make source available or contribute your changes back  
(though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a=20  
clearer licensing regime. I'm asking as many copyright holders as I can=20  
find, starting with you, if I can release PyCrypto under something clearer=  
=20  
and more standard. Below, I have quoted a public domain dedication that=20  
was recommended in Intellectual Property and Open Source: A Practical=20



for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id D632D10111  
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)  
Received: (vmmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does  
not designate permitted sender hosts)  
Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])  
by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105  
for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)  
Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000  
Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])  
(envelope-sender <amk@amk.ca>)  
by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP  
for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000  
Date: Sun, 23 Nov 2008 07:51:34 -0500  
From: "A.M. Kuchling" <amk@amk.ca>  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Subject: Re: PyCrypto license clarification  
Message-ID: <20081123125134.GA21239@amk.local>  
Reply-To: amk@amk.ca  
References: <20081123051722.GA29253@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline  
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>  
User-Agent:  
Mutt/1.5.13 (2006-08-11)  
Status: RO  
Content-Length: 537  
Lines: 15

> People often ask me what license PyCrypto is covered by, if it's  
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.  
> The text in the current LICENSE file (quoted below) is not entirely clear  
> on the point of whether distributing modified versions is allowed. (It  
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable  
> contributions to PyCrypto, with the following notice?

You may.

--amk

From dlitz@dlitz.net Sat Feb 28 23:24:14 2009  
Date: Sat, 28 Feb 2009 23:24:14 -0500  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
To: Jeethu Rao <jeethurao@gmail.com>  
Subject: PyCrypto license clarification  
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

=====  
Distribute and use freely;  
there are no restrictions on further  
dissemination and usage except those imposed by the laws of your  
country of residence. This software is provided "as is" without  
warranty of fitness for use or suitability for any purpose, express  
or implied. Use at your own risk or not at all.  
=====

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in *\_Intellectual Property and Open Source: A Practical Guide to Protecting Code\_*, by Van Lindberg.

I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.



I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=====  
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.  
=====

Regards,  
- Dwayne

--

Dwayne C. Litzengerger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009

X-Maildir-Dup-Checked:

Yes

Return-Path: <jeethurao@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)

Received: (vmmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... \_spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-

from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249

Received: from rv-out-0708.google.com (unknown [209.85.198.249])

by goedel.dlitz.net

(Postfix) with ESMTP id 3C097449E7

for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)

Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26

for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

:date:message-id:subject:from:to:content-type;

bh=YWy9U32WCU/ksRqukHwaOZyJQBUs4Yvt5mI20U6mI/g=;

b=oMjI22IIxYiJKge2zNjW3rRiUi9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY  
B5E6VQuGVEyzBbNscytVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas  
L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=

DomainKey-Signature: a=rsa-sha1; c=noaws;

d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:date:message-id:subject:from:to

:content-type;

b=Ym7CStuDEfJKay1AJyWZkZmJA1lnTcwCG6akBHAXLld8ht6PFcmlsffzZG8hJCIVJ8  
vljqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrS24zikHfpSSd5GFogzXaLVvGVH8p  
bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=

MIME-Version: 1.0

Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;

Sun, 08 Mar 2009 14:27:54 -0700 (PDT)

In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>

References: <20090301042414.GA15122@rivest.dlitz.net>

Date: Mon, 9 Mar 2009 02:57:54 +0530

Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>

Subject: Re: PyCrypto license clarification

From: Jeethu Rao <jeethurao@gmail.com>

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054

Status: RO

Content-Length: 7668

--000e0cd209d0e5a3d40464a23054

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really

check this email address all that often,

please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <dlitz@dlitz.net> wrote:

> Hi Jeethu,

>

> I am the new maintainer of the Python Cryptography Toolkit, and I am

> working on a new release at <http://www.pycrypto.org/>.

>

> People often ask me what license PyCrypto is covered by, if it's

> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The

> text in the current LICENSE file (quoted below) is not entirely clear on the

> point of whether distributing modified versions is allowed. (It says  
> "distribute and use", but not "modify".)  
>  
> =====  
> Distribute and use freely; there are no restrictions on further  
> dissemination and usage except those imposed by the laws of your  
> country of residence. This software is provided "as is" without  
> warranty of fitness for use or suitability for any purpose,  
> express  
> or implied. Use at your own risk or not at all.  
> =====  
>  
> Incorporating the code into commercial products is permitted; you do  
> not have to make source available or contribute your changes back  
> (though that would be nice).  
>  
> --amk (www.amk.ca)  
>  
> For the next PyCrypto release, I would like to take steps to move toward a  
> clearer licensing regime. I am asking as many copyright holders as I can  
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> \_Intellectual Property and Open Source: A Practical Guide to Protecting  
> Code\_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey  
> Pointer, and Wim Lewis, and they have all approved the following text for  
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>  
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> behalf, dedicate to the public domain all your contributions to PyCrypto,  
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>  
> =====  
> The contents of this file are dedicated to the public domain. To the  
> extent that dedication to the public domain is not available, everyone  
> is granted a worldwide, perpetual, royalty-free, non-exclusive license  
> to exercise all rights associated with the contents of this file for  
> any purpose whatsoever. No rights are reserved.  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> --  
> Dwayne C. Litzengerger <dlitz@dlitz.net>  
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>

--

Jeethu Rao

--000e0cd209d0e5a3d40464a23054

Content-Type: text/html; charset=ISO-8859-1

Content-Transfer-Encoding: quoted-printable

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for

PyCrypto. PS: Apologies for the delay in my response.

I don't really check this email address all that often,

please direct any further correspondence to [jeethu@jeethu-rao.com](mailto:jeethu@jeethu-rao.com)

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <[dlitz@dlitz.net](mailto:dlitz@dlitz.net)> wrote:

<blockquote class="gmail\_quote" style="margin: 0 0 .8ex; border-left: 1px solid #ccc; padding-left: 1ex;">Hi Jeethu,

<br>

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

<br>

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

<br>

The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

<br>

<br>

<br>

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, expressed or implied. Use at your own risk or not at all.

<br>

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<br>

Incorporating

the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

[www.amk.ca](http://www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

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To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

No rights are reserved.

Regards,

- Dwayne

Dwayne C. Litzemberger

[dlitz@dlitz.net](mailto:dlitz@dlitz.net)

Key-signing key - 19E1 1FE8 B3CF F273 ED17 A04A24 928C EC13 39C2 5CF7

Jeethu Rao

--000e0cd209d0e5a3d40464a23054--

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

~~~~~

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)
2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever.

No rights are reserved.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

From dlitz@dlitz.net Mon May 4 22:49:14 2009

Date: Mon, 4 May 2009 22:49:14 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Joris Bontje <joris@bontje.nl>

Subject: PyCrypto license clarification

Message-ID: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

=====  
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are no restrictions on further  
dissemination and usage except those imposed by the laws of your  
country of residence. This software is provided "as is" without  
warranty of fitness for use or suitability for any purpose, express  
or implied. Use at your own risk or not at all.  
=====

Incorporating the code into commercial products is permitted; you do  
not have to make source available or contribute your changes back  
(though that would be nice).

--amk (www.amk.ca)

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clearer licensing regime. I am asking as many copyright holders as I can  
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Below, I have quoted a public domain dedication that was recommended in  
\_Intellectual Property and Open Source: A Practical Guide to Protecting  
Code\_, by Van Lindberg. I have  
already contacted A. M. Kuchling, Robey  
Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they  
have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your  
behalf, dedicate to the public domain all your contributions to PyCrypto,  
with the following notice?

=====  
The contents of this file are dedicated to the public domain. To the  
extent that dedication to the public domain is not available, everyone  
is granted a worldwide, perpetual, royalty-free, non-exclusive license  
to exercise all rights associated with the contents of this file for  
any purpose whatsoever. No rights are reserved.  
=====

Regards,  
- Dwayne

--  
Dwayne C. Litzengerger <dlitz@dlitz.net>  
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl  
Tue May 5 03:08:32 2009  
X-Maildir-Dup-Checked: Yes  
Return-Path: <joris@bontje.nl>



X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net  
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078  
for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id 2315B40583  
for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)  
Received: (vmmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;  
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97  
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])  
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C  
for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30  
-0600 (CST)  
Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000  
Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])  
(envelope-sender <joris@bontje.nl>)  
by 10.170.1.96 (qmail-ldap-1.03) with SMTP  
for <>; 5 May 2009 07:08:25 -0000  
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)  
id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)  
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl  
[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;  
Tue, 05 May 2009 09:08:25 +0200  
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
Date: Tue, 05 May 2009 09:08:25 +0200  
From: joris@bontje.nl  
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
Subject: Re: PyCrypto license clarification  
References: <20090505024914.GA9219@rivest.dlitz.net>  
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset=ISO-8859-1;  
format="flowed"  
Content-Disposition:  
inline  
Content-Transfer-Encoding: 7bit  
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)  
Status: RO  
X-Status: A  
Content-Length: 3488

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required

effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

```
=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
Joris

Citeren

"Dwayne C. Litzenger" <dlitz@dlitz.net>:

> Hi Joris,

>

> I am the new maintainer of the Python Cryptography Toolkit, and I am  
> working on a new release at <http://www.pycrypto.org/>.

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```
> =====
> Distribute and use freely; there are no restrictions on further
> dissemination and usage except those imposed by the laws of your
> country of residence. This software is provided "as is" without
> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> =====
```

>

>

> Incorporating the code into commercial products is permitted; you do  
> not have to make source available or contribute your changes back  
> (though that would be nice).

>

> --amk (www.amk.ca)

>

> For the next PyCrypto release, I would like to take steps to move toward a

> clearer licensing regime. I am asking as many copyright holders as I can  
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> =====  
>  
> Regards,  
> - Dwayne  
>  
> --  
> Dwayne C. Litzengerger <dlitz@dlitz.net>  
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May 5 17:53:47 2009  
Date: Tue, 5 May 2009 17:53:47 -0400  
From: "Dwayne C. Litzengerger" <dlitz@dlitz.net>  
To: joris@bontje.nl  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>  
References: <20090505024914.GA9219@rivest.dlitz.net>  
<20090505090825.gsqlips7hg08wwwok@www.webmail.vuurwerk.nl>  
MIME-Version:  
1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
In-Reply-To: <20090505090825.gsqlips7hg08wwwok@www.webmail.vuurwerk.nl>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected

X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

> Hi Dwayne,

>

> Thanks for taking over the PyCrypto library and putting in the required  
> effort to keep this going.

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> =====

>

>

> Regards,

> Joris

>

> Citeren "Dwayne C. Litzenger" <dlitz@dlitz.net>:

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>>

>> =====

>> Distribute and use freely; there are no restrictions on further

>> dissemination and usage except those imposed by the laws of your  
>> country of residence. This software is provided "as is" without  
>> warranty of fitness for use or suitability for any purpose, express  
>> or implied. Use at your own risk or not at all.  
>> =====  
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>> Incorporating the code into commercial products is permitted; you do  
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>> =====  
>>  
>> Regards,  
>> - Dwayne  
>>  
>> --  
>> Dwayne C. Litzenger <dlitz@dlitz.net>  
>> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>  
>  
  
--  
Dwayne C. Litzenger <dlitz@dlitz.net>  
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

From dlitz@dlitz.net Sat Feb 28 21:45:09 2009  
Date: Sat, 28 Feb 2009 21:45:09 -0500  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
To: Barry A Warsaw <barry@python.org>  
Subject: PyCrypto license clarification  
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
Distribute and use
freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in *\_Intellectual Property and Open Source: A Practical Guide to Protecting Code\_*, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon

Mar 2 11:29:39 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <barry@python.org>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B

for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A

for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)

Received: (vmmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230

Received: from mail.wooz.org (216-15-33-230.c3-0.slv-ubr2.lnh-slv.md.static.cable.rcn.com [216.15.33.230])

by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073

for <dlitz@dlitz.net>;

Mon, 2 Mar 2009 10:29:38 -0600 (CST)

Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])

by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F

for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)

Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>

From: Barry Warsaw <barry@python.org>

To: Dwayne C. Litzenger <dlitz@dlitz.net>

In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>

Content-Type: text/plain; charset=US-ASCII; format=flowed; delpsp=yes

Content-Transfer-Encoding: quoted-printable  
Mime-Version: 1.0 (Apple Message framework v930.3)  
Subject: Re: PyCrypto license clarification  
Date: Mon, 2 Mar 2009 11:29:34 -0500  
References: <20090301024509.GA13195@rivest.dlitz.net>  
X-Pgp-Agent: GPGMail d55 (v55, Leopard)  
X-Mailer: Apple Mail (2.930.3)  
Status: RO  
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenger wrote:

> I am the new maintainer of the Python Cryptography Toolkit,  
and I am =20=

> working on a new release at <http://www.pycrypto.org/>.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20  
> on your behalf, dedicate to the public domain all your contributions =20=

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,  
Barry

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk  
evkInSJQAcVHIznVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9Ilet7PaD9VSYgn3ra5  
gElwI2DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjwDRA3wItOrH7  
SK4w9VBJtfY=3D  
=3DQduY

-----END PGP SIGNATURE-----

Date: Mon, 16 Feb 2009 12:58:00 -0800

From: Robey Pointer <robey@lag.net>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)



Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenger wrote:

> For the next PyCrypto release, I would like to take steps to move  
> toward a clearer licensing regime. I am asking as many copyright  
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>  
> =

> =====

>

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ

SH8AoLJgaq1Ili7/ZYDc+/Cd8VO0xLbr

=Mv6g

-----END PGP SIGNATURE-----

00INDEX      This file  
LICENSE.orig    Original (deprecated) license for the Python Cryptography Toolkit  
LICENSE.libtom   LICENSE file from LibTomCrypt  
stmts/         Statements by contributors

## 1.269 attr 2.4.47-r0

### 1.269.1 Available under license :

This package was debianized by Nathan Scott nathans@debian.org on  
Sun, 19 Nov 2000 07:37:09 -0500.

It can be downloaded from <ftp://oss.sgi.com/projects/xfs/download/>

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below.

Some components (as annotated in the source) are licensed  
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Version 2.1, February 1999

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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
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of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be

introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does

and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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## 1.271 libmodelgbp beryllium-sr1-r0

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# 1.274 findutils 4.6.0-r0

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# 1.275 go-context git-r0

## 1.275.1 Available under license :

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# 1.276 cracklib 2.9.5-r0

## 1.276.1 Available under license :

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under=

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML  
On Monday 01 October 2007, Neulinger, Nathan

wrote:

> I understand that, and you're welcome to bring it up with Alec directly  
> and see if he wants to relicense his code as LGPL... but at this point,  
> it was enough to just get it consistent and documented as to what it was  
> released under. This wasn't actually a license change, just a  
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didnt notice the license=  
=20  
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20  
applications are also GPL-2 which imo is just wrong. it isnt the place of =  
a=20  
library to dictact to application writes what license they should be using.=  
=20  
thus LGPL-2.1 enters to fill this void.  
=2Dmike

Re: [Cracklib-devel]  
cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46  
Seems like the ideal thing here would be for you and the other distro  
maintainers to get together with Alec in a conversation and come to a  
decision as to what licensing scheme y'all want. I haven't really done  
much other than cleaning up the packaging and patches and a small bit of  
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan  
=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----  
> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:33 PM  
> To: Neulinger, Nathan  
> Cc: cracklib-devel@li...; Alec Muffett  
> Subject: Re: [Cracklib-devel] cracklib license  
>=20  
> On Monday 01 October 2007, Neulinger, Nathan wrote:  
>> I understand that, and you're welcome to bring it up with Alec  
> directly  
>> and see if he wants to relicense his code as LGPL... but at this  
> point,  
>> it was enough to just get it consistent and documented as to what  
> it was  
>> released under. This wasn't actually a license change, just a  
>> clarification of the licensing that was already in place.  
>=20  
> the original license (before moving to sourceforge -- aka, 2.7) was  
> not  
> GPL-2 ... it was a modified artistic license ... i didnt notice the  
> license  
> change until it was mentioned in the latest notes.  
>=20  
> unlike the old license, GPL-2 prevents people from using cracklib  
> unless their  
> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library  
to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...



-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I

think it is in everyone's

best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional

code, so whatever licensing y'all come up with is fine

>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be

> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
> GPLv2 with the option of using

the library under a later version of the

> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
-----

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----  
From

alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umn.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from  
[82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length:  
585  
Lines: 21  
  
>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umn.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email

- > in the repository and clean up the repository/tarballs? I have all the
- > original discussion, but something succinct and self contained
- > would be
- > ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

## 1.277 go-systemd

4+gitb4a58d95188dd092ae20072bac14cece0e

67c388-r0

### 1.277.1 Available under license :

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Version 2.0, January 2004

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# 1.278 libcap-ng 0.7.9-r0

## 1.278.1 Available under license :

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Version 2.1, February 1999

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Contributors

=====

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Also

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# 1.281 go-capability

## 0.0+gitAUTOINC+2c00daeb6c-r0

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# 1.282 compose-file

## 3.0+gitAUTOINC+a3e58764f5-r0

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# 1.283 grpc-go 1.4.0+gitAUTOINC+777daa17ff-r0

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## 1.285 net-tools 1.60-26-r0

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*/
#include "config.h"

#if HAVE_AFNETROM || HAVE_HWNETROM
#include <sys/types.h>
#include <sys/ioctl.h>
#include <sys/socket.h>
#include <net/if_arp.h>
#if (__GLIBC__ > 2) || (__GLIBC__ == 2 && __GLIBC_MINOR__ >= 1)
#include <netax25/ax25.h>
#else
#include <linux/ax25.h>
#endif
#include <stdlib.h>
#include <stdio.h>
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <string.h>
#include <termios.h>
#include <unistd.h>
#include "net-support.h"
#include "pathnames.h"
```

```

#include "intl.h"
#include "util.h"

static char netrom_errmsg[128];

extern struct aftype netrom_aftype;

static char *NETROM_print(unsigned char *ptr)
{
    static char buff[8];
    int i;

    for (i = 0; i < 6; i++) {
        buff[i] = ((ptr[i] & 0377) >> 1);
        if (buff[i] == ' ')
            buff[i] = '\0';
    }
    buff[6] = '\0';
    i = ((ptr[6] & 0x1E) >> 1);
    if (i != 0)
        sprintf(&buff[strlen(buff)], "-%d", i);
    return (buff);
}

/* Display an AX.25 socket address. */
static char *NETROM_sprint(struct sockaddr *sap, int numeric)
{
    char buf[64];
    if (sap->sa_family == 0xFFFF || sap->sa_family == 0)
        return safe_strncpy(buf, _("[NONE SET]"), sizeof(buf));
    return (NETROM_print(((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call));
}

static int NETROM_input(int type, char *bufp, struct sockaddr *sap)
{
    unsigned char *ptr;
    char *orig, c;
    unsigned int i;

    sap->sa_family = netrom_aftype.af;
    ptr = ((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call;

    /* First, scan and convert the basic callsign. */
    orig = bufp;
    i = 0;
    while ((*bufp != '\0') && (*bufp

```

```

!= '-') && (i < 6)) {
c = *bufp++;
if (islower(c))
    c = toupper(c);
if (!(isupper(c) || isdigit(c))) {
    safe_strncpy(netrom_errmsg, _("Invalid callsign"), sizeof(netrom_errmsg));
#ifdef DEBUG
    fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
    errno = EINVAL;
    return (-1);
}
*ptr++ = (unsigned char) ((c << 1) & 0xFE);
i++;
}

/* Callsign too long? */
if ((i == 6) && (*bufp != '-') && (*bufp != '\0')) {
    safe_strncpy(netrom_errmsg, _("Callsign too long"), sizeof(netrom_errmsg));
#ifdef DEBUG
    fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
    errno = E2BIG;
    return (-1);
}

/* Nope, fill out the address bytes with blanks. */
while (i++ < sizeof(ax25_address) - 1) {
*ptr++ = (unsigned char) ((' ' << 1) & 0xFE);
}

/* See if we need to add an SSID field. */
if (*bufp == '-') {
i = atoi(++bufp);
*ptr = (unsigned char) ((i << 1) & 0xFE);
}
else {
*ptr = (unsigned char) '\0';
}

/* All done. */
#ifdef DEBUG
    fprintf(stderr, "netrom_input(%s): ", orig);
    for (i = 0; i < sizeof(ax25_address); i++)
        fprintf(stderr, "%02X ", sap->sa_data[i] & 0377);
    fprintf(stderr, "\n");
#endif

return (0);

```

```

}

/* Display an error message. */
static void NETROM_herror(char *text)
{
    if (text == NULL)
        fprintf(stderr, "%s\n", netrom_errmsg);
    else
        fprintf(stderr, "%s: %s\n", text, netrom_errmsg);
}

static int NETROM_hinput(char *bufp, struct sockaddr *sap)
{
    if (NETROM_input(0, bufp, sap) < 0)
        return (-1);
    sap->sa_family = ARPHRD_NETROM;
    return (0);
}

#if 0
/* Set the line discipline of a terminal line. */
static int KISS_set_disc(int fd, int disc)
{
    if (ioctl(fd, TIOCSETD, &disc) < 0) {
        fprintf(stderr, "KISS_set_disc(%d): %s\n", disc, strerror(errno));
        return (-errno);
    }
    return (0);
}

/* Start the KISS encapsulation on the file descriptor.
*/
static int KISS_init(int fd)
{
    if (KISS_set_disc(fd, N_SLIP) < 0)
        return (-1);
    if (ioctl(fd, SIOCSIFENCAP, 4) < 0)
        return (-1);
    return (0);
}
#endif

struct hwtype netrom_hwtype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ ARPHRD_NETROM, 7,

```

```
NETROM_print, NETROM_hinput, NULL, 0
};

struct aftype netrom_aftype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ AF_NETROM, 7,
    NETROM_print, NETROM_sprint, NETROM_input, NETROM_herror,
    NULL, NULL, NULL,
    -1,
    "/proc/net/nr"
};
```

```
#endif /* HAVE_AFNETROM */
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```

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<html>
```

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<head>
```

```
<title>Berkeley DB: Berkeley DB Product License</title>
```

```
<meta name="description" content="Berkeley DB: An embedded database programmatic toolkit.">
```

```
<meta name="keywords"
```

```
content="embedded,database,programmatic,toolkit,btree,hash,hashing,transaction,transactions,locking,logging,access method,access methods,Java,C,C++">
```

```
</head>
```

```
<body bgcolor=white>
```

```
<p align=center><b>Berkeley DB Product License</b></p>
```

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<a href="mailto:berkeleydb-info_us@oracle.com">berkeleydb-info_us@oracle.com</a>.</p>
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```
</body>
```

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</html>
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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
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under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

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/\* compr1c.h --

This file is part of the LZO real-time data compression library.

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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Markus F.X.J. Oberhumer  
<markus@oberhumer.com>  
<http://www.oberhumer.com/opensource/lzo/>  
\*/

```
#define LZO_NEED_DICT_H 1
#include "config1c.h"
```

```
#if !defined(COMPRESS_ID)
#define COMPRESS_ID LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif
```

```
#include "lzo1b_c.ch"
```

```

/*****
//
*****/

#define LZO_COMPRESS \
    LZO_PP_ECONCAT3(lzo1c_,COMPRESS_ID,_compress)

#define LZO_COMPRESS_FUNC \
    LZO_PP_ECONCAT3(_lzo1c_,COMPRESS_ID,_compress_func)

/*****
//
*****/

const lzo_compress_t LZO_COMPRESS_FUNC = do_compress;

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in, lzo_uint in_len,
               lzo_bytep out, lzo_uintp out_len,
               lzo_voidp wrkmem )
{
    return _lzo1c_do_compress(in,in_len,out,out_len,wrkmem,do_compress);
}

/*
vim:set ts=4 sw=4 et: */

```

# 1.290 python3-pycrypto 2.6.1-r0

## 1.290.1 Available under license :

```

00INDEX          - This file
tsu-notify.mbox  - Notification sent per U.S. export regulations
copy/           - Copyright info & public-domain dedications
A. HISTORY OF THE SOFTWARE
=====

```

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)

in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release from   | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | no                  |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      |            |                     |
| PSF            | yes          |           |            |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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From dlitz@dlitz.net Sun Aug 2 21:48:25 2009  
Date: Sun, 2 Aug 2009 21:48:25 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: Paul Swartz <paulswartz@gmail.com>  
Subject: PyCrypto license clarification  
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
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```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg.

I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
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=====
```

Regards,  
- Dwayne

--  
Dwayne C. Litzenger <dlitz@dlitz.net>  
Key-signing  
key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009  
X-Maildir-Dup-Checked: Yes  
Return-Path: <paulswartz@gmail.com>  
X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net  
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4  
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068  
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)

Received: (vmmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... \_spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159

Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])  
by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066  
for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)

Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3  
for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

:from:date:message-id:subject:to:content-type

:content-transfer-encoding;

bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;

b=gyTqkRhKIHadFKIZCBWsRbnMNVDq1PWlJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac

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Y9++76rPGzqYdALsfvsmwv7Q3/bEmjVTr0tQE=

DomainKey-Signature: a=rsa-sha1; c=noFWS;

d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:from:date:message-id:subject:to

:content-type:content-transfer-encoding;

b=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyyig3EfT6Nv6

Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NwIeEWJnG3xcliRQu/mXPfP8AzPI3CefL

1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=

MIME-Version: 1.0

Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,  
03 Aug 2009 09:14:03 -0700 (PDT)

In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>

References: <20090803014825.GA1326@rivest.dlitz.net>

From: Paul Swartz <paulswartz@gmail.com>

Date: Mon, 3 Aug 2009 12:13:43 -0400

Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: quoted-printable

Status: RO

X-Status: A

Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:  
te:

> Hi Paul,

>

> I am the new



Content-Transfer-Encoding: 8bit  
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP:  
url=http://www.dlitz.net/go/gpgkey/;  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:

>> Hi Paul,

>>

>> I am the new maintainer of the Python Cryptography Toolkit, and I am

>> working on a new release at <http://www.pycrypto.org/>.

>

>That's great!

>

>> I understand that you have made contributions to PyCrypto, under nickname

>> "z3p" and/or other names. May I, on your behalf, dedicate to the public

>> domain all your contributions to PyCrypto, with the following notice?

>>

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>

>Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Sat Apr 18 09:14:20 2009

Date: Sat, 18 Apr 2009 09:14:20 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Mark Moraes <moraes@computer.org>

Subject: PyCrypto license clarification  
Message-ID: <20090418131419.GA14494@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2635

Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

=====  
Distribute and use

freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

=====  
Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?



=====  
The contents of this file are dedicated to the public domain. To the  
extent that dedication to the public domain is not available, everyone  
is granted a worldwide, perpetual, royalty-free, non-exclusive license  
to exercise all rights associated with the contents of this file for  
any purpose whatsoever. No rights are reserved.  
=====

Regards,  
- Dwayne

--  
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009  
X-Maildir-Dup-Checked: Yes  
Return-Path: <markmoraes@yahoo.com>  
X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net  
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD  
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F  
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)  
Received: (vmmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;  
envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198  
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com  
[68.142.207.198])  
by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE  
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)  
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000  
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;  
bh=OvxbqYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-  
Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;  
b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhLQdkQk0qLz5f4g8dT6bOME3s  
EY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB  
2aU=  
DomainKey-Signature:a=rsa-sha1; q=dns; c=noaws;  
s=s1024; d=yahoo.com;  
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;  
b=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCXeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj7  
63caOAlo8Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j

eo=;

Message-ID:

<551071.34569.qm@web32405.mail.mud.yahoo.com>

X-YMail-OSG:

FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY  
4vZSnfTT8wnCkzZNZ\_g6k.XUc3ipo\_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVyp50clsUFS  
Hzf7Zbpa8P1Yoe\_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X  
onq8h\_TmzX9g84Bin9g\_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv\_bj\_Ghxw--

Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT

X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1

Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)

From: M Moraes <markmoraes@yahoo.com>

Reply-To: moraes@computer.org

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Status: RO

X-Status: A

Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,

Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenger <dlitz@dlitz.net>

> Subject: PyCrypto license clarification

> To: "Mark Moraes" <moraes@computer.org>

> Date: Saturday, April 18, 2009, 9:14 AM

> Hi Mark,

>

> I am the new maintainer of the Python Cryptography Toolkit,

> and I am

> working on a new release at <http://www.pycrypto.org/>.

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>

imposed by the laws of your

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>

> =====

>

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>

> --amk

>

>

> ([www.amk.ca](http://www.amk.ca))

>

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>  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> -- Dwayne C. Litzenger <dlitz@dlitz.net>  
>  
> Key-signing key - 19E1  
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009  
Date: Mon, 20 Apr 2009 20:01:37 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>  
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;

id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3677

Thanks a lot, and don't  
worry about not responding to previous emails. I  
do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

>  
>Hi Dwayne.  
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>>

>> =====

>>

>> Regards,

>> - Dwayne

>>

>> -- Dwayne C. Litzenberger <dlitz@dlitz.net>

>> Key-signing key - 19E1

>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

>>

>

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <dlitz@dlitz.net>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)

Received: (vmmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)

Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])

by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088

for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)

Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk

[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS

15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;

Thu, 28 Aug 2008 01:45:02 +0100

To: crypt@bis.doc.gov,

enc@nsa.gov,

web\_site@bis.doc.gov,  
pycrypto@lists.dlitz.net,  
PYTHON-CRYPTO@NIC.SURFNET.NL,  
dlitz@dlitz.net

Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net designates 64.5.53.201 as permitted sender) identity=mailfrom; client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk; helo=goedel.dlitz.net; mechanism=-all; envelope-from=dlitz@dlitz.net;  
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100  
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1]) by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1 for <post@stamper.itconsult.co.uk>;  
Wed, 27 Aug 2008 18:42:56 -0600 (CST)  
Received: by rivest.dlitz.net (Postfix, from userid 1000) id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)  
Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000);  
Wed, 27 Aug 2008 20:42:54 -0400  
Date: Wed, 27 Aug 2008 20:42:54 -0400  
Cc: post@stamper.itconsult.co.uk  
Subject: PyCrypto TSU NOTIFICATION  
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/; id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing); preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/; id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008); preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
X-Delivery-Agent: TMDA/1.1.9 (Jura)  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
X-DNSBL: 0  
Status: O  
Content-Length:  
2182  
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

#####

#

# This is a proof of posting certificate from



# stamper.itconsult.co.uk certifying that a user  
# claiming to be:-  
# dlitz@dlitz.net  
# requested that this message be sent to:-  
# crypt@bis.doc.gov  
# enc@nsa.gov  
# web\_site@bis.doc.gov  
# pycrypto@lists.dlitz.net  
# PYTHON-CRYPTO@NIC.SURFNET.NL  
# dlitz@dlitz.net  
#  
# This certificate was issued at 00:45 (GMT)  
# on Thursday 28 August 2008 with reference 0520978  
#  
# CAUTION: while the message may well be from the sender  
# indicated in the "From:" header, the sender  
# has NOT been authenticated by this service  
#  
# For information about the Stamper service see  
# <http://www.itconsult.co.uk/stamper.htm>  
#  
#####

SUBMISSION TYPE: TSU  
SUBMITTED BY: Dwayne C. Litzenberger  
SUBMITTED FOR: Dwayne C. Litzenberger  
POINT OF CONTACT: Dwayne C.  
Litzenberger  
PHONE and/or FAX: +1-613-693-1296  
MANUFACTURER: n/a  
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")  
ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- - -

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----

Version: 2.6.3i

Charset: noconv

Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr  
d+q0E7eE8VtnvviUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t  
UNjJ/kv8QLz/aq2fi/HNjyrwnqFnUI0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq  
sxbzCOPjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQIOhJQ6o  
XYhY+HBRjsD741/GSpOt9IIN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/  
W/pqSSiPkwmbhlPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==  
=3oIX

-----END

PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <wiml@hxxx.org>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

Cc: Wim Lewis <wiml@hxxx.org>

Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hxxx.org>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On November 23, 2008, you wrote:

>Hi Wim,

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> any purpose whatsoever. No rights are reserved.

> =====

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128 implementation, which already has a public-domain notice at the top of the file. But I am happy to have that, any any other code of mine that might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnA18UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B  
FektbDOzkxgc5580MGGeX/MVn8aw+1BHg0YD85gsntlDzkcQtb+BR/xAvJ5zKyA  
J/Mn/I+16ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKobx+/5+t1lJtBcZ  
wrPEa9Oui9s=  
=zSY9

-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

#### Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

- (a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or
- (b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or
- (c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.
- (d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of

the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

==== EOF ====

From dlitz@dlitz.net Sun Nov 23 00:17:22 2008

Date: Sun, 23 Nov 2008 00:17:22 -0500

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: "A. M. Kuchling" <amk@amk.ca>

Subject: PyCrypto license clarification

Message-ID: <20081123051722.GA29253@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: multipart/signed; micalg=pgp-sha1;  
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"

Content-Disposition: inline

X-Primary-Address: dlitz@dlitz.net

X-Homepage: <http://www.dlitz.net/>

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 3461

Lines: 78

--YiEDa0DAkWCtVeE4

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

Content-Transfer-Encoding: quoted-printable

Hi Andrew,

People

often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,  
- Dwayne

--=20

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4

Content-Type: application/pgp-signature; name="signature.asc"

Content-Description:

Digital signature

Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEARECAAYFAkko52IACgkQHfBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ

yl0An33a3ZjkteyJaTbzEqImOEw8JGpf

=aBEW

-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <amk@amk.ca>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id D632D10111

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (vmmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)

Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])

by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105

for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000

Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])  
(envelope-sender <amk@amk.ca>)

by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP

for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000

Date: Sun, 23 Nov 2008 07:51:34 -0500

From: "A.M. Kuchling" <amk@amk.ca>  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Subject: Re: PyCrypto license clarification  
Message-ID: <20081123125134.GA21239@amk.local>  
Reply-To: amk@amk.ca  
References: <20081123051722.GA29253@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline  
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>  
User-Agent:  
Mutt/1.5.13 (2006-08-11)  
Status: RO  
Content-Length: 537  
Lines: 15

> People often ask me what license PyCrypto is covered by, if it's  
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.  
> The text in the current LICENSE file (quoted below) is not entirely clear  
> on the point of whether distributing modified versions is allowed. (It  
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable  
> contributions to PyCrypto, with the following notice?

You may.

--amk  
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009  
Date: Sat, 28 Feb 2009 23:24:14 -0500  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: Jeethu Rao <jeethurao@gmail.com>  
Subject: PyCrypto license clarification  
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am  
working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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Distribute and use freely;  
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dissemination and usage except those imposed by the laws of your  
country of residence. This software is provided "as is" without  
warranty of fitness for use or suitability for any purpose, express  
or implied. Use at your own risk or not at all.  
=====

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I have already contacted A. M. Kuchling, Robey  
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to exercise all rights associated with the contents of this file for  
any purpose whatsoever. No rights are reserved.  
=====

Regards,  
- Dwayne

--

Dwayne C. Litzberger <dlitz@dlitz.net>



Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009

X-Maildir-Dup-Checked:

Yes

Return-Path: <jeethurao@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)

Received: (vmmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... \_spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249

Received: from rv-out-0708.google.com (unknown [209.85.198.249])

by goedel.dlitz.net

(Postfix) with ESMTP id 3C097449E7

for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)

Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26

for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

:date:message-id:subject:from:to:content-type;

bh=YWy9U32WCU/ksRqukHwaOZyJQBU4Yvt5mI20U6mI/g=;

b=oMjI22IIXYiJKge2zNjW3rRiUi9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY

B5E6VQuGVEyzBbNscytVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas

L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=

DomainKey-Signature: a=rsa-sha1; c=noFWS;

d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:date:message-id:subject:from:to

:content-type;

b=Ym7CStuDEFJKay1AJyWZkZmJA1lnTcwCG6akBHAXLld8ht6PFcmIsffzZG8hJCIVJ8

vIjqcT+G6cywVTBw1pyGX7ECYzr0+vhGvdpACGrS24zikHfpSSd5GFogzXaLVvGVH8p

bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=

MIME-Version: 1.0

Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;

Sun, 08 Mar 2009 14:27:54 -0700 (PDT)

In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>

References: <20090301042414.GA15122@rivest.dlitz.net>

Date: Mon, 9 Mar 2009 02:57:54 +0530

Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>

Subject: Re: PyCrypto license clarification

From: Jeethu Rao <jeethurao@gmail.com>  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054  
Status: RO  
Content-Length: 7668

--000e0cd209d0e5a3d40464a23054  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC).  
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao  
PS: Apologies for the delay in my response.  
I don't really  
check this email address all that often,  
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <dlitz@dlitz.net> wrote:

> Hi Jeethu,  
>  
> I am the new maintainer of the Python Cryptography Toolkit, and I am  
> working on a new release at <http://www.pycrypto.org/>.  
>  
> People often ask me what license PyCrypto is covered by, if it's  
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The  
> text in the current LICENSE file (quoted below) is not entirely clear on the  
> point of whether distributing modified versions is allowed. (It says  
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>  
> =====  
> Distribute and use freely; there are no restrictions on further  
> dissemination and usage except those imposed by the laws of your  
> country of residence. This software is provided "as is" without  
> warranty of fitness for use or suitability for any purpose,  
> express  
> or implied. Use at your own risk or not at all.  
> =====  
>  
> Incorporating the code into commercial products is permitted; you do  
> not have to make source available or contribute your changes back  
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>  
> --amk (www.amk.ca)  
>

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> extent that dedication to the public domain is not available, everyone  
> is granted a worldwide, perpetual, royalty-free, non-exclusive license  
> to exercise all rights associated with the contents of this file for  
> any purpose whatsoever. No rights are reserved.  
> =====

>  
> Regards,  
> - Dwayne  
>  
> --  
> Dwayne C. Litzengerger <dlitz@dlitz.net>  
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>

--  
Jeethu Rao

--000e0cd209d0e5a3d40464a23054  
Content-Type: text/html; charset=ISO-8859-1  
Content-Transfer-Encoding: quoted-printable

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Jeethu Rao  
PS: Apologies for the delay in my response.  
I don't really check this email address all that often, please direct any further correspondence to [jeethu@jeethu-rao.com](mailto:jeethu@jeethu-rao.com)  
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To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)
2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever.  
No rights are reserved.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2

for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

From dlitz@dlitz.net Mon May 4 22:49:14 2009

Date: Mon, 4 May 2009 22:49:14 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Joris Bontje <joris@bontje.nl>

Subject: PyCrypto license clarification

Message-ID: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

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```
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country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
- Dwayne

--

Dwayne C. Litzemberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl

Tue May 5 03:08:32 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <joris@bontje.nl>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 2315B40583

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)

Received: (vmmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97

Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])

by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C

for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30

-0600 (CST)

Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000

Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])



(envelope-sender <joris@bontje.nl>  
by 10.170.1.96 (qmail-ldap-1.03) with SMTP  
for <>; 5 May 2009 07:08:25 -0000  
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)  
id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)  
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl  
[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;  
Tue, 05 May 2009 09:08:25 +0200  
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
Date: Tue, 05 May 2009 09:08:25 +0200  
From: joris@bontje.nl  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Subject: Re: PyCrypto license clarification  
References: <20090505024914.GA9219@rivest.dlitz.net>  
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset=ISO-8859-1;  
format="flowed"  
Content-Disposition:  
inline  
Content-Transfer-Encoding: 7bit  
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)  
Status: RO  
X-Status: A  
Content-Length: 3488

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

=====  
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Citeren

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> =====

> Distribute and use freely; there are no restrictions on further

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>

>

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> not have to make source available or contribute your changes back

> (though that would be nice).

>

> --amk

([www.amk.ca](http://www.amk.ca))

>

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> =====

>

> Regards,

> - Dwayne

>

> --

> Dwayne C. Litzenger <dlitz@dlitz.net>

> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May 5 17:53:47 2009

Date: Tue, 5 May 2009 17:53:47 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: joris@bontje.nl

Subject: Re: PyCrypto license clarification

Message-ID: <20090505215347.GB9933@rivest.dlitz.net>

References: <20090505024914.GA9219@rivest.dlitz.net>

<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>

MIME-Version:

1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>

X-Primary-Address: dlitz@dlitz.net

X-Homepage: <http://www.dlitz.net/>

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);

preference=unprotected

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);

preference=signencrypt

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

> Hi Dwayne,

>

> Thanks for taking over the PyCrypto library and putting in the required

> effort to keep this going.

> I was very excited to read that it is now one of the installed libraries

> for Google AppsEngine!

>

> You have my full permission to dedicate all my contributions to PyCrypto to

> the  
public domain with your suggested notice:  
> =====  
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> to exercise all rights associated with the contents of this file for  
> any purpose whatsoever. No rights are reserved.  
> =====  
>  
>  
> Regards,  
> Joris  
>  
> Citeren "Dwayne C. Litzenger" <dlitz@dlitz.net>:  
>  
>> Hi Joris,  
>>  
>> I am the new maintainer of the Python Cryptography Toolkit, and I am  
>> working on a new release at <http://www.pycrypto.org/>.  
>>  
>> People often ask me what license PyCrypto is covered by, if it's  
>> GPL-compatible, etc. Right now, I'm not really sure what to tell them.  
>> The text in the current LICENSE file (quoted below) is not entirely clear  
>> on the point of whether  
distributing modified versions is allowed. (It  
>> says "distribute and use", but not "modify".)  
>>  
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>> =====  
>>  
>> Incorporating the code into commercial products is permitted; you do  
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>>  
>> --amk (www.amk.ca)  
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>> any purpose

whatsoever. No rights are reserved.

>> =====

>>

>> Regards,

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>> --

>> Dwayne C. Litzenger <dlitz@dlitz.net>

>> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

>

>

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

From dlitz@dlitz.net Sat Feb 28 21:45:09 2009

Date: Sat, 28 Feb 2009 21:45:09 -0500

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Barry A Warsaw <barry@python.org>

Subject: PyCrypto license clarification

Message-ID: <20090301024509.GA13195@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am  
working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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=====

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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=====

Regards,  
- Dwayne

--

Dwayne C. Litzberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon  
Mar 2 11:29:39 2009  
X-Maildir-Dup-Checked: Yes  
Return-Path: <barry@python.org>  
X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net  
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B  
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A  
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)  
Received: (vmmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;  
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230  
Received: from mail.wooz.org (216-15-33-230.c3-0.slv-ubr2.lnh-slv.md.static.cable.rcn.com [216.15.33.230])  
by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073  
for <dlitz@dlitz.net>;  
Mon, 2 Mar 2009 10:29:38 -0600 (CST)  
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])  
by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F  
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)  
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>  
From: Barry Warsaw <barry@python.org>  
To: Dwayne C. Litzenberger <dlitz@dlitz.net>  
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>  
Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes  
Content-Transfer-Encoding: quoted-printable  
Mime-Version: 1.0 (Apple Message framework v930.3)  
Subject: Re: PyCrypto license clarification  
Date: Mon, 2 Mar 2009 11:29:34 -0500  
References: <20090301024509.GA13195@rivest.dlitz.net>  
X-Pgp-Agent: GPGMail d55 (v55, Leopard)  
X-Mailer: Apple Mail (2.930.3)  
Status: RO  
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit,  
and I am =20=

> working on a new release at <http://www.pycrypto.org/>.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20

> on your behalf, dedicate to the public domain all your contributions =20=

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,

Barry

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk  
evkJnSJQAcVHIznVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9Iief7PaD9VSYgn3ra5  
gElwI2DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjwDRA3wItOrH7  
SK4w9VBJtfY=3D  
=3DQduY

-----END PGP SIGNATURE-----

Date: Mon, 16 Feb 2009 12:58:00 -0800

From: Robey Pointer <robey@lag.net>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)

Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenger wrote:

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```

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> extent that dedication to the public domain is not available,
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> to exercise all rights associated with the contents of this file
> for
> any purpose whatsoever. No rights are reserved.
>
> =
> =====
>

```

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.8 (Darwin)

```

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ
SH8AoLJgaq1Ii7/ZYDc+/Cd8VO0xLbr
=Mv6g

```

-----END PGP SIGNATURE-----

00INDEX This file

LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit

LICENSE.libtom LICENSE file from LibTomCrypt

stmts/ Statements by contributors

## 1.291 python-uwsgi 2.0.18-r0

### 1.291.1 Available under license :

-----

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`,  
`admin/check-style-common.awk`,  
`admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.



=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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```
<!-- $Id$ -->
```

```
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
```

```
<xsl:stylesheet version="1.0"  
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"  
  xmlns:xi="http://www.w3.org/2001/XInclude"  
  xmlns:db="http://docbook.org/ns/docbook">  
  
  <xsl:template name="isc.copyright.format">  
    <xsl:param name="text"/>  
    <xsl:value-of select="$isc.copyright.leader"/>  
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>  
    <xsl:text>&#10;</xsl:text>  
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>  
    <xsl:if test="translate($rest, '&#9;&#32;', '')">  
      <xsl:call-template name="isc.copyright.format">  
        <xsl:with-param  
name="text" select="$rest"/>  
      </xsl:call-template>  
    </xsl:if>  
  </xsl:template>  
  
  <xsl:variable name="isc.copyright.text">  
    <xsl:text>  
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      file, You can obtain one at http://mozilla.org/MPL/2.0/.  
    </xsl:text>  
  </xsl:variable>  
  
  <xsl:variable name="isc.copyright">  
    <xsl:call-template name="isc.copyright.format">  
      <xsl:with-param name="text">  
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">  
          <xsl:text>Copyright (C) </xsl:text>  
          <xsl:call-template name="copyright.years">  
            <xsl:with-param name="years" select="year"/>  
          </xsl:call-template>  
        <xsl:text> </xsl:text>  
      </xsl:call-template>  
    </xsl:variable>
```

```
<xsl:value-of select="holder"/>
  <xsl:value-of select="$isc.copyright.breakline"/>
<xsl:text>#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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```

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## 1.295 curl 7.66.0-r0

### 1.295.1 Available under license :

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## 1.296 semodule-utils 2.8-r0

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The hypothetical commands

```
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## 233+gitAUTOINC+fe1c5e41e6-r0

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```
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```
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## 1.299 setools 4.1.1-r0

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The hypothetical commands

```
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## 0.11.0+gitd26492970760ca5d33129d2d799e34 be5c4782eb-r0

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## 1.305 rsync 3.1.3-r0

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```

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```
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```

The hypothetical commands

```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
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```

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```
/* GNU m4 -- A simple macro processor
```

```
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```

```
This file is part of GNU M4.
```

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\*/

```
#include "m4.h"
```

```
#include <getopt.h>
```

```
#include <limits.h>
```

```
#include <signal.h>
```

```
#include "c-stack.h"
```

```
#include "ignore-value.h"
```

```
#include "progname.h"
```

```
#include "version-etc.h"
```

```
#ifdef DEBUG_STKOVF
```

```
#
```

```
include "assert.h"
```

```
#endif
```

```
#define AUTHORS "Rene' Seindal"
```

```
static void usage (int) M4_GNUC_NORETURN;
```

```
/* Enable sync output for /lib/cpp (-s). */
```

```
int sync_output = 0;
```

```
/* Debug (-d[flags]). */
```

```
int debug_level = 0;
```

```
/* Hash table size (should be a prime) (-Hsize). */
```

```
size_t hash_table_size = HASHMAX;
```

```
/* Disable GNU extensions (-G). */
```

```
int no_gnu_extensions = 0;
```

```
/* Prefix all builtin functions by `m4_'. */
```

```
int prefix_all_builtins = 0;
```

```
/* Max length of arguments in trace output (-lsize). */
```

```
int max_debug_argument_length = 0;
```

```

/* Suppress warnings about missing arguments. */
int suppress_warnings = 0;

/* If true, then warnings affect exit status. */
static bool fatal_warnings = false;

/* If not zero, then value of exit status for warning diagnostics. */
int warning_status = 0;

/* Artificial limit for expansion_level in macro.c. */
int nesting_limit = 1024;

#ifdef ENABLE_CHANGEWORD
/* User provided regexp for describing m4
words. */
const char *user_word_regexp = "";
#endif

/* Global catchall for any errors that should affect final error status, but
where we try to continue execution in the meantime. */
int retcode;

struct macro_definition
{
    struct macro_definition *next;
    int code; /* D, U, s, t, '\1', or DEBUGFILE_OPTION. */
    const char *arg;
};
typedef struct macro_definition macro_definition;

/* Error handling functions. */

/*-----
| Wrapper around error. |
`-----*/

void
m4_error (int status, int errnum, const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, current_line ? current_file : NULL,
                    current_line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

```

```

/*-----
| Wrapper around error_at_line. |
`-----*/

void
m4_error_at_line (int status,
                 int errnum, const char *file, int line,
                 const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, line ? file : NULL, line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

#ifndef SIGBUS
# define SIGBUS SIGILL
#endif

#ifndef NSIG
# ifndef MAX
#  define MAX(a,b) ((a) < (b) ? (b) : (a))
# endif
# define NSIG (MAX (SIGABRT, MAX (SIGILL, MAX (SIGFPE, \
                                         MAX (SIGSEGV, SIGBUS)))) + 1)
#endif

/* Pre-translated messages for program errors. Do not translate in
   the signal handler, since gettext and strsignal are not
   async-signal-safe. */
static const char * volatile program_error_message;
static const char * volatile signal_message[NSIG];

/* Print a nicer message about any programmer errors, then exit. This
   must be aysnc-signal safe, since it is executed as a signal
   handler. If SIGNO is zero,
   this represents a stack overflow; in
   that case, we return to allow c_stack_action to handle things. */
static void M4_GNUC_PURE
fault_handler (int signo)
{
    if (signo)
    {
        /* POSIX states that reading static memory is, in general, not
           async-safe. However, the static variables that we read are

```

```

never modified once this handler is installed, so this
particular usage is safe. And it seems an oversight that
POSIX claims strlen is not async-safe. Ignore write
failures, since we will exit with non-zero status anyway. */
#define WRITE(f, b, l) ignore_value (write (f, b, l))
WRITE (STDERR_FILENO, program_name, strlen (program_name));
WRITE (STDERR_FILENO, ": ", 2);
WRITE (STDERR_FILENO, program_error_message,
      strlen (program_error_message));
if (signal_message[signo])
{
WRITE (STDERR_FILENO, ": ", 2);
WRITE (STDERR_FILENO, signal_message[signo],
      strlen (signal_message[signo]));
}
WRITE (STDERR_FILENO, "\n", 1);
#undef WRITE
_exit (EXIT_INTERNAL_ERROR);
}
}

/*-----
| Print a usage message and exit with STATUS. |
`-----*/

static void
usage (int status)
{
if (status != EXIT_SUCCESS)
xfprintf (stderr, "Try `%s --help' for more information.\n", program_name);
else
{
xprintf ("Usage: %s [OPTION]... [FILE]...\n", program_name);
fputs ("\n
Process macros in FILEs. If no FILE or if FILE is `-', standard input\n
is read.\n
", stdout);
fputs ("\n
Mandatory or optional arguments to long options are mandatory or optional\n
for short options too.\n
\n
Operation modes:\n
--help          display this help and exit\n
--version       output version information and exit\n
", stdout);
xprintf ("\n

```

```

-E, --fatal-warnings
    once: warnings become errors, twice: stop\n\
        execution at first error\n\
-i, --interactive      unbuffer output, ignore interrupts\n\
-P, --prefix-builtins  force a `m4_' prefix to all builtins\n\
-Q, --quiet, --silent  suppress some warnings for builtins\n\
    --warn-macro-sequence[=REGEXP]\n\
        warn if macro definition matches REGEXP,\n\
        default %s\n\
", DEFAULT_MACRO_SEQUENCE);
#ifdef ENABLE_CHANGEWORD
    fputs ("\n\
-W, --word-regexp=REGEXP  use REGEXP for macro name syntax\n\
", stdout);
#endif
    fputs ("\n\
\n\
Preprocessor features:\n\
-D, --define=NAME[=VALUE]  define NAME as having VALUE, or empty\n\
-I, --include=DIRECTORY    append DIRECTORY to include path\n\
-s, --synclines            generate `#line NUM `FILE'" lines\n\
-U, --undefine=NAME        undefine NAME\n\
", stdout);
    puts
    ("");
    xprintf (_("\n\
Limits control:\n\
-g, --gnu                override -G to re-enable GNU extensions\n\
-G, --traditional        suppress all GNU extensions\n\
-H, --hashsize=PRIME     set symbol lookup hash table size [509]\n\
-L, --nesting-limit=NUMBER  change nesting limit, 0 for unlimited [%d]\n\
"), nesting_limit);
    puts ("");
    fputs ("\n\
Frozen state files:\n\
-F, --freeze-state=FILE  produce a frozen state on FILE at end\n\
-R, --reload-state=FILE  reload a frozen state from FILE at start\n\
", stdout);
    fputs ("\n\
\n\
Debugging:\n\
-d, --debug[=FLAGS]      set debug level (no FLAGS implies `aeq')\n\
    --debugfile[=FILE]    redirect debug and trace output to FILE\n\
                        (default stderr, discard if empty string)\n\
-l, --arglength=NUM      restrict macro tracing size\n\
-t, --trace=NAME         trace NAME when it is defined\n\
", stdout);
    fputs

```

```

("\
\n\
FLAGS is any of:\n\
a show actual arguments\n\
c show before collect, after collect and after call\n\
e show expansion\n\
f say current input file name\n\
i show changes in input files\n\
l say current input line number\n\
p show results of path searches\n\
q quote values as necessary, with a or e flag\n\
t trace for all macro calls, not only traceon'ed\n\
x add a unique macro call id, useful with c flag\n\
V shorthand for all of the above flags\n\
", stdout);
    fputs ("\
\n\
If defined, the environment variable `M4PATH' is a colon-separated list\n\
of directories included after any specified by `-I'.\n\
", stdout);
    fputs ("\
\n\
Exit status is 0 for success, 1 for failure, 63 for frozen file version\n\
mismatch, or whatever value was passed to the m4exit macro.\n\
", stdout);
    emit_bug_reporting_address ();
    }
exit (status);
}

/*-----
| Decode options
and launch execution. |
`-----*/

/* For long options that have no equivalent short option, use a
non-character as a pseudo short option, starting with CHAR_MAX + 1. */
enum
{
    DEBUGFILE_OPTION = CHAR_MAX + 1, /* no short opt */
    DIVERSIONS_OPTION, /* not quite -N, because of message */
    WARN_MACRO_SEQUENCE_OPTION, /* no short opt */

    HELP_OPTION, /* no short opt */
    VERSION_OPTION /* no short opt */
};

static const struct option long_options[] =

```



```

{
{"arglength", required_argument, NULL, 'I'},
{"debug", optional_argument, NULL, 'd'},
{"define", required_argument, NULL, 'D'},
{"error-output", required_argument, NULL, 'o'}, /* FIXME: deprecate in 2.0 */
{"fatal-warnings", no_argument, NULL, 'E'},
{"freeze-state", required_argument, NULL, 'F'},
{"gnu", no_argument, NULL, 'g'},
{"hashsize", required_argument, NULL, 'H'},
{"include", required_argument, NULL, 'I'},
{"interactive", no_argument, NULL, 'i'},
{"nesting-limit", required_argument, NULL, 'L'},
{"prefix-builtins", no_argument, NULL, 'P'},
{"quiet", no_argument, NULL, 'Q'},
{"reload-state", required_argument, NULL, 'R'},
{"silent", no_argument, NULL, 'Q'},
{"synclines", no_argument, NULL, 's'},
{"trace", required_argument, NULL, 't'},
{"traditional", no_argument, NULL, 'G'},
{"undefine", required_argument, NULL, 'U'},
#ifdef ENABLE_CHANGEWORD
{"word-regexp", required_argument, NULL, 'W'},
#endif

{"debugfile", optional_argument, NULL, DEBUGFILE_OPTION},
{"diversions", required_argument, NULL, DIVERSIONS_OPTION},
{"warn-macro-sequence", optional_argument, NULL, WARN_MACRO_SEQUENCE_OPTION},

{"help", no_argument, NULL, HELP_OPTION},
{"version", no_argument, NULL, VERSION_OPTION},

{ NULL, 0, NULL, 0 },
};

/* Process a command line file NAME, and return true only if it was
stdin. */
static
void
process_file (const char *name)
{
if (STREQ (name, "-"))
{
/* If stdin is a terminal, we want to allow 'm4 - file -'
to read input from stdin twice, like GNU cat. Besides,
there is no point closing stdin before wrapped text, to
minimize bugs in syscmd called from wrapped text. */
push_file (stdin, "stdin", false);
}
}

```

```

else
{
    char *full_name;
    FILE *fp = m4_path_search (name, &full_name);
    if (fp == NULL)
    {
        error (0, errno, _("cannot open `%s'"), name);
        /* Set the status to EXIT_FAILURE, even though we
           continue to process files after a missing file. */
        retcode = EXIT_FAILURE;
        return;
    }
    push_file (fp, full_name, true);
    free (full_name);
}
expand_input ();
}

/* POSIX requires only -D, -U, and -s; and says that the first two
   must be recognized when interspersed with file names. Traditional
   behavior also handles -s between files. Starting OPTSTRING with
   '-' forces getopt_long to hand back file names as arguments to opt
   '\1', rather than reordering the command line. */
#ifdef ENABLE_CHANGEWORD
#define OPTSTRING "-B:D:EF:GH:I:L:N:PQR:S:T:U:W:d::egil:ost:"
#else
#define OPTSTRING "-B:D:EF:GH:I:L:N:PQR:S:T:U:d::egil:ost:"
#endif

int
main (int argc, char *const *argv)
{
    struct sigaction act;
    macro_definition *head; /* head of deferred argument list */
    macro_definition *tail;
    macro_definition *defn;
    int optchar; /* option character */

    macro_definition *defines;
    bool interactive = false;
    bool seen_file = false;
    const char *debugfile = NULL;
    const char *frozen_file_to_read = NULL;
    const char *frozen_file_to_write = NULL;
    const char *macro_sequence = "";

    set_program_name (argv[0]);
    retcode = EXIT_SUCCESS;

```

```

atexit (close_stdin);

include_init ();
debug_init ();

/* Stack
overflow and program error handling. Ignore failure to
install a handler, since this is merely for improved output on
crash, and we should never crash ;). We install SIGBUS and
SIGSEGV handlers prior to using the c-stack module; depending on
the platform, c-stack will then override none, SIGSEGV, or both
handlers. */
program_error_message
= xasprintf (_("internal error detected; please report this bug to <%s>"),
PACKAGE_BUGREPORT);
signal_message[SIGSEGV] = xstrdup (strsignal (SIGSEGV));
signal_message[SIGABRT] = xstrdup (strsignal (SIGABRT));
signal_message[SIGILL] = xstrdup (strsignal (SIGILL));
signal_message[SIGFPE] = xstrdup (strsignal (SIGFPE));
if (SIGBUS != SIGILL && SIGBUS != SIGSEGV)
signal_message[SIGBUS] = xstrdup (strsignal (SIGBUS));
sigemptyset (&act.sa_mask);
/* One-shot - if we fault while handling a fault, we want to revert
to default signal behavior. */
act.sa_flags = SA_NODEFER
| SA_RESETHAND;
act.sa_handler = fault_handler;
sigaction (SIGSEGV, &act, NULL);
sigaction (SIGABRT, &act, NULL);
sigaction (SIGILL, &act, NULL);
sigaction (SIGFPE, &act, NULL);
sigaction (SIGBUS, &act, NULL);
if (c_stack_action (fault_handler) == 0)
nesting_limit = 0;

#ifdef DEBUG_STKOVF
/* Make it easier to test our fault handlers. Exporting M4_CRASH=0
attempts a SIGSEGV, exporting it as 1 attempts an assertion
failure with a fallback to abort. */
{
char *crash = getenv ("M4_CRASH");
if (crash)
{
if (!strtol (crash, NULL, 10))
++*(int *) 8;
assert (false);
abort ();
}
}

```

```

}
#endif /* DEBUG_STKOVF */

/* First, we decode the arguments, to size up tables and stuff. */
head = tail = NULL;

while ((optchar = getopt_long (argc, (char **) argv, OPTSTRING,
                             long_options, NULL)) != -1)
switch (optchar)
{
default:
    usage (EXIT_FAILURE);

case 'B':
case 'S':
case 'T':
    /* Compatibility junk: options that other implementations
       support, but which we ignore as no-ops and don't list in
       --help. */
    error (0, 0, _("warning: `m4 -%c' may be removed in a future release"),
          optchar);
    break;

case 'N':
case DIVERSIONS_OPTION:
    /* -N became an obsolete no-op in 1.4.x. */
    error (0, 0, _("warning: `m4 %s' is deprecated"),
          optchar == 'N' ? "-N" : "--diversions");
    break;

case 'D':
case 'U':
case 's':
case 't':
case '\1':
case DEBUGFILE_OPTION:
    /* Arguments that cannot be handled until later are accumulated. */

    defn = (macro_definition *) xmalloc (sizeof (macro_definition));
    defn->code = optchar;
    defn->arg = optarg;
    defn->next = NULL;

    if (head == NULL)

head = defn;
else
    tail->next = defn;

```

```
tail = defn;

break;

case 'E':
    if (!fatal_warnings)
        fatal_warnings = true;
    else
        warning_status = EXIT_FAILURE;
    break;

case 'F':
    frozen_file_to_write = optarg;
    break;

case 'G':
    no_gnu_extensions = 1;
    break;

case 'H':
    hash_table_size = strtol (optarg, NULL, 10);
    if (hash_table_size == 0)
        hash_table_size = HASHMAX;
    break;

case 'I':
    add_include_directory (optarg);
    break;

case 'L':
    nesting_limit = strtol (optarg, NULL, 10);
    break;

case 'P':
    prefix_all_builtins = 1;
    break;

case 'Q':
    suppress_warnings = 1;
    break;

case 'R':
    frozen_file_to_read = optarg;
    break;

#ifdef ENABLE_CHANGEWORD
case 'W':
    user_word_regexp
```

```

= optarg;
    break;
#endif

case 'd':
    debug_level = debug_decode (optarg);
    if (debug_level < 0)
    {
        error (0, 0, _("bad debug flags: `%s'"), optarg);
        debug_level = 0;
    }
    break;

case 'e':
    error (0, 0, _("warning: `m4 -e' is deprecated, use `-i' instead"));
    /* fall through */
case 'i':
    interactive = true;
    break;

case 'g':
    no_gnu_extensions = 0;
    break;

case 'l':
    max_debug_argument_length = strtol (optarg, NULL, 10);
    if (max_debug_argument_length <= 0)
        max_debug_argument_length = 0;
    break;

case 'o':
    /* -o/--error-output are deprecated synonyms of --debugfile,
       but don't issue a deprecation warning until autoconf 2.61
       or later is more widely established, as such a warning
       would interfere with all earlier versions of autoconf.
    */
    /* Don't call debug_set_output here, as it has side effects. */
    debugfile = optarg;
    break;

case WARN_MACRO_SEQUENCE_OPTION:
    /* Don't call set_macro_sequence here, as it can exit.
       --warn-macro-sequence sets optarg to NULL (which uses the
       default regexp); --warn-macro-sequence= sets optarg to ""
       (which disables these warnings). */
    macro_sequence = optarg;
    break;

```

```

case VERSION_OPTION:
    version_etc (stdout, PACKAGE, PACKAGE_NAME, VERSION, AUTHORS, NULL);
    exit (EXIT_SUCCESS);
    break;

case HELP_OPTION:
    usage (EXIT_SUCCESS);
    break;
}

defines = head;

/* Do the basic initializations. */
if (debugfile && !debug_set_output (debugfile))
    M4ERROR ((warning_status, errno, "cannot set debug file `%s'", debugfile));

input_init ();
output_init ();
symtab_init ();
set_macro_sequence (macro_sequence);
include_env_init ();

if (frozen_file_to_read)
    reload_frozen_state (frozen_file_to_read);
else
    builtin_init ();

/* Interactive mode means unbuffered output, and interrupts ignored. */

if (interactive)
{
    signal (SIGINT, SIG_IGN);
    setbuf (stdout, (char *) NULL);
}

/* Handle deferred command line macro definitions. Must come after
initialization of the symbol table. */

while (defines != NULL)
{
    macro_definition *next;
    symbol *sym;

    switch (defines->code)
    {
        case 'D':
            {
                /* defines->arg is read-only, so we need a copy. */

```

```

    char *macro_name = xstrdup (defines->arg);
    char *macro_value = strchr (macro_name, '=');
    if (macro_value)
        *macro_value++ = '\0';
    define_user_macro (macro_name, macro_value, SYMBOL_INSERT);
    free (macro_name);
}
break;

case
'U':
    lookup_symbol (defines->arg, SYMBOL_DELETE);
    break;

case 't':
    sym = lookup_symbol (defines->arg, SYMBOL_INSERT);
    SYMBOL_TRACED (sym) = true;
    break;

case 's':
    sync_output = 1;
    break;

case '\1':
    seen_file = true;
    process_file (defines->arg);
    break;

case DEBUGFILE_OPTION:
    if (!debug_set_output (defines->arg))
        M4ERROR ((warning_status, errno, "cannot set debug file `%s",
            debugfile ? debugfile : _("stderr")));
    break;

default:
    M4ERROR ((0, 0, "INTERNAL ERROR: bad code in deferred arguments"));
    abort ();
}

next = defines->next;
free (defines);
defines = next;
}

/* Handle remaining input files. Each file is pushed on the input,
and the input read. Wrapup text is handled separately later. */

```



```

if (optind == argc && !seen_file)
    process_file ("-");
else
    for (; optind < argc; optind++)
        process_file (argv[optind]);

/* Now handle wrapup text. */

while (pop_wrapup ())
    expand_input ();

/* Change debug stream back to stderr, to force flushing the debug
   stream and detect any errors it might have encountered. The
   three standard streams are closed by close_stdin. */
debug_set_output (NULL);

if (frozen_file_to_write)
    produce_frozen_state (frozen_file_to_write);
else
    {
        make_diversion (0);
        undivert_all ();
    }
output_exit ();
free_macro_sequence ();
exit (retcode);
}

```

## 1.309 ebttables 2.0.10-4-r4

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the

object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany

the work with the complete corresponding

machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the

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properly with a modified version of the library, if

the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at

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specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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## 1.311 parted 3.2-r1

### 1.311.1 Available under license :

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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To

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#### 1. Source Code.

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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b) Convey the object code in, or embodied in, a physical product

(including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.313 screen 4.6.2-r0

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## 1.314 libmbim 1.18.0-r0

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it
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.320 go-connections

### 0.2.1+gitAUTOINC+4ccf312bf1-r0

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StartChar: copyright

Encoding: 169 169 102

GlifName: copyright

Width: 862  
Flags: HMW  
LayerCount: 2  
Back

SplineSet

441 156 m 0  
335 156 273 218 273 327 c 0  
273 382 287 427 315 462 c 0  
344 498 390 515 452 515 c 0  
480 515 510 508 541 494 c 1  
526 452 l 1  
499 462 473 466 450 466 c 0  
371 466 330 420 330 339 c 0  
330 253 372 203 458 203 c 0  
478 203 499 207 522 215 c 1  
537 175 l 1  
504 162 472 156 441 156 c 0  
430 609 m 0  
347 609 276 572 231 529 c 0  
186 485 148 416 148 333 c 0  
148 251 186 181 231 138 c 0  
276 94 347 58 430 58 c 0  
513 58 583 95 628 138 c 0  
673 181 711 251 711 333 c 0  
711 416 673 485 628 529 c 0  
583 573 513 609 430 609 c 0  
428 674 m 0  
530 674 618 630 673 576 c 0  
729 522 776 436 776 333 c 0  
776 231 730 146 674 92 c 0  
618 38 532 -7 430 -7 c 0  
327 -7 242 38 186 92 c 0  
130 146 83 230 83 333 c 0  
83 435 129 521 185 575 c 0  
240 629 327 674 428 674 c 0

EndSplineSet

Fore

SplineSet

70 344 m 3  
70 561 215 706 432 706 c 3  
648 706 792 560 792 344 c 3  
792 134 645 -10 432  
-10 c 3  
216 -10 70 131 70 344 c 3  
156 348 m 3  
156 183 264 76 432 76 c 3  
602 76 709 182 709 348 c 3  
709 514 597 624 432 624 c 3

266 624 156 514 156 348 c 3  
337 347 m 3  
337 274 376 228 450 228 c 3  
493 228 515 238 552 252 c 1  
580 189 l 1  
539 165 497 152 432 152 c 3  
314 152 241 229 241 347 c 3  
241 468 313 544 432 544 c 3  
499 544 534 530 580 508 c 1  
552 446 l 1  
544 449 546 448 528 453 c 0  
506 461 479 470 450 470 c 3  
374 470 337 423 337 347 c 3

EndSplineSet

Validated: 1

EndChar

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StartChar: copyright

Encoding: 169 169 102

GlifName: copyright

Width: 869

Flags: HMW

LayerCount: 2

Back

SplineSet

548 524 m 2

564 517 l 1

537 439 l 1

518 446 l 1

495 454 473 458 449 458 c 0

371 458 351 408 351 353 c 0

351 294 372 238 455 238 c 0  
475 238 495 242 515 249 c 2  
533 255 l 1  
561 179 l 1  
543 172 l 2  
509 159 474 152 437 152 c 0  
355 152 255 195 255 343 c 0  
255 496 355 547 442 547 c 0  
479 547 515 539 548 524 c 2  
430 602 m 0  
284 602 171 484 171 347 c 0  
171 210 284 93 430 93 c 0  
576 93 688 210 688 347 c 0  
688 484 576 602 430 602 c 0  
792 347 m 3  
792 155 634 -10 430 -10 c 3  
226 -10 67 154 67 347 c 3  
67 536 223 706 430 706 c 3  
634 706 792 539 792 347 c 3  
EndSplineSet  
Fore  
SplineSet  
784 334 m 259  
784 129 638 -10 432 -10 c 3  
229 -10 85 130 85 334 c 259  
85 537 228 678 432 678 c 3  
638 678 784 540 784 334 c 259  
719 334 m 259  
719 498 600 614 436 614 c 3  
270 614 151 499 151 334 c 259  
151 170 271 57 436 57 c 3  
599 57 719 171 719 334 c 259  
281 329 m 3  
281 454 339  
517 456 517 c 3  
486 517 517 511 550 497 c 1  
531 443 l 1  
506 451 482 456 458 456 c 3  
385 456 349 418 349 341 c 3  
349 260 384 216 466 216 c 3  
484 216 504 221 527 229 c 1  
546 175 l 1  
513 161 480 155 448 155 c 3  
342 155 281 222 281 329 c 3  
EndSplineSet  
Validated: 1  
EndChar

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[This is  
the first released version of the library GPL. It is  
numbered 2 because it goes with version 2 of the ordinary GPL.]

#### Preamble

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs;  
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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for  
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library. If the library is modified by someone else and passed on, we  
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License

instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it

contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

# 1.324 avahi 0.7-r0

## 1.324.1 Available under license :

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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## 1.325 selinux-dbus 2.8-r0

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## 1.331 libidn 1.35-r0

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Version 3, 29 June 2007

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## 1.332 libsepol 2.8-r0

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## 1.335 python3-pyudev 0.21.0-r0

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## 1.336 shadow 4.6-r0

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goproperties - properties file decoder for Go

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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The file

kbdfinfo.c





# 1.342 libnss-mdns 0.10-r7

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Version 2.1, February 1999

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it
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```

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```

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## 1.347 make 4.2.1-r0

### 1.347.1 Available under license :

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```
/* Argument parsing and main program of GNU Make.
```

```
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```

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You should have received a copy of the GNU General Public License along with this program. If not, see <<http://www.gnu.org/licenses/>>. \*/

```
#include "makeint.h"
#include "os.h"
#include "filedef.h"
#include "dep.h"
#include "variable.h"
#include "job.h"
#include "commands.h"
#include "rule.h"
#include "debug.h"
#include "getopt.h"

#include <assert.h>
#ifdef _AMIGA
#
# include <dos/dos.h>
# include <proto/dos.h>
#endif
#ifdef WINDOWS32
# include <windows.h>
# include <io.h>
# include "pathstuff.h"
# include "sub_proc.h"
# include "w32err.h"
#endif
#ifdef __EMX__
# include <sys/types.h>
# include <sys/wait.h>
#endif
#ifdef HAVE_FCNTL_H
# include <fcntl.h>
#endif

#ifdef _AMIGA
int __stack = 20000; /* Make sure we have 20K of stack space */
#endif
#ifdef VMS
int vms_use_mcr_command = 0;
int vms_always_use_cmd_file = 0;
int vms_gnv_shell = 0;
int vms_legacy_behavior = 0;
int vms_comma_separator = 0;
int vms_unix_simulation = 0;
int vms_report_unix_paths = 0;
```

```

/* Evaluates if a VMS environment option is set, only look at first character */
static int
get_vms_env_flag (const char *name, int default_value)
{
char * value;
char x;

value = getenv (name);
if (value == NULL)
return default_value;

x = toupper (value[0]);
switch (x)
{
case 'I':
case 'T':
case 'E':
return 1;
break;
case 'O':
case 'F':
case 'D':
return 0;
}
}
#endif

#if defined HAVE_WAITPID || defined HAVE_WAIT3
# define HAVE_WAIT_NOHANG
#endif

#ifndef HAVE_UNISTD_H
int chdir ();
#endif

#ifndef STDC_HEADERS
# ifndef sun /* Sun has an incorrect decl in a header. */
void exit (int) __attribute__ ((noreturn));
# endif
double atof ();
#endif

static void clean_jobserver (int status);
static void print_data_base (void);
static void print_version (void);
static void decode_switches (int argc, const char **argv, int env);
static void decode_env_switches (const char *envar, unsigned int len);
static struct variable *define_makeflags (int all, int makefile);

```

```

static char *quote_for_env (char *out, const char *in);
static void initialize_global_hash_tables (void);

/* The structure that describes an accepted command switch. */

struct command_switch
{
    int c;          /* The switch character. */

    enum           /* Type of the value. */
    {
        flag,      /* Turn int flag on. */
        flag_off,  /* Turn int flag off. */
        string,     /* One string per invocation. */
        strlist,    /* One string per switch. */
        filename,   /* A string containing a file name. */
        positive_int, /* A positive integer. */
        floating,   /* A floating-point number (double). */
        ignore      /* Ignored. */
    } type;

    void *value_ptr; /* Pointer to the value-holding variable. */

    unsigned int env:1; /* Can come from MAKEFLAGS. */
    unsigned int toenv:1; /* Should be put in MAKEFLAGS. */
    unsigned int no_makefile:1; /* Don't propagate when remaking makefiles. */

    const void *noarg_value; /* Pointer to value used if no arg given. */
    const void *default_value; /* Pointer
to default value. */

    const char *long_name; /* Long option name. */
};

/* True if C is a switch value that corresponds to a short option. */

#define short_option(c) ((c) <= CHAR_MAX)

/* The structure used to hold the list of strings given
in command switches of a type that takes strlist arguments. */

struct stringlist
{
    const char **list; /* Nil-terminated list of strings. */
    unsigned int idx; /* Index into above. */
    unsigned int max; /* Number of pointers allocated. */
};

```

```
/* The recognized command switches. */

/* Nonzero means do extra verification (that may slow things down). */

int verify_flag;

/* Nonzero means do not print commands to be executed (-s). */

int silent_flag;

/* Nonzero means just touch the files
that would appear to need remaking (-t) */

int touch_flag;

/* Nonzero means just print what commands would need to be executed,
don't actually execute them (-n). */

int
just_print_flag;

/* Print debugging info (--debug). */

static struct stringlist *db_flags = 0;
static int debug_flag = 0;

int db_level = 0;

/* Synchronize output (--output-sync). */

char *output_sync_option = 0;

#ifdef WINDOWS32
/* Suspend make in main for a short time to allow debugger to attach */

int suspend_flag = 0;
#endif

/* Environment variables override makefile definitions. */

int env_overrides = 0;

/* Nonzero means ignore status codes returned by commands
executed to remake files. Just treat them all as successful (-i). */

int ignore_errors_flag = 0;
```



```

/* Nonzero means don't remake anything, just print the data base
   that results from reading the makefile (-p). */

int print_data_base_flag = 0;

/* Nonzero means don't remake anything; just return a nonzero status
   if the specified targets are not up to date (-q). */

int question_flag = 0;

/* Nonzero means do not use any of the builtin rules (-r) / variables (-R).
   */

int no_builtin_rules_flag = 0;
int no_builtin_variables_flag = 0;

/* Nonzero means keep going even if remaking some file fails (-k). */

int keep_going_flag;
int default_keep_going_flag = 0;

/* Nonzero means check symlink mtimes. */

int check_symlink_flag = 0;

/* Nonzero means print directory before starting and when done (-w). */

int print_directory_flag = 0;

/* Nonzero means ignore print_directory_flag and never print the directory.
   This is necessary because print_directory_flag is set implicitly. */

int inhibit_print_directory_flag = 0;

/* Nonzero means print version information. */

int print_version_flag = 0;

/* List of makefiles given with -f switches. */

static struct stringlist *makefiles = 0;

/* Size of the stack when we started. */

#ifdef SET_STACK_SIZE
struct rlimit stack_limit;
#endif

```

```

/* Number of job slots for parallelism. */

unsigned int job_slots;

#define INVALID_JOB_SLOTS (-1)
static unsigned int
    master_job_slots = 0;
static int arg_job_slots = INVALID_JOB_SLOTS;

static const int default_job_slots = INVALID_JOB_SLOTS;

/* Value of job_slots that means no limit. */

static const int inf_jobs = 0;

/* Authorization for the jobserver. */

static char *jobserver_auth = NULL;

/* Handle for the mutex used on Windows to synchronize output of our
   children under -O. */

char *sync_mutex = NULL;

/* Maximum load average at which multiple jobs will be run.
   Negative values mean unlimited, while zero means limit to
   zero load (which could be useful to start infinite jobs remotely
   but one at a time locally). */
#ifdef NO_FLOAT
double max_load_average = -1.0;
double default_load_average = -1.0;
#else
int max_load_average = -1;
int default_load_average = -1;
#endif

/* List of directories given with -C switches. */

static struct stringlist *directories = 0;

/* List of include directories given with -I switches. */

static struct stringlist
    *include_directories = 0;

/* List of files given with -o switches. */

```

```

static struct stringlist *old_files = 0;

/* List of files given with -W switches. */

static struct stringlist *new_files = 0;

/* List of strings to be eval'd. */
static struct stringlist *eval_strings = 0;

/* If nonzero, we should just print usage and exit. */

static int print_usage_flag = 0;

/* If nonzero, we should print a warning message
   for each reference to an undefined variable. */

int warn_undefined_variables_flag;

/* If nonzero, always build all targets, regardless of whether
   they appear out of date or not. */

static int always_make_set = 0;
int always_make_flag = 0;

/* If nonzero, we're in the "try to rebuild makefiles" phase. */

int rebuilding_makefiles = 0;

/* Remember the original value of the SHELL variable, from the environment. */

struct variable shell_var;

/* This character introduces a command: it's the first char on the line. */

char
cmd_prefix = '\t';

/* The usage output. We write it this way to make life easier for the
   translators, especially those trying to translate to right-to-left
   languages like Hebrew. */

static const char *const usage[] =
{
    N_("Options:\n"),
    N_("\n
-b, -m          Ignored for compatibility.\n"),

```

```

N_("\
-B, --always-make      Unconditionally make all targets.\n"),
N_("\
-C DIRECTORY, --directory=DIRECTORY\n\
      Change to DIRECTORY before doing anything.\n"),
N_("\
-d                    Print lots of debugging information.\n"),
N_("\
--debug[=FLAGS]      Print various types of debugging information.\n"),
N_("\
-e, --environment-overrides\n\
      Environment variables override makefiles.\n"),
N_("\
--eval=STRING        Evaluate STRING as a makefile statement.\n"),
N_("\
-f FILE, --file=FILE, --makefile=FILE\n\
      Read FILE as a makefile.\n"),
N_("\
-h, --help           Print this message and exit.\n"),
N_("\
-i, --ignore-errors  Ignore errors from recipes.\n"),
N_("\
-I DIRECTORY, --include-dir=DIRECTORY\n\
      Search DIRECTORY for included makefiles.\n"),
N_("\
-j [N], --jobs[=N]   Allow N jobs at once; infinite jobs with no arg.\n"),
N_("\
-k, --keep-going     Keep going when some targets can't be made.\n"),
N_("\
-l [N], --load-average[=N], --max-load[=N]\n\
      Don't start multiple jobs unless load is below N.\n"),
N_("\
-L, --check-symlink-times  Use the latest mtime between symlinks and target.\n"),
N_("\
-n, --just-print, --dry-run, --recon\n\
      Don't actually run any recipe; just print them.\n"),
N_("\
-o FILE, --old-file=FILE, --assume-old=FILE\n\
      Consider FILE to be very old and don't remake it.\n"),
N_("\
-O[TYPE], --output-sync[=TYPE]\n\
      Synchronize output of parallel jobs by TYPE.\n"),
N_("\
-p, --print-data-base  Print make's internal database.\n"),
N_("\
-q, --question        Run no recipe; exit status says if up to date.\n"),
N_("\

```

```

-r, --no-builtin-rules    Disable the built-in implicit rules.\n"),
    N_("\n")
-R, --no-builtin-variables  Disable the built-in variable settings.\n"),
    N_("\n")
-s, --silent, --quiet     Don't echo recipes.\n"),
    N_("\n")
-S, --no-keep-going, --stop\n\
    Turns off -k.\n"),
    N_("\n")
-t, --touch               Touch targets instead of remaking them.\n"),
    N_("\n")
--trace                   Print tracing information.\n"),
    N_("\n")
-v, --version             Print the version number of make and exit.\n"),
    N_("\n")
-w, --print-directory     Print the
current directory.\n"),
    N_("\n")
--no-print-directory     Turn off -w, even if it was turned on implicitly.\n"),
    N_("\n")
-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE\n\
    Consider FILE to be infinitely new.\n"),
    N_("\n")
--warn-undefined-variables  Warn when an undefined variable is referenced.\n"),
    NULL
};

```

/\* The table of command switches.

Order matters here: this is the order MAKEFLAGS will be constructed.

So be sure all simple flags (single char, no argument) come first. \*/

```

static const struct command_switch switches[] =
{
    { 'b', ignore, 0, 0, 0, 0, 0, 0, 0 },
    { 'B', flag, &always_make_set, 1, 1, 0, 0, 0, "always-make" },
    { 'd', flag, &debug_flag, 1, 1, 0, 0, 0, 0 },
#ifdef WINDOWS32
    { 'D', flag, &suspend_flag, 1, 1, 0, 0, 0, "suspend-for-debug" },
#endif
    { 'e', flag, &env_overrides, 1, 1, 0, 0, 0, "environment-overrides" },
    { 'h', flag, &print_usage_flag, 0, 0, 0, 0, 0, "help" },
    { 'i', flag, &ignore_errors_flag, 1, 1, 0, 0, 0, "ignore-errors" },
    { 'k', flag, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag,
        "keep-going" },
    { 'L', flag, &check_symlink_flag, 1, 1, 0, 0, 0, "check-symlink-times" },
    { 'm', ignore, 0, 0, 0, 0, 0, 0, 0 },
    { 'n', flag, &just_print_flag, 1, 1, 1, 0, 0, "just-print" },

```

```

{ 'p', flag, &print_data_base_flag, 1, 1, 0, 0, 0, "print-data-base" },
{ 'q', flag, &question_flag, 1, 1, 1, 0, 0, "question" },
{ 'r', flag, &no_builtin_rules_flag, 1, 1, 0, 0, 0, "no-builtin-rules" },
{ 'R', flag, &no_builtin_variables_flag, 1, 1, 0, 0, 0,
  "no-builtin-variables" },
{ 's', flag, &silent_flag, 1, 1, 0, 0, 0, "silent" },
{ 'S', flag_off, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag,
  "no-keep-going" },
{ 't', flag, &touch_flag, 1, 1, 1, 0, 0, "touch" },
{ 'v', flag, &print_version_flag, 1, 1, 0, 0, 0, "version" },
{ 'w', flag, &print_directory_flag,
1, 1, 0, 0, 0, "print-directory" },

/* These options take arguments. */
{ 'C', filename, &directories, 0, 0, 0, 0, 0, "directory" },
{ 'F', filename, &makefiles, 0, 0, 0, 0, 0, "file" },
{ 'T', filename, &include_directories, 1, 1, 0, 0, 0,
  "include-dir" },
{ 'j', positive_int, &arg_job_slots, 1, 1, 0, &inf_jobs, &default_job_slots,
  "jobs" },
#ifdef NO_FLOAT
{ 'l', floating, &max_load_average, 1, 1, 0, &default_load_average,
  &default_load_average, "load-average" },
#else
{ 'l', positive_int, &max_load_average, 1, 1, 0, &default_load_average,
  &default_load_average, "load-average" },
#endif
{ 'o', filename, &old_files, 0, 0, 0, 0, 0, "old-file" },
{ 'O', string, &output_sync_option, 1, 1, 0, "target", 0, "output-sync" },
{ 'W', filename, &new_files, 0, 0, 0, 0, 0, "what-if" },

/* These are long-style options. */
{ CHAR_MAX+1, strlist, &db_flags, 1, 1, 0, "basic", 0, "debug"
},
{ CHAR_MAX+2, string, &jobserver_auth, 1, 1, 0, 0, 0, "jobserver-auth" },
{ CHAR_MAX+3, flag, &trace_flag, 1, 1, 0, 0, 0, "trace" },
{ CHAR_MAX+4, flag, &inhibit_print_directory_flag, 1, 1, 0, 0, 0,
  "no-print-directory" },
{ CHAR_MAX+5, flag, &warn_undefined_variables_flag, 1, 1, 0, 0, 0,
  "warn-undefined-variables" },
{ CHAR_MAX+6, strlist, &eval_strings, 1, 0, 0, 0, 0, "eval" },
{ CHAR_MAX+7, string, &sync_mutex, 1, 1, 0, 0, 0, "sync-mutex" },
{ 0, 0, 0, 0, 0, 0, 0, 0, 0 }
};

/* Secondary long names for options. */

static struct option long_option_aliases[] =

```

```

{
  { "quiet",      no_argument,      0, 's' },
  { "stop",      no_argument,      0, 'S' },
  { "new-file",  required_argument, 0, 'W' },
  { "assume-new", required_argument, 0, 'W' },
  { "assume-old", required_argument, 0, 'o' },
  { "max-load",  optional_argument,  0, 'l' },
  { "dry-run",
    no_argument,      0, 'n' },
  { "recon",     no_argument,      0, 'n' },
  { "makefile",  required_argument,  0, 'f' },
};

/* List of goal targets. */

static struct goaldep *goals, *lastgoal;

/* List of variables which were defined on the command line
(or, equivalently, in MAKEFLAGS). */

struct command_variable
{
  struct command_variable *next;
  struct variable *variable;
};
static struct command_variable *command_variables;

/* The name we were invoked with. */

#ifdef WINDOWS32
/* On MS-Windows, we chop off the .exe suffix in 'main', so this
cannot be 'const'. */
char *program;
#else
const char *program;
#endif

/* Our current directory before processing any -C options. */

char *directory_before_chdir;

/* Our current directory after processing all -C options. */

char *starting_directory;

/* Value of the MAKELEVEL variable at startup (or 0). */

unsigned int makelevel;

```

```

/*
Pointer to the value of the .DEFAULT_GOAL special variable.
The value will be the name of the goal to remake if the command line
does not override it. It can be set by the makefile, or else it's
the first target defined in the makefile whose name does not start
with '!. */

struct variable * default_goal_var;

/* Pointer to structure for the file .DEFAULT
whose commands are used for any file that has none of its own.
This is zero if the makefiles do not define .DEFAULT. */

struct file *default_file;

/* Nonzero if we have seen the magic '.POSIX' target.
This turns on pedantic compliance with POSIX.2. */

int posix_pedantic;

/* Nonzero if we have seen the '.SECONDEXPANSION' target.
This turns on secondary expansion of prerequisites. */

int second_expansion;

/* Nonzero if we have seen the '.ONESHELL' target.
This causes the entire recipe to be handed to SHELL
as a single string, potentially containing newlines. */

int
one_shell;

/* One of OUTPUT_SYNC_* if the "--output-sync" option was given. This
attempts to synchronize the output of parallel jobs such that the results
of each job stay together. */

int output_sync = OUTPUT_SYNC_NONE;

/* Nonzero if the "--trace" option was given. */

int trace_flag = 0;

/* Nonzero if we have seen the '.NOTPARALLEL' target.
This turns off parallel builds for this invocation of make. */

int not_parallel;

```



```

/* Nonzero if some rule detected clock skew; we keep track so (a) we only
   print one warning about it during the run, and (b) we can print a final
   warning at the end of the run. */

int clock_skew_detected;

/* Map of possible stop characters for searching strings. */
#ifndef UCHAR_MAX
#define UCHAR_MAX 255
#endif
unsigned short stopchar_map[UCHAR_MAX + 1] = {0};

/* If output-sync is enabled we'll collect all the output generated due to
   options, while reading makefiles, etc. */

struct output make_sync;

/*
   Mask of signals that are being caught with fatal_error_signal. */

#ifndef POSIX
sigset_t fatal_signal_set;
#else
#ifdef HAVE_SIGSETMASK
int fatal_signal_mask;
#endif
#endif

#ifdef !HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
#ifdef !defined HAVE_SIGACTION
#define bsd_signal signal
#else
typedef RETSIGTYPE (*bsd_signal_ret_t) (int);

static bsd_signal_ret_t
bsd_signal (int sig, bsd_signal_ret_t func)
{
    struct sigaction act, oact;
    act.sa_handler = func;
    act.sa_flags = SA_RESTART;
    sigemptyset (&act.sa_mask);
    sigaddset (&act.sa_mask, sig);
    if (sigaction (sig, &act, &oact) != 0)
        return SIG_ERR;
    return oact.sa_handler;
}
#endif
#endif

```

```

#endif

static void
initialize_global_hash_tables (void)
{
    init_hash_global_variable_set ();
    strcache_init ();
    init_hash_files ();
    hash_init_directories ();
    hash_init_function_table ();
}

/* This character map locate stop chars when parsing GNU makefiles.
   Each element is true if
   we should stop parsing on that character. */

static void
initialize_stopchar_map (void)
{
    int i;

    stopchar_map[(int)'0'] = MAP_NUL;
    stopchar_map[(int) '#'] = MAP_COMMENT;
    stopchar_map[(int) ';'] = MAP_SEMI;
    stopchar_map[(int) '='] = MAP_EQUALS;
    stopchar_map[(int) ':'] = MAP_COLON;
    stopchar_map[(int) '%'] = MAP_PERCENT;
    stopchar_map[(int) '|'] = MAP_PIPE;
    stopchar_map[(int) '.'] = MAP_DOT | MAP_USERFUNC;
    stopchar_map[(int) ','] = MAP_COMMA;
    stopchar_map[(int) '$'] = MAP_VARIABLE;

    stopchar_map[(int) '-'] = MAP_USERFUNC;
    stopchar_map[(int) '_'] = MAP_USERFUNC;

    stopchar_map[(int) ' '] = MAP_BLANK;
    stopchar_map[(int) '\t'] = MAP_BLANK;

    stopchar_map[(int) '/'] = MAP_DIRSEP;
    #if defined(VMS)
    stopchar_map[(int) ':'] |= MAP_DIRSEP;
    stopchar_map[(int) '|'] |= MAP_DIRSEP;
    stopchar_map[(int) '>'] |= MAP_DIRSEP;
    #elif defined(HAVE_DOS_PATHS)
    stopchar_map[(int) '\\'] |= MAP_DIRSEP;
    #endif

    for (i = 1; i <= UCHAR_MAX; ++i)

```

```

{

if (isspace (i) && NONE_SET (stopchar_map[i], MAP_BLANK))
    /* Don't mark blank characters as newline characters. */
    stopchar_map[i] |= MAP_NEWLINE;
else if (isalnum (i))
    stopchar_map[i] |= MAP_USERFUNC;
}
}

static const char *
expand_command_line_file (const char *name)
{
    const char *cp;
    char *expanded = 0;

    if (name[0] == '\0')
        O (fatal, NILF, _("empty string invalid as file name"));

    if (name[0] == '~')
        {
            expanded = tilde_expand (name);
            if (expanded && expanded[0] != '\0')
                name = expanded;
        }

    /* This is also done in parse_file_seq, so this is redundant
       for names read from makefiles. It is here for names passed
       on the command line. */
    while (name[0] == '.' && name[1] == '/')
        {
            name += 2;
            while (name[0] == '/')
                /* Skip following slashes: "../foo" is "foo", not "/foo". */
                ++name;
        }

    if (name[0] == '\0')
        {
            /* Nothing
            else but one or more "./", maybe plus slashes! */
            name = "./";
        }

    cp = strcache_add (name);

    free (expanded);

```

```

return cp;
}

/* Toggle -d on receipt of SIGUSR1. */

#ifdef SIGUSR1
static RETSIGTYPE
debug_signal_handler (int sig UNUSED)
{
    db_level = db_level ? DB_NONE : DB_BASIC;
}
#endif

static void
decode_debug_flags (void)
{
    const char **pp;

    if (debug_flag)
        db_level = DB_ALL;

    if (db_flags)
        for (pp=db_flags->list; *pp; ++pp)
        {
            const char *p = *pp;

            while (1)
            {
                switch (tolower (p[0]))
                {
                    case 'a':
                        db_level |= DB_ALL;
                        break;
                    case 'b':
                        db_level |= DB_BASIC;
                        break;
                    case 'i':
                        db_level |= DB_BASIC | DB_IMPLICIT;
                        break;
                    case 'j':
                        db_level |= DB_JOBS;
                        break;

                    case 'm':
                        db_level |= DB_BASIC | DB_MAKEFILES;
                        break;
                    case 'n':
                        db_level = 0;

```

```

        break;
    case 'v':
        db_level |= DB_BASIC | DB_VERBOSE;
        break;
    default:
        OS (fatal, NILF,
            _("unknown debug level specification '%s'"), p);
    }

while (*(++p) != '\0')
    if (*p == ';' || *p == ' ')
        {
            ++p;
            break;
        }

    if (*p == '\0')
        break;
}

if (db_level)
    verify_flag = 1;

if (! db_level)
    debug_flag = 0;
}

static void
decode_output_sync_flags (void)
{
#ifdef NO_OUTPUT_SYNC
    output_sync = OUTPUT_SYNC_NONE;
#else
    if (output_sync_option)
        {
            if (streq (output_sync_option, "none"))
                output_sync = OUTPUT_SYNC_NONE;
            else
                if (streq (output_sync_option, "line"))
                    output_sync = OUTPUT_SYNC_LINE;
                else if (streq (output_sync_option, "target"))
                    output_sync = OUTPUT_SYNC_TARGET;
                else if (streq (output_sync_option, "recurse"))
                    output_sync = OUTPUT_SYNC_RECURSE;
                else
                    OS (fatal, NILF,
                        _("unknown output-sync type '%s'"), output_sync_option);
        }
}

```

```

    }

    if (sync_mutex)
        RECORD_SYNC_MUTEX (sync_mutex);
#endif
}

#ifdef WINDOWS32

#ifndef NO_OUTPUT_SYNC

/* This is called from start_job_command when it detects that
output_sync option is in effect. The handle to the synchronization
mutex is passed, as a string, to sub-makes via the --sync-mutex
command-line argument. */
void
prepare_mutex_handle_string (sync_handle_t handle)
{
    if (!sync_mutex)
    {
        /* Prepare the mutex handle string for our children. */
        /* 2 hex digits per byte + 2 characters for "0x" + null. */
        sync_mutex = xmalloc ((2 * sizeof
(sync_handle_t)) + 2 + 1);
        sprintf (sync_mutex, "0x%Ix", handle);
        define_makeflags (1, 0);
    }
}

#endif /* NO_OUTPUT_SYNC */

/*
* HANDLE runtime exceptions by avoiding a requestor on the GUI. Capture
* exception and print it to stderr instead.
*
* If ! DB_VERBOSE, just print a simple message and exit.
* If DB_VERBOSE, print a more verbose message.
* If compiled for DEBUG, let exception pass through to GUI so that
* debuggers can attach.
*/
LONG WINAPI
handle_runtime_exceptions (struct _EXCEPTION_POINTERS *exinfo)
{
    PEXCEPTION_RECORD exrec = exinfo->ExceptionRecord;
    LPSTR cmdline = GetCommandLine ();
    LPSTR prg = strtok (cmdline, " ");
    CHAR errmsg[1024];
#ifdef USE_EVENT_LOG

```

```

HANDLE hEventSource;
LPTSTR lpszStrings[1];
#endif

if (! ISDB (DB_VERBOSE))
{
    sprintf (errmsg,
        _("%s: Interrupt/Exception caught (code = 0x%lx, addr = 0x%p)\n"),
        prg, exrec->ExceptionCode, exrec->ExceptionAddress);
    fprintf (stderr, errmsg);
    exit (255);
}

sprintf (errmsg,
    _("\nUnhandled exception filter called from program %s\nExceptionCode = %lx\nExceptionFlags =
%lx\nExceptionAddress = 0x%p\n"),
    prg, exrec->ExceptionCode, exrec->ExceptionFlags,
    exrec->ExceptionAddress);

if (exrec->ExceptionCode == EXCEPTION_ACCESS_VIOLATION
    && exrec->NumberParameters >= 2)
    sprintf (&errmsg[strlen(errmsg)],
        (exrec->ExceptionInformation[0]
        ? _("Access violation: write operation at address 0x%p\n")
        : _("Access violation: read operation at address 0x%p\n")),
        (PVOID)exrec->ExceptionInformation[1]);

/* turn this on if we want to put stuff in the event log too */
#ifdef USE_EVENT_LOG
hEventSource = RegisterEventSource (NULL, "GNU Make");
lpszStrings[0] = errmsg;

if (hEventSource != NULL)
{
    ReportEvent (hEventSource, /* handle of event
source */
        EVENTLOG_ERROR_TYPE, /* event type */
        0, /* event category */
        0, /* event ID */
        NULL, /* current user's SID */
        1, /* strings in lpszStrings */
        0, /* no bytes of raw data */
        lpszStrings, /* array of error strings */
        NULL); /* no raw data */

    (VOID) DeregisterEventSource (hEventSource);
}
#endif

```

```

/* Write the error to stderr too */
fprintf (stderr, errmsg);

#ifdef DEBUG
return EXCEPTION_CONTINUE_SEARCH;
#else
exit (255);
return (255); /* not reached */
#endif
}

/*
* On WIN32 systems we don't have the luxury of a /bin directory that
* is mapped globally to every drive mounted to the system. Since make could
* be invoked from any drive, and we don't want to propagate
/bin/sh
* to every single drive. Allow ourselves a chance to search for
* a value for default shell here (if the default path does not exist).
*/

int
find_and_set_default_shell (const char *token)
{
int sh_found = 0;
char *atoken = 0;
const char *search_token;
const char *tokend;
PATH_VAR(sh_path);
extern const char *default_shell;

if (!token)
search_token = default_shell;
else
search_token = atoken = xstrdup (token);

/* If the user explicitly requests the DOS cmd shell, obey that request.
However, make sure that's what they really want by requiring the value
of SHELL either equal, or have a final path element of, "cmd" or
"cmd.exe" case-insensitive. */
tokend = search_token + strlen (search_token) - 3;
if (((tokend == search_token
|| (tokend > search_token
&& (tokend[-1] == '/' || tokend[-1] == '\\)))
&& !strcasecmp (tokend, "cmd"))
|| ((tokend - 4 == search_token
|| (tokend - 4 > search_token
&& (tokend[-5] == '/' || tokend[-5] == '\\)))

```



```

    && !strcasecmp (tokend - 4, "cmd.exe")))
{
    batch_mode_shell = 1;
    unixy_shell = 0;
    sprintf (sh_path, "%s", search_token);
    default_shell = xstrdup (w32ify (sh_path, 0));
    DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
        default_shell));
    sh_found = 1;
}
else if (!no_default_sh_exe
    && (token == NULL || !strcmp (search_token, default_shell)))
{
    /* no new information, path already set or known */
    sh_found = 1;
}
else if (_access (search_token, 0) == 0)
{
    /* search token path was found */
    sprintf (sh_path, "%s", search_token);
    default_shell = xstrdup (w32ify (sh_path, 0));
    DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
        default_shell));
    sh_found = 1;
}
else
{
    char *p;
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE ("PATH"));

    /* Search Path for shell */
    if (v && v->value)
    {
        char *ep;

        p = v->value;
        ep = strchr (p, PATH_SEPARATOR_CHAR);

        while (ep && *ep)
        {
            *ep = '\0';

            sprintf (sh_path, "%s/%s", p, search_token);
            if (_access (sh_path, 0) == 0)
            {
                default_shell = xstrdup (w32ify (sh_path, 0));
                sh_found = 1;
            }
        }
    }
}

```

```

    *ep = PATH_SEPARATOR_CHAR;

    /* terminate loop */
    p += strlen (p);
}
else
{
    *ep = PATH_SEPARATOR_CHAR;
    p = ++ep;
}

    ep = strchr (p, PATH_SEPARATOR_CHAR);
}

/* be sure to check last element of Path */
if (p
&& *p)
{
    sprintf (sh_path, "%s/%s", p, search_token);
    if (_access (sh_path, 0) == 0)
    {
        default_shell = xstrdup (w32ify (sh_path, 0));
        sh_found = 1;
    }
}

if (sh_found)
    DB (DB_VERBOSE,
        _("find_and_set_shell() path search set default_shell = %s\n"),
        default_shell);
}
}

/* naive test */
if (!unixy_shell && sh_found
    && (strstr (default_shell, "sh") || strstr (default_shell, "SH")))
{
    unixy_shell = 1;
    batch_mode_shell = 0;
}

#ifdef BATCH_MODE_ONLY_SHELL
    batch_mode_shell = 1;
#endif

free (atoken);

return (sh_found);

```

```

}
#endif /* WINDOWS32 */

#ifdef __MSDOS__
static void
msdos_return_to_initial_directory (void)
{
    if (directory_before_chdir)
        chdir (directory_before_chdir);
}
#endif /* __MSDOS__ */

static void
reset_jobserver
(void)
{
    jobserver_clear ();
    free (jobserver_auth);
    jobserver_auth = NULL;
}

#ifdef _AMIGA
int
main (int argc, char **argv)
#else
int
main (int argc, char **argv, char **envp)
#endif
{
    static char *stdin_nm = 0;
    int makefile_status = MAKE_SUCCESS;
    struct goaldep *read_files;
    PATH_VAR (current_directory);
    unsigned int restarts = 0;
    unsigned int syncing = 0;
    int argv_slots;
#ifdef WINDOWS32
    const char *unix_path = NULL;
    const char *windows32_path = NULL;

    SetUnhandledExceptionFilter (handle_runtime_exceptions);

    /* start off assuming we have no shell */
    unixy_shell = 0;
    no_default_sh_exe = 1;
#endif

    output_init (&make_sync);

```

```

initialize_stopchar_map();

#ifdef SET_STACK_SIZE
/* Get rid of any avoidable limit on stack size. */
{
    struct rlimit rlim;

    /* Set the stack limit huge so that alloca does not fail. */
    if (getrlimit (RLIMIT_STACK, &rlim) == 0
        && rlim.rlim_cur > 0 && rlim.rlim_cur
        < rlim.rlim_max)
    {
        stack_limit = rlim;
        rlim.rlim_cur = rlim.rlim_max;
        setrlimit (RLIMIT_STACK, &rlim);
    }
    else
        stack_limit.rlim_cur = 0;
}
#endif

/* Needed for OS/2 */
initialize_main (&argc, &argv);

#ifdef MAKE_MAINTAINER_MODE
/* In maintainer mode we always enable verification. */
verify_flag = 1;
#endif

#if defined (__MSDOS__) && !defined (_POSIX_SOURCE)
/* Request the most powerful version of 'system', to
   make up for the dumb default shell. */
__system_flags = (__system_redirect
    | __system_use_shell
    | __system_allow_multiple_cmds
    | __system_allow_long_cmds
    | __system_handle_null_commands
    | __system_emulate_chdir);

#endif

/* Set up gettext/internationalization support. */
setlocale (LC_ALL, "");
/* The cast to void shuts up compiler warnings on systems that

disable NLS. */
(void)bindtextdomain (PACKAGE, LOCALEDIR);

```

```

(void)textdomain (PACKAGE);

#ifdef POSIX
sigemptyset (&fatal_signal_set);
#define ADD_SIG(sig) sigaddset (&fatal_signal_set, sig)
#else
#ifdef HAVE_SIGSETMASK
fatal_signal_mask = 0;
#define ADD_SIG(sig) fatal_signal_mask |= sigmask (sig)
#else
#define ADD_SIG(sig) (void)sig
#endif
#endif

#define FATAL_SIG(sig) \
if (bsd_signal (sig, fatal_error_signal) == SIG_IGN) \
    bsd_signal (sig, SIG_IGN); \
else \
    ADD_SIG (sig);

#ifdef SIGHUP
FATAL_SIG (SIGHUP);
#endif
#ifdef SIGQUIT
FATAL_SIG (SIGQUIT);
#endif
FATAL_SIG (SIGINT);
FATAL_SIG (SIGTERM);

#ifdef __MSDOS__
/* Windows 9X delivers FP exceptions in child programs to their
   parent! We don't want Make to die
   when a child divides by zero,
   so we work around that lossage by catching SIGFPE. */
FATAL_SIG (SIGFPE);
#endif

#ifdef SIGDANGER
FATAL_SIG (SIGDANGER);
#endif
#ifdef SIGXCPU
FATAL_SIG (SIGXCPU);
#endif
#ifdef SIGXFSZ
FATAL_SIG (SIGXFSZ);
#endif

#undef FATAL_SIG

```

```
/* Do not ignore the child-death signal. This must be done before
any children could possibly be created; otherwise, the wait
functions won't work on systems with the SVR4 ECHILD brain
damage, if our invoker is ignoring this signal. */
```

```
#ifdef HAVE_WAIT_NOHANG
# if defined SIGCHLD
(void) bsd_signal (SIGCHLD, SIG_DFL);
# endif
# if defined SIGCLD && SIGCLD != SIGCHLD
(void) bsd_signal (SIGCLD, SIG_DFL);
# endif
#endif
```

```
output_init (NULL);
```

```
/* Figure out where this program lives. */
```

```
if (argv[0] == 0)
    argv[0] = (char *)"";
if (argv[0][0] == '\0')
    program = "make";
else
    {
    program = strrchr (argv[0], '/');
#ifdef __MSDOS__
|| defined(__EMX__)
    if (program == 0)
        program = strrchr (argv[0], '\\');
    else
        {
        /* Some weird environments might pass us argv[0] with
        both kinds of slashes; we must find the rightmost. */
        char *p = strrchr (argv[0], '\\');
        if (p && p > program)
            program = p;
        }
    if (program == 0 && argv[0][1] == ':')
        program = argv[0] + 1;
#endif
    }
#ifdef WINDOWS32
if (program == 0)
    {
    /* Extract program from full path */
    program = strrchr (argv[0], '\\');
    if (program)
        {
```

```

    int argv0_len = strlen (program);
    if (argv0_len > 4 && streq (&program[argv0_len - 4], ".exe"))
        /* Remove .exe extension */
        program[argv0_len - 4] = '\0';
    }
}
#endif
#ifdef VMS
    set_program_name (argv[0]);
    program = program_name;
    {
        const char
*shell;
        char pwdbuf[256];
        char *pwd;
        shell = getenv ("SHELL");
        if (shell != NULL)
            vms_gnv_shell = 1;

        /* Need to know if CRTL set to report UNIX paths. Use getcwd as
        it works on all versions of VMS. */
        pwd = getcwd(pwdbuf, 256);
        if (pwd[0] == '/')
            vms_report_unix_paths = 1;

        vms_use_mcr_command = get_vms_env_flag ("GNV$MAKE_USE_MCR", 0);

        vms_always_use_cmd_file = get_vms_env_flag ("GNV$MAKE_USE_CMD_FILE", 0);

        /* Legacy behavior is on VMS is older behavior that needed to be
        changed to be compatible with standard make behavior.
        For now only completely disable when running under a Bash shell.
        TODO: Update VMS built in recipes and macros to not need this
        behavior, at which time the default may change. */
        vms_legacy_behavior = get_vms_env_flag ("GNV$MAKE_OLD_VMS",

        !vms_gnv_shell);

        /* VMS was changed to use a comma separator in the past, but that is
        incompatible with built in functions that expect space separated
        lists. Allow this to be selectively turned off. */
        vms_comma_separator = get_vms_env_flag ("GNV$MAKE_COMMA",
            vms_legacy_behavior);

        /* Some Posix shell syntax options are incompatible with VMS syntax.
        VMS requires double quotes for strings and escapes quotes
        differently. When this option is active, VMS will try
        to simulate Posix shell simulations instead of using

```

```

    VMS DCL behavior. */
    vms_unix_simulation = get_vms_env_flag ("GNV$MAKE_SHELL_SIM",
        !vms_legacy_behavior);

}
if (need_vms_symbol () && !vms_use_mcr_command)
    create_foreign_command (program_name, argv[0]);
#else
    if (program == 0)
        program = argv[0];
    else
        ++program;
#endif
}

/* Set up to access user data (files). */
user_access ();

initialize_global_hash_tables ();

/* Figure out where we are. */

#ifdef WINDOWS32
if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
{
#ifdef HAVE_GETCWD
    perror_with_name ("getcwd", "");
#else
    OS (error, NILF, "getwd: %s", current_directory);
#endif
}
else
    directory_before_chdir = xstrdup (current_directory);

#ifdef __MSDOS__
/* Make sure we will return to the initial directory, come what may. */
atexit (msdos_return_to_initial_directory);
#endif

/* Initialize the special variables. */
define_variable_cname (".VARIABLES", "", o_default, 0)->special = 1;
/* define_variable_cname (".TARGETS", "", o_default, 0)->special = 1; */
define_variable_cname

```



```

(".RECIPEPREFIX", "", o_default, 0)->special = 1;
define_variable_cname (".SHELLFLAGS", "-c", o_default, 0);
define_variable_cname (".LOADED", "", o_default, 0);

/* Set up .FEATURES
   Use a separate variable because define_variable_cname() is a macro and
   some compilers (MSVC) don't like conditionals in macros. */
{
  const char *features = "target-specific order-only second-expansion"
    " else-if shortest-stem undefine oneshell"
#ifdef NO_ARCHIVES
    " archives"
#endif
#ifdef MAKE_JOBSEVER
    " jobserver"
#endif
#ifdef NO_OUTPUT_SYNC
    " output-sync"
#endif
#ifdef MAKE_SYMLINKS
    " check-symlink"
#endif
#ifdef HAVE_GUILLE
    " guile"
#endif
#ifdef MAKE_LOAD
    " load"
#endif
    ;

  define_variable_cname (".FEATURES", features,
    o_default, 0);
}

/* Configure GNU Guile support */
guile_gmake_setup (NILF);

/* Read in variables from the environment. It is important that this be
   done before $(MAKE) is figured out so its definitions will not be
   from the environment. */

#ifdef _AMIGA
{
  unsigned int i;

  for (i = 0; envp[i] != 0; ++i)
    {
      struct variable *v;
    }
}

```

```

const char *ep = envp[i];
/* By default, export all variables culled from the environment. */
enum variable_export export = v_export;
unsigned int len;

while (! STOP_SET (*ep, MAP_EQUALS))
    ++ep;

/* If there's no equals sign it's a malformed environment. Ignore. */
if (*ep == '\0')
    continue;

#ifdef WINDOWS32
    if (!unix_path && strneq (envp[i], "PATH=", 5))
        unix_path = ep+1;
    else if (!strnicmp (envp[i], "Path=", 5))
    {
        if (!windows32_path)
            windows32_path
= ep+1;
        /* PATH gets defined after the loop exits. */
        continue;
    }
#endif

/* Length of the variable name, and skip the '='. */
len = ep++ - envp[i];

/* If this is MAKE_RESTARTS, check to see if the "already printed
the enter statement" flag is set. */
if (len == 13 && strneq (envp[i], "MAKE_RESTARTS", 13))
{
    if (*ep == '-')
    {
        OUTPUT_TRACED ();
        ++ep;
    }
    restarts = (unsigned int) atoi (ep);
    export = v_noexport;
}

v = define_variable (envp[i], len, ep, o_env, 1);

/* POSIX says the value of SHELL set in the makefile won't change the
value of SHELL given to subprocesses. */
if (streq (v->name, "SHELL"))
{
#ifdef __MSDOS__

```

```

        export = v_noexport;
#endif
        shell_var.name = xstrdup ("SHELL");
        shell_var.length = 5;
        shell_var.value = xstrdup (ep);
    }

    v->export = export;
}
}
#ifdef WINDOWS32
/* If we didn't find a correctly spelled PATH we define PATH as
 * either the first misspelled value or an empty string
 */
if (!unix_path)
    define_variable_cname ("PATH", windows32_path ? windows32_path : "",
        o_env, 1)->export = v_export;
#endif
#else /* For Amiga, read the ENV: device, ignoring all dirs */
{
    BPTR env, file, old;
    char buffer[1024];
    int len;
    __aligned struct FileInfoBlock fib;

    env = Lock ("ENV:", ACCESS_READ);
    if (env)
    {
        old = CurrentDir (DupLock (env));
        Examine (env, &fib);

        while (ExNext (env, &fib))
        {
            if (fib.fib_DirEntryType < 0) /* File */
            {
                /* Define an empty variable.
It will be filled in
                variable_lookup(). Makes startup quite a bit faster. */
                define_variable (fib.fib_FileName,
                    strlen (fib.fib_FileName),
                    "", o_env, 1)->export = v_export;
            }
        }
        UnLock (env);
        UnLock (CurrentDir (old));
    }
}
#endif

```

```

/* Decode the switches. */
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", "", o_env, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));

#if 0
/* People write things like:
   MFLAGS="CC=gcc -pipe" "CFLAGS=-g"
   and we set the -p, -i and -e switches. Doesn't seem quite right. */
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* In output sync mode we need to sync any output generated by reading the
   makefiles, such as in $(info ...) or stderr from $(shell ...) etc. */

syncing = make_sync.syncout = (output_sync == OUTPUT_SYNC_LINE
                               || output_sync == OUTPUT_SYNC_TARGET);
OUTPUT_SET (&make_sync);

/* Remember the job slots set through the environment vs. command line. */
{
  int env_slots = arg_job_slots;
  arg_job_slots = INVALID_JOB_SLOTS;

  decode_switches (argc, (const char **)argv, 0);
  argv_slots = arg_job_slots;

  if (arg_job_slots == INVALID_JOB_SLOTS)
    arg_job_slots = env_slots;
}

/* Set a variable specifying whether stdout/stdin is hooked to a TTY. */
#ifdef HAVE_ISATTY
if (isatty (fileno (stdout)))
  if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMOUT")))
    {
      const char *tty = TTYNAME (fileno (stdout));
      define_variable_cname ("MAKE_TERMOUT", tty ? tty : DEFAULT_TTYNAME,
                            o_default, 0)->export = v_export;
    }
if (isatty
    (fileno (stderr)))
  if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMERR")))

```

```

    {
        const char *tty = TTYNAME (fileno (stderr));
        define_variable_cname ("MAKE_TERMERR", tty ? tty : DEFAULT_TTYNAME,
                               o_default, 0)->export = v_export;
    }
#endif

/* Reset in case the switches changed our minds. */
syncing = (output_sync == OUTPUT_SYNC_LINE
           || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
    output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* Figure out the level of recursion. */
{
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE (MAKELEVEL_NAME));
    if (v && v->value[0] != '\0' && v->value[0] != '-')
        makelevel = (unsigned int) atoi (v->value);
    else
        makelevel = 0;
}

#ifdef WINDOWS32
if (suspend_flag)
    {
        fprintf (stderr, "%s (pid = %ld)\n", argv[0], GetCurrentProcessId ());
        fprintf (stderr, _("%s is suspending for 30 seconds..."), argv[0]);
        Sleep (30 * 1000);
        fprintf (stderr, _("done sleep(30). Continuing.\n"));
    }
#endif

/* Set always_make_flag if -B was given and we've not restarted already. */
always_make_flag = always_make_set && (restarts == 0);

/* Print version information, and exit. */
if (print_version_flag)
    {
        print_version ();
        die (MAKE_SUCCESS);
    }

if (ISDB (DB_BASIC))
    print_version ();

```

```

#ifndef VMS
/* Set the "MAKE_COMMAND" variable to the name we were invoked with.
   (If it is a relative pathname with a slash, prepend our directory name
   so the result will run the same program regardless of the current dir.
   If it is a name with no slash, we can only hope that PATH did not
   find it in the current directory.) */
#ifdef WINDOWS32
/*
 * Convert from backslashes to forward slashes for
 * programs like sh which don't like them. Shouldn't
 * matter if the path is one way or the other for
 * CreateProcess().
 */
if (strpbrk (argv[0], ":\\")) || strstr (argv[0], "..")
    || strneq (argv[0], "\\", 2)
    argv[0] = xstrdup (w32ify (argv[0], 1));
#else /* WINDOWS32 */
#ifdef __MSDOS__ || defined (__EMX__)
if (strchr (argv[0], '\\'))
{
    char *p;

    argv[0] = xstrdup (argv[0]);
    for (p = argv[0]; *p; p++)
        if (*p == '\\')
            *p = '/';
}
/* If argv[0] is not in absolute form, prepend the current
   directory. This can happen when Make is invoked by another DJGPP
   program that uses a non-absolute name. */
if (current_directory[0] != '\0'
    && argv[0] != 0
    && (argv[0][0] != '/' && (argv[0][0] == '\0' || argv[0][1] != ':'))
#ifdef __EMX__
    /* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
    && (strchr (argv[0], '/') != 0 || strchr (argv[0], '\\') != 0)
#endif
)
    argv[0] = xstrdup (concat
(3, current_directory, "/", argv[0]));
#else /* !__MSDOS__ */
if (current_directory[0] != '\0'
    && argv[0] != 0 && argv[0][0] != '/' && strchr (argv[0], '/') != 0
#ifdef HAVE_DOS_PATHS
    && (argv[0][0] != '\\ && (!argv[0][0] || argv[0][1] != ':'))
    && strchr (argv[0], '\\') != 0
#endif
)
#endif

```

```

)
argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#endif /* !__MSDOS__ */
#endif /* WINDOWS32 */
#endif

/* We may move, but until we do, here we are. */
starting_directory = current_directory;

/* Set up the job_slots value and the jobserver. This can't be usefully set
in the makefile, and we want to verify the authorization is valid before
make has a chance to start using it for something else. */

if (jobserver_auth)
{
if (argv_slots == INVALID_JOB_SLOTS)
{
if (jobserver_parse_auth (jobserver_auth))
{
/* Success! Use the jobserver. */
job_slots
= 0;
goto job_setup_complete;
}

O (error, NILF, _("warning: jobserver unavailable: using -j1. Add '+' to parent make rule."));
arg_job_slots = 1;
}

/* The user provided a -j setting on the command line: use it. */
else if (!restarts)
/* If restarts is >0 we already printed this message. */
O (error, NILF,
_("warning: -jN forced in submake: disabling jobserver mode."));

/* We failed to use our parent's jobserver. */
reset_jobserver ();
job_slots = (unsigned int)arg_job_slots;
}
else if (arg_job_slots == INVALID_JOB_SLOTS)
/* The default is one job at a time. */
job_slots = 1;
else
/* Use whatever was provided. */
job_slots = (unsigned int)arg_job_slots;

job_setup_complete:

```

```

/* The extra indirection through $(MAKE_COMMAND) is done
   for hysterical raisins. */

#ifdef VMS
if (vms_use_mcr_command)

    define_variable_cname ("MAKE_COMMAND", vms_command (argv[0]), o_default, 0);
else
    define_variable_cname ("MAKE_COMMAND", program, o_default, 0);
#else
define_variable_cname ("MAKE_COMMAND", argv[0], o_default, 0);
#endif
define_variable_cname ("MAKE", "$(MAKE_COMMAND)", o_default, 1);

if (command_variables != 0)
{
    struct command_variable *cv;
    struct variable *v;
    unsigned int len = 0;
    char *value, *p;

    /* Figure out how much space will be taken up by the command-line
       variable definitions. */
    for (cv = command_variables; cv != 0; cv = cv->next)
    {
        v = cv->variable;
        len += 2 * strlen (v->name);
        if (! v->recursive)
            ++len;
        ++len;
        len += 2 * strlen (v->value);
        ++len;
    }

    /* Now allocate a buffer big enough and fill it. */
    p = value = alloca (len);
    for (cv = command_variables; cv != 0; cv = cv->next)
    {
        v = cv->variable;
        p = quote_for_env (p, v->name);
        if (! v->recursive)
            *p++ = ':';
        *p++ = '=';
        p = quote_for_env (p, v->value);
        *p++ = ' ';
    }
    p[-1] = '\0';      /* Kill the final space and terminate. */
}

```



```

/* Define an unchangeable variable with a name that no POSIX.2
   makefile could validly use for its own variable. */
define_variable_cname ("-*-command-variables-*- ", value, o_automatic, 0);

/* Define the variable; this will not override any user definition.
   Normally a reference to this variable is written into the value of
   MAKEFLAGS, allowing the user to override this value to affect the
   exported value of MAKEFLAGS. In POSIX-pedantic mode, we cannot
   allow the user's setting of MAKEOVERRIDES to affect MAKEFLAGS, so
   a reference to this hidden variable is written instead. */
define_variable_cname
("MAKEOVERRIDES", "${-*-command-variables-*-}",
    o_env, 1);
#ifdef VMS
    vms_export_dcl_symbol ("MAKEOVERRIDES", "${-*-command-variables-*-}");
#endif
}

/* If there were -C flags, move ourselves about. */
if (directories != 0)
{
    unsigned int i;
    for (i = 0; directories->list[i] != 0; ++i)
    {
        const char *dir = directories->list[i];
#ifdef WINDOWS32
        /* WINDOWS32 chdir() doesn't work if the directory has a trailing '/'
           But allow -C/ just in case someone wants that. */
        {
            char *p = (char *)dir + strlen (dir) - 1;
            while (p > dir && (p[0] == '/' || p[0] == '\\'))
                --p;
            p[1] = '\0';
        }
#endif
        if (chdir (dir) < 0)
            pfatal_with_name (dir);
    }
}

#ifdef WINDOWS32
/*
 * THIS BLOCK OF CODE MUST COME AFTER chdir() CALL ABOVE IN ORDER
 * TO NOT CONFUSE THE
DEPENDENCY CHECKING CODE IN implicit.c.
 *
 * The functions in dir.c can incorrectly cache information for "."
 * before we have changed directory and this can cause file

```

```

* lookups to fail because the current directory (.) was pointing
* at the wrong place when it was first evaluated.
*/
no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

/* Except under -s, always do -w in sub-makes and under -C. */
if (!silent_flag && (directories != 0 || makelevel > 0))
    print_directory_flag = 1;

/* Let the user disable that with --no-print-directory. */
if (inhibit_print_directory_flag)
    print_directory_flag = 0;

/* If -R was given, set -r too (doesn't make sense otherwise!) */
if (no_built_in_variables_flag)
    no_built_in_rules_flag = 1;

/* Construct the list of include directories to search. */

construct_include_path (include_directories == 0
                       ? 0 : include_directories->list);

/* If we chdir'ed, figure out where we are now. */
if (directories)
{
#ifdef WINDOWS32
    if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
    if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
    {
#ifdef HAVE_GETCWD
        perror_with_name ("getcwd", "");
    }
    OS (error, NILF, "getwd: %s", current_directory);
#endif
    starting_directory = 0;
    }
    else
        starting_directory = current_directory;
    }

define_variable_cname ("CURDIR", current_directory, o_file, 0);

/* Read any stdin makefiles into temporary files. */

if (makefiles != 0)

```

```

{
    unsigned int i;
    for (i = 0; i < makefiles->idx; ++i)
        if (makefiles->list[i][0] == '-' && makefiles->list[i][1] == '\0')
            {
                /* This makefile is standard input. Since we may re-exec
                   and thus re-read the makefiles, we read standard input
                   into a temporary
file and read from that. */
                FILE *outfile;
                char *template;
                const char *tmpdir;

                if (stdin_nm)
                    O (fatal, NILF,
                       _("Makefile from standard input specified twice.));

#ifdef VMS
#define DEFAULT_TMPDIR    "/sys$scratch/"
#else
#define P_tmpdir
#define DEFAULT_TMPDIR    P_tmpdir
#else
#define DEFAULT_TMPDIR    "/tmp"
#endif
#define DEFAULT_TMPFILE    "GmXXXXXX"

                if (((tmpdir = getenv ("TMPDIR")) == NULL || *tmpdir == '\0')
#ifdef __MSDOS__ || defined (WINDOWS32) || defined (__EMX__)
                    /* These are also used commonly on these platforms. */
                    && ((tmpdir = getenv ("TEMP")) == NULL || *tmpdir == '\0')
                    && ((tmpdir = getenv ("TMP")) == NULL || *tmpdir == '\0')
#endif
                )
                    tmpdir = DEFAULT_TMPDIR;

                template = alloca (strlen (tmpdir) + CSTRLEN (DEFAULT_TMPFILE) + 2);

                strcpy (template, tmpdir);

#ifdef HAVE_DOS_PATHS
                if (strchr ("\\", template[strlen (template) - 1]) == NULL)
                    strcat (template, "/");
#else
#define VMS
                if (template[strlen (template) - 1] != '/')
                    strcat (template, "/");

```

```

# endif /* !VMS */
#endif /* !HAVE_DOS_PATHS */

    strcat (template, DEFAULT_TMPFILE);
    outfile = output_tmpfile (&stdin_nm, template);
    if (outfile == 0)
        pfatal_with_name (_("fopen (temporary file)"));
    while (!feof (stdin) && ! ferror (stdin))
        {
            char buf[2048];
            unsigned int n = fread (buf, 1, sizeof (buf), stdin);
            if (n > 0 && fwrite (buf, 1, n, outfile) != n)
                pfatal_with_name (_("fwrite (temporary file)"));
        }
    fclose (outfile);

    /* Replace the name that read_all_makefiles will
       see with the name of
the temporary file. */
    makefiles->list[i] = strcache_add (stdin_nm);

    /* Make sure the temporary file will not be remade. */
    {
        struct file *f = enter_file (strcache_add (stdin_nm));
        f->updated = 1;
        f->update_status = us_success;
        f->command_state = cs_finished;
        /* Can't be intermediate, or it'll be removed too early for
           make re-exec. */
        f->intermediate = 0;
        f->dontcare = 0;
    }
}
}

#endif __EMX__ /* Don't use a SIGCHLD handler for OS/2 */
#if !defined(HAVE_WAIT_NOHANG) || defined(MAKE_JOBSEVER)
/* Set up to handle children dying. This must be done before
   reading in the makefiles so that 'shell' function calls will work.

```

If we don't have a hanging wait we have to fall back to old, broken functionality here and rely on the signal handler and counting children.

If we're using the jobs pipe we need a signal handler so that SIGCHLD is not ignored; we need it to interrupt the read(2) of the jobserver pipe if we're waiting for a token.

```

    If none of these are true, we don't need a signal handler at all. */
    {
# if defined SIGCHLD
    bsd_signal (SIGCHLD, child_handler);
# endif
# if defined SIGCLD && SIGCLD != SIGCHLD
    bsd_signal (SIGCLD, child_handler);
# endif
    }

#ifdef HAVE_PSELECT
/* If we have pselect() then we need to block SIGCHLD so it's deferred. */
{
    sigset_t block;
    sigemptyset (&block);
    sigaddset (&block, SIGCHLD);
    if (sigprocmask (SIG_SETMASK, &block, NULL) < 0)
        pfatal_with_name ("sigprocmask(SIG_SETMASK, SIGCHLD)");
}
#endif

#endif
#endif

/* Let the user send us SIGUSR1 to toggle the -d flag during the run. */
#ifdef SIGUSR1
    bsd_signal (SIGUSR1, debug_signal_handler);
#endif

/* Define the initial list of suffixes for old-style rules. */
set_default_suffixes ();

/* Define the file rules for the built-in suffix rules. These will later
   be converted into pattern rules. We used to do this in
   install_default_implicit_rules, but since that happens after reading
   makefiles, it results in the built-in pattern rules taking precedence
   over makefile-specified suffix rules, which is wrong. */
install_default_suffix_rules ();

/* Define some internal and special variables. */
define_automatic_variables ();

/* Set up the MAKEFLAGS and MFLAGS variables for makefiles to see.
   Initialize it to be exported but allow the makefile to reset it. */
define_makeflags (0, 0)->export = v_export;

/* Define the default variables. */
define_default_variables ();

```

```

default_file = enter_file (strcache_add (".DEFAULT"));

default_goal_var = define_variable_cname (".DEFAULT_GOAL", "", o_file, 0);

/* Evaluate all strings provided with --eval.
   Also set up the $(-*-eval-flags-*)
   variable. */

if (eval_strings)
{
  char *p, *value;
  unsigned int i;
  unsigned int len = (CSTRLEN ("--eval=") + 1) * eval_strings->idx;

  for (i = 0; i < eval_strings->idx; ++i)
  {
    p = xstrdup (eval_strings->list[i]);
    len += 2 * strlen (p);
    eval_buffer (p, NULL);
    free (p);
  }

  p = value = alloca (len);
  for (i = 0; i < eval_strings->idx; ++i)
  {
    strcpy (p, "--eval=");
    p += CSTRLEN ("--eval=");
    p = quote_for_env (p, eval_strings->list[i]);
    *(p++) = ' ';
  }
  p[-1] = '\0';

  define_variable_cname ("-*eval-flags-*", value, o_automatic, 0);
}

/* Read all the makefiles. */

read_files = read_all_makefiles (makefiles == 0 ? 0 : makefiles->list);

#ifdef WINDOWS32
/* look one last time after reading all Makefiles */
if (no_default_sh_exe)
  no_default_sh_exe = !find_and_set_default_shell
  (NULL);
#endif /* WINDOWS32 */

#ifdef __MSDOS__ || defined (__EMX__) || defined (VMS)

```

```

/* We need to know what kind of shell we will be using. */
{
extern int _is_unixy_shell (const char *_path);
struct variable *shv = lookup_variable (STRING_SIZE_TUPLE ("SHELL"));
extern int unixy_shell;
extern const char *default_shell;

if (shv && *shv->value)
{
char *shell_path = recursively_expand (shv);

if (shell_path && _is_unixy_shell (shell_path))
unixy_shell = 1;
else
unixy_shell = 0;
if (shell_path)
default_shell = shell_path;
}
}
#endif /* __MSDOS__ || __EMX__ */

{
int old_builtin_rules_flag = no_builtin_rules_flag;
int old_builtin_variables_flag = no_builtin_variables_flag;

/* Decode switches again, for variables set by the makefile. */
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS
to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", "", o_override, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));
#if 0
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* Reset in case the switches changed our mind. */
syncing = (output_sync == OUTPUT_SYNC_LINE
|| output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* If we've disabled builtin rules, get rid of them. */

```

```

if (no_builtin_rules_flag && ! old_builtin_rules_flag)
{
    if (suffix_file->builtin)
    {
        free_dep_chain (suffix_file->deps);
        suffix_file->deps = 0;
    }
    define_variable_cname ("SUFFIXES", "", o_default, 0);
}

/* If we've disabled builtin variables, get rid of them. */
if (no_builtin_variables_flag && ! old_builtin_variables_flag)
    undefine_default_variables ();
}

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
if (arg_job_slots != 1
# ifdef __EMX__
    && _osmode != OS2_MODE /* turn off -j if we are in DOS mode */
# endif
)
{
    O (error, NILF,
        _("Parallel jobs (-j) are not supported on this platform."));
    O (error, NILF, _("Resetting to single job (-j1) mode."));
    arg_job_slots = job_slots = 1;
}
#endif

/* If we have >1 slot at this point, then we're a top-level make.
Set up the jobserver.

Every make assumes that it always has one job it can run. For the
submakes it's the token they were given by their parent. For the top
make, we just subtract one from the number the user wants. */

if (job_slots > 1 && jobserver_setup (job_slots - 1))
{
    /* Fill in the jobserver_auth for our children. */
    jobserver_auth = jobserver_get_auth ();

    if (jobserver_auth)
    {
        /* We're using the jobserver so set job_slots to 0. */
        master_job_slots = job_slots;
        job_slots = 0;
    }
}

```



```

/* If we're not using parallel jobs, then we don't need output sync.
   This is so people can enable output sync in GNUMAKEFLAGS or similar, but
   not have it take effect unless parallel builds are enabled. */
if (syncing && job_slots == 1)
{
    OUTPUT_UNSET ();
    output_close (&make_sync);
    syncing = 0;
    output_sync = OUTPUT_SYNC_NONE;
}

#ifndef MAKE_SYMLINKS
if (check_symlink_flag)
{
    O (error, NILF, _("Symbolic links not supported: disabling -L."));
    check_symlink_flag = 0;
}
#endif

/* Set up MAKEFLAGS and MFLAGS again, so they will be right. */

define_makeflags (1, 0);

/* Make each 'struct goaldep' point at the 'struct file' for the file
   depended on. Also do magic for special targets. */

snap_deps ();

/* Convert old-style
   suffix rules to pattern rules. It is important to
   do this before installing the built-in pattern rules below, so that
   makefile-specified suffix rules take precedence over built-in pattern
   rules. */

convert_to_pattern ();

/* Install the default implicit pattern rules.
   This used to be done before reading the makefiles.
   But in that case, built-in pattern rules were in the chain
   before user-defined ones, so they matched first. */

install_default_implicit_rules ();

/* Compute implicit rule limits. */

count_implicit_rule_limits ();

```

```

/* Construct the listings of directories in VPATH lists. */

build_vpath_lists ();

/* Mark files given with -o flags as very old and as having been updated
   already, and files given with -W flags as brand new (time-stamp as far
   as possible into the future). If restarts is set we'll do -W later. */

if (old_files != 0)
{
  const char **p;
  for (p
= old_files->list; *p != 0; ++p)
  {
    struct file *f = enter_file (*p);
    f->last_mtime = f->mtime_before_update = OLD_MTIME;
    f->updated = 1;
    f->update_status = us_success;
    f->command_state = cs_finished;
  }
}

if (!restarts && new_files != 0)
{
  const char **p;
  for (p = new_files->list; *p != 0; ++p)
  {
    struct file *f = enter_file (*p);
    f->last_mtime = f->mtime_before_update = NEW_MTIME;
  }
}

/* Initialize the remote job module. */
remote_setup ();

/* Dump any output we've collected. */

OUTPUT_UNSET ();
output_close (&make_sync);

if (read_files != 0)
{
  /* Update any makefiles if necessary. */

  FILE_TIMESTAMP *makefile_mtimes = 0;
  unsigned int mm_idx = 0;
  char **argv = NULL;
  const char **nargv;

```

```

int nargc;
enum update_status status;

DB (DB_BASIC, _("Updating
makefiles....\n"));

/* Remove any makefiles we don't want to try to update.
   Also record the current modtimes so we can compare them later. */
{
register struct goaldep *d, *last;
last = 0;
d = read_files;
while (d != 0)
{
struct file *f = d->file;
if (f->double_colon)
for (f = f->double_colon; f != NULL; f = f->prev)
{
if (f->deps == 0 && f->cmds != 0)
{
/* This makefile is a :: target with commands, but
   no dependencies. So, it will always be remade.
   This might well cause an infinite loop, so don't
   try to remake it. (This will only happen if
   your makefiles are written exceptionally
   stupidly; but if you work for Athena, that's how
   you write
your makefiles.) */

DB (DB_VERBOSE,
    _("Makefile '%s' might loop; not remaking it.\n"),
    f->name));

if (last == 0)
read_files = d->next;
else
last->next = d->next;

/* Free the storage. */
free_goaldep (d);

d = last == 0 ? read_files : last->next;

break;
}
}
}

if (f == NULL || !f->double_colon)

```

```

    {
        makefile_mtimes = xrealloc (makefile_mtimes,
                                    (mm_idx+1)
                                    * sizeof (FILE_TIMESTAMP));
        makefile_mtimes[mm_idx++] = file_mtime_no_search (d->file);
        last = d;
        d = d->next;
    }
}
}

/* Set up 'MAKEFLAGS' specially while remaking makefiles. */
define_makeflags (1, 1);

{
    int orig_db_level = db_level;

    if (! ISDB (DB_MAKEFILES))
        db_level = DB_NONE;

    rebuilding_makefiles = 1;
    status = update_goal_chain (read_files);
    rebuilding_makefiles = 0;

    db_level = orig_db_level;
}

switch (status)
{
    case us_question:
        /* The only way this can happen is if the user specified -q and asked
           for one of the makefiles to be remade as a target on the command
           line. Since we're not actually updating anything with -q we can
           treat this as "did nothing". */

    case us_none:
        /* Did nothing. */
        break;

    case us_failed:
        /* Failed to update. Figure out if we care. */
        {
            /* Nonzero if any makefile was successfully remade. */

        }

    case us_remade:
        int any_remade = 0;
        /* Nonzero if any makefile we care about failed
           in updating or could not be found at all. */
        int any_failed = 0;

```

```

unsigned int i;
struct goaldep *d;

for (i = 0, d = read_files; d != 0; ++i, d = d->next)
{
    if (d->file->updated)
    {
        /* This makefile was updated. */
        if (d->file->update_status == us_success)
        {
            /* It was successfully updated. */
            any_remade |= (file_mtime_no_search (d->file)
                != makefile_mtimes[i]);
        }
        else if (!(d->flags & RM_DONTCARE))
        {
            FILE_TIMESTAMP mtime;
            /* The update failed and this makefile was not
            from the MAKEFILES variable,
so we care. */
            OS (error, NILF, _("Failed to remake makefile '%s'."),
                d->file->name);
            mtime = file_mtime_no_search (d->file);
            any_remade |= (mtime != NONEXISTENT_MTIME
                && mtime != makefile_mtimes[i]);
            makefile_status = MAKE_FAILURE;
        }
    }
    else
        /* This makefile was not found at all. */
        if (!(d->flags & RM_DONTCARE))
        {
            const char *dnm = dep_name (d);
            size_t l = strlen (dnm);

            /* This is a makefile we care about. See how much. */
            if (d->flags & RM_INCLUDED)
                /* An included makefile. We don't need to die, but we
                do want to complain. */

            error (NILF, l,
                _("Included makefile '%s' was not found."), dnm);
            else
            {
                /* A normal makefile. We must die later. */
                error (NILF, l,
                    _("Makefile '%s' was not found"), dnm);
                any_failed = 1;
            }
        }
    }
}

```

```

        }
    }
}
/* Reset this to empty so we get the right error message below. */
read_files = 0;

if (any_remade)
    goto re_exec;
if (any_failed)
    die (MAKE_FAILURE);
break;
}

case us_success:
re_exec:
/* Updated successfully. Re-exec ourselves. */

remove_intermediates (0);

if (print_data_base_flag)
    print_data_base ();

clean_jobserver (0);

if (makefiles
!= 0)
{
/* These names might have changed. */
int i, j = 0;
for (i = 1; i < argc; ++i)
    if (strneq (argv[i], "-f", 2)) /* XXX */
    {
        if (argv[i][2] == '\0')
            /* This cast is OK since we never modify argv. */
            argv[++i] = (char *) makefiles->list[j];
        else
            argv[i] = xstrdup (concat (2, "-f", makefiles->list[j]));
        ++j;
    }
}

/* Add -o option for the stdin temporary file, if necessary. */
nargc = argc;
if (stdin_nm)
{
    void *m = xmalloc ((nargc + 2) * sizeof (char *));
    aargv = m;
    memcpy (aargv, argv, argc * sizeof (char *));

```

```

    aargv[nargc++] = xstrdup (concat (2, "-o", stdin_nm));
    aargv[nargc] = 0;
    nargv
= m;
    }
else
    nargv = (const char**)argv;

if (directories != 0 && directories->idx > 0)
{
    int bad = 1;
    if (directory_before_chdir != 0)
    {
        if (chdir (directory_before_chdir) < 0)
            perror_with_name ("chdir", "");
        else
            bad = 0;
    }
    if (bad)
        O (fatal, NILF,
            _("Couldn't change back to original directory."));
}

++restarts;

if (ISDB (DB_BASIC))
{
    const char **p;
    printf (_("Re-executing[%u]:"), restarts);
    for (p = nargv; *p != 0; ++p)
        printf (" %s", *p);
    putchar ('\n');
    fflush (stdout);
}

#ifdef _AMIGA
{
    char **p;
    for (p = environ; *p != 0; ++p)
    {
        if (strneq (*p, MAKELEVEL_NAME "=", MAKELEVEL_LENGTH+1))
        {
            *p = alloca (40);
            sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
#ifdef VMS
            vms_putenv_symbol (*p);
#endif
        }
    }
}

```

```

else if (strneq (*p, "MAKE_RESTARTS=", CSTRLEN ("MAKE_RESTARTS=")))
{
    *p = alloca (40);
    sprintf (*p, "MAKE_RESTARTS=%s%u",
        OUTPUT_IS_TRACED () ? "-" : "", restarts);
    restarts = 0;
}
}
}
#else /* AMIGA */
{
    char buffer[256];

    sprintf (buffer, "%u", makelevel);
    SetVar (MAKELEVEL_NAME, buffer, -1, GVF_GLOBAL_ONLY);

    sprintf (buffer, "%s%u", OUTPUT_IS_TRACED () ? "-" : "", restarts);
    SetVar ("MAKE_RESTARTS", buffer, -1, GVF_GLOBAL_ONLY);
    restarts = 0;
}
#endif

/* If we didn't set the restarts variable yet, add it. */
if (restarts)
{
    char *b = alloca (40);
    sprintf (b, "MAKE_RESTARTS=%s%u",
        OUTPUT_IS_TRACED () ? "-" : "", restarts);
    putenv (b);
}

fflush (stdout);
fflush (stderr);

#ifdef _AMIGA
    exec_command (nargv);
    exit (0);
#elif defined (__EMX__)
{
    /* It is not possible to use execve() here because this
       would cause the parent process to be terminated with
       exit code 0 before the child process has been terminated.
       Therefore it may be the best solution simply to spawn the
       child process including all file handles and to wait for its
       termination. */
    int pid;
    int r;
    pid = child_execute_job (NULL,

```



```

1, nargv, environ);

    /* is this loop really necessary? */
    do {
        pid = wait (&r);
    } while (pid <= 0);
    /* use the exit code of the child process */
    exit (WIFEXITED(r) ? WEXITSTATUS(r) : EXIT_FAILURE);
}
#else
#ifdef SET_STACK_SIZE
    /* Reset limits, if necessary. */
    if (stack_limit.rlim_cur)
        setrlimit (RLIMIT_STACK, &stack_limit);
#endif
    exec_command ((char **)nargv, environ);
#endif
    free (aargv);
    break;
}

/* Free the makefile mtimes. */
free (makefile_mtimes);
}

/* Set up 'MAKEFLAGS' again for the normal targets. */
define_makeflags (1, 0);

/* Set always_make_flag if -B was given. */
always_make_flag = always_make_set;

/* If restarts is set we haven't set up -W files yet, so do that now. */
if (restarts && new_files != 0)
{
    const char **p;
    for (p
= new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}

/* If there is a temp file from reading a makefile from stdin, get rid of
it now. */
if (stdin_nm && unlink (stdin_nm) < 0 && errno != ENOENT)
    perror_with_name (_("unlink (temporary file): "), stdin_nm);

```

```

/* If there were no command-line goals, use the default. */
if (goals == 0)
{
    char *p;

    if (default_goal_var->recursive)
        p = variable_expand (default_goal_var->value);
    else
    {
        p = variable_buffer_output (variable_buffer, default_goal_var->value,
                                   strlen (default_goal_var->value));

        *p = '\0';
        p = variable_buffer;
    }

    if (*p != '\0')
    {
        struct file *f = lookup_file (p);

        /* If .DEFAULT_GOAL is a non-existent target, enter it into the
           table and let the standard logic sort it out. */
        if (f == 0)
        {
            struct nameseq *ns;

            ns = PARSE_SIMPLE_SEQ (&p, struct nameseq);
            if (ns)
            {
                /* .DEFAULT_GOAL should contain one target. */
                if (ns->next != 0)
                    O (fatal, NILF,
                      _(".DEFAULT_GOAL contains more than one target"));

                f = enter_file (strcache_add (ns->name));

                ns->name = 0; /* It was reused by enter_file(). */
                free_ns_chain (ns);
            }
        }

        if (f)
        {
            goals = alloc_goaldep ();
            goals->file = f;
        }
    }
}
else

```

```

lastgoal->next = 0;

if (!goals)
{
    if (read_files == 0)
        O (fatal, NILF, _("No targets specified and no makefile found"));

    O (fatal, NILF, _("No targets"));
}

/* Update the goals. */

DB (DB_BASIC, (_("Updating goal targets....\n")));

{
    switch (update_goal_chain (goals))
    {
        case us_none:
            /* Nothing happened. */
            /* FALLTHROUGH */
        case us_success:
            /* Keep the previous result. */
            break;
        case us_question:
            /* We are under -q and would run some commands. */
            makefile_status = MAKE_TROUBLE;
            break;
        case us_failed:
            /* Updating failed. POSIX.2 specifies exit status >1 for this; */
            makefile_status = MAKE_FAILURE;
            break;
    }

    /* If we detected some clock skew, generate one last warning */
    if (clock_skew_detected)
        O (error, NILF,
            _("warning: Clock skew detected. Your build may be incomplete.));

    /* Exit. */
    die (makefile_status);
}

/* NOTREACHED */
exit (MAKE_SUCCESS);
}

/* Parsing of arguments, decoding of switches. */

```

```

static char
options[1 + sizeof (switches) / sizeof (switches[0]) * 3];
static struct option long_options[(sizeof (switches) / sizeof (switches[0])) +
    (sizeof (long_option_aliases) /
    sizeof (long_option_aliases[0]))];

/* Fill in the string and vector for getopt. */
static void
init_switches (void)
{
    char *p;
    unsigned int c;
    unsigned int i;

    if (options[0] != '\0')
        /* Already done. */
        return;

    p = options;

    /* Return switch and non-switch args in order, regardless of
       POSIXLY_CORRECT. Non-switch args are returned as option 1. */
    *p++ = '-';

    for (i = 0; switches[i].c != '\0'; ++i)
    {
        long_options[i].name = (switches[i].long_name == 0 ? "" :
            switches[i].long_name);
        long_options[i].flag = 0;
        long_options[i].val = switches[i].c;
        if (short_option (switches[i].c))
            *p++ = switches[i].c;
        switch (switches[i].type)
        {
            case flag:
            case flag_off:
            case ignore:
                long_options[i].has_arg = no_argument;
                break;

            case string:
            case strlist:
            case filename:
            case positive_int:
            case floating:
                if (short_option (switches[i].c))
                    *p++ = '-';
        }
    }
}

```

```

    if (switches[i].noarg_value != 0)
    {
        if (short_option (switches[i].c))
            *p++ = ':';
        long_options[i].has_arg = optional_argument;
    }
    else
        long_options[i].has_arg = required_argument;
    break;
}
}
*p = '\0';
for (c = 0; c < (sizeof (long_option_aliases) /
    sizeof (long_option_aliases[0]));
    ++c)
    long_options[i++] = long_option_aliases[c];
long_options[i].name = 0;
}

/* Non-option argument. It might be a variable definition. */
static void
handle_non_switch_argument (const
char *arg, int env)
{
    struct variable *v;

    if (arg[0] == '-' && arg[1] == '\0')
        /* Ignore plain '-' for compatibility. */
        return;

#ifdef VMS
    {
        /* VMS DCL quoting can result in foo="bar baz" showing up here.
        Need to remove the double quotes from the value. */
        char *eq_ptr;
        char *new_arg;
        eq_ptr = strchr (arg, '=');
        if ((eq_ptr != NULL) && (eq_ptr[1] == '"'))
            {
                int len;
                int seg1;
                int seg2;
                len = strlen(arg);
                new_arg = alloca(len);
                seg1 = eq_ptr - arg + 1;
                strncpy(new_arg, arg, (seg1));
                seg2 = len - seg1 - 1;
            }
        }
#endif
}

```

```

    strncpy(&new_arg[seg1], &eq_ptr[2], seg2);
    new_arg[seg1 + seg2] = 0;
    if (new_arg[seg1 + seg2 - 1] == '"')
        new_arg[seg1 + seg2 - 1] = 0;
    arg = new_arg;
}
}
#endif
v = try_variable_definition (0, arg, o_command, 0);
if (v != 0)
{
    /* It is indeed a variable definition.
    If we don't already have this
    one, record a pointer to the variable for later use in
    define_makeflags. */
    struct command_variable *cv;

    for (cv = command_variables; cv != 0; cv = cv->next)
        if (cv->variable == v)
            break;

    if (! cv)
    {
        cv = xmalloc (sizeof (*cv));
        cv->variable = v;
        cv->next = command_variables;
        command_variables = cv;
    }
}
else if (! env)
{
    /* Not an option or variable definition; it must be a goal
    target! Enter it as a file and add it to the dep chain of
    goals. */
    struct file *f = enter_file (strcache_add (expand_command_line_file (arg)));
    f->cmd_target = 1;

    if (goals == 0)
    {
        goals = alloc_goaldep ();
        lastgoal = goals;
    }
    else
    {
        lastgoal->next = alloc_goaldep ();
        lastgoal = lastgoal->next;
    }
}

```

```

lastgoal->file = f;

{
/* Add this target name to the MAKECMDGOALS variable. */
struct variable *gv;
const char *value;

gv = lookup_variable (STRING_SIZE_TUPLE ("MAKECMDGOALS"));
if (gv == 0)
    value = f->name;
else
    {
/* Paste the old and new values together */
unsigned int oldlen, newlen;
char *vp;

oldlen = strlen (gv->value);
newlen = strlen (f->name);
vp = alloca (oldlen + 1 + newlen + 1);
memcpy (vp, gv->value, oldlen);
vp[oldlen] = ' ';
memcpy (&vp[oldlen + 1], f->name, newlen + 1);
value = vp;
    }
define_variable_cname ("MAKECMDGOALS", value, o_default, 0);
}
}
}

/* Print a nice usage method. */

static void
print_usage (int bad)
{
const char *const *cpp;
FILE *usageto;

if (print_version_flag)
    print_version
();

usageto = bad ? stderr : stdout;

fprintf (usageto, _("Usage: %s [options] [target] ...\n"), program);

for (cpp = usage; *cpp; ++cpp)
    fputs (_(*cpp), usageto);

```

```

if (!remote_description || *remote_description == '\0')
    fprintf (usageto, _("\nThis program built for %s\n"), make_host);
else
    fprintf (usageto, _("\nThis program built for %s (%s)\n"),
            make_host, remote_description);

fprintf (usageto, _("Report bugs to <bug-make@gnu.org>\n"));
}

/* Decode switches from ARGV and ARGV.
   They came from the environment if ENV is nonzero. */

static void
decode_switches (int argc, const char **argv, int env)
{
    int bad = 0;
    register const struct command_switch *cs;
    register struct stringlist *sl;
    register int c;

    /* getopt does most of the parsing for us.
       First, get its vectors set up. */

    init_switches ();

    /* Let getopt produce error messages for the command line,
       but not for options from
       the environment. */
    opterr = !env;
    /* Reset getopt's state. */
    optind = 0;

    while (optind < argc)
    {
        const char *coptarg;

        /* Parse the next argument. */
        c = getopt_long (argc, (char*const*)argv, options, long_options, NULL);
        coptarg = optarg;
        if (c == EOF)
            /* End of arguments, or "--" marker seen. */
            break;
        else if (c == 1)
            /* An argument not starting with a dash. */
            handle_non_switch_argument (coptarg, env);
        else if (c == '?')
            /* Bad option. We will print a usage message and die later.
               But continue to parse the other options so the user can

```



```

    see all he did wrong. */
    bad = 1;
else
    for (cs = switches; cs->c != '\0'; ++cs)
        if (cs->c == c)
            {
                /* Whether or not we will actually do anything with
                   this switch. We test this individually inside the
                   switch
below rather than just once outside it, so that
                   options which are to be ignored still consume args. */
                int doit = !env || cs->env;

                switch (cs->type)
                    {
                        default:
                            abort ();

                        case ignore:
                            break;

                        case flag:
                        case flag_off:
                            if (doit)
                                *(int *) cs->value_ptr = cs->type == flag;
                            break;

                        case string:
                        case strlist:
                        case filename:
                            if (!doit)
                                break;

                        if (!coptarg)
                            coptarg = xstrdup (cs->noarg_value);
                        else if (*coptarg == '\0')
                            {
                                char opt[2] = "c";
                                const char *op = opt;

                                if (short_option (cs->c))
                                    opt[0]
= cs->c;
                                else
                                    op = cs->long_name;

                                error (NILF, strlen (op),
                                    _("the '%s%s' option requires a non-empty string argument"),

```

```

        short_option (cs->c) ? "-" : "--", op);
    bad = 1;
    break;
}

if (cs->type == string)
{
    char **val = (char **)cs->value_ptr;
    free (*val);
    *val = xstrdup (coptarg);
    break;
}

sl = *(struct stringlist **) cs->value_ptr;
if (sl == 0)
{
    sl = xmalloc (sizeof (struct stringlist));
    sl->max = 5;
    sl->idx = 0;
    sl->list = xmalloc (5 * sizeof (char *));
    *(struct
stringlist **) cs->value_ptr = sl;
}
else if (sl->idx == sl->max - 1)
{
    sl->max += 5;
    /* MSVC erroneously warns without a cast here. */
    sl->list = xrealloc ((void *)sl->list,
        sl->max * sizeof (char *));
}
if (cs->type == filename)
    sl->list[sl->idx++] = expand_command_line_file (coptarg);
else
    sl->list[sl->idx++] = xstrdup (coptarg);
sl->list[sl->idx] = 0;
break;

case positive_int:
    /* See if we have an option argument; if we do require that
    it's all digits, not something like "10foo". */
    if (coptarg == 0 && argc > optind)
    {
        const char *cp;

        for (cp=argv[optind]; ISDIGIT (cp[0]); ++cp)
            ;
        if (cp[0] == '\0')
            coptarg = argv[optind++];
    }
}

```

```

    }

    if (!doit)
        break;

    if (coptarg)
    {
        int i = atoi (coptarg);
        const char *cp;

        /* Yes, I realize we're repeating this in some cases. */
        for (cp = coptarg; ISDIGIT (cp[0]); ++cp)
            ;

        if (i < 1 || cp[0] != '0')
        {
            error (NILF, 0,
                _("the '-%c' option requires a positive integer argument"),
                cs->c);
            bad = 1;
        }
        else
            *(unsigned int *) cs->value_ptr = i;
    }

    else
        *(unsigned int *) cs->value_ptr
            = *(unsigned int *) cs->noarg_value;
    break;

#ifdef NO_FLOAT
    case floating:
        if (coptarg == 0 && optind < argc
            && (ISDIGIT (argv[optind][0]) || argv[optind][0] == '.'))
            coptarg = argv[optind++];

        if (doit)
            *(double *) cs->value_ptr
                = (coptarg != 0 ? atof (coptarg)
                    : *(double *) cs->noarg_value);

        break;
#endif
}

/* We've found the switch. Stop looking. */
break;
}

```

```

}

/* There are no more options according to getting getopt, but there may
   be some arguments left. Since we have asked for non-option arguments
   to be returned in order, this only happens when there is a "--"
   argument to prevent
   later arguments from being options. */
while (optind < argc)
    handle_non_switch_argument (argv[optind++], env);

if (!env && (bad || print_usage_flag))
    {
        print_usage (bad);
        die (bad ? MAKE_FAILURE : MAKE_SUCCESS);
    }

/* If there are any options that need to be decoded do it now. */
decode_debug_flags ();
decode_output_sync_flags ();
}

/* Decode switches from environment variable ENVAR (which is LEN chars long).
   We do this by chopping the value into a vector of words, prepending a
   dash to the first word if it lacks one, and passing the vector to
   decode_switches. */

static void
decode_env_switches (const char *envar, unsigned int len)
{
    char *varref = alloca (2 + len + 2);
    char *value, *p, *buf;
    int argc;
    const char **argv;

    /* Get the variable's value. */
    varref[0] = '$';
    varref[1] = '(';
    memcpy (&varref[2], envar, len);
    varref[2 + len] = ')';
    varref[2 + len + 1] = '\0';
    value =
    variable_expand (varref);

    /* Skip whitespace, and check for an empty value. */
    NEXT_TOKEN (value);
    len = strlen (value);
    if (len == 0)
        return;

```

```

/* Allocate a vector that is definitely big enough. */
argv = alloca ((1 + len + 1) * sizeof (char *));

/* getopt will look at the arguments starting at ARGV[1].
   Prepend a spacer word. */
argv[0] = 0;
argc = 1;

/* We need a buffer to copy the value into while we split it into words
   and unquote it. Set up in case we need to prepend a dash later. */
buf = alloca (1 + len + 1);
buf[0] = '-';
p = buf+1;
argv[argc] = p;
while (*value != '\0')
{
  if (*value == '\\' && value[1] != '\0')
    ++value;          /* Skip the backslash. */
  else if (ISBLANK (*value))
    {
      /* End of the word. */
      *p++ = '\0';
      argv[++argc] = p;
      do
        ++value;
      while (ISBLANK (*value));
      continue;
    }
  *p++ = *value++;
}
*p = '\0';
argv[++argc] = 0;
assert (p < buf + len + 2);

if (argv[1][0] != '-' && strchr (argv[1], '=') == 0)
  /* The first word doesn't start with a dash and isn't a variable
     definition, so add a dash. */
  argv[1] = buf;

/* Parse those words. */
decode_switches (argc, argv, 1);
}

/* Quote the string IN so that it will be interpreted as a single word with
   no magic by decode_env_switches; also double dollar signs to avoid
   variable expansion in make itself. Write the result into OUT, returning
   the address of the next character to be written.

```

Allocating space for OUT twice the length of IN is always sufficient. \*/

```
static char *
quote_for_env (char *out, const char *in)
{
    while (*in != '\0')
    {
        if (*in == '$')
            *out++ = '$';
        else if (ISBLANK (*in) || *in == '\\')
            *out++ = '\\';
        *out++ = *in++;
    }

    return out;
}

/* Define the
MAKEFLAGS and MFLAGS variables to reflect the settings of the
command switches. Include options with args if ALL is nonzero.
Don't include options with the 'no_makefile' flag set if MAKEFILE. */
```

```
static struct variable *
define_makeflags (int all, int makefile)
{
    const char ref[] = "${MAKEOVERRIDES}";
    const char posixref[] = "$(*-command-variables-*)";
    const char evalref[] = "$(*-eval-flags-*)";
    const struct command_switch *cs;
    char *flagstring;
    char *p;

    /* We will construct a linked list of 'struct flag's describing
    all the flags which need to go in MAKEFLAGS. Then, once we
    know how many there are and their lengths, we can put them all
    together in a string. */
```

```
struct flag
{
    struct flag *next;
    const struct command_switch *cs;
    const char *arg;
};
struct flag *flags = 0;
struct flag *last = 0;
unsigned int flagslen = 0;
#define ADD_FLAG(ARG, LEN) \
do {
```

```

struct flag *new = alloca (sizeof (struct flag));
new->cs = cs;
new->arg = (ARG);
new->next = 0;
if (! flags)
    flags = new;
else
    last->next = new;
last = new;
if (new->arg == 0)
    /* Just a single flag letter: "-x" */
    flagslen += 3;
else
    /* "-xfoo", plus space to escape "foo". */
    flagslen += 1 + 1 + 1 + (3 * (LEN));
if (!short_option (cs->c))
    /* This switch has no single-letter version, so we use the long. */
    flagslen += 2 + strlen (cs->long_name);
} while (0)

```

```

for (cs = switches; cs->c != '\0'; ++cs)
if (cs->toenv && (!makefile || !cs->no_makefile))
switch (cs->type)
{
case ignore:
    break;

case flag:
case flag_off:
    if (((!(int *) cs->value_ptr) == (cs->type == flag_off)
        && (cs->default_value == 0
            || *(int *) cs->value_ptr != *(int *) cs->default_value))
        ADD_FLAG (0, 0);
    break;

case positive_int:
    if (all)
    {
        if ((cs->default_value != 0
            && *(unsigned int *) cs->value_ptr
            == *(unsigned int *) cs->default_value))
            break;
        else if (cs->noarg_value != 0
            && *(unsigned int *) cs->value_ptr ==
            *(unsigned int *) cs->noarg_value)
            ADD_FLAG ("", 0); /* Optional value omitted; see below. */
    }
}

```

```

else
{
char *buf = alloca (30);
sprintf (buf, "%u", *(unsigned int *) cs->value_ptr);
ADD_FLAG (buf, strlen (buf));
}
}
break;

#ifdef NO_FLOAT
case floating:
if (all)
{
if (cs->default_value != 0
&& (*(double *) cs->value_ptr
== *(double *) cs->default_value))
break;

else if (cs->noarg_value != 0
&& (*(double *) cs->value_ptr
== *(double *) cs->noarg_value))
ADD_FLAG ("", 0); /* Optional value omitted; see below. */
else
{
char *buf = alloca (100);
sprintf (buf, "%g", *(double *) cs->value_ptr);
ADD_FLAG (buf, strlen (buf));
}
}
break;
#endif

case string:
if (all)
{
p = *((char **)cs->value_ptr);
if (p)
ADD_FLAG (p, strlen (p));
}
break;

case filename:
case strlist:
if (all)
{
struct stringlist *sl = *(struct stringlist **) cs->value_ptr;
if (sl != 0)
{

```



```

        unsigned int i;
        for (i = 0; i < sl->idx; ++i)

            ADD_FLAG (sl->list[i], strlen (sl->list[i]));
        }
    }
    break;

    default:
        abort ();
    }

#undef ADD_FLAG

/* Four more for the possible "--", plus variable references. */
flagslen += 4 + CSTRLEN (posixref) + 1 + CSTRLEN (evalref) + 1;

/* Construct the value in FLAGSTRING.
   We allocate enough space for a preceding dash and trailing null. */
flagstring = alloca (1 + flagslen + 1);
memset (flagstring, '\0', 1 + flagslen + 1);
p = flagstring;

/* Start with a dash, for MFLAGS. */
*p++ = '-';

/* Add simple options as a group. */
while (flags != 0 && !flags->arg && short_option (flags->cs->c))
{
    *p++ = flags->cs->c;
    flags = flags->next;
}

/* Now add more complex flags: ones with options and/or long names. */
while (flags)
{
    *p++ = '-';
    *p++ = '-';

    /* Add the flag letter or name to the string. */
    if (short_option
(flags->cs->c))
        *p++ = flags->cs->c;
    else
    {
        /* Long options require a double-dash. */
        *p++ = '-';
        strcpy (p, flags->cs->long_name);
    }
}

```

```

    p += strlen (p);
}
/* An omitted optional argument has an ARG of "". */
if (flags->arg && flags->arg[0] != '\0')
{
    if (!short_option (flags->cs->c))
        /* Long options require '='. */
        *p++ = '=';
    p = quote_for_env (p, flags->arg);
}
flags = flags->next;
}

/* If no flags at all, get rid of the initial dash. */
if (p == &flagstring[1])
{
    flagstring[0] = '\0';
    p = flagstring;
}

/* Define MFLAGS before appending variable definitions. Omit an initial
   empty dash. Since MFLAGS is not parsed for flags, there is no reason to
   override any makefile redefinition. */
define_variable_cname ("MFLAGS",
                      flagstring + (flagstring[0]
                                     == '-' && flagstring[1] == '?' ? 2 : 0),
                      o_env, 1);

/* Write a reference to -*eval-flags-*, which contains all the --eval
   flag options. */
if (eval_strings)
{
    *p++ = ' ';
    memcpy (p, evalref, CSTRLEN (evalref));
    p += CSTRLEN (evalref);
}

if (all && command_variables)
{
    /* Write a reference to $(MAKEOVERRIDES), which contains all the
       command-line variable definitions. Separate the variables from the
       switches with a "--" arg. */

    strcpy (p, "-- ");
    p += 4;

    /* Copy in the string. */
    if (posix_pedantic)

```

```

    {
        memcpy (p, posixref, CSTRLEN (posixref));
        p += CSTRLEN (posixref);
    }
else
    {
        memcpy (p, ref, CSTRLEN (ref));
        p += CSTRLEN (ref);
    }
}

/* If there is a leading dash, omit it. */
if (flagstring[0] == '-')
    ++flagstring;

/* This used
to use o_env, but that lost when a makefile defined MAKEFLAGS.
Makefiles set MAKEFLAGS to add switches, but we still want to redefine
its value with the full set of switches. Then we used o_file, but that
lost when users added -e, causing a previous MAKEFLAGS env. var. to take
precedence over the new one. Of course, an override or command
definition will still take precedence. */
return define_variable_cname ("MAKEFLAGS", flagstring,
                             env_overrides ? o_env_override : o_file, 1);
}

/* Print version information. */

static void
print_version (void)
{
    static int printed_version = 0;

    const char *precede = print_data_base_flag ? "# " : "";

    if (printed_version)
        /* Do it only once. */
        return;

    printf ("%sGNU Make %s\n", precede, version_string);

    if (!remote_description || *remote_description == '\0')
        printf (_("%sBuilt for %s\n"), precede, make_host);
    else
        printf (_("%sBuilt
for %s (%s)\n"),
                precede, make_host, remote_description);
}

```

```

/* Print this untranslated. The coding standards recommend translating the
(C) to the copyright symbol, but this string is going to change every
year, and none of the rest of it should be translated (including the
word "Copyright"), so it hardly seems worth it. */

printf ("%sCopyright (C) 1988-2016 Free Software Foundation, Inc.\n",
precede);

printf (_("%sLicense GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>\n\
%sThis is free software: you are free to change and redistribute it.\n\
%sThere is NO WARRANTY, to the extent permitted by law.\n"),
precede, precede, precede);

printed_version = 1;

/* Flush stdout so the user doesn't have to wait to see the
version information while make thinks about things. */
fflush (stdout);
}

/* Print a bunch of information about this and that. */

static void
print_data_base
(void)
{
time_t when = time ((time_t *) 0);

print_version ();

printf (_("\n# Make data base, printed on %s"), ctime (&when));

print_variable_data_base ();
print_dir_data_base ();
print_rule_data_base ();
print_file_data_base ();
print_vpath_data_base ();
strcache_print_stats ("#");

when = time ((time_t *) 0);
printf (_("\n# Finished Make data base on %s\n"), ctime (&when));
}

static void
clean_jobserver (int status)
{
/* Sanity: have we written all our jobserver tokens back? If our
exit status is 2 that means some kind of syntax error; we might not

```

have written all our tokens so do that now. If tokens are left  
after any other error code, that's bad. \*/

```
if (jobserver_enabled() && jobserver_tokens)
{
    if (status != 2)
        ON (error, NILF,
            "INTERNAL: Exiting with %u jobserver tokens (should be 0)",
            jobserver_tokens);
    else
        /* Don't write back the "free"
token */
        while (--jobserver_tokens)
            jobserver_release (0);
}
```

/\* Sanity: If we're the master, were all the tokens written back? \*/

```
if (master_job_slots)
{
    /* We didn't write one for ourself, so start at 1. */
    unsigned int tokens = 1 + jobserver_acquire_all ();

    if (tokens != master_job_slots)
        ONN (error, NILF,
            "INTERNAL: Exiting with %u jobserver tokens available; should be %u!",
            tokens, master_job_slots);

    reset_jobserver ();
}
}
```

/\* Exit with STATUS, cleaning up as necessary. \*/

```
void
die (int status)
{
    static char dying = 0;

    if (!dying)
    {
        int err;

        dying = 1;

        if (print_version_flag)
            print_version ();
    }
}
```

```

/* Wait for children to die. */
err = (status != 0);
while (job_slots_used > 0)
    reap_children (1, err);

/* Let the remote job module clean up its state. */
remote_cleanup
);

/* Remove the intermediate files. */
remove_intermediates (0);

if (print_data_base_flag)
    print_data_base ();

if (verify_flag)
    verify_file_data_base ();

clean_jobserver (status);

if (output_context)
{
    /* die() might be called in a recipe output context due to an
    $(error ...) function. */
    output_close (output_context);

    if (output_context != &make_sync)
        output_close (&make_sync);

    OUTPUT_UNSET ();
}

output_close (NULL);

/* Try to move back to the original directory. This is essential on
MS-DOS (where there is really only one process), and on Unix it
puts core files in the original directory instead of the -C
directory. Must wait until after remove_intermediates(), or unlinks
of relative pathnames fail. */
if (directory_before_chdir != 0)
{
    /* If it fails we don't care: shut up GCC. */
    int _x UNUSED;
    _x = chdir (directory_before_chdir);
}
}

```

```
exit (status);
```

```
}
```

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# 1.348 libcgroup 0.41-r0

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## 1.349 docker

**18.03.0+git708b068d3095c6a6be939eb2da78c921d2e945e2-r0**

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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## 1.350 selinux-gui 2.8-r0

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b) Use a suitable shared library mechanism for linking with the

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## 1.354 go-cli

1.1.0+git27ecc97192df1bf053a22b04463f2b51

b8b8373e-r0

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```

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## 1.356 libusb 1.0.22-r0

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## 1.359 go-dbus

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## 1.360 ntp 4.2.8p13-r0

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Version 3, 29 June 2007

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```
/* -*- Mode: Text -*- */
```

```
copyright = {  
  date = "1992-2017";  
  owner = "The University of Delaware and Network Time Foundation";  
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";  
  type = ntp;  
};
```

```
long-opts;  
config-header = config.h;  
environrc;  
no-misuse-usage;  
version-proc = ntpOptionPrintVersion;
```

```
version      = `  
eval VERSION=`sed -e 's/.*,\\[/' -e 's\\[.*/' < ../sntp/m4/version.m4`  
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid  
echo $VERSION`;
```

```
version-value = "; /* Don't use -v as a shortcut for --version */
```

```
/*
```

```
* HMS: man pages already have this, and texi pages can use the  
* values in sntp/include/version.texi .
```

```
*/
```

```
// doc-sub = {  
//   sub-name = version;  
//   sub-text = 's/#VERSION#/<<version>>/g';  
// };
```

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<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->

<link href="scripts/style.css" type="text/css" rel="stylesheet">

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<li><a href="mailto:%20jagubox.gsfc.nasa.gov">Jim Jagielski <jim@jagubox.gsfc.nasa.gov></a> A/UX port</li>  
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<li><a href="mailto:%20Hans.Lambermont@nl.origin-it.com">Hans Lambermont <Hans.Lambermont@nl.origin-it.com></a> or <a href="mailto:H.Lambermont@chello.nl">H.Lambermont@chello.nl</a> ntpswEEP</li>



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<li><a href="mailto:%20Ulrich.Windl@rz.uni-regensburg.de">Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de></a> corrected and validated HTML documents according to the HTML DTD</li>  
</ol>  
<hr>  
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</html>  
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  5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
  6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
  7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT  
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  8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
  9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver,  
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  10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete  
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- in sntp
11. [12]Jean-Francois Boudreault  
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  13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
  14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help  
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  15. [16]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference  
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  16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
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25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or  
[28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
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41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
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44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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  57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
  58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
  59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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## 1.361 Isof 4.91-r0

## 1.362 libuv 1.32.0-r0

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## 1.369 python3-certifi 2019.11.28-r0

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.370 Itrace 7.91+gitAUTOINC+c22d359433-r0

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```
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```

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```
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```
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```

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## 1.372 mtd-utils 2.1.1-r0

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```

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```

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# 1.373 grub 2.04-r0

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Version 3, 29 June 2007

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.376 python-pyasn1 0.4.7-r0

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ASN.1 library for Python

=====

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```

Abstract Syntax Notation One (`ASN.1`

`<http://en.wikipedia.org/wiki/Abstract\_Syntax\_Notation\_1x>`) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` `<https://pypi.org/project/pyasn1/>` library implements ASN.1 support in pure-Python.

What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the

first, unsuccessful, version of the Internet. You can read many interesting discussions <<https://news.ycombinator.com/item?id=8871453>> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol-buffers/>>`\_

or `FlatBuffers` <<https://google.github.io/flatbuffers/>>`, for example.

Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

#### ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

## Documentation

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```
.. toctree::  
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```

[/pyasn1/contents](#)

## Use case

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```
.. toctree::  
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```

[/example-use-case](#)

## Download & Install

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```
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[/download](#)

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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```

[/changelog](#)

## License

-----

The PyASN1 software is distributed under 2-clause BSD License.

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```

```
/license
```

Getting help

-----

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_`  
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub.  
Alternatively, you could ask for help at  
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_`  
or search  
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_`  
mailing list archive.

Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

- \* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`\_` by Olivier Dubuisson
- \* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`\_` by Prof John Larmouth

Here you can get the official standards which is hard to read:

- \* `ITU standards`  
<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`\_`

On the other end of the readability spectrum, here is a quick and sweet write up:

- \* `A Layman's Guide to a Subset of ASN.1, BER, and DER` <<http://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`\_` by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-
0.4.7/pyasn1/codec/cer/decoder.py
*
/opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-
0.4.7/pyasn1/type/univ.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-
0.4.7/tests/type/test_constraint.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-
0.4.7/pyasn1/type/constraint.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-
0.4.7/tests/codec/___main__.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-
0.4.7/tests/compat/___main__.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-
0.4.7/tests/type/test_opentype.py
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```

## ASN.1 library for Python

-----

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

## Features

-----

\*

- Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.4 up to Python 3.7
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)  
by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house',
            Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python
>>> record = Record()
>>> record['id'] = 123
```
```

```

>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
...

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode

```

```
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
    123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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\* /opt/ws\_local/PERMITS\_SQL/1084376474\_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-0.4.7/README.md

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# 1.377 picocom 3.1+gitAUTOINC+90385aabe2-r0

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The following people contributed improvements, fixes, suggestions, and comments:

- Oliver Kurth (oku@debian.org) contributed bug fixes and the manual page for picocm.
- Julius P. Malkiewicz (julius@sonartech.com.au) contributed FreeBSD portability fixes, the C-\ command implementation, the UUCP locks implementation, and other minor fixes.
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- Niels Moller (nisse@lysator.liu.se) contributed support for non-alphabetic escape keys.
- (lwithers@gmail.com) contributed fixes to select(2) and read(2) error handling.
- (bob.dunlop@xyzy.org.uk) suggested fix to prevent serial port from becoming controlling terminal.
- Edgar Johansen (edgar@storteig.com) suggested conditionals to enable compilation without UUCP\_LOCK\_DIR
- Scott Tsai (scott.tw@gmail.com) suggested better UUCP\_LOCK\_DIR definition
- Josh Handley (<https://github.com/jhandley>) added support for line-editing, autocompletion and



history when entering "send" and "receive" file names. Editing support uses the "linenoise" library. See: <https://github.com/jhandley/picocom>

- Salvatore Sanfilippo (<https://github.com/antirez>) is the author of the linenoise line-editing library. See: <https://github.com/antirez/linenoise>
- From Cody Schafer's (<https://github.com/jmesmon>) fork originated the idea to add custom baudrate support to picocom. See: <https://github.com/jmesmon/picocom>
- From Paul Chakravarti's (<https://github.com/paulchakravarti>) fork originated the idea to add support for disabling the send- and receive-file commands, and for not using the shell when executing external programs (to avoid shell escapes). See: <https://github.com/paulchakravarti/picocom-noexec>
- Vicente Olivert Riera (Vincent.Riera@imgtec.com) contributed minor patches
- Peter Bradstreet (peter.bradstreet@oracle.com) helped diagnose input performance problems on overloaded / slow systems.
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- Ben (<https://github.com/the-dem>) contributed backward compatibility fixes.

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```
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.
```

```
define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
```

br label %CF246

```
CF246:                                ; preds = %CF246, %BB
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248
```

```
CF248:                                ; preds = %CF248, %CF246
store i8 %S1163, i8* %0
br label %CF248
}
```

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\*/

; RUN: llc -march=hexagon < %s

; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types  
; cause LSR to assume type "void" for the memory type. This would then  
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8\*, i8, %union.anon.0 }

%union.anon.0 = type { i8\* }

define hidden fastcc void @fred() unnamed\_addr #0 {

entry:

br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry

br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph

%lsr.iv = phi %struct.0\* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]

switch i32 undef, label %exit [

i32 1, label %sw.bb.i

i32 2, label %sw.bb3.i

]

sw.bb.i: ; preds = %while.body

unreachable

sw.bb3.i: ; preds = %while.body

unreachable

exit:

; preds = %while.body

switch i32 undef, label %exit.2 [

```

    i32 1, label %sw.bb.i17
    i32 2, label %sw.bb3.i20
]

sw.bb.i17:                                ; preds = %exit
    %0 = bitcast %struct.0* %lshr.iv to i32*
    %1 = load i32, i32* %0, align 4
    unreachable

sw.bb3.i20:                                ; preds = %exit
    %2 = bitcast %struct.0* %lshr.iv to i8**
    %3 = load i8*, i8** %2, align 4
    unreachable

exit.2:                                    ; preds = %exit
    %cgep22 = getelementptr %struct.0, %struct.0* %lshr.iv, i32 1
    br label %while.body

while.end:                                  ; preds = %entry
    ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

```

```

; CHECK: ret
%flt = sitofp <16 x i32>
%in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0>
ret <16 x double> %res
}

```

; This one is small enough to satisfy isSimple, but still illegally large.

```
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
```

```
; CHECK-LABEL: test_sitofp_fixed_shortish:
```

```
; CHECK-DAG: scvtf.2d v0, v0
```

```
; CHECK-DAG: scvtf.2d v1, v1
```

```
; CHECK: ret
```

```
%flt = sitofp <4 x i64> %in to <4 x double>
```

```
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
```

```
ret <4 x double> %res
```

```
}
```

```
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ObjectContainerBSDArchive.cpp

LINK\_LIBS

lldbCore  
lldbHost  
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LINK\_COMPONENTS

Support

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 ; RUN: llc < %s -mtriple=x86\_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s  
 ;  
 ; D31946  
 ; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.  
 ; Additionally ensure that the output code actually put fp128 values in SSE registers.

```
declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK      movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}
```

```
define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
; CHECK-LABEL: TestFabs:
;
; CHECK      andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}
```

```
define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
; CHECK-LABEL: TestCopysign:
```

```

; CHECK    andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK    movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

```

# 1.380 opkg 0.4.1-r0

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

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To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is

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An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.



The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution

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```

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```
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```

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Version 3, 29 June 2007

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gevent/libuv/\_coreffi\_source.c  
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## 1.3+gitAUTOINC+c6934373c7-r0

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## 1.390 quota 4.05-r0

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## A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 3.0   | 2.6   | 2008      | PSF | yes |
| 3.0.1 | 3.0   | 2009      | PSF | yes |
| 3.1   | 3.0.1 | 2009      | PSF | yes |
| 3.1.1 | 3.1   | 2009      | PSF | yes |
| 3.1.2 | 3.1   | 2010      | PSF | yes |
| 3.2   | 3.1   | 2010      | PSF | yes |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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-- \$Id: COPYING,v 1.7 2019/01/05 23:51:47 tom Exp \$  
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## 1.393 nghttp2 1.39.2-r0

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```
set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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```

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# 1.406 pythonurllib 1.25.8-r0

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

\* victor.vde <<http://code.google.com/u/victor.vde/>>

\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

\* kennethreitz <me@kennethreitz.com>

\* Bugfixes, suggestions, Requests integration

\* georgemarshall <<https://github.com/georgemarshall>>

\* Bugfixes, Improvements and Test

coverage

\* Thomas Kluyver <thomas@kluyver.me.uk>

\* Python 3 support

- \* brandon-rhodes <<http://rhodesmill.org/brandon>>
  - \* Design review, bugfixes, test coverage.
  
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  - \* IPv6 url support and test coverage
  
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- \* hartator <[hartator@gmail.com](mailto:hartator@gmail.com)>
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  - \* Support for TLS SNI
  - \* API unification of ssl\_version/cert\_reqs
  - \* SSL fingerprint and alternative hostname verification
  - \* Bugfixes in testsuite
  
- \* Sune Kirkeby <[mig@ibofobi.dk](mailto:mig@ibofobi.dk)>
  - \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <[marc.schlaich@gmail.com](mailto:marc.schlaich@gmail.com)>
  - \* Various bugfixes and test improvements.
  
- \* Bryce Boe <[bbzbryce@gmail.com](mailto:bbzbryce@gmail.com)>
  - \* Correct six.moves conflict
  - \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <[boris.figovsky@ravellosystems.com](mailto:boris.figovsky@ravellosystems.com)>
  - \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield  
<<https://lukasa.co.uk/about/>>
  - \* Stream method for Response objects.
  - \* Return native strings in header values.
  - \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <[jaywink@basshero.org](mailto:jaywink@basshero.org)>
  - \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <[audrius.butkevicius@elastichosts.com](mailto:audrius.butkevicius@elastichosts.com)>
  - \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <[stas.vitkovsky@gmail.com](mailto:stas.vitkovsky@gmail.com)>
  - \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <[sholsapp@gmail.com](mailto:sholsapp@gmail.com)>



- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
<asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url

- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>

- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <<https://evanmeagher.net>>
  - \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
  - \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
  - \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
  - \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto:jesse@jesseshapiro.net)>
  - \* Various character-encoding fixes/tweaks
  - \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <<http://dafoster.net/>>
  - \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
  - \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
  - \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto:nate.prewitt@gmail.com)>
  - \* Ensure timeouts are not booleans and greater than zero.
  - \* Fixed infinite loop in ``stream`` when amt=None.
  - \* Added length\_remaining to determine remaining data to be read.
  - \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <[sethmichaellarson@protonmail.com](mailto:sethmichaellarson@protonmail.com)>
  - \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <[alex.dias@smarkets.com](mailto:alex.dias@smarkets.com)>
  - \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <[moin18@gmail.com](mailto:moin18@gmail.com)>
  - \* Lazily load idna package
  
- \* Tom White <[s6yg1ez3@mail2tor.com](mailto:s6yg1ez3@mail2tor.com)>

- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
- \* Justin Bramley <https://github.com/jbramleycl>

- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>
  - \* Remove Authorization headerregardless of case when redirecting to cross-site
  
- \* James Meickle <<https://permadeath.com/>>
  - \* Improve handling of Retry-After header
  
- \* Chris Jerdonek <[chris.jerdonek@gmail.com](mailto:chris.jerdonek@gmail.com)>
  - \* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.407 python-six 1.12.0-r0

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## 1.408 python3-pyspellchecker 0.5.4-r0

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# 1.410 coreutils 8.31-r0

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section 10

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## 1.411 libpcap 1.9.1-r0

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jloup@gzip.org      madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
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Espie, Marc  
Faigon, Ariel

Farrell, Brian  
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Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
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Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
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Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom

Makey, Jeff  
Marchionna, Michael D.  
Markham,  
Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Pasteleurs, Frederic  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Rusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo



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Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy

Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo

Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
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Nikoli, Miroslav  
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Psa, Petr  
Puente, Enol  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
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Tomat, Fbio  
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```
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```

The hypothetical commands

```
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```
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```

```
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Ty Coon, President of Vice
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# 1.420 libnewt 0.52.21-r0

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# 1.421 thin-provisioning-tools 0.8.5-r0

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### THANKS

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## Commands to generate dependency files  
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)  
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)  
  
## Flags for position independent code  
SHAREDLIBCFLAGS = -fPIC  
SHAREDLIBCXXFLAGS = -fPIC  
SHAREDLIBCPPFLAGS = -DPIC
```



```

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ :/g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ :/g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

```

```
%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@
```

```
## Bind internal references
```

```
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
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```

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## 1.425 ccid 1.4.30-r0

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Any

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## 1.426 python3-pytz 2019.2-r0

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\*

\*

\* `stdio.c`

\* by Mark Gates <[mgates@nlanr.net](mailto:mgates@nlanr.net)>

\* and Ajay Tirumalla <[tirumala@ncsa.uiuc.edu](mailto:tirumala@ncsa.uiuc.edu)>

\* -----

\* input and output numbers, converting with kilo, mega, giga

\* ----- \*/

=====

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## 1.428 bison 3.4.1-r0

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```

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```
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```

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2.3.4/tests/test\_pathlib2.py

\* /opt/ws\_local/PERMITS\_SQL/1084376438\_1598474049.44/0/pathlib2-2-3-4-tar-gz/pathlib2-2.3.4/pathlib2/\_\_init\_\_.py  
\* /opt/ws\_local/PERMITS\_SQL/1084376438\_1598474049.44/0/pathlib2-2-3-4-tar-gz/pathlib2-2.3.4/setup.py

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smallexample
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@smallexample
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`Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

That's all there is to it!

Files:

tests/test-update-copyright.sh

Depends-on:

```
configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])
```

```
Makefile.am:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir='${abs_aux_dir}'
GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007
```

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Description:

Concatenate two arbitrary file names.

Files:

lib/filenamecat.h

lib/filenamecat-lgpl.c

m4/filenamecat.m4

Depends-on:

dirname-lgpl

configure.ac:

gl\_FILE\_NAME\_CONCAT\_LGPL

Makefile.am:

lib\_SOURCES += filenamecat-lgpl.c



Include:  
"filenamecat.h"

License:  
LGPLv2+

Maintainer:  
Jim Meyering  
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@page

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@example

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@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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Files:

```
tests/test-canonicalize-lgpl.c  
tests/signature.h  
tests/null-ptr.h  
tests/macros.h
```

Depends-on:

```
ignore-value  
same-inode  
symlink
```



configure.ac:

Makefile.am:

TESTS += test-canonicalize-lgpl

check\_PROGRAMS += test-canonicalize-lgpl

Description:

Provide the GNU Free Documentation License in Texinfo format.

Files:

doc/fdl.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:

unmodifiable license text

Maintainer:

all

Legal Issues about Contributing Code to GNU last updated 14 July 2015

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\* Assign the copyright to the Free Software Foundation.

This allows the FSF to act to stop violations of the GPL.

\* Keep the copyright and release the program yourself under the GNU GPL. (This alternative is too impractical for contributions to a preexisting FSF-copyrighted GNU program.)

\* Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we

can still use the program in GNU.

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<signature of Mo Ghoul>, 1 April 1987

Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

If

what you did was change an existing program, it should say this:

...in the changes and enhancements made by Hugh Hacker to the program "sample.el".

\* Did anyone else contribute?

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Please use your full legal name (in ASCII characters) as the subject line of the message.

-----  
REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written so far?]

Description:

Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:

doc/relocatable.texi

lib/relocatable.h

lib/relocatable.c

lib/relocatable.valgrind

m4/relocatable-lib.m4

Depends-on:

strdup

configure.ac:

```
gl_RELOCATABLE_LIBRARY
```

```
if test $RELOCATABLE = yes; then
```

```
  AC_LIBOBJ([relocatable])
```

```
fi
```

Makefile.am:

```
DEFS += -DNO_XMALLOC
```

Include:

```
"relocatable.h"
```

License:

LGPLv2+

Maintainer:

Ben Pfaff

The files in this directory describe the gnu lib modules.

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Description:

Ensure `getcwd(NULL, 0)` returns a buffer allocated by the `malloc()` function.

Files:

`lib/getcwd-lgpl.c`

`m4/getcwd.m4`

Depends-on:

`unistd`

`strdup` [test \$REPLACE\_GETCWD = 1]

`configure.ac`:

```
gl_FUNC_GETCWD_LGPL
```

```
if test $REPLACE_GETCWD = 1; then
```

```
  AC_LIBOBJ([getcwd-lgpl])
```

```
fi
```

```
gl_UNISTD_MODULE_INDICATOR([getcwd])
```

`Makefile.am`:

Include:

<`unistd.h`>

License:

GPLv2+

Maintainer:

Eric Blake

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

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<one line to give the program's name and a brief idea of what it does.>

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute

it

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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-----  
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postal address here.]

[Which files have you changed so far, and which new files have you written  
so far?]

Files:

tests/test-getcwd-lgpl.c

tests/signature.h

tests/macros.h

Depends-on:

configure.ac:

Makefile.am:

```
TESTS += test-getcwd-lgpl
check_PROGRAMS += test-getcwd-lgpl
test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)
```

Description:

Locating a program in PATH (LGPLed version).

Files:

```
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4
```

Depends-on:

```
stdbool
strdup
concat-filename
unistd
```

configure.ac:

```
gl_FINDPROG
gl_MODULE_INDICATOR([findprog-lgpl])
```

Makefile.am:

```
lib_SOURCES += findprog.h findprog.c
```

Include:

```
"findprog.h"
```

License:

```
LGPLv2+
```

Maintainer:

```
all
```

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[Please write your snail address here.]

[Please list the files involved, or give a brief description of the changes  
being disclaimed.]

Description:

realpath, canonicalize\_file\_name: Provide canonical absolute file name

Files:

lib/canonicalize-lgpl.c

m4/canonicalize.m4

m4/double-slash-root.m4

Depends-on:

extensions

stdlib

nocrash

alloca-opt [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]

errno [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]

lstat [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test \$REPLACE\_CANONICALIZE\_FILE\_NAME

```
= 1]
alloca      [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
memmove     [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
pathmax     [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
readlink    [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
sys_stat    [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
```

configure.ac:

```
gl_CANONICALIZE_LGPL
if
  test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
  AC_LIBOBJ([canonicalize-lgpl])
fi
gl_MODULE_INDICATOR([canonicalize-lgpl])
gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
gl_STDLIB_MODULE_INDICATOR([realpath])
```

Makefile.am:

Include:

```
<stdlib.h>
```

License:

```
LGPLv2+
```

Maintainer:

```
all
```

Description:

```
Extract specific portions of filenames.
```

Files:

```
lib/dirname.h
lib/dirname-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/dirname.m4
```

Depends-on:

```
dosname
double-slash-root
malloc-posix
stdbool
```

configure.ac:  
gl\_DIRNAME\_LGPL

Makefile.am:  
lib\_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:  
"dirname.h"

License:  
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Maintainer:  
Jim Meyering, Eric Blake

## 1.431 pcsc-lite 1.8.25-r0

### 1.431.1 Available under license :

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- doc/example/pcsc\_demo.c
- the files in src/spy/
- the files in UnitaryTests/

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\*  
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Version 3, 29 June 2007

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```

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```
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```

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## 1.432 smartmontools 7.0-r0

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Version 2, June 1991

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.433 python-idna 2.8-r0

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1084376762_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO
```

```
* /opt/ws_local/PERMITS_SQL/1084376762_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/PKG-INFO
```

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```
"""
```

```
A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.
```

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
```

```
    if python_version < (2,7):
```

```
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = { }
```

```
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
```

```
        'name': 'idna',
```

```
        'packages': ['idna'],
```

```
        'version': package_data['__version__'],
```

```
        'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
        'author': 'Kim Davies',
```

```
        'author_email': 'kim@cynosure.com.au',
```

```
        'license': 'BSD-like',
```

```
        'url': 'https://github.com/kjd/idna',
```

```
        'classifiers': [
```

```
            'Development Status :: 5 - Production/Stable',
```

```
            'Intended Audience :: Developers',
```

```
            'Intended Audience :: System Administrators',
```

```
            'License :: OSI Approved :: BSD License',
```

```
            'Operating System :: OS Independent',
```

```
            'Programming Language :: Python',
```

```
            'Programming Language :: Python :: 2',
```

```
            'Programming Language :: Python :: 2.7',
```

```
            'Programming Language :: Python :: 3',
```

```
            'Programming Language :: Python :: 3.4',
```

```
            'Programming Language :: Python :: 3.5',
```

```
            'Programming Language :: Python :: 3.6',
```

```
            'Topic :: Internet :: Name Service (DNS)',
```

```
            'Topic :: Software Development :: Libraries :: Python Modules',
```

```
            'Topic :: Utilities',
```

```
        ],
```

```
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}
```

```
setup(**arguments)
```

```
if __name__ == '__main__':
    main()
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1084376762\_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/setup.py

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# 1.434 grpc 1.24.1-r0

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a

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## 1.437 bash-completion 2.9-r0



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## 1.441 python3-flask-socketio 3.3.2-r0

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# 1.452 gawk 5.0.1-r0

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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```
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Version 3, 29 June 2007

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The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.



The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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# 1.453 pango 1.44.6-r0

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this function must  
be optional: if the application does not supply it, the square  
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# 1.454 python3-pycparser 2.20-r0

## 1.454.1 Available under license :

pycparser -- A C parser in Python

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# 1.462 nspr 4.21-r0

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The hypothetical commands

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Any

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language

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# 1.469 audit 2.8.5-r0

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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
  <copyright>
    <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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////

```
[#mpl]
```

```
# MPL Support, <boost/mp11/mpl.hpp>
```

```
:toc:
```

```
:toc-title:
```

```
:idprefix:
```

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

# 1.471 libdevmapper 2.03.02-r0

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# 1.475 bind 9.11.19-r0

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-->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

```
xmlns:xi="http://www.w3.org/2001/XInclude"
```

```
xmlns:db="http://docbook.org/ns/docbook">
```

```
<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">

    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>
```

```
<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>
```

```
<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
    <xsl:value-of
      select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

```
<!--
```

```
- Local variables:
```

```
- mode: sgml
```

- End:

-->

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# 1.478 libtasn 4.14-r0

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```
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.
```

```
define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246
```

```
CF246:                                ; preds = %CF246, %BB
  %S1163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248
```

```
CF248:                                ; preds = %CF248, %CF246
  store i8 %S1163, i8* %0
  br label %CF248
}
```

```
=====
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```

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\*/

; RUN: llc -march=hexagon < %s

; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types

; cause LSR to assume type "void" for the memory type. This would then

; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

```

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:
; preds = %entry
br label %while.body

while.body:
; preds = %exit.2, %while.body.lr.ph
%lshr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [
i32 1, label %sw.bb.i
i32 2, label %sw.bb3.i
]

sw.bb.i:
; preds = %while.body
unreachable

sw.bb3.i:
; preds = %while.body
unreachable

exit:
; preds = %while.body
switch i32 undef, label %exit.2 [
i32 1, label %sw.bb.i17
i32 2, label %sw.bb3.i20
]

sw.bb.i17:
; preds = %exit
%0 = bitcast %struct.0* %lshr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20:
; preds = %exit
%2 = bitcast %struct.0* %lshr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2:
; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lshr.iv, i32 1
br label %while.body

while.end:
; preds = %entry

```

```

ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32>
%in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>

```

```
ret <4 x double> %res
}
```

---

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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp
```

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LINK_LIBS
```

```
  lldbCore
```

```
  lldbHost
```

```
  lldbSymbol
```

```
LINK_COMPONENTS
```

```
  Support
```

```
)
```

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Yixuan Qiu <yixuanq@gmail.com>  
Yusuke Suzuki <utatane.tea@gmail.com>  
Zbigniew Skowron <zbychs@gmail.com>  
; RUN: llc < %s -mtriple=x86\_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s  
;  
; D31946  
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.  
; Additionally ensure that the output code actually put fp128 values in SSE registers.

```

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
    %cmp = fcmp ogt fp128 %a, %b

```

```

%sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK    movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}

```

```

define fp128 @TestFabs(fp128 %a) {
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
; CHECK-LABEL: TestFabs:
;
CHECK    andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

```

```

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK    andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

```

```

define fp128 @TestFneg(fp128 %a) {
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000008000000000000000, %mul
ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK    movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

```

# 1.480 trace-cmd 2.8.3-r0

## 1.480.1 Available under license :

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Any executables

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## 1.482 keyutils 1.6-r0

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```

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any



application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code,

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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version 2.1 of the License, or (at your option) any later version.
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

# 1.483 python3-pygobject 3.34.0-r0

## 1.483.1 Available under license :

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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## 1.484 fontconfig 2.13.1-r0

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## 1.485 gobject-introspection 1.60.2-r0

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference

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In

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative



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2006-Jan-27

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#

.gitignore

#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

src/pcf/pcfread.c

```
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
EOF
```

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## 1.490 pcre 8.43-r0

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## THE BASIC LIBRARY FUNCTIONS

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## 1.493 python3-iso8601 0.1.12-r0

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Version 3.0, 18 August 2009

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## 1.497 rrdtool 1.7.2-r0

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+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith

Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition,

mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the

Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>  
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```

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

#### 2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

- a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
- b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

#### 3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

- a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
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You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in



a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because

of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed

under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a

portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility

is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major

components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

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END OF TERMS AND CONDITIONS



## Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year>  
<name of author>
```

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License  
@c man begin SEEALSO  
gfdl(7), fsf-funding(7).  
@c man end  
@c man begin COPYRIGHT  
Copyright @copyright{ } 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

@c man end  
@end ignore  
@node Copying  
@c man begin DESCRIPTION  
@appendix GNU GENERAL PUBLIC LICENSE  
@c The GNU General Public License.  
@center Version 3, 29 June 2007

@c This file is intended to be included within another document,  
@c hence no sectioning command or @node.

@display  
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@heading Preamble

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To protect your rights, we need to prevent others from denying you these rights

or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary.

To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## @heading TERMS AND CONDITIONS

@enumerate 0

@item Definitions.

``This License" refers to version 3 of the GNU General Public License.

``Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

``The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you". ``Licensees" and ``recipients" may be individuals or organizations.

To ``modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version" of the earlier work or a work ``based on" the earlier work.

A ``covered work" means either the unmodified Program or a work based on the Program.

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# 1.506 python 2.7.18-r0

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)

in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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\* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).  
\* Added generation of field number constants.

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\* Small patch improving performance of in Python serialization.

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\* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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\* Detect whether zlib is new enough in configure script.  
\* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>  
\* Optimize Java serialization code when writing a small message to a stream.  
\* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.  
\* Clean up some Java warnings.  
\* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>  
\* Added CodedInputStream.getTotalBytesRead().

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\* Fixed detection of sched\_yield on Solaris.  
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Andrew Paprocki <andrew@ishiboo.com>  
\* Fixed minor IBM xLC compiler build issues  
\* Added atomicops for AIX (POWER)

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## 1.508 rpcbind 1.2.5-r0

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## 4.3+gitrAUTOINC+f95864afe8-r0

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Original author of libsensors, sensors-detect, sensors and isadump.

\* Merlin Hughes

Original author of sensord.

\* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

\* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

\* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
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## 1.513 dbus-test 1.12.16-r0

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
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type `show w'.
```

```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

Source: <https://github.com/lz4/lz4>

Files: \*

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# 1.519 python-cryptography-vectors 2.7-r0

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## 1.520 python3-multidict 4.7.5-r0

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## 1.523 python3-simplejson 3.16.0-r0

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# 1.524 python3-lxml 4.4.1-r0

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# 1.525 gnome-desktop-testing 2018.1-r0

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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# 1.529 python3-click 7.1.1-r0

## 1.529.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1123974516\_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/LICENSE.rst

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Metadata-Version: 1.2

Name: click

Version: 7.1.1

Summary: Composable command line interface toolkit

Home-page: <https://palletsprojects.com/p/click/>

Maintainer: Pallets

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Documentation, <https://click.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/click>

Project-URL: Issue tracker, <https://github.com/pallets/click/issues>

Description: \ \$ click \\_

=====

Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

-----

Install and update using `pip`\_:

.. code-block:: text

```
$ pip install -U click
```

.. \_pip: <https://pip.pypa.io/en/stable/quickstart/>

A Simple Example

-----

.. code-block:: python

```
import click

@click.command()
@click.option("--count", default=1, help="Number of greetings.")
@click.option("--name", prompt="Your name", help="The person to greet.")
def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times."""
    for _ in range(count):
```



```
click.echo(f"Hello,
{name}!")

if __name__ == '__main__':
    hello()
```

.. code-block:: text

```
$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!
```

Donate

-----

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`\_.

.. \_please donate today: <https://palletsprojects.com/donate>

Links

-----

- Website: <https://palletsprojects.com/p/click/>
- Documentation: <https://click.palletsprojects.com/>
- Releases: <https://pypi.org/project/click/>
- Code: <https://github.com/pallets/click>
- Issue tracker: <https://github.com/pallets/click/issues>
- Test status: [https://dev.azure.com/pallets/click/\\_build](https://dev.azure.com/pallets/click/_build)
- Official chat: <https://discord.gg/t6rrQZH>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 3

Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*, !=3.4.\*

Found in path(s):

```
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/PKG-INFO
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/src/click.egg-info/PKG-INFO
```

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Found in path(s):

```
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/src/click/parser.py
```

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# binary only, patch it back to the system, and then use a wrapper

Found in path(s):

```
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/src/click/_compat.py
```

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```
import io
```

```
import re
```

```
from setuptools import find_packages
```

```
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
```

```
    readme = f.read()
```

```
with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
```

```
    version = re.search(r'__version__ = "(.*?)"', f.read()).group(1)
```

```
setup(
```

```
    name="click",
```

```
    version=version,
```

```
    url="https://palletsprojects.com/p/click/",
```

```
    project_urls={
```

```
        "Documentation": "https://click.palletsprojects.com/",
```

```
        "Code": "https://github.com/pallets/click",
```

```
        "Issue tracker": "https://github.com/pallets/click/issues",
```

```
    },
```

```
    license="BSD-3-Clause",
```

```
    maintainer="Pallets",
```

```
    maintainer_email="contact@palletsprojects.com",
```

```
    description="Composable command line interface toolkit",
```

```
    long_description=readme,
```

```
    packages=find_packages("src"),
```

```
    package_dir={"": "src"},
```

```
    include_package_data=True,
```

```
    python_requires=">=2.7, !=3.0.*",
```

```
!=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 3",
],
)
```

Found in path(s):

```
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/setup.py
```

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.. \_contrib:

```
=====
click-contrib
=====
```

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why `click-contrib_` exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please

note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. \_click-contrib: <https://github.com/click-contrib/>

Found in path(s):

```
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/docs/contrib.rst
```

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Including attribution to #612

Found in path(s):

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# 1.530 python-dbus 1.2.12-r0

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## 1.532 python-pytz 2019.2-r0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  |            |                     |

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## 1.539 hd-parm 9.58-r0

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest



to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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The only condition is that my name and copyright notice remain in the source code as-is.

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Mark Lord (mlord@pobox.com)

This package was debianized by Christopher L Cheney <ccheney@debian.org> on Wed, 21 Nov 2001 15:51:14 -0600.

It was downloaded from <http://www.ibiblio.org/pub/Linux/system/hardware>

Upstream Author: Mark S. Lord <mlord@pobox.com>

Copyright:

```
/* hdparm.c - Command line interface to get/set hard disk parameters */
/*      - by Mark Lord 1994-2008 -- freely distributable */
```

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# 1.540 glibc 2.30-r0

## 1.540.1 Available under license :

@c The GNU Lesser General Public License.

@center Version 2.1, February 1999

@c This file is intended to be included within another document,

@c hence no sectioning command or @node.

@display

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## @subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0

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``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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@item

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if the work is a derivative of the Library, you may  
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@item

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copyright notice for the Library among them, as well as a reference  
directing the user to the copy of  
this License. Also, you must do one  
of these things:

@enumerate a

@item

Accompany the work with the complete corresponding  
machine-readable source code for the Library including whatever  
changes were used in the work (which must be distributed under  
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with the Library, with the complete machine-readable ``work that  
uses the Library", as object code and/or source code, so that the  
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@item

Use a suitable shared library mechanism for linking with the Library. A  
suitable mechanism is one that (1) uses at run time a copy of the  
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copying library functions into the executable,  
and (2) will operate  
properly with a modified version of the library, if the user installs  
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@item

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@enumerate a

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@subheading END OF TERMS AND CONDITIONS

@page

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```
@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

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```
@end
smallexample
```

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```
@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

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Version 2, June 1991

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## 1.541 grep 3.3-r0

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```
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## 1.542 systemtap

# 4.1+gitAUTOINC+57c9aca9f1-r0

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.543 libvirt 5.5.0-r0

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## 1.546 rpm 4.14.2.1-r0

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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## 1.547 python-more-itertools 5.0.0-r0

### 1.547.1 Available under license :

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be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition,

mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 2.1, February 1999

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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@smallexample

@var{one line to give the program's name and a brief idea of what it does.}  
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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample
```

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```
@c man end
```

```
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## 1.549 python3-ndg-httpsclient 0.5.1-r0

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```

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## 1.551 kmod 26-r0

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Version 2.1, February 1999

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# 1.554 python-chardet 3.0.4-r0

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```
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.
```

```
define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
    %L34 = load i8, i8* %0
    %Cmp56 = icmp sgt i8 undef, %L34
    br label %CF246

CF246:                                ; preds = %CF246, %BB
    %S1163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248

CF248:                                ; preds = %CF248, %CF246
    store i8 %S1163, i8* %0
```

br label %CF248

}

---

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*/
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:
; preds = %entry
br label %while.body

while.body:
; preds = %exit.2, %while.body.lr.ph
%lshr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [
i32 1, label %sw.bb.i
i32 2, label %sw.bb3.i
]

sw.bb.i:
; preds = %while.body
unreachable

sw.bb3.i:
; preds = %while.body
unreachable

exit:
; preds = %while.body
switch i32 undef, label %exit.2 [
i32 1, label %sw.bb.i17
i32 2, label %sw.bb3.i20
]

sw.bb.i17:
; preds = %exit
%0 = bitcast %struct.0* %lshr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

```

```

sw.bb3.i20:                                ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

```

```

exit.2:                                     ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

```

```

while.end:                                  ; preds = %entry
ret void
}

```

```

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

```

```

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

```

```

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

```

```

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

```

```

; CHECK: ret
%flt = sitofp <16 x i32>
%in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0>
ret <16 x double> %res
}

```

```

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

```

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| jsoncpp | lib/External/JSON |

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add_llvm_library(llvmPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp
```

```
LINK_LIBS
```

```
  llvmCore
```

```
  llvmHost
```

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  llvmSymbol
```

```
LINK_COMPONENTS
```

```
  Support
```

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```
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.
```

```
declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
```

```
define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK    movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}
```

```
define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
; CHECK-LABEL: TestFabs:
;
; CHECK    andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}
```

```
define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK    andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}
```

```
define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
}
```

```
ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK    movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}
```

## 1.558 busybox 1.31.0-r0

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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#### RECORD

Carriage\_Control carriage\_return  
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## 1.562 ptest-runner

## 2.3.2+gitAUTOINC+7015e9199c-r0

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## 1.563 glib 2.60.7-r0

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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Version 3, 29 June 2007

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Iperf performance test

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That's all there is to it!  
Mathieu Desnoyers  
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:

<https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html>

I (Mathieu Desnoyers) re-implemented ACCESS\_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009 :

<http://lkml.org/lkml/2009/5/13/16>

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic\_ops project:

[http://www.hpl.hp.com/research/linux/atomic\\_ops/](http://www.hpl.hp.com/research/linux/atomic_ops/)

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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```
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Copyright (C) <year> <name of author>
```

```
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the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

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GNU General Public License for more details.
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```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
```

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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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# tag: General Public License text  
#

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=====  
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David Gibson <david@gibson.dropbear.id.au>

(principal original author of dtc and libfdt)

2 November 2007

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=====

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#### Key Dates

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\* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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#### Proposals (RFCs):

<https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html>

#### TianoCore Bugzilla:

[https://bugzilla.tianocore.org/show\\_bug.cgi?id=629](https://bugzilla.tianocore.org/show_bug.cgi?id=629)

\* April 9, 2019

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<https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html>

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#### TianoCore

##### Bugzilla:

[https://bugzilla.tianocore.org/show\\_bug.cgi?id=1373](https://bugzilla.tianocore.org/show_bug.cgi?id=1373)

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-----  
Contributions.txt: TianoCore Contribution Agreement 1.1  
-----

=====  
= Code Contributions =  
=====

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1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.  
For example: Contributed-under: TianoCore Contribution Agreement 1.1  
The "TianoCore Contribution Agreement" is included below in

this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

5. It is preferred

that contributions are submitted using the same

copyright license as the base project. When that is not possible, then contributions using the following licenses can be accepted:

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Contributions using other licenses might be accepted, but further review will be required.

```
=====
= Change Description / Commit Message / Patch Email =
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

```
== Sample Change Description / Commit Message =
```

```
=== Start of sample patch email message ===
```

```
From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary
```

```
Full-commit-message
```

```
Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---
```

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

\* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the

commit message is the email's content until the '---' line.

\* git format-patch is one way to create this format

==== Definitions for sample patch email ====

\* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.

\* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.

\* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.

\* "Brief-single-line-summary" is a short summary of the change.

\* The entire first line should be less than ~70 characters.

\* "Full-commit-message"

a verbose multiple line comment describing

the change. Each line should be less than ~70 characters.

\* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.

\* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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-----  
-----  
Contributions.txt: TianoCore Contribution Agreement 1.0  
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=====  
= Code Contributions =  
=====

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to

- use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
  3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0  
The "TianoCore Contribution Agreement" is included below in this document.
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Contributions of code put into the public domain can also be accepted.

Contributions using other licenses might be accepted, but further review will be required.

```
=====
= Change Description / Commit Message / Patch Email =
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

```
== Sample Change Description / Commit Message =
```

```
=== Start of sample patch email message ===
```

```
From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary
```

```
Full-commit-message
```

```
Contributed-under: TianoCore Contribution Agreement 1.0
```

Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

==== Definitions for sample patch email ====

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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Index: debug.c

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- debug.c 7 Sep 2007 10:01:21 -0000 1.1

+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3

@@ -52,7 +52,11 @@

void X86EMU\_trace\_regs (void)

{

  if (DEBUG\_TRACE()) {

-  x86emu\_dump\_regs();

+ if (M.x86.mode & (SYSMODE\_PREFIX\_DATA | SYSMODE\_PREFIX\_ADDR)) {

+  x86emu\_dump\_xregs();

+ } else {

+  x86emu\_dump\_regs();

+ }

```

    }
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
    for (i=0; i< M.x86.enc_pos; i++) {
        sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
    }
-   printk("%-20s",buf1);
+   printk("%-20s ",buf1);
}

```

static void print\_decoded\_instruction (void)

Index: ops2.c

=====

RCS file:

/cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3

@@ -149,8 +149,69 @@

```

    target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
        M.x86.R_IP = (u16)target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+}
+
+/******

```

+REMARKS:

+Handles opcode 0x0f,0xC8-0xCF

+\*\*\*\*\*

+s32 x86emu\_bswap(s32 reg)

```

+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}

```

```

+
+void x86emuOp2_bswap(u8 op2)
+{
+
+    /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\t");
+    switch (op2) {
+    case 0xc8:
+        DECODE_PRINTF("EAX\n");
+        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+        break;
+    case 0xc9:
+        DECODE_PRINTF("ECX\n");
+        M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+        break;
+    case 0xca:
+        DECODE_PRINTF("EDX\n");
+        M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+        break;
+    case 0xcb:
+        DECODE_PRINTF("EBX\n");
+        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+        break;
+    case 0xcc:
+        DECODE_PRINTF("ESP\n");
+        M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+        break;
+    case 0xcd:
+        DECODE_PRINTF("EBP\n");
+        M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+        break;
+    case 0xce:
+        DECODE_PRINTF("ESI\n");
+        M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+        break;
+    case 0xcf:
+        DECODE_PRINTF("EDI\n");
+        M.x86.R_EDI
+        = x86emu_bswap(M.x86.R_EDI);
+        break;
+    }
+    TRACE_AND_STEP();
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+}
+@ -1702,14 +1763,14 @@
+/* 0xc5 */ x86emuOp2_illegal_op,

```



```

/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,

```

```

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,

```

Index:

ops.c

```

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v

```

retrieving revision 1.1

diff -u -u -r1.1 ops.c

--- ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops.c 20 Mar 2008 16:52:00 -0000

@@ -1061,7 +1061,11 @@

```

    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
-   push_word(imm);
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+   } else {
+       push_word(imm);
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}

```

@@ -1256,8 +1260,10 @@

```

    target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-   if (cond)
+   if (cond) {

```

```

    M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+ }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
    {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+     if (M.x86.intr & INTR_HALTED)
+         break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2559,9 +2569,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode
& SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
    }
    M.x86.R_SI += inc;

```

```

    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2598,16 +2612,21 @@

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES,
M.x86.R_DI);
@@ -2655,11 +2674,16 @@
                val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word((u16)val1, (u16)val2);
            }

```

```

-     M.x86.R_CX -= 1;
+     if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX -= 1;
+     else
+         M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+     if (M.x86.intr & INTR_HALTED)
+         break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /*
        move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
+            if (M.x86.intr & INTR_HALTED)
+                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2783,9 +2812,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;

```

```

M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2795,6 +2826,8 @@
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
}
M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-            M.x86.R_CX --;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX --;
+            else
+                M.x86.R_CX --;
            M.x86.R_SI += inc;
+            if (M.x86.intr & INTR_HALTED)
+
                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2859,9 +2897,11 @@
        count = 1;
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
-            /* move them until CX is ZERO. */
-            count = M.x86.R_CX;
+            /* move them until (E)CX is ZERO. */
+            count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
            M.x86.R_CX = 0;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX = 0;
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        }
        while (count--) {
@@ -2871,6 +2911,8 @@

```

```

        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /*
REPE */
-     /* move them until CX is ZERO. */
-     while (M.x86.R_CX != 0) {
+     /* move them until (E)CX is ZERO. */
+     while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
-     M.x86.R_CX -= 1;
+     if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX -= 1;
+     else
+         M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
+     if (M.x86.intr & INTR_HALTED)
+         break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-     /* move them until CX is ZERO. */
-     while (M.x86.R_CX != 0) {
+     /* move them until (E)CX is ZERO. */
+     while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
-     M.x86.R_CX -= 1;
+     if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX -= 1;
+     else
+         M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break;        /* zero flag set means equal */

```

```

+     if (M.x86.intr & INTR_HALTED)
+         break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
TRACE_AND_STEP();
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX,
val);
@@ -2960,16 +3012,21 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
        }
-    M.x86.R_CX -- 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -- 1;
+    else
+        M.x86.R_CX -- 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
        break;
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX,
val);
@@ -2977,10 +3034,15 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
        }
-    M.x86.R_CX -- 1;

```

```

+     if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX -= 1;
+     else
+         M.x86.R_CX -= 1;
+     M.x86.R_DI += inc;
+     if (ACCESS_FLAG(F_ZF))
+         break;      /* zero flag set means equal */
+     if (M.x86.intr & INTR_HALTED)
+         break;
+     }
+     M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
+ } else {
@@ -3238,9 +3300,9 @@
+     DECODE_PRINTF("RET\t");
+     imm = fetch_word_imm();
+     DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
+ TRACE_AND_STEP();
+     M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
+     M.x86.R_SP += imm;
+     DECODE_CLEAR_SEGOVR();
+     END_OF_INSTR();
@@ -3254,9 +3316,9
@@
+ {
+     START_OF_INSTR();
+     DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
+ TRACE_AND_STEP();
+     M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
+     DECODE_CLEAR_SEGOVR();
+     END_OF_INSTR();
+ }
@@ -3471,10 +3533,10 @@
+     DECODE_PRINTF("RETF\t");
+     imm = fetch_word_imm();
+     DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
+ TRACE_AND_STEP();
+     M.x86.R_IP = pop_word();
+     M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
+     M.x86.R_SP += imm;
+     DECODE_CLEAR_SEGOVR();
+     END_OF_INSTR();
@@ -3488,10 +3550,10 @@

```



```

{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0)
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)

```

```

+   M.x86.R_ECX -= 1;
+   else
+   M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)   /* (E)CX != 0 */
+       M.x86.R_IP = ip;
+       DECODE_CLEAR_SEGOVR();
+       END_OF_INSTR();
@@ -4085,8 +4156,10 @@
+   target = (u16)(M.x86.R_IP + offset);
+   DECODE_PRINTF2("%x\n", target);
+   TRACE_AND_STEP();
-   if (M.x86.R_CX == 0)
+   if (M.x86.R_CX == 0) {
+       M.x86.R_IP = target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
+   ip = (s16)fetch_word_imm();
+   ip += (s16)M.x86.R_IP;
+   DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs,
M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
+   TRACE_AND_STEP();
+   M.x86.R_IP = (u16)ip;
+   DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
+   cs = fetch_word_imm();
+   DECODE_PRINTF2("%04x:", cs);
+   DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
+   TRACE_AND_STEP();
+   M.x86.R_IP = ip;
+   M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
+   offset = (s8)fetch_byte_imm();
+   target = (u16)(M.x86.R_IP + offset);
+   DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
+   TRACE_AND_STEP();
+   M.x86.R_IP = target;
+   DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
+   DECODE_PRINTF("REPNE\n");
+   TRACE_AND_STEP();
+   M.x86.mode |= SYSMODE_PREFIX_REPNE;

```

```

+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.mode |= SYSMODE_32BIT_REP;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
  DECODE_PRINTF("REPE\n");
  TRACE_AND_STEP();
  M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.mode |= SYSMODE_32BIT_REP;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
  case 4:      /* jmp word ptr ... */
    destval = fetch_data_word(destoffset);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;
  case 5:      /* jmp far ptr ... */
    destval = fetch_data_word(destoffset);
    destval2 = fetch_data_word(destoffset + 2);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    M.x86.R_CS = destval2;

```

Index: prim\_ops.c

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim\_ops.c,v

retrieving revision

1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- prim\_ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ prim\_ops.c 16 Jan 2008 14:18:15 -0000 1.3

@@ -1921,7 +1921,7 @@

void imul\_long\_direct(u32 \*res\_lo, u32\* res\_hi, u32 d, u32 s)

{

#ifdef \_\_HAS\_LONG\_LONG\_\_

- s64 res = (s64)d \* (s64)s;

+ s64 res = (s64)(s32)d \* (s64)(s32)s;

\*res\_lo = (u32)res;

\*res\_hi = (u32)(res >> 32);

@@ -2013,7 +2013,7 @@

```

void mul_long(u32 s)
{
#ifdef __HAS_LONG_LONG__
- u64 res = (u32)M.x86.R_EAX * (u32)s;
+ u64 res = (u64)M.x86.R_EAX * s;

M.x86.R_EAX = (u32)res;
M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
- /* in until CX is ZERO. */
- u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+ /* in until (E)CX is ZERO. */
+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
-
while (count--) {
single_in(size);
M.x86.R_DI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
- /* out until CX is ZERO. */
- u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+ /* out until (E)CX is ZERO. */
+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
while (count--) {
single_out(size);
M.x86.R_SI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
M.x86.R_ECX = 0;
}
}
M.x86.mode

```

```
&= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
```

```
Index: sys.c
```

```
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
```

```
retrieving revision 1.1
```

```
retrieving revision 1.2
```

```
diff -u -u -r1.1 -r1.2
```

```
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
```

```
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
```

```
@@ -45,11 +45,6 @@
```

```
#include <x86emu/regs.h>
```

```
#include "debug.h"
```

```
#include "prim_ops.h"
```

```
ifndef LINUXBIOS_VERSION
```

```
include "io.h"
```

```
else
```

```
include <sys/io.h>
```

```
endif
```

```
ifdef IN_MODULE
```

```
include "xf86_ansi.h"
```

```
@@ -220,7 +215,7 @@
```

```
{
```

```
DB(if (DEBUG_IO_TRACE())
```

```
printk("inb %#04x \n", addr);
```

```
- return inb(addr);
```

```
+ return 0;
```

```
}
```

```
*****
```

```
@@ -235,7 +230,7 @@
```

```
{
```

```
DB(if (DEBUG_IO_TRACE())
```

```
printk("inw %#04x \n", addr);
```

```
- return inw(addr);
```

```
+ return 0;
```

```
}
```

```
*****
```

```
@@ -250,7 +245,7 @@
```

```
{
```

```
DB(if (DEBUG_IO_TRACE())
```

```
printk("inl %#04x \n", addr);
```

```
- return inl(addr);
```

```
+ return 0;
```

```
}
```

```
*****
```

```

@@ -264,7 +259,6 @@
{
DB(if (DEBUG_IO_TRACE())
printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
return;
}

```

```

@@ -279,7 +273,6 @@
{
DB(if (DEBUG_IO_TRACE())
printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
return;
}

```

```

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE())
printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
return;
}

```

```

@@ -405,6 +397,6 @@

```

```

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
M.mem_size = size;
}

```

Index: include/x86emu/debug.h

```

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v

```

retrieving revision 1.1

retrieving revision 1.4

diff -u -u -r1.1 -r1.4

--- include/x86emu/debug.h 7

Sep 2007 10:01:21 -0000 1.1

+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4

```

@@ -40,8 +40,6 @@

```

```

#ifndef __X86EMU_DEBUG_H

```

```

#define __X86EMU_DEBUG_H

```

```

-//#define DEBUG 0

```

```

-#undef DEBUG

```

```

/*----- Macros and type definitions -----*/

```

```

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()      (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()  (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()   (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()        (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()  (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()   (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()      0
# define DEBUG_TRACECALL()   0
# define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP()
+   0
+# define DEBUG_TRACEJMPREGS() 0
# define DEBUG_SYS()         0
# define DEBUG_MEM_TRACE()   0
# define DEBUG_IO_TRACE()    0
@@ -169,14 +171,20 @@
x86emu_dump_regs();
if (DEBUG_TRACECALL())
    printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
if (DEBUG_TRACECALLREGS())
    x86emu_dump_regs();
if (DEBUG_TRACECALL())
- printk("%04x:%04x: %s\n",u,v,n);
+ printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)
+ if (DEBUG_TRACEJMPREGS()) \
+   x86emu_dump_regs(); \
+ if (DEBUG_TRACEJMP()) \
+   printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifndef DEBUG
Index: include/x86emu/regs.h
=====

```

```

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
    SYSMODE_SEGOVR_GS  |\
    SYSMODE_SEGOVR_SS  |\
    SYSMODE_PREFIX_DATA  |\
-   SYSMODE_PREFIX_ADDR)
+   SYSMODE_PREFIX_ADDR  |\
+   SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
    */
    u32 mode;
    volatile int intr; /* mask of pending interrupts */
- int debug;
+ volatile int debug;
#ifdef DEBUG
- int check;
+ int check;
    u16 saved_ip;
    u16 saved_cs;
    int enc_pos;
Index: include/x86emu/x86emu.h

```

```

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
-0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@

```



```

#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef __cplusplus
} /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */
argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

```

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## History

-----

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-- Wolfgang Denk

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Version 2.1, February 1999

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```
==> edk2/License-History.txt <==  
    License-History.txt  
    =====
```

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### Key Dates

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\* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

### References:

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Proposals (RFCs):

<https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html>

TianoCore Bugzilla:

[https://bugzilla.tianocore.org/show\\_bug.cgi?id=629](https://bugzilla.tianocore.org/show_bug.cgi?id=629)

\* April 9, 2019

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Proposals (RFCs):

<https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html>

<https://lists.01.org/pipermail/edk2-devel/2019-March/037500.html>

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=====

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1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message

explicitly states that the

contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.

For example: Contributed-under: TianoCore Contribution Agreement 1.1

The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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=====  
= Change Description / Commit Message / Patch Email =  
=====

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>  
Subject: [Repository/Branch  
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1  
Signed-off-by: Contributor Name <contributor@example.com>  
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

- \* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

=== Definitions for sample patch email ===

- \* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
- \* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'.

For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.

- \* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- \* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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Contributions.txt: TianoCore Contribution Agreement 1.0  
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= Code Contributions =  
=====

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution

agreement and version.

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4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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Contributions using other licenses might be accepted, but further review will be required.

```
=====
= Change Description / Commit Message / Patch Email =
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

```
== Sample Change Description / Commit Message =
```

```
=== Start of sample patch email message ===
```

```
From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary
```

```
Full-commit-message
```

```
Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---
```

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

```
=== End of sample patch email message ===
```

```
=== Notes for sample patch email ===
```

\* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.

\* git format-patch is one way to create this format



=== Definitions for sample patch email ===

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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John R. Hauser  
2018 January 20

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\* FreeBSD strace list

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```
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{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },

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{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },

```

```
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)",
  NULL, NULL },
```

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include/bsd/vis.h  
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man/errc.3bsd  
man/explicit\_bzero.3bsd  
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src/arc4random\_uniform.c

src/arc4random\_unix.h

src/arc4random\_win.h

src/closefrom.c

src/getentropy\_aix.c

src/getentropy\_bsd.c

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The hypothetical commands `show w' and  
`show c' should show the appropriate  
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be called something other than `show w' and `show c'; they could even be  
mouse-clicks or menu items--whatever suits your program.

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school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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## 1.586 python3-idna 2.9-r0



## 1.586.1 Available under license :

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```
"""
```

```
A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.
```

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
```

```
    if python_version < (2,7):
```

```
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = { }
```

```
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
```

```
        'name': 'idna',
```

```
        'packages': ['idna'],
```

```
        'version': package_data['__version__'],
```

```
        'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
        'author': 'Kim Davies',
```

```
        'author_email': 'kim@cynosure.com.au',
```

```
        'license': 'BSD-like',
```

```
        'url': 'https://github.com/kjd/idna',
```

```
        'classifiers': [
```

```
            'Development Status :: 5 - Production/Stable',
```

```
            'Intended Audience :: Developers',
```

```
            'Intended Audience :: System Administrators',
```

```
            'License :: OSI Approved :: BSD License',
```

```
            'Operating System :: OS Independent',
```

```
            'Programming Language :: Python',
```

```
            'Programming Language :: Python :: 2',
```

```
            'Programming Language :: Python :: 2.7',
```

```
            'Programming Language :: Python :: 3',
```

```
            'Programming Language :: Python :: 3.4',
```

```
            'Programming Language :: Python :: 3.5',
```

```
            'Programming Language :: Python :: 3.6',
```

```
            'Programming Language :: Python :: 3.7',
```

```

'Programming Language :: Python :: 3.8',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

```

Found in path(s):

\* /opt/cola/permits/1084378005\_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/setup.py

No license file was found, but licenses were detected in source scan.

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-----

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\* /opt/cola/permits/1084378005\_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/LICENSE.rst

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Metadata-Version: 1.2

Name: idna

Version: 2.9

Summary: Internationalized Domain Names in Applications (IDNA)

Home-page: <https://github.com/kjd/idna>

Author: Kim Davies

Author-email: [kim@cynosure.com.au](mailto:kim@cynosure.com.au)

License: BSD-like

Description: Internationalized Domain Names in Applications (IDNA)

=====

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <<http://tools.ietf.org/html/rfc5891>>`\_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>`\_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <<http://tools.ietf.org/html/rfc3490>>`\_).

Basic functions are simply executed:

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
```

```
.
```

```
# Python 2
```

```
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.
```

## Packages

-----

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg
:target: http://badge.fury.io/py/idna
```

## Installation

-----

To install this library,  
you can use pip:

```
.. code-block:: bash
```

```
$ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```
.. code-block:: bash
```

```
$ python setup.py install
```

This library works with Python 2.7 and Python 3.4 or later.

## Usage

-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.
```

You may use the codec encoding and decoding methods using the `idna.codec` module:

```
.. code-block:: pycon
```

```
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```
.. code-block:: pycon
```

```
# Python 2
>>> idna.alabel(u")
'xn--0zwm56d'
```

#### Compatibility Mapping (UTS #46)

```
+++++
```

As described in [RFC 5895](http://tools.ietf.org/html/rfc5895) [\[http://tools.ietf.org/html/rfc5895\]](http://tools.ietf.org/html/rfc5895), the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as [Unicode IDNA Compatibility Processing](http://unicode.org/reports/tr46/) [\[http://unicode.org/reports/tr46/\]](http://unicode.org/reports/tr46/), it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *\*LATIN CAPITAL LETTER K\** is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
```

```
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the \*LATIN SMALL LETTER SHARP S\* (ß) was converted into two \*LATIN SMALL LETTER S\* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

```
# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

```
``encodings.idna`` Compatibility
+++++
```

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

## Exceptions

-----

All errors raised during the conversion following the specification should raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext`` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

## Building and Diagnostics

-----

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

\* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

\* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <<http://iana.org/>>.

\* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

## Testing

-----

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, 'Unicode IDNA Compatibility Processing' <<http://unicode.org/reports/tr46/>>.

The tests are run automatically on each commit at Travis CI:

```
.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers  
Classifier: Intended Audience :: System Administrators  
Classifier: License :: OSI Approved :: BSD License  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python  
Classifier: Programming Language  
:: Python :: 2  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Programming Language :: Python :: 3.8  
Classifier: Programming Language :: Python :: Implementation :: CPython  
Classifier: Programming Language :: Python :: Implementation :: PyPy  
Classifier: Topic :: Internet :: Name Service (DNS)  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Classifier: Topic :: Utilities  
Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*

Found in path(s):

\* /opt/cola/permits/1084378005\_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/PKG-INFO  
\* /opt/cola/permits/1084378005\_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/idna.egg-info/PKG-INFO

# 1.587 bluez 5.50-r0

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Version 2.1, February 1999

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Any executables

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a) Accompany the work with the complete corresponding machine-readable

source code for the Library including whatever

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## 1.593 python3-pytest 5.1.3-r0

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## 1.597 python-pyparsing 2.4.2-r0

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<http://www.openssl.org/>
- o LIBLINEAR. Used for IPv6 OS classification.  
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- o libsvn. The Subversion library, used by the updater program nmap-update. <http://subversion.apache.org/>
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## THE BASIC LIBRARY FUNCTIONS

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Written

by: Philip Hazel

Email local part: ph10

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## 1.601 python-wcwidth 0.1.7-r0

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# 1.605 python3-itsdangerous 0.24-r0

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## 1.606 lvm2 2.03.02-r0

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```

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## 1.607 python3-markupsafe 1.1.1-r0

### 1.607.1 Available under license :

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```
/**
 * markupsafe._speedups
 * ~~~~~
 *
 * C implementation of escaping for better performance. Used instead of
 * the native Python implementation when compiled.
```

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\*/

Found in path(s):

\* /opt/cola/permits/1123974655\_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/\_speedups.c

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Metadata-Version: 1.2

Name: MarkupSafe

Version: 1.1.1

Summary: Safely add untrusted strings to HTML/XML markup.

Home-page: <https://palletsprojects.com/p/markupsafe/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: The Pallets Team

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

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Project-URL: Documentation, <https://markupsafe.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/markupsafe>

Project-URL: Issue tracker, <https://github.com/pallets/markupsafe/issues>

Description: MarkupSafe

=====

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing

-----

Install and update using `pip`_``:

.. code-block:: text

```
pip install -U MarkupSafe
```

.. `_pip`: <https://pip.pypa.io/en/stable/quickstart/>

Examples

-----

.. code-block:: pycon

```

>>> from markupsafe import Markup, escape
>>> # escape replaces special characters and wraps in Markup
>>> escape('<script>alert(document.cookie);</script>')
Markup(u'&lt;script&gt;alert(document.cookie);&lt;/script&gt;')
>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup('<strong>Hello</strong>')
Markup('<strong>hello</strong>')
>>> escape(Markup('<strong>Hello</strong>'))
Markup('<strong>hello</strong>')
>>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
>>> # methods and operators
escape their arguments
>>> template = Markup("Hello <em>%s</em>")
>>> template % "World"
Markup('Hello <em>&#34;World&#34;</em>')

```

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-----

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- \* Issue tracker:  
<https://github.com/pallets/markupsafe/issues>
- \* Test status:
  - \* Linux, Mac: <https://travis-ci.org/pallets/markupsafe>
  - \* Windows: <https://ci.appveyor.com/project/pallets/markupsafe>
- \* Test coverage: <https://codecov.io/gh/pallets/markupsafe>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers  
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Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python  
Classifier: Programming Language :: Python :: 2  
Classifier: Programming Language :: Python :: 2.7  
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Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Topic :: Internet :: WWW/HTTP  
:: Dynamic Content  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Classifier: Topic :: Text Processing :: Markup :: HTML  
Requires-Python: >=2.7,!=3.0.\*,!=3.1.\*,!=3.2.\*,!=3.3.\*

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\* /opt/cola/permits/1123974655\_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/\_\_init\_\_.py  
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# 1.608 mdadm 4.1-r0

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# 1.610 libidn 2.2.0-r0

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```
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*?)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status
:: 5 - Production/Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.5",
        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
```

```

"Programming Language :: Python :: 3.8",
"Programming Language :: Python :: Implementation :: CPython",
"Programming Language :: Python :: Implementation :: PyPy",
"Topic :: Internet :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext.babel_extract[i18n]"]},
)

```

Found in path(s):

\* /opt/cola/permits/1155142552\_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py

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Metadata-Version: 2.1

Name: Jinja2

Version: 2.11.2

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Documentation, <https://jinja.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/jinja>

Project-URL: Issue tracker, <https://github.com/pallets/jinja/issues>

Description: Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can

use autoescaping to prevent XSS from untrusted user input.

- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

## Installing

-----

Install and update using `pip`:

.. code-block:: text

```
$ pip install -U Jinja2
```

.. \_pip:

<https://pip.pypa.io/en/stable/quickstart/>

## In A Nutshell

-----

.. code-block:: jinja

```
{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
  {% for user in users %}
    <li><a href="{{ user.url }}">{{ user.username }}</a></li>
  {% endfor %}
</ul>
{% endblock %}
```

## Links

-----

- Website: <https://palletsprojects.com/p/jinja/>
- Documentation: <https://jinja.palletsprojects.com/>
- Releases: <https://pypi.org/project/Jinja2/>
- Code: <https://github.com/pallets/jinja>
- Issue tracker: <https://github.com/pallets/jinja/issues>
- Test status: [https://dev.azure.com/pallets/jinja/\\_build](https://dev.azure.com/pallets/jinja/_build)
- Official chat: <https://discord.gg/t6rrQZH>

Platform: UNKNOWN

Classifier: Development

Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Programming Language :: Python :: 3.8  
Classifier: Programming Language :: Python :: Implementation :: CPython  
Classifier: Programming Language :: Python :: Implementation :: PyPy  
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Classifier: Topic :: Text Processing :: Markup :: HTML  
Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*, !=3.4.\*  
Description-Content-Type:  
text/x-rst  
Provides-Extra: i18n

Found in path(s):

\* /opt/cola/permits/1155142552\_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKG-INFO

\* /opt/cola/permits/1155142552\_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO

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```
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AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>

Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch

Hardware I2C

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Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>

Ragnar Hojland Espinosa <ragnar@macula.net>

ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather

lists

\* (skb->atm.iovnt != 0) for Rx skb's passed to vcc->push.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
\* Fix is simple: make large buffers large enough to hold entire  
\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then  
\* copy small buffer contents to head of large buffer.  
\* Trick is to avoid fragmenting Linux, due to need for a lot of large  
\* buffers. This is done by 2 things:  
\* 1) skb->destructor / skb->atm.recycle\_buffer  
\* combined, allow nicstar\_free\_rx\_skb to be called to  
\* recycle large data buffers  
\* 2) skb\_clone of received buffers  
\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
\* details.

\*  
\*  
\*

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\*

\* M. Welsh, 6 July 1996

\*

\*

\*/

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for CyberLogin for Linux which allows logging onto EON  
(in case you are wondering where CyberLogin is, EON changed its login  
procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

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Upstream-Contact: Doug Ledford <dledford@redhat.com>,

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Source: <https://github.com/linux-rdma/rdma-core>

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Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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# 1.632 tftp-hpa 5.2-r0

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in path(s):

\* /opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c

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\*

/opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp/tftp.c

\* /opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-

2-1-tar-bz2/tftp-hpa-5.2/tftp/main.c

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* http://www.openbsd.org/.
*
* ----- */
```

Found in path(s):

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\* /opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h

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Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: 5.2

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp\_wrappers-devel

BuildRoot: %{\_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?\_smp\_mflags}

%install

rm -rf \${RPM\_BUILD\_ROOT}

mkdir -p \${RPM\_BUILD\_ROOT}%{\_bindir}

mkdir -p \${RPM\_BUILD\_ROOT}%{\_mandir}/man{1,8}

mkdir -p \${RPM\_BUILD\_ROOT}%{\_sbindir}

make INSTALLROOT=\${RPM\_BUILD\_ROOT} \

SBINDIR=%{\_sbindir} MANDIR=%{\_mandir} \

install

install -m755 -d \${RPM\_BUILD\_ROOT}%{\_sysconfdir}/xinetd.d/ \${RPM\_BUILD\_ROOT}/tftpboot

install -m644 tftp-xinetd \${RPM\_BUILD\_ROOT}%{\_sysconfdir}/xinetd.d/tftp

%post server

/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server

if [ \$1 = 0 ]; then

/sbin/service xinetd reload > /dev/null 2>&1 || :

fi

%clean

rm -rf \${RPM\_BUILD\_ROOT}

%files

%defattr(-,root,root)

%{\_bindir}/tftp

%{\_mandir}/man1/\*

%files



```
server
%defattr(-,root,root)
%config(noreplace) % {_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
% {_sbindir}/in.tftpd
% {_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun
21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29
```

- \* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
  
- \* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
  
- \* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)
  
- \* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.
  
- \* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one
  
- \* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x
  
- \* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update
  - to tftp-hpa-0.16
  
- \* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up eggs
  
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-l" to the man-page
  
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),
  
- \* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).
  
- \* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.

- %%post is needed by server, not client. Add %%postun for erasure as well.

\* Wed Aug 23 2000

Nalin Dahyabhai <nalin@redhat.com>

- default to being disabled

\* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>

- correct group.

\* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>

- change user from root to nobody

\* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>

- update to tftp-hpa-0.14 (#14003).

- add server\_args (#14003).

- remove -D\_BSD\_SOURCE (#14003).

\* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>

- cook up an xinetd config file for tftpd

\* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>

- automatic rebuild

\* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>

- FHS packaging.

- update to 0.17.

\* Fri May 5 2000 Matt Wilson <msw@redhat.com>

- use \_BSD\_SOURCE for hpa's tftpd so we get BSD signal semantics.

\* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>

- fix description

\* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>

- compress man pages (again).

\* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>

- man pages are compressed

- fix description and summary

\* Tue

Jan 4 2000 Bill Nottingham <notting@redhat.com>

- split client and server

\* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.16.

\* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.15.

\* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>  
- tftpd should truncate file when overwriting (#412)

\* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>  
- auto rebuild in the new build environment (release 22)

\* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>  
- compile for 6.0.

\* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>  
- build root

\* Mon Apr 27 1998 Prospector System <bugs@redhat.com>  
- translations modified for de, fr, tr

\* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>  
- added check for getpwnam() failure

\* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>  
- initial build

Found in path(s):

\* /opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp.spec

No license file was found, but licenses were detected in source scan.

```
/* *_c_*_ ----- *  
*  
* Copyright 2001-2006 H. Peter Anvin - All Rights Reserved  
*  
* This program is free software available under the same license  
* as the "OpenBSD" operating system, distributed at  
* http://www.openbsd.org/.  
*  
* ----- */
```

Found in path(s):

\* /opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/config.h

No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: @@VERSION@@

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp\_wrappers-devel

BuildRoot: %{\_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?\_smp\_mflags}

%install

rm -rf \${RPM\_BUILD\_ROOT}

mkdir -p \${RPM\_BUILD\_ROOT}%{\_bindir}

mkdir -p \${RPM\_BUILD\_ROOT}%{\_mandir}/man{1,8}

mkdir -p \${RPM\_BUILD\_ROOT}%{\_sbindir}

make INSTALLROOT=\${RPM\_BUILD\_ROOT} \

SBINDIR=%{\_sbindir} MANDIR=%{\_mandir} \

install

install -m755 -d \${RPM\_BUILD\_ROOT}%{\_sysconfdir}/xinetd.d/ \${RPM\_BUILD\_ROOT}/tftpboot

install -m644 tftp-xinetd \${RPM\_BUILD\_ROOT}%{\_sysconfdir}/xinetd.d/tftp

%post server

/sbin/service xinetd reload > /dev/null 2>&1 || :

```

%postun server
if [ $1 = 0 ]; then
    /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
server
%defattr(-,root,root)
%config(noreplace) % {_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

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- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

```

- \* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30
  
- \* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476
  
- \*
  - Fri Jun 21 2002 Tim Powers <timp@redhat.com>
    - automated rebuild
  
  - \* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
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  - \* Thu May 23 2002 Tim Powers <timp@redhat.com>
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  - \* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
    - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
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    - Bump release + rebuild.
  
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    - updated tftp-hpa source to tftp-hpa-0.17
    - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
    - use hpa's tftpd.8 man page instead of the netkits one
  
  - \* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
    - rebuilt in 7.1.x
  
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    - fix tftp client's put problems (#29529)
    - 
    - update to tftp-hpa-0.16
  
  - \* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
    - don't let configure to guess compiler, it can pick up egcs
  
  - \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
    - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)

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- added "-l" flag to hpa-tftpd for file-logging (#26467)
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- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
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- \* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
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- \* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody
  
- \* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server\_args (#14003).
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- \* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd
  
- \* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild
  
- \* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.
  
- \* Fri May 5 2000 Matt Wilson <maw@redhat.com>
- use \_BSD\_SOURCE for hpa's tftpd so we get BSD signal semantics.
  
- \* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description



\* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>

- compress man pages (again).

\* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>

- man pages are compressed

- fix description and summary

\*

Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>

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\* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>

- added check for getpwnam() failure

\* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>

- initial build

Found in path(s):

\* /opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp.spec.in

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/\* ----- \*/

\*

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\*

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\*  
\* ----- \*/

Found in path(s):

\* /opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.h

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Found in path(s):

\* /opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in

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Found in path(s):

\* /opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in

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 \*/

Found in path(s):

\* /opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp/extern.h  
 \*

/opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h

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```
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*
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*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
```

\* ----- \*/

Found in path(s):

\* /opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/misc.c

\* /opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/remap.c

\* /opt/cola/permits/1794445790\_1694515717.5994396/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/remap.h

## 1.633 xinetd 2.3.15-r2

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Modifications:

Version: 2.1.8.7-current

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Modifications:

Version: 2.1.8.7-current

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Sensor Addition

Version: 2.1.8.9pre14a

Copyright 2001 by Steve Grubb

This is an excerpt from an email I received from the original author, allowing xinetd as maintained by me, to use the higher version numbers:

I appreciate your maintaining the version string guidelines as specified in the copyright. But I did not mean them to last as long as they did.

So, if you want, you may use any 2.N.\* (N >= 3) version string for future xinetd versions that you release. Note that I am excluding the 2.2.\* line; using that would only create confusion. Naming the next release 2.3.0

would put to rest the confusion about 2.2.1 and 2.1.8.\*.

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# 1.634 yajl 2.1.0-r0

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# 1.635 python-backports-lzma 0.0.3-r0

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No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1

Name: backports.lzma

Version: 0.0.3

Summary: Backport of Python 3.3's 'lzma' module for XZ/LZMA compressed files.

Home-page: <https://github.com/peterjc/backports.lzma>

Author: Peter Cock, based on work by Nadeem Vawda and Per Oyvind Karlsen

Author-email: [p.j.a.cock@googlemail.com](mailto:p.j.a.cock@googlemail.com)

License: 3-clause BSD License

Description: This is a backport of the 'lzma' module included in Python 3.3 or later by Nadeem Vawda and Per Oyvind Karlsen, which provides a Python wrapper for XZ Utils (aka LZMA Utils v2) by Igor Pavlov.

In order to compile this, you will need to install XZ Utils from <http://tukaani.org/xz/>

Keywords: xz lzma compression decompression

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier:

Programming Language :: Python :: 3

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Intended Audience :: Developers



Classifier: License :: OSI Approved :: BSD License  
Classifier: Topic :: System :: Archiving :: Compression

Found in path(s):

\* /opt/cola/permits/177697609\_1695328042.9187105/0/python-backports-lzma-0-0-3-r0-tar-bz2/python-backports-lzma-0.0.3-r0/backports.lzma-0.0.3/PKG-INFO

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license='3-clause BSD License',  
'License :: OSI Approved :: BSD License',

Found in path(s):

\* /opt/cola/permits/177697609\_1695328042.9187105/0/python-backports-lzma-0-0-3-r0-tar-bz2/python-backports-lzma-0.0.3-r0/backports.lzma-0.0.3/setup.py

# 1.636 rapidjson 1.0.2-r0

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## 1.637 libsmi 0.5.0-r0

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-----  
lib/snprintf.c, lib/snprintf.h:

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-----  
tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.

Version: 1.1.2  
Entered-date: 23MAR97  
Description: C-functions for parsing command line options, both  
traditional one-character options, and GNU'ish  
--long-options.  
Keywords: programming, library, lib, commandline, options  
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)  
Primary-site: <http://www.ifi.uio.no/~sverrehu/pub-unix/>  
Alternate-site: [sunsite.unc.edu /pub/Linux/libs](http://sunsite.unc.edu/pub/Linux/libs)  
shhopt-1.1.2.tar.gz  
Platforms: Requires ANSI C-compiler.  
Copying-policy: BeerWare: If you have the time and  
money, send me a bottle  
of your favourite beer. If not, just send me a mail or  
something. Copy and use as you wish; just leave the  
author's name where you find it.

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## 1.638 email 4.0.2-r0

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No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0  
Name: email  
Version: 4.0.2  
Summary: Standalone email package  
Home-page: <http://www.python.org/sigs/email-sig>  
Author: Email SIG  
Author-email: [email-sig@python.org](mailto:email-sig@python.org)  
License: Python software Foundation  
Description: This is the standalone email package. This is a copy of what's available in  
Python but you may want to use the standalone version if you want the latest  
and greatest email package, even in older Pythons.  
Keywords: email  
Platform: UNKNOWN

Found in path(s):

\* /opt/cola/permits/177695388\_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email.egg-info/PKG-INFO

\* /opt/cola/permits/177695388\_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/PKG-INFO

No license file was found, but licenses were detected in source scan.

Return-Path: <[barry@python.org](mailto:barry@python.org)>  
Delivered-To: [barry@python.org](mailto:barry@python.org)  
Received: by mail.python.org (Postfix, from userid 889)

id C2BF0D37C6; Tue, 11 Sep 2001 00:05:05 -0400 (EDT)  
MIME-Version: 1.0  
Content-Type: multipart/mixed; boundary="h90VIIIKmx"  
Content-Transfer-Encoding: 7bit  
Message-ID: <15261.36209.358846.118674@anthem.python.org>  
From: barry@python.org (Barry A. Warsaw)  
To: barry@python.org  
Subject: a simple multipart  
Date: Tue, 11 Sep 2001 00:05:05 -0400  
X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid  
X-Attribution: BAW  
X-Oblique-Strategy: Make a door into a window

--h90VIIIKmx  
Content-Type: text/plain  
Content-Disposition: inline;  
filename="msg.txt"  
Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect upon our own

--h90VIIIKmx  
Content-Type: text/plain  
Content-Disposition: inline;  
filename="msg.txt"  
Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect  
upon our own

--h90VIIIKmx--

Found in path(s):  
\* /opt/cola/permits/177695388\_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email/test/data/msg\_04.txt  
No license file was found, but licenses were detected in source scan.

Return-Path: <barry@python.org>  
Delivered-To: barry@python.org  
Received: by mail.python.org (Postfix, from userid 889)  
id C2BF0D37C6; Tue, 11 Sep 2001 00:05:05 -0400 (EDT)  
MIME-Version: 1.0  
Content-Type: multipart/mixed; boundary="h90VIIIKmx"  
Content-Transfer-Encoding: 7bit  
Message-ID: <15261.36209.358846.118674@anthem.python.org>

From: barry@python.org (Barry A. Warsaw)  
To: barry@python.org  
Subject: a simple multipart  
Date: Tue, 11 Sep 2001 00:05:05 -0400  
X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid  
X-Attribution: BAW  
X-Oblique-Strategy: Make a door into a window

--h90VIIIKmx  
Content-Type: text/plain  
Content-Disposition: inline; name="msg.txt"  
Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect upon our own

--h90VIIIKmx  
Content-Type: text/plain  
Content-Disposition: inline; name="msg.txt"  
Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect upon our  
own

--h90VIIIKmx--

Found in path(s):  
\* /opt/cola/permits/177695388\_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email/test/data/msg\_44.txt  
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Return-Path: <barry@python.org>  
Delivered-To: barry@python.org  
MIME-Version: 1.0  
Content-Type: message/rfc822  
Content-Description: forwarded message  
Content-Transfer-Encoding: 7bit  
Message-ID: <15265.9482.641338.555352@python.org>  
From: barry@zope.com (Barry A. Warsaw)  
Sender: barry@python.org  
To: barry@python.org  
Subject: forwarded message from Barry A. Warsaw  
Date: Thu, 13 Sep 2001 17:28:42 -0400  
X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid  
X-Attribution: BAW  
X-Oblique-Strategy: Be dirty

X-Url: <http://barry.wooz.org>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Return-Path: <barry@python.org>

Delivered-To: barry@python.org

Message-ID: <15265.9468.713530.98441@python.org>

From: barry@zope.com (Barry A. Warsaw)

Sender: barry@python.org

To: barry@python.org

Subject: testing

Date: Thu, 13 Sep 2001 17:28:28 -0400

X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence"

XEmacs Lucid

X-Attribution: BAW

X-Oblique-Strategy: Spectrum analysis

X-Url: <http://barry.wooz.org>

Found in path(s):

\* /opt/cola/permits/177695388\_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email/test/data/msg\_06.txt

# 1.639 python-iso8601 0.1.12-r0

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# 1.640 tipcconfig 2.0.6-r0

## 1.641 golang 1.10.3-r0

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```
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# http://code.google.com/legal/individual-cla-v1.0.html
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Alex Jin <toalexjin@gmail.com>  
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Alex Vaghin <crhyme@google.com>  
Alexander Demakin <alexander.demakin@gmail.com>  
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Andrea Spadaccini <spadaccio@google.com>  
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Andrew Ekstedt <andrew.ekstedt@gmail.com>  
Andrew Etter <andrew.etter@gmail.com>  
Andrew Gerrand <adg@golang.org>  
Andrew Harding <andrew@spacemonkey.com>  
Andrew Jackura <ajackura@google.com>  
Andrew Lutomirski <andy@luto.us>  
Andrew Pilloud <andrewpilloud@igneoussystem.com>  
Andrew Pogrebnoy <absourd.noise@gmail.com>  
Andrew Pritchard <awpritchard@gmail.com>  
Andrew Radev <andrey.radev@gmail.com>  
Andrew Skiba <skibaa@gmail.com>  
Andrew Szeto <andrew@jabagawee.com>  
Andrew  
Werner <andrew@upthere.com> <awerner32@gmail.com>  
Andrew Wilkins <axwalk@gmail.com>  
Andrew Williams <williams.andrew@gmail.com>  
Andrey Mirtchovski <mirtchovski@gmail.com>  
Andrey Petrov <andrey.petrov@shazow.net>  
Andrii Soldatenko <andrii.soldatenko@gmail.com>  
Andrii Soluk <isoluchok@gmail.com>  
Andriy Lytvynov <lytvynov.a.v@gmail.com>  
Andrzej eel <andrii.zhezhel@gmail.com>  
Andy Balholm <andy@balholm.com>  
Andy Davis <andy@bigandian.com>  
Andy Finkenstadt <afinkenstadt@zynga.com>  
Andy Maloney <asmaloney@gmail.com>  
Andy Walker <walkeraj@gmail.com>  
Anfernee Yongkun Gui <anfernee.gui@gmail.com>  
Angelo Bulfone <mbulfone@gmail.com>  
Anh Hai Trinh <anh.hai.trinh@gmail.com>  
Anmol Sethi <anmol@aubble.com>  
Anschel Schaffer-Cohen <anschelsc@gmail.com>  
Anthony Alves <cvballa3g0@gmail.com>  
Anthony Canino <anthony.canino1@gmail.com>  
Anthony Eufemio <anthony.eufemio@gmail.com>  
Anthony Martin <ality@pbrane.org>  
Anthony Sottile <asottile@umich.edu>  
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# 1.642 unzip 6.0-r5

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FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

-----

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko

(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding in an apparatus that performs LZW encoding, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip

5.42, the complete

core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.

For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
```

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\* MacBinaryIII.h

\*

\* Copyright 1997 Christopher Evans (cevens@poppybank.com)

\*

\* Basic encoding and decoding of Macintosh files to the

\* MacBinary III spec.

\* -----

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\* (available at [ftp://ftp.lazerware.com/MacBinaryIII\\_src\\_C.sit](ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit)

\* homepage of Leonard Rosenthol [leonardr@netcom.com](mailto:leonardr@netcom.com))

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

-----

# 1.643 python-pyserial 3.4-r0

## 1.643.1 Available under license :

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## 1.649 stunservers 1.2.15-r0

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## 1.651 python-ipaddress 1.0.22-r0

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## 1.652 ca-certificates 20190110-r0

## 1.653 libhugetlbfs 2.21-r0



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