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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>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License along  
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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
```

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:

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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Version 2.1, February 1999

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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.

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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 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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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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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.

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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.

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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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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```
<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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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!

This package was debianized by Nathan Scott nathans@debian.org on Tue, 26 Feb 2002 13:25:26 +1100

It can be downloaded from <ftp://acl.bestbits.at/>

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## 1.2 acl - libraries 2.2.49 :6.e16

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- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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 Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) 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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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code distributed need not include



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## 1.12 authconfig 6.1.12 :23.el6

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## 1.13 avahi 0.6.25 :15.e16

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```
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!

```

#!/bin/sh

# $Id$
#
# This file is part of avahi.
#
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# License along with avahi; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
# USA.

set -e

# Command line arguments:
# $1 event that happened:
#   BIND:   Successfully claimed address
#   CONFLICT: An IP address conflict happened
#   UNBIND: The IP address is no longer needed
#   STOP:   The daemon is terminating
# $2 interface name
# $3 IP address

# We have the BSD ifconfig tool

case "$1" in
BIND)
    ifconfig "$2" "$3"/16
    ;;

CONFLICT|STOP|UNBIND)
    ifconfig "$2" "$3"/16 delete
    ;;

*)
    echo "Unknown event $1" >&2
    exit 1
    ;;
esac

```

exit 0

# 1.14 aws-sign 0.3.0

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```
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```

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Ty Coon, President of Vice
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```
/*
```

```
* Opensource firmware for BCM43xx devices with Wireless-Core Revision 5
```

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*
```

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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 ESMTTP  
(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  
to work with bash-2.0. Does ORA have any problem with me distributing  
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).

-----

From spcedt@armory.com Wed May 10 10:21:11 1995  
Flags: 10  
Return-Path: spcedt@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 spcedt@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 spcedt@armory.com for <chet@po.cwru.edu>)  
From: John DuBois <spcedt@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@deepthought.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
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 ESMTP
(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. :-)

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```
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```

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From spcedt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: spcedt@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 spcedt@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 spcedt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <spcedt@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
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  
to work with bash-2.0. Does ORA have any problem with me distributing  
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).

-----

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 ESMTP  
(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. :-)

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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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(12) Jon Beniston (only lm32-\* targets)

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Ty Coon, President of Vice

That's all there is to it!  
(This file is under construction.) -\*- text -\*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into



the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

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.

## 1.21 boom 0.4.2

### 1.21.1 Available under license :

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## 1.22 boost 1.53.0

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--- end ---

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

/\*

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Return-Path: <gsf@research.att.com>

X-Original-To: mps@bridge.intra

Delivered-To: mps@bridge.intra

Received: from localhost (localhost [127.0.0.1])

by localhost (Postfix) with ESMTP id B8C814E4F

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)

Received: from mail.bridge.intra ([127.0.0.1])

by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)

with LMTP id 05987-03 for <mps@bridge.intra>;

Wed, 1 Mar 2006 20:30:42 +0100 (CET)

Received: from pop.gmx.net (localhost [127.0.0.1])

by mail.bridge.intra (Postfix) with ESMTP id C8C73794D

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)

X-Flags: 0000

Delivered-To: GMX delivery to ps.m@gmx.net

Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000

Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]

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by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB

for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)

Received: (from gsf@localhost)

by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112

for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)

Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)

From: Glenn Fowler <gsf@research.att.com>

Message-Id: <200603011923.OAA86112@raptor.research.att.com>

Organization: AT&T Research

X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>

To: mps@bridge.intra

Subject: Re: testregex licensing question

X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)

X-GMX-Antispam: 0 (Mail was not recognized as spam)

X-GMX-UID: IJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca

X-Virus-Scanned: by amavisd-new at localhost

Status: RO

X-Status:

X-Keywords:  
X-UID: 44736

you may include it directly  
retain the testregex.c header comment  
it uses a very free license to maximize distribution  
you can copy that .c comment to any test data files you use  
using # comment style to be complete

let me know how it works with your libc  
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:

> Hello Glenn!

> I would want to add testregex.c and the related \*.dat files to the uClibc  
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any  
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite  
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --

> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2  
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2

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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 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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## 1.24 bzip2 1.0.5 :7.el6\_0

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.5 of 10 December 2007  
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bzip2/libbzip2 version 1.0.5 of 10 December 2007  
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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

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```

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```

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```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.29 checkpolicy 2.0.22 :1.el6

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```
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.
```

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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 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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# 1.30 chkconfig 1.3.49.5 :1.e16

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Version 2, June 1991

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## 1.39 cpio 2.10 :12.el6\_5

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```
<program> Copyright (C) <year> <name of author>
```

```
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```

```
This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.
```

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## 1.40 cracklib 2.8.16 :4.e16

## 1.40.1 Available under license :

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Version 2.1, February 1999

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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.

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<one line to give the library's name and a brief idea of what it

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

That's all there is to it!

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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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,  
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

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

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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. 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...)

-----

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...](mailto: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,

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> 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

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> > it was enough to just get it consistent and documented as to what

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> 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:

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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:

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the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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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:

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Nathan Neulinger is the only one who can actually make said change ...

-mike

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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.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 I91Gxtpr020623  
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=  
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

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Attachments: Message as HTML

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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

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Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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-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.

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Mon, 1 Oct 2007 12:26:02 -0500  
Received: (gmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
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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  
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X-Mailer: Apple Mail (2.752.2)  
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Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
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> 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

## 1.41 cracklib-dicts 2.8.16 :4.el6

### 1.41.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE  
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
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.]

## Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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.

When we speak of free software, we are referring to freedom of use, 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 and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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.

^L

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.

^L

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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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(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.

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^L

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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.

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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 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.

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.

^L

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.

b) Give prominent notice with the combined library of the fact

that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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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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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!

-----  
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=  
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

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.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (gmail 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

>  
> ----- 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

## 1.42 cronie 1.4.4 :16.el6\_8.2

### 1.42.1 Available under license :

```
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## <H2 CLASS="title"><A NAME="EXCEPTIONS">License Exceptions</A></H2>

<P>In addition, as the copyright holder of CUPS, Apple Inc. grants the following special exceptions:</P>

<OL>

<LI><B>Apple Operating System Development License Exception</B>;

<OL TYPE="a">

<LI>Software that is developed by any person or entity for an Apple Operating System ("Apple OS-Developed Software"), including but not limited to Apple and third party printer drivers, filters, and backends for an Apple Operating System, that is linked to the CUPS imaging library or based on any sample filters or backends provided with CUPS shall not be considered to be a derivative work or collective work based on the CUPS program and is exempt from the mandatory source code release clauses of the GNU GPL. You may therefore distribute linked combinations of the CUPS imaging library with Apple OS-Developed Software without releasing the source code of the Apple OS-Developed Software. You may also use sample filters and backends provided with CUPS to develop Apple OS-Developed Software without releasing the source code of the Apple OS-Developed Software.</LI>

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<LI>All CUPS software that falls under this license exception have the following text at the top of each source file:

<BLOCKQUOTE>This file is subject to the Apple OS-Developed Software exception.</BLOCKQUOTE></LI>

</OL>

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<OL TYPE="a">

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</OL>

</OL>

<P>No developer is required to provide these exceptions in a derived work.</P>

## <H2 CLASS="title"><A NAME="KERBEROS">Kerberos Support Code</A></H2>

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<TT>HAVE\_GSSAPI</TT> preprocessor definition.</P>

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<OL>

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<LI>This notice may not be removed or altered from any source distribution.</LI>

</OL>

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<H2 CLASS="title"><A NAME="GPL">GNU GENERAL PUBLIC LICENSE</A></H2>

<P>Version 2, June 1991

<PRE>

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</PRE>

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<P>Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any

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

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<OL START="0">

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<OL TYPE="a">

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</OL>

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<OL TYPE="a">

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</OL>

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<OL START="11">

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<PRE>

```
<VAR>one line to give the program's name and an idea of what it does.</VAR>
Copyright (C) <VAR>yyyy</VAR> <VAR>name of author</VAR>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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</PRE>

<P>Also add information on how to contact you by electronic and paper mail.

<P>If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

<PRE>

```
Gnomovision version 69, Copyright (C) <VAR>year</VAR> <VAR>name of author</VAR>
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.
```

</PRE>

<P>The hypothetical commands <SAMP>`show w'</SAMP> and <SAMP>`show c'</SAMP> should show

the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `<SAMP>`show w'</SAMP>` and `<SAMP>`show c'</SAMP>`; they could even be mouse-clicks or menu items--whatever suits your program.

`<P>`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:

```
<PRE>
Yoyodyne, Inc., hereby disclaims all copyright
interest in the program `Gnomovision'
(which makes passes at compilers) written
by James Hacker.
```

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

`<H2 CLASS="title"><A NAME="LGPL">GNU LIBRARY GENERAL PUBLIC LICENSE</A></H2>`

`<P>`Version 2, June 1991

```
<PRE>
Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
```

```
[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]
</PRE>
```

`<H3>Preamble</H3>`

`<P>`The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

`<P>`This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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<P>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

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<P>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.

<P>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.

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<P>"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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<OL TYPE="a">

<LI>The modified work must itself be a software library.

<P>

<LI>You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

<P>

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<P>

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<P>(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.)

</OL>

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<P>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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<P><STRONG>5.</STRONG>

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<P>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.)

<P>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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<P>

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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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"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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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.

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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 work of the Library, and therefore falls outside the scope of this License.

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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

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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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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

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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.>

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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!

```
{\rtf1\ansi\ansicpg1252\cocoartf1011
```

```
{\fonttbl{\f0\froman\charset0 Times-Roman;\f1\fnil\charset0 LucidaGrande;\f2\modern\charset0 Courier;\f3\modern\charset0 Courier-Oblique;}
```

```
{\colortbl;\red255\green255\blue255;\red0\green0\blue238;}
```

```
{\*\listtable{\list\listtemplateid1\listhybrid{\listlevel\levelnfc23\levelnfcn23\leveljcn0\leveljcn0\levelfollow0\levelstartat1\levelspace360\levelindent0{\*\levelmarker \{disc\}}{\leveltext\leveltemplateid1\01\uc0\u8226
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{\list\listtemplateid2\listhybrid{\listlevel\levelnfc0\levelnfcn0\leveljcn0\leveljcn0\levelfollow0\levelstartat1\levelspace360\levelindent0{\*\levelmarker \{decimal\}.}{\leveltext\leveltemplateid101\02\00.}{\levelnumbers\01;}\fi-360\li720\lin720
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}{\listlevel\levelnfc0\levelnfcn0\leveljcn0\leveljcn0\levelfollow0\levelstartat1\levelspace360\levelindent0{\*\levelmarker \{decimal\}.}{\leveltext\leveltemplateid102\02\01.}{\levelnumbers\01;}\fi-360\li1440\lin1440 }{\listname ;}\listid2 }
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\f0 1 Infinite Loop  
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\f0 Cupertino, CA 95014 USA  
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\b\fs28 \cf0 Introduction\  
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\ls2\ilvl0

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\ls2\ilvl1\cf0 {\listtext 1. }Apple Inc. explicitly allows the compilation and distribution of the CUPS software with the OpenSSL Toolkit.\

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\ls3\ilvl0\cf0 {\listtext 10. }The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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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\f3\i \cf0 one line to give the program's name and an idea of what it does.

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\f3\i name of author

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[This is the first released version of the library GPL. It is\  
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\f0\b \cf0 Preamble\  
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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.\

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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.\

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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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\ls5\ilvl0\cf0 {\listtext 1. }The modified work must itself be a software library.\

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\ls5\ilvl0\cf0 {\listtext 2. }\

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\ls5\ilvl0\cf0 {\listtext 4. }\

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\ls5\ilvl0\cf0 {\listtext 7. }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.\

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\ls5\ilvl0\cf0 {\listtext 8. }(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.\

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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.\

\b 5.

\b0 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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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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\ls6\ilvl0\cf0 {\listtext 2. }\

\pard\tx220\tx720\pardefstab720\li720\fi-720\ql\qnatural  
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\ls6\ilvl0\cf0 {\listtext 4. }\

\pard\tx220\tx720\pardefstab720\li720\fi-720\ql\qnatural  
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\pard\tx220\tx720\pardefstab720\li720\fi-720\sa240\ql\qnatural  
\ls6\ilvl0\cf0 {\listtext 6. }\

\pard\tx220\tx720\pardefstab720\li720\fi-720\ql\qnatural  
\ls6\ilvl0\cf0 {\listtext 7. }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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\ls7\ilvl0\cf0 {\listtext 2. }\

\pard\tx220\tx720\pardefstab720\li720\fi-720\ql\qnatural

\ls7\ilvl0\cf0 {\listtext 3. }Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.\

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\pard\pardefstab720\sa240\ql\qnatural

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```

\f3|i \cf0 one line to give the library's name and an idea of what it does.
\f2|i0 \
Copyright (C)
\f3|i year
\f2|i0
\f3|i name of author
\f2|i0 \
\
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by James Random Hacker.\
\
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\f3|i \cf0 signature of Ty Coon
\f2|i0 , 1 April 1990\
Ty Coon, President of Vice\
\pard\pardefstab720\sa240\ql\qnatural

\f0 \cf0 That's all there is to it!\
}
dnl
dnl "$Id: cups-sharedlibs.m4 8344 2009-02-10 17:05:35Z mike $"
dnl
dnl Shared library support for the Common UNIX Printing System (CUPS).
dnl
dnl Copyright 2007-2009 by Apple Inc.

```

dnl Copyright 1997-2005 by Easy Software Products, all rights reserved.  
dnl  
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dnl file is missing or damaged, see the license at "<http://www.cups.org/>".  
dnl

PICFLAG=1

DSOFLAGS="{DSOFLAGS:=}"

AC\_ARG\_ENABLE(shared, [ --disable-shared do not create shared libraries])

if test x\$enable\_shared != xno; then

case "\$uname" in

SunOS\*)

LIBCUPS="libcups.so.2"

LIBCUPSCGI="libcupscgi.so.1"

LIBCUPSDRIVER="libcupsdriver.so.1"

LIBCUPSIMAGE="libcupsimage.so.2"

LIBCUPSMIME="libcupsmime.so.1"

LIBCUPSPPDC="libcupsppdc.so.1"

DSO="\\$(CC)"

DSOXX="\\$(CXX)"

DSOFLAGS="\$DSOFLAGS -Wl,-h\`basename \@ \` -G \\$(OPTIM)"

::

UNIX\_S\*)

LIBCUPS="libcups.so.2"

LIBCUPSCGI="libcupscgi.so.1"

LIBCUPSDRIVER="libcupsdriver.so.1"

LIBCUPSIMAGE="libcupsimage.so.2"

LIBCUPSMIME="libcupsmime.so.1"

LIBCUPSPPDC="libcupsppdc.so.1"

DSO="\\$(CC)"

DSOXX="\\$(CXX)"

DSOFLAGS="\$DSOFLAGS -Wl,-h\`basename \@ \` -G \\$(OPTIM)"

::

HP-UX\*)

case "\$sarch" in

ia64)

LIBCUPS="libcups.so.2"

LIBCUPSCGI="libcupscgi.so.1"

LIBCUPSDRIVER="libcupsdriver.so.1"

LIBCUPSIMAGE="libcupsimage.so.2"

LIBCUPSMIME="libcupsmime.so.1"

LIBCUPSPPDC="libcupsppdc.so.1"

DSO="\\$(CC)"

```

DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -Wl,-b,-z,+h,\`basename \${@}\`"
;;
*)
LIBCUPS="libcups.sl.2"
LIBCUPSCGI="libcupscgi.sl.1"
LIBCUPSDRIVER="libcupsdriver.sl.1"
LIBCUPSIMAGE="libcupsimage.sl.2"
LIBCUPSMIME="libcupsmime.sl.1"
LIBCUPSPPDC="libcupsppdc.sl.1"
DSO="\$(LD)"
DSOXX="\$(LD)"
DSOFLAGS="$DSOFLAGS -b -z +h \`basename \${@}\`"
;;
esac
;;
IRIX)
LIBCUPS="libcups.so.2"
LIBCUPSCGI="libcupscgi.so.1"
LIBCUPSDRIVER="libcupsdriver.so.1"
LIBCUPSIMAGE="libcupsimage.so.2"
LIBCUPSMIME="libcupsmime.so.1"
LIBCUPSPPDC="libcupsppdc.so.1"
DSO="\$(CC)"
DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -set_version,sgi2.6,-soname,\`basename \${@}\` -shared \$(OPTIM)"
;;
OSF1* | Linux | GNU | *BSD*)
LIBCUPS="libcups.so.2"
LIBCUPSCGI="libcupscgi.so.1"
LIBCUPSDRIVER="libcupsdriver.so.1"
LIBCUPSIMAGE="libcupsimage.so.2"
LIBCUPSMIME="libcupsmime.so.1"
LIBCUPSPPDC="libcupsppdc.so.1"
DSO="\$(CC)"
DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -Wl,-soname,\`basename \${@}\` -shared \$(OPTIM)"
;;
Darwin*)
LIBCUPS="libcups.2.dylib"
LIBCUPSCGI="libcupscgi.1.dylib"
LIBCUPSDRIVER="libcupsdriver.1.dylib"
LIBCUPSIMAGE="libcupsimage.2.dylib"
LIBCUPSMIME="libcupsmime.1.dylib"
LIBCUPSPPDC="libcupsppdc.1.dylib"
DSO="\$(CC)"
DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -dynamiclib -single_module -lc"

```

```

;;
AIX*)
LIBCUPS="libcups_s.a"
LIBCUPSCGI="libcupscgi_s.a"
LIBCUPSDRIVER="libcupsdriver_s.a"
LIBCUPSIMAGE="libcupsimage_s.a"
LIBCUPSMIME="libcupsmime_s.a"
LIBCUPSPPDC="libcupsppdc_s.a"
DSO="\$(CC)"
DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -Wl,-bexpall,-bM:SRE,-bnoentry,-blibpath:\$(libdir)"
;;
*)
echo "Warning: shared libraries may not be supported. Trying -shared"
echo "    option with compiler."
LIBCUPS="libcups.so.2"
LIBCUPSCGI="libcupscgi.so.1"
LIBCUPSDRIVER="libcupsdriver.so.1"
LIBCUPSIMAGE="libcupsimage.so.2"
LIBCUPSMIME="libcupsmime.so.1"
LIBCUPSPPDC="libcupsppdc.so.1"
DSO="\$(CC)"
DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -Wl,-soname,\`basename \@ \` -shared \$(OPTIM)"
;;
esac
else
PICFLAG=0
LIBCUPS="libcups.a"
LIBCUPSCGI="libcupscgi.a"
LIBCUPSDRIVER="libcupsdriver.a"
LIBCUPSIMAGE="libcupsimage.a"
LIBCUPSMIME="libcupsmime.a"
LIBCUPSPPDC="libcupsppdc.a"
DSO=":"
DSOXX=":"
fi

# 32-bit and 64-bit libraries need variations of the standard
# DSOFLAGS...
DSO32FLAGS="$DSOFLAGS"
DSO64FLAGS="$DSOFLAGS"

AC_SUBST(DSO)
AC_SUBST(DSOXX)
AC_SUBST(DSOFLAGS)
AC_SUBST(DSO32FLAGS)
AC_SUBST(DSO64FLAGS)

```

```
AC_SUBST(LIBCUPS)
AC_SUBST(LIBCUPSCGI)
AC_SUBST(LIBCUPSDRIVER)
AC_SUBST(LIBCUPSIMAGE)
AC_SUBST(LIBCUPSMIME)
AC_SUBST(LIBCUPSPDC)
```

```
if test x$enable_shared = xno; then
  LINKCUPS="./cups/libcups.a"
  LINKCUPSIMAGE="./filter/libcupsimage.a"
else
  if test $uname = AIX; then
    LINKCUPS="-lcups_s"
    LINKCUPSIMAGE="-lcupsimage_s"
  else
    LINKCUPS="-lcups"
    LINKCUPSIMAGE="-lcupsimage"
  fi
fi
```

```
AC_SUBST(LINKCUPS)
AC_SUBST(LINKCUPSIMAGE)
```

```
dnl Update libraries for DSOs...
EXPORT_LDFLAGS=""
```

```
if test "$DSO" != ":"; then
  # When using DSOs the image libraries are linked to libcupsimage.so
  # rather than to the executables. This makes things smaller if you
  # are using any static libraries, and it also allows us to distribute
  # a single DSO rather than a bunch...
  DSOLIBS="\$(LIBTIFF) \$(LIBPNG) \$(LIBJPEG) \$(LIBZ)"
  IMGLIBS=""
```

```
# Tell the run-time linkers where to find a DSO. Some platforms
# need this option, even when the library is installed in a
# standard location...
```

```
case $uname in
  HP-UX*)
    # HP-UX needs the path, even for /usr/lib...
    case "$sarch" in
      ia64)
        DSOFLAGS="-Wl,+s,+b,$libdir $DSOFLAGS"
        DSO32FLAGS="-Wl,+s,+b,$LIB32DIR $DSO32FLAGS"
        DSO64FLAGS="-Wl,+s,+b,$LIB64DIR $DSO64FLAGS"
        ;;
      *)
        DSOFLAGS="+s +b $libdir $DSOFLAGS"
```

```

        DSO32FLAGS="+s +b $LIB32DIR $DSO32FLAGS"
        DSO64FLAGS="+s +b $LIB64DIR $DSO64FLAGS"
;;
esac
        LDFLAGS="$LDFLAGS -Wl,+s,+b,$libdir"
        EXPORT_LDFLAGS="-Wl,+s,+b,$libdir"
;;
        SunOS*)
            # Solaris...
            if test $exec_prefix != /usr; then
                DSOFLAGS="-R$libdir $DSOFLAGS"
                DSO32FLAGS="-R$LIB32DIR $DSO32FLAGS"
                DSO64FLAGS="-R$LIB64DIR $DSO64FLAGS"
                LDFLAGS="$LDFLAGS -R$libdir"
                EXPORT_LDFLAGS="-R$libdir"
            fi
;;
        *BSD*)
            # *BSD...
            if test $exec_prefix != /usr; then
                DSOFLAGS="-Wl,-R$libdir $DSOFLAGS"
                DSO32FLAGS="-Wl,-R$LIB32DIR $DSO32FLAGS"
                DSO64FLAGS="-Wl,-R$LIB64DIR $DSO64FLAGS"
                LDFLAGS="$LDFLAGS -Wl,-R$libdir"
                EXPORT_LDFLAGS="-Wl,-R$libdir"
            fi
;;
        IRIX | Linux | GNU)
            # IRIX, Linux, and HURD...
            if test $exec_prefix != /usr; then
                DSOFLAGS="-Wl,-rpath,$libdir $DSOFLAGS"
                DSO32FLAGS="-Wl,-rpath,$LIB32DIR $DSO32FLAGS"
                DSO64FLAGS="-Wl,-rpath,$LIB64DIR $DSO64FLAGS"
                LDFLAGS="$LDFLAGS -Wl,-rpath,$libdir"
                EXPORT_LDFLAGS="-Wl,-rpath,$libdir"
            fi
;;
esac
else
    DSOLIBS=""
    IMGLIBS="\$(LIBTIFF) \$(LIBPNG) \$(LIBJPEG) \$(LIBZ)"
fi

AC_SUBST(DSOLIBS)
AC_SUBST(IMGLIBS)
AC_SUBST(EXPORT_LDFLAGS)

dnl

```

```

dnl End of "$Id: cups-sharedlibs.m4 8344 2009-02-10 17:05:35Z mike $".
dnl
/*
 * "$Id: cupsfilter.c 8700 2009-06-05 21:38:52Z mike $"
 *
 * CUPS filtering program for the Common UNIX Printing System (CUPS).
 *
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 *
 * Contents:
 *
 * main() - Main entry for the test program.
 * compare_pids() - Compare two filter PIDs...
 * escape_options() - Convert an options array to a string.
 * exec_filter() - Execute a single filter.
 * exec_filters() - Execute filters for the given file and options.
 * get_job_file() - Get the specified job file.
 * open_pipe() - Create a pipe which is closed on exec.
 * read_cupsd_conf() - Read the cupsd.conf file to get the filter settings.
 * set_string() - Copy and set a string.
 * usage() - Show program usage...
 */

/*
 * Include necessary headers...
 */

#include <cups/cups.h>
#include <cups/i18n.h>
#include <cups/string.h>
#include <errno.h>
#include "mime.h"
#include <stdlib.h>
#include <limits.h>
#include <unistd.h>
#include <fcntl.h>
#include <signal.h>
#include <sys/wait.h>
#if defined(__APPLE__)
# include <libgen.h>
#endif /* __APPLE__ */

```

```

/*
* Local globals...
*/

static char *DataDir = NULL; /* CUPS_DATADIR environment variable */
static char *FontPath = NULL;
    /* CUPS_FONTPATH environment variable */
static mime_filter_t GZIPFilter = /* gziptoany filter */
{
    NULL, /* Source type */
    NULL, /* Destination type */
    0, /* Cost */
    "gziptoany" /* Filter program to run */
};
static char *Path = NULL; /* PATH environment variable */
static char *ServerBin = NULL;
    /* CUPS_SERVERBIN environment variable */
static char *ServerRoot = NULL;
    /* CUPS_SERVERROOT environment variable */
static char *RIPCache = NULL;
    /* RIP_CACHE environment variable */
static char TempFile[1024] = "";
    /* Temporary file */

/*
* Local functions...
*/

static void add_printer_filter(const char *command, mime_t *mime,
    mime_type_t *printer_type,
    const char *filter);
static mime_type_t *add_printer_filters(const char *command,
    mime_t *mime, const char *printer,
    const char *ppdfilename,
    mime_type_t **prefilter_type);
static int compare_pids(mime_filter_t *a, mime_filter_t *b);
static char *escape_options(int num_options, cups_option_t *options);
static int exec_filter(const char *filter, char **argv,
    char **envp, int infd, int outfd);
static int exec_filters(mime_type_t *srctype,
    cups_array_t *filters, const char *infile,
    const char *outfile, const char *ppdfilename,
    const char *printer, const char *user,
    const char *title, int num_options,
    cups_option_t *options);

```



```

static void get_job_file(const char *job);
static int open_pipe(int *fds);
static int read_cupsd_conf(const char *filename);
static void set_string(char **s, const char *val);
static void sighandler(int sig);
static void usage(const char *command, const char *opt);

/*
 * 'main()' - Main entry for the test program.
 */

int /* O - Exit status */
main(int argc, /* I - Number of command-line args */
      char *argv[]) /* I - Command-line arguments */
{
    int i; /* Looping vars */
    const char *command, /* Command name */
              *opt, /* Current option */
              *printer; /* Printer name */
    mime_type_t *printer_type, /* Printer MIME type */
              *prefilter_type; /* Printer prefilter MIME type */
    char *srctype, /* Source type */
          *dsttype, /* Destination type */
          super[MIME_MAX_SUPER], /* Super-type name */
          type[MIME_MAX_TYPE]; /* Type name */
    int compression; /* Compression of file */
    int cost; /* Cost of filters */
    mime_t *mime; /* MIME database */
    char mimedir[1024]; /* MIME directory */
    char *infile, /* File to filter */
          *outfile; /* File to create */
    char cupsdconf[1024]; /* cupsd.conf file */
    const char *server_root; /* CUPS_SERVERROOT environment variable */
    mime_type_t *src, /* Source type */
              *dst; /* Destination type */
    cups_array_t *filters; /* Filters for the file */
    int num_options; /* Number of options */
    cups_option_t *options; /* Options */
    const char *ppdfile; /* PPD file */
    const char *title, /* Title string */
              *user; /* Username */
    int all_filters, /* Use all filters */
        removeppd, /* Remove PPD file */
        removeinfile; /* Remove input file */
    int status; /* Execution status */

```

```

/*
 * Setup defaults...
 */

if ((command = strchr(argv[0], '/')) != NULL)
    command ++;
else
    command = argv[0];

printer = !strcmp(command, "convert") ? "tofile" : "cupsfilter";
mime     = NULL;
srctype  = NULL;
compression = 0;
dsttype  = "application/pdf";
infile   = NULL;
outfile  = NULL;
num_options = 0;
options  = NULL;
ppdfile  = NULL;
title    = NULL;
user     = cupsUser();
all_filters = 0;
removeppd = 0;
removeinfile = 0;

if ((server_root = getenv("CUPS_SERVERROOT")) == NULL)
    server_root = CUPS_SERVERROOT;

snprintf(cupsdconf, sizeof(cupsdconf), "%s/cupsd.conf", server_root);

/*
 * Process command-line arguments...
 */

_cupsSetLocale(argv);

for (i = 1; i < argc; i++)
    if (argv[i][0] == '-')
    {
        for (opt = argv[i] + 1; *opt; opt++)
            switch (*opt)
            {
                case '-': /* Next argument is a filename... */
                    i++;
                    if (i < argc && !infile)
                        infile = argv[i];
                    else
                        usage(command, opt);
            }
    }

```

```

break;

    case 'a' : /* Specify option... */
i ++;
if (i < argc)
    num_options = cupsParseOptions(argv[i], num_options, &options);
else
    usage(command, opt);
break;

    case 'c' : /* Specify cupsd.conf file location... */
i ++;
if (i < argc)
{
    if (!strcmp(command, "convert"))
num_options = cupsAddOption("copies", argv[i], num_options,
    &options);
else
strcpy(cupsdconf, argv[i], sizeof(cupsdconf));
}
else
    usage(command, opt);
break;

case 'D' : /* Delete input file after conversion */
removeinfile = 1;
break;

    case 'e' : /* Use every filter from the PPD file */
all_filters = 1;
break;

    case 'f' : /* Specify input file... */
i ++;
if (i < argc && !infile)
    infile = argv[i];
else
    usage(command, opt);
break;

    case 'i' : /* Specify source MIME type... */
i ++;
if (i < argc)
{
    if (sscanf(argv[i], "%15[^/]%255s", super, type) != 2)
usage(command, opt);

    srctype = argv[i];

```

```

    }
    else
        usage(command, opt);
    break;

    case 'j' : /* Get job file or specify destination MIME type... */
        if (strcmp(command, "convert"))
        {
            i ++;
if (i < argc)
        {
            get_job_file(argv[i]);
            infile = TempFile;
        }
        else
            usage(command, opt);

            break;
        }

        case 'm' : /* Specify destination MIME type... */
            i ++;
            if (i < argc)
            {
                if (sscanf(argv[i], "%15[^/]%255s", super, type) != 2)
                    usage(command, opt);

                dsttype = argv[i];
            }
            else
                usage(command, opt);
            break;

            case 'n' : /* Specify number of copies... */
                i ++;
                if (i < argc)
                    num_options = cupsAddOption("copies", argv[i], num_options,
                                                &options);
                else
                    usage(command, opt);
                break;

                case 'o' : /* Specify option(s) or output filename */
                    i ++;
                    if (i < argc)
                    {
                        if (!strcmp(command, "convert"))
                    {

```

```

if (outfile)
    usage(command, NULL);
else
    outfile = argv[i];
}
else
    num_options = cupsParseOptions(argv[i], num_options,
                                   &options);
}
else
    usage(command, opt);
break;

case 'p' : /* Specify PPD file... */
case 'P' : /* Specify PPD file... */
i ++;
if (i < argc)
    ppdfilename = argv[i];
else
    usage(command, opt);
break;

case 't' : /* Specify title... */
case 'J' : /* Specify title... */
i ++;
if (i < argc)
    title = argv[i];
else
    usage(command, opt);
break;

case 'u' : /* Delete PPD file after conversion */
removeinfile = 1;
break;

case 'U' : /* Specify username... */
i ++;
if (i < argc)
    user = argv[i];
else
    usage(command, opt);
break;

default : /* Something we don't understand... */
usage(command, opt);
break;
}
}

```

```

else if (!infile)
{
    if (strcmp(command, "convert"))
infile = argv[i];
    else
    {
_cupsLangPuts(stderr,
    _("convert: Use the -f option to specify a file to "
    "convert.\n"));
usage(command, NULL);
    }
}
else
{
    _cupsLangPuts(stderr,
        _("cupsfilter: Only one filename can be specified!\n"));
    usage(command, NULL);
}

if (!infile && !srctype)
    usage(command, NULL);

if (!title)
{
    if (!infile)
        title = "(stdin)";
    else if ((title = strchr(infile, '/')) != NULL)
        title ++;
    else
        title = infile;
}

/*
 * Load the cupsd.conf file and create the MIME database...
 */

if (read_cupsd_conf(cupsdconf))
    return (1);

snprintf(mimedir, sizeof(mimedir), "%s/mime", DataDir);

mime = mimeLoadTypes(NULL, mimedir);
mime = mimeLoadTypes(mime, ServerRoot);
mime = mimeLoadFilters(mime, mimedir, Path);
mime = mimeLoadFilters(mime, ServerRoot, Path);

if (!mime)
{

```

```

_cupsLangPrintf(stderr,
    _("%s: Unable to read MIME database from \"%s\" or "
      "\"%s\"!\n"),
    command, mimedir, ServerRoot);
return (1);
}

if (all_filters)
{
    printer_type = add_printer_filters(command, mime, printer, ppdf,
        &prefilter_type);
}
else
{
    printer_type = mimeType(mime, "application", "vnd.cups-postscript");
    prefilter_type = NULL;
}

/*
 * Get the source and destination types...
 */

if (srctype)
{
    sscanf(srctype, "%15[^\n]/%255s", super, type);
    if ((src = mimeType(mime, super, type)) == NULL)
    {
        _cupsLangPrintf(stderr,
            _("%s: Unknown source MIME type %s/%s!\n"),
            command, super, type);
        return (1);
    }
}
else if ((src = mimeType(mime, infile, infile, &compression)) == NULL)
{
    _cupsLangPrintf(stderr,
        _("%s: Unable to determine MIME type of \"%s\"!\n"),
        command, infile);
    return (1);
}

sscanf(dsttype, "%15[^\n]/%255s", super, type);
if (!strcasecmp(super, "printer"))
    dst = printer_type;
else if ((dst = mimeType(mime, super, type)) == NULL)
{
    _cupsLangPrintf(stderr,
        _("%s: Unknown destination MIME type %s/%s!\n"),

```

```

    command, super, type);
return (1);
}

/*
 * Figure out how to filter the file...
 */

if (src == dst)
{
    /*
     * Special case - no filtering needed...
     */

    filters = cupsArrayNew(NULL, NULL);
    cupsArrayAdd(filters, &GZIPFilter);
    GZIPFilter.src = src;
    GZIPFilter.dst = dst;
}
else if ((filters = mimeFilter(mime, src, dst, &cost)) == NULL)
{
    _cupsLangPrintf(stderr,
        _("%s: No filter to convert from %s/%s to %s/%s!\n"),
        command, src->super, src->type, dst->super, dst->type);
    return (1);
}
else if (compression)
    cupsArrayInsert(filters, &GZIPFilter);

if (prefilter_type)
{
    /*
     * Add pre-filters...
     */

    mime_filter_t *filter, /* Current filter */
    *prefilter; /* Current pre-filter */
    cups_array_t *prefilters = cupsArrayNew(NULL, NULL);
    /* New filters array */

    for (filter = (mime_filter_t *)cupsArrayFirst(filters);
        filter;
        filter = (mime_filter_t *)cupsArrayNext(filters))
    {
        if ((prefilter = mimeFilterLookup(mime, filter->src,
            prefilter_type)) != NULL)
            cupsArrayAdd(prefilters, prefilter);
    }
}

```



```

    cupsArrayAdd(prefilters, filter);
}

cupsArrayDelete(filters);
filters = prefilters;
}

/*
 * Do it!
 */

status = exec_filters(src, filters, infile, outfile, ppdfilename, printer, user,
                    title, num_options, options);

/*
 * Remove files as needed, then exit...
 */

if (TempFile[0])
    unlink(TempFile);

if (removeppd && ppdfilename)
    unlink(ppdfilename);

if (removeinfile && infile)
    unlink(infile);

return (status);
}

/*
 * 'add_printer_filter()' - Add a single filters from a PPD file.
 */

static void
add_printer_filter(
    const char *command, /* I - Command name */
    mime_t     *mime,    /* I - MIME database */
    mime_type_t *filtertype, /* I - Printer or prefilter MIME type */
    const char *filter) /* I - Filter to add */
{
    char super[MIME_MAX_SUPER], /* Super-type for filter */
    type[MIME_MAX_TYPE], /* Type for filter */
    program[1024]; /* Program/filter name */
    int cost; /* Cost of filter */
    mime_type_t *temptype; /* MIME type looping var */

```

```

char filename[1024]; /* Full filter filename */

/*
 * Parse the filter string; it should be in the following format:
 *
 * super/type cost program
 */

if (sscanf(filter, "%15[^/]/%31s%d%*[ \t]%1023[^\n]", super, type, &cost,
    program) != 4)
{
    _cupsLangPrintf(stderr, _("%s: Invalid filter string \"%s\"\n"), command,
        filter);
    return;
}

/*
 * See if the filter program exists; if not, stop the printer and flag
 * the error!
 */

if (strcmp(program, "-"))
{
    if (program[0] == '/')
        strcpy(filename, program, sizeof(filename));
    else
        snprintf(filename, sizeof(filename), "%s/filter/%s", ServerBin, program);

    if (access(filename, X_OK))
    {
        _cupsLangPrintf(stderr, _("%s: Filter \"%s\" not available: %s\n"),
            command, program, strerror(errno));
        return;
    }
}

/*
 * Add the filter to the MIME database, supporting wildcards as needed...
 */

for (temptype = mimeFirstType(mime);
    temptype;
    temptype = mimeNextType(mime))
if (((super[0] == '*' && strcasecmp(temptype->super, "printer")) ||
    !strcasecmp(temptype->super, super)) &&
    (type[0] == '*' || !strcasecmp(temptype->type, type)))
    mimeAddFilter(mime, temptype, filtertype, cost, program);

```

```

}

/*
 * 'add_printer_filters()' - Add filters from a PPD file.
 */

static mime_type_t * /* O - Printer type or NULL on error */
add_printer_filters(
    const char *command, /* I - Command name */
    mime_t *mime, /* I - MIME database */
    const char *printer, /* I - Printer name */
    const char *ppdfile, /* I - PPD file */
    mime_type_t **prefilter_type) /* O - Prefilter type */
{
    int i; /* Looping var */
    mime_type_t *printer_type; /* Printer MIME type */
    ppd_file_t *ppd; /* PPD file data */
    ppd_attr_t *ppdatr; /* Current prefilter */

    *prefilter_type = NULL;

    if ((ppd = ppdOpenFile(ppdfile)) == NULL)
    {
        ppd_status_t status; /* PPD load status */

        status = ppdLastError(&i);
        _cupsLangPrintf(stderr, _("%s: Unable to open PPD file: %s on line %d\n"),
            command, ppdErrorString(status), i);
        return (NULL);
    }

    printer_type = mimeAddType(mime, "printer", printer);

    if (ppd->num_filters > 0)
    {
        for (i = 0; i < ppd->num_filters; i++)
            add_printer_filter(command, mime, printer_type, ppd->filters[i]);
    }
    else
    {
        add_printer_filter(command, mime, printer_type,
            "application/vnd.cups-command 0 commandtops");
        add_printer_filter(command, mime, printer_type,
            "application/vnd.cups-postscript 0 -");
    }
}

```

```

if ((ppdatatr = ppdFindAttr(ppd, "cupsPreFilter", NULL)) != NULL)
{
    *prefilter_type = mimeAddType(mime, "prefilter", printer);

    for (; ppdatatr; ppdatatr = ppdFindNextAttr(ppd, "cupsPreFilter", NULL))
        if (ppdatatr->value)
            add_printer_filter(command, mime, *prefilter_type, ppdatatr->value);
}
else
    *prefilter_type = NULL;

return (printer_type);
}

```

```

/*

```

```

* 'compare_pids()' - Compare two filter PIDs...

```

```

*/

```

```

static int /* O - Result of comparison */

```

```

compare_pids(mime_filter_t *a, /* I - First filter */

```

```

             mime_filter_t *b) /* I - Second filter */

```

```

{

```

```

/*

```

```

* Because we're particularly lazy, we store the process ID in the "cost"

```

```

* variable...

```

```

*/

```

```

return (a->cost - b->cost);

```

```

}

```

```

/*

```

```

* 'escape_options()' - Convert an options array to a string.

```

```

*/

```

```

static char * /* O - Option string */

```

```

escape_options(

```

```

    int      num_options, /* I - Number of options */

```

```

    cups_option_t *options) /* I - Options */

```

```

{

```

```

    int i; /* Looping var */

```

```

    cups_option_t *option; /* Current option */

```

```

    int bytes; /* Number of bytes needed */

```

```

    char *s, /* Option string */

```

```

    *sptr, /* Pointer into string */

```

```

    *vptr; /* Pointer into value */

```

```

/*
 * Figure out the worst-case number of bytes we need for the option string.
 */

for (i = num_options, option = options, bytes = 1; i > 0; i --, option ++)
    bytes += 2 * (strlen(option->name) + strlen(option->value)) + 2;

if ((s = malloc(bytes)) == NULL)
    return (NULL);

/*
 * Copy the options to the string...
 */

for (i = num_options, option = options, sptr = s; i > 0; i --, option ++)
{
    if (!strcmp(option->name, "copies"))
        continue;

    if (sptr > s)
        *sptr++ = ' ';

    strcpy(sptr, option->name);
    sptr += strlen(sptr);
    *sptr++ = '=';

    for (vptr = option->value; *vptr;)
    {
        if (strchr("\\ \\t\\n", *vptr))
            *sptr++ = '\\';

        *sptr++ = *vptr++;
    }
}

*sptr = '\0';

return (s);
}

/*
 * 'exec_filter()' - Execute a single filter.
 */

static int /* O - Process ID or -1 on error */
exec_filter(const char *filter, /* I - Filter to execute */

```

```

    char    **argv, /* I - Argument list */
    char    **envp, /* I - Environment list */
    int     infd, /* I - Stdin file descriptor */
    int     outfd) /* I - Stdout file descriptor */
{
    int pid, /* Process ID */
    fd; /* Temporary file descriptor */
#ifdef __APPLE__
    char processPath[1024], /* CFProcessPath environment variable */
    linkpath[1024]; /* Link path for symlinks... */
    int linkbytes; /* Bytes for link path */

    /*
     * Add special voodoo magic for MacOS X - this allows MacOS X
     * programs to access their bundle resources properly...
     */

    if ((linkbytes = readlink(filter, linkpath, sizeof(linkpath) - 1) > 0)
    {
        /*
         * Yes, this is a symlink to the actual program, nul-terminate and
         * use it...
         */

        linkpath[linkbytes] = '\0';

        if (linkpath[0] == '/')
            snprintf(processPath, sizeof(processPath), "CFProcessPath=%s",
                linkpath);
        else
            snprintf(processPath, sizeof(processPath), "CFProcessPath=%s/%s",
                dirname((char *)filter), linkpath);
    }
    else
        snprintf(processPath, sizeof(processPath), "CFProcessPath=%s", filter);

    envp[0] = processPath; /* Replace <CFProcessPath> string */
#endif /* __APPLE__ */

    if ((pid = fork()) == 0)
    {
        /*
         * Child process goes here...
         *
         * Update stdin/stdout/stderr as needed...
         */

```

```

if (infd != 0)
{
    if (infd < 0)
        infd = open("/dev/null", O_RDONLY);

    if (infd > 0)
    {
        dup2(infd, 0);
close(infd);
    }
}

if (outfd != 1)
{
    if (outfd < 0)
        outfd = open("/dev/null", O_WRONLY);

    if (outfd > 1)
    {
dup2(outfd, 1);
close(outfd);
    }
}

if ((fd = open("/dev/null", O_RDWR)) > 3)
{
    dup2(fd, 3);
    close(fd);
}
fcntl(3, F_SETFL, O_NDELAY);

if ((fd = open("/dev/null", O_RDWR)) > 4)
{
    dup2(fd, 4);
    close(fd);
}
fcntl(4, F_SETFL, O_NDELAY);

/*
 * Execute command...
 */

execve(filter, argv, envp);

perror(filter);

exit(errno);
}

```

```

return (pid);
}

/*
 * 'exec_filters()' - Execute filters for the given file and options.
 */

static int /* O - 0 on success, 1 on error */
exec_filters(mime_type_t *srctype, /* I - Source type */
             cups_array_t *filters, /* I - Array of filters to run */
             const char *infile, /* I - File to filter */
             const char *outfile, /* I - File to create */
             const char *ppdfile, /* I - PPD file, if any */
             const char *printer, /* I - Printer name */
             const char *user, /* I - Username */
             const char *title, /* I - Job title */
             int num_options, /* I - Number of filter options */
             cups_option_t *options) /* I - Filter options */
{
    int i; /* Looping var */
    const char *argv[8], /* Command-line arguments */
               *envp[12], /* Environment variables */
               *temp; /* Temporary string */
    char *optstr, /* Filter options */
          content_type[1024], /* CONTENT_TYPE */
          cups_datadir[1024], /* CUPS_DATADIR */
          cups_fontpath[1024], /* CUPS_FONTPATH */
          cups_serverbin[1024], /* CUPS_SERVERBIN */
          cups_serverroot[1024], /* CUPS_SERVERROOT */
          lang[1024], /* LANG */
          path[1024], /* PATH */
          ppd[1024], /* PPD */
          rip_cache[1024], /* RIP_CACHE */
          userenv[1024], /* USER */
          program[1024]; /* Program to run */
    mime_filter_t *filter, /* Current filter */
                 *next; /* Next filter */
    int current, /* Current filter */
        filterfds[2][2], /* Pipes for filters */
        pid, /* Process ID of filter */
        status, /* Exit status */
        retval; /* Return value */
    cups_array_t *pids; /* Executed filters array */
    mime_filter_t key; /* Search key for filters */
    cups_lang_t *language; /* Current language */

```



```

/*
 * Setup the filter environment and command-line...
 */

optstr = escape_options(num_options, options);

snprintf(content_type, sizeof(content_type), "CONTENT_TYPE=%s/%s",
         srctype->super, srctype->type);
snprintf(cups_datadir, sizeof(cups_datadir), "CUPS_DATADIR=%s", DataDir);
snprintf(cups_fontpath, sizeof(cups_fontpath), "CUPS_FONTPATH=%s", FontPath);
snprintf(cups_serverbin, sizeof(cups_serverbin), "CUPS_SERVERBIN=%s",
         ServerBin);
snprintf(cups_serverroot, sizeof(cups_serverroot), "CUPS_SERVERROOT=%s",
         ServerRoot);
language = cupsLangDefault();
snprintf(lang, sizeof(lang), "LANG=%s.UTF8", language->language);
snprintf(path, sizeof(path), "PATH=%s", Path);
if (ppdfile)
    snprintf(ppd, sizeof(ppd), "PPD=%s", ppdfile);
else if ((temp = getenv("PPD")) != NULL)
    snprintf(ppd, sizeof(ppd), "PPD=%s", temp);
else
#ifdef __APPLE__
if (!access("/System/Library/Frameworks/ApplicationServices.framework/"
          "Versions/A/Frameworks/PrintCore.framework/Versions/A/"
          "Resources/English.lproj/Generic.ppd", 0))
    strcpy(ppd, "PPD=/System/Library/Frameworks/ApplicationServices.framework/"
          "Versions/A/Frameworks/PrintCore.framework/Versions/A/"
          "Resources/English.lproj/Generic.ppd", sizeof(ppd));
else
    strcpy(ppd, "PPD=/System/Library/Frameworks/ApplicationServices.framework/"
          "Versions/A/Frameworks/PrintCore.framework/Versions/A/"
          "Resources/Generic.ppd", sizeof(ppd));
#else
    snprintf(ppd, sizeof(ppd), "PPD=%s/model/laserjet.ppd", DataDir);
#endif /* __APPLE__ */
snprintf(rip_cache, sizeof(rip_cache), "RIP_CACHE=%s", RIPCache);
snprintf(userenv, sizeof(userenv), "USER=%s", user);

argv[0] = (char *)printer;
argv[1] = "1";
argv[2] = user;
argv[3] = title;
argv[4] = cupsGetOption("copies", num_options, options);
argv[5] = optstr;
argv[6] = infile;
argv[7] = NULL;

```

```

if (!argv[4])
    argv[4] = "1";

envp[0] = "<CFProcessPath>";
envp[1] = content_type;
envp[2] = cups_datadir;
envp[3] = cups_fontpath;
envp[4] = cups_serverbin;
envp[5] = cups_serverroot;
envp[6] = lang;
envp[7] = path;
envp[8] = ppd;
envp[9] = rip_cache;
envp[10] = userenv;
envp[11] = NULL;

for (i = 0; argv[i]; i++)
    fprintf(stderr, "DEBUG: argv[%d]=\"%s\\n\", i, argv[i]);

for (i = 0; envp[i]; i++)
    fprintf(stderr, "DEBUG: envp[%d]=\"%s\\n\", i, envp[i]);

/*
 * Execute all of the filters...
 */

pids      = cupsArrayNew((cups_array_func_t)compare_pids, NULL);
current   = 0;
filterfds[0][0] = -1;
filterfds[0][1] = -1;
filterfds[1][0] = -1;
filterfds[1][1] = -1;

if (!infile)
    filterfds[0][0] = 0;

for (filter = (mime_filter_t *)cupsArrayFirst(filters);
     filter;
     filter = next, current = 1 - current)
{
    next = (mime_filter_t *)cupsArrayNext(filters);

    if (filter->filter[0] == '/')
        strcpy(program, filter->filter, sizeof(program));
    else
        snprintf(program, sizeof(program), "%s/filter/%s", ServerBin,
                 filter->filter);
}

```

```

if (filterfds[!current][1] > 1)
{
    close(filterfds[1 - current][0]);
    close(filterfds[1 - current][1]);

    filterfds[1 - current][0] = -1;
    filterfds[1 - current][1] = -1;
}

if (next)
    open_pipe(filterfds[1 - current]);
else if (outfile)
{
    filterfds[1 - current][1] = open(outfile, O_CREAT | O_TRUNC | O_WRONLY,
                                   0666);

    if (filterfds[1 - current][1] < 0)
        fprintf(stderr, "ERROR: Unable to create \"%s\" - %s\n", outfile,
                strerror(errno));
}
else
    filterfds[1 - current][1] = 1;

pid = exec_filter(program, (char **)argv, (char **)envp,
                  filterfds[current][0], filterfds[1 - current][1]);

if (pid > 0)
{
    fprintf(stderr, "INFO: %s (PID %d) started.\n", filter->filter, pid);

    filter->cost = pid;
    cupsArrayAdd(pids, filter);
}
else
    break;

argv[6] = NULL;
}

/*
 * Close remaining pipes...
 */

if (filterfds[0][1] > 1)
{
    close(filterfds[0][0]);
    close(filterfds[0][1]);
}

```

```

}

if (filterfds[1][1] > 1)
{
    close(filterfds[1][0]);
    close(filterfds[1][1]);
}

/*
 * Wait for the children to exit...
 */

retval = 0;

while (cupsArrayCount(pids) > 0)
{
    if ((pid = wait(&status)) < 0)
        continue;

    key.cost = pid;
    if ((filter = (mime_filter_t *)cupsArrayFind(pids, &key)) != NULL)
    {
        cupsArrayRemove(pids, filter);

        if (status)
        {
            if (WIFEXITED(status))
                fprintf(stderr, "ERROR: %s (PID %d) stopped with status %d!\n",
                    filter->filter, pid, WEXITSTATUS(status));
            else
                fprintf(stderr, "ERROR: %s (PID %d) crashed on signal %d!\n",
                    filter->filter, pid, WTERMSIG(status));

            retval = 1;
        }
        else
            fprintf(stderr, "INFO: %s (PID %d) exited with no errors.\n",
                filter->filter, pid);
    }
}

cupsArrayDelete(pids);

return (retval);
}

/*

```

```

* 'get_job_file()' - Get the specified job file.
*/

static void
get_job_file(const char *job) /* I - Job ID */
{
    long jobid, /* Job ID */
        docnum; /* Document number */
    const char *jobptr; /* Pointer into job ID string */
    char uri[1024]; /* job-uri */
    http_t *http; /* Connection to server */
    ipp_t *request; /* Request data */
    int tempfd; /* Temporary file */

    /*
     * Get the job ID and document number, if any...
     */

    if ((jobptr = strrchr(job, '-')) != NULL)
        jobptr++;
    else
        jobptr = job;

    jobid = strtol(jobptr, (char **)&jobptr, 10);

    if (*jobptr == ',')
        docnum = strtol(jobptr + 1, NULL, 10);
    else
        docnum = 1;

    if (jobid < 1 || jobid > INT_MAX)
    {
        _cupsLangPrintf(stderr, _("cupsfilter: Invalid job ID %d!\n"), (int)jobid);
        exit(1);
    }

    if (docnum < 1 || docnum > INT_MAX)
    {
        _cupsLangPrintf(stderr, _("cupsfilter: Invalid document number %d!\n"),
            (int)docnum);
        exit(1);
    }

    /*
     * Ask the server for the document file...
     */

```

```

if ((http = httpConnectEncrypt(cupsServer(), ippPort(),
                             cupsEncryption())) == NULL)
{
    _cupsLangPrintf(stderr, _("%s: Unable to connect to server\n"),
                    "cupsfilter");
    exit(1);
}

request = ippNewRequest(CUPS_GET_DOCUMENT);

snprintf(uri, sizeof(uri), "ipp://localhost/jobs/%d", (int)jobid);

ippAddString(request, IPP_TAG_OPERATION, IPP_TAG_URI, "job-uri", NULL, uri);
ippAddInteger(request, IPP_TAG_OPERATION, IPP_TAG_INTEGER, "document-number",
              (int)docnum);

if ((tempfd = cupsTempFd(TempFile, sizeof(TempFile))) == -1)
{
    _cupsLangPrintError(_("ERROR: Unable to create temporary file"));
    httpClose(http);
    exit(1);
}

signal(SIGTERM, sighandler);

ippDelete(cupsDoIORequest(http, request, "/", -1, tempfd));

close(tempfd);

httpClose(http);

if (cupsLastError() != IPP_OK)
{
    _cupsLangPrintf(stderr, _("cupsfilter: Unable to get job file - %s\n"),
                    cupsLastErrorString());
    unlink(TempFile);
    exit(1);
}
}

/*
 * 'open_pipe()' - Create a pipe which is closed on exec.
 */

static int /* O - 0 on success, -1 on error */
open_pipe(int *fds) /* O - Pipe file descriptors (2) */
{

```

```

/*
 * Create the pipe...
 */

if (pipe(fds))
{
    fds[0] = -1;
    fds[1] = -1;

    return (-1);
}

/*
 * Set the "close on exec" flag on each end of the pipe...
 */

if (fcntl(fds[0], F_SETFD, fcntl(fds[0], F_GETFD) | FD_CLOEXEC))
{
    close(fds[0]);
    close(fds[1]);

    fds[0] = -1;
    fds[1] = -1;

    return (-1);
}

if (fcntl(fds[1], F_SETFD, fcntl(fds[1], F_GETFD) | FD_CLOEXEC))
{
    close(fds[0]);
    close(fds[1]);

    fds[0] = -1;
    fds[1] = -1;

    return (-1);
}

/*
 * Return 0 indicating success...
 */

return (0);
}

/*
 * 'read_cupsd_conf()' - Read the cupsd.conf file to get the filter settings.

```

```

*/

static int /* O - 0 on success, 1 on error */
read_cupsd_conf(const char *filename) /* I - File to read */
{
    cups_file_t *fp; /* cupsd.conf file */
    const char *temp; /* Temporary string */
    char line[1024], /* Line from file */
    *ptr; /* Pointer into line */
    int linenum; /* Current line number */

    if ((temp = getenv("CUPS_DATADIR")) != NULL)
        set_string(&DataDir, temp);
    else
        set_string(&DataDir, CUPS_DATADIR);

    if ((temp = getenv("CUPS_FONTPATH")) != NULL)
        set_string(&FontPath, temp);
    else
        set_string(&FontPath, CUPS_FONTPATH);

    set_string(&RIPCache, "8m");

    if ((temp = getenv("CUPS_SERVERBIN")) != NULL)
        set_string(&ServerBin, temp);
    else
        set_string(&ServerBin, CUPS_SERVERBIN);

    strncpy(line, filename, sizeof(line));
    if ((ptr = strrchr(line, '/')) != NULL)
        *ptr = '\0';
    else
        getcwd(line, sizeof(line));

    set_string(&ServerRoot, line);

    if ((fp = cupsFileOpen(filename, "r")) != NULL)
    {
        linenum = 0;

        while (cupsFileGetConf(fp, line, sizeof(line), &ptr, &linenum))
        {
            if (!strcasecmp(line, "DataDir"))
                set_string(&DataDir, ptr);
            else if (!strcasecmp(line, "FontPath"))
                set_string(&FontPath, ptr);
            else if (!strcasecmp(line, "RIPCache"))

```



```

    set_string(&RIPCache, ptr);
else if (!strcasecmp(line, "ServerBin"))
    set_string(&ServerBin, ptr);
else if (!strcasecmp(line, "ServerRoot"))
    set_string(&ServerRoot, ptr);
}

cupsFileClose(fp);
}

snprintf(line, sizeof(line),
         "%s/filter:" CUPS_BINDIR ":" CUPS_SBINDIR ":/bin:/usr/bin",
         ServerBin);
set_string(&Path, line);

return (0);
}

/*
 * 'set_string()' - Copy and set a string.
 */

static void
set_string(char **s, /* O - Copy of string */
           const char *val) /* I - String to copy */
{
    if (*s)
        free(*s);

    *s = strdup(val);
}

/*
 * 'sighandler()' - Signal catcher for when we print from stdin...
 */

static void
sighandler(int s) /* I - Signal number */
{
    /*
     * Remove the temporary file we're using to print a job file...
     */

    if (TempFile[0])
        unlink(TempFile);
}

```

```

/*
 * Exit...
 */

exit(s);
}

/*
 * 'usage()' - Show program usage...
 */

static void
usage(const char *command, /* I - Command name */
      const char *opt) /* I - Incorrect option, if any */
{
    if (opt)
        _cupsLangPrintf(stderr, _("%s: Unknown option '%c!'\n"), command, *opt);

    if (!strcmp(command, "cupsfilter"))
        _cupsLangPuts(stdout,
            _("Usage: cupsfilter -m mime/type [ options ] filename\n"
              "\n"
              "Options:\n"
              "\n"
              " -c cupsd.conf  Set cupsd.conf file to use\n"
              " -e          Use every filter from the PPD file\n"
              " -j job-id[,N]  Filter file N from the specified job (default is file 1)\n"
              " -n copies     Set number of copies\n"
              " -o name=value  Set option(s)\n"
              " -p filename.ppd Set PPD file\n"
              " -t title      Set title\n"));
    else
        _cupsLangPuts(stdout,
            _("Usage: convert [ options ]\n"
              "\n"
              "Options:\n"
              "\n"
              " -e          Use every filter from the PPD file\n"
              " -f filename  Set file to be converted (otherwise stdin)\n"
              " -o filename  Set file to be generated (otherwise stdout)\n"
              " -i mime/type Set input MIME type (otherwise auto-typed)\n"
              " -j mime/type Set output MIME type (otherwise application/pdf)\n"
              " -P filename.ppd Set PPD file\n"
              " -a 'name=value ...' Set option(s)\n"
              " -U username  Set username for job\n"
              " -J title     Set title\n"
              " -c copies    Set number of copies\n"));
}

```

```

" -u          Remove the PPD file when finished\n"
" -D          Remove the input file when finished\n");

exit(1);
}

/*
* End of "$Id: cupsfilter.c 8700 2009-06-05 21:38:52Z mike $".
*/
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<one line to give the library's name and a brief idea of what it does.>  
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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!

## 1.49 curl 7.19.7 :52.e16

### 1.49.1 Available under license :

License Mixing with apps, libcurl and Third Party Libraries

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and

the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl <http://curl.haxx.se/docs/copyright.html>

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL <http://www.openssl.org/source/license.html>

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS <http://www.gnutls.org/>

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libcrypt and libpgp-error) and they too are LGPL- or GPL-licensed.

yassl <http://www.yassl.com/>

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS <http://www.mozilla.org/projects/security/pki/nss/>

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c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib [http://www.gzip.org/zlib/zlib\\_license.html](http://www.gzip.org/zlib/zlib_license.html)

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal <http://www.pdc.kth.se/heimdal/>

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS <http://www.gnu.org/software/gss/>

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn <http://josefsson.org/libidn/>

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when

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OpenLDAP <http://www.openldap.org/software/release/license.html>

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 <http://www.libssh2.org/>

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[1] = GPL - GNU General Public License: <http://www.gnu.org/licenses/gpl.html>

[2] = <http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs> details on how to write such an exception to the GPL

[3] = LGPL - GNU Lesser General Public License:

<http://www.gnu.org/licenses/lgpl.html>

[4] = MPL - Mozilla Public License:

<http://www.mozilla.org/MPL/>

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# 1.50 cyrus-sasl 2.1.23 :15.el6\_6.2

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\* Tim Martin

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.\"
.TH sasl_getsimple_t "10 July 2001" SASL "SASL man pages"
.SH NAME

```

```
sasl_getsimple_t \- The SASL callback for username/authname/realm
/* sample-server.c -- sample SASL server
* Rob Earhart
* $Id: sample-server.c,v 1.31 2004/10/26 11:14:34 mel Exp $
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/\*

\* Termios command line History and Editing for NetBSD sh (ash)

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\* Main code: Adam Rogoyski <rogoyski@cs.utexas.edu>

\* Etc: Dave Cinege <dcinege@psychosis.com>

\*

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\*

\* v 0.5 19990328 Initial release

\*

\* Future plans: Simple file and path name completion. (like BASH)

\*

\*/

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<http://svn.jackson.codehaus.org/browse/jackson/trunk/README.txt?hb=true>

== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found

from:

<http://jackson.codehaus.org/>

which also has links to support forums such as mailing lists, as well

as links to obtain source code and binary artifacts.

### === Functionality ===

Jackson implements functionality for:

- \* Reading (parsing) and writing (generation) of Json content
- \* Data-binding (data-mapping, [de-]serialization) support to allow for converting between Json and Java objects
- \* Support for converting to/from other data formats and access APIs, to improve interoperability.

### === Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made to support other non-standard platforms as well.

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## 1.55 Data Mapper for Jackson 1.8.6

### 1.55.1 Available under license :

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```

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## 1.56 db4 4.7.25 :20.e16\_7

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## 1.62 device-mapper 1.02.117 :7.el6\_8.1

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```
<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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## 1.63 device-mapper-libs 1.02.117 :7.el6\_8.1

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```

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```
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```

```
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Ty Coon, President of Vice
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When a "work that uses the Library" uses material from a header file

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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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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.

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

That's all there is to it!

## 1.64 dhclient 4.1.1 :51.P1.el6.centos

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## 1.65 dhcp 4.1.1 :43.P1.el6.centos.1

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This file was written by S Kalyanasundaram <skalyanasundaram@novell.com>

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This LDAP module was written by Brian Masney <masneyb@gftp.org>. Its development was sponsored by Ntelos, Inc. (www.ntelos.com).

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```

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use strict;
use English;
use Time::HiRes qw( sleep );
use Socket;
use Socket6;
use IO::Select;

use dhcp_client;

# XXX: for debugging
use Data::Dumper;

# not-yet-standard options
my $OPT_TIME_SERVERS = 40;
my $OPT_TIME_OFFSET = 41;

# DOCSIS sub-options
my $DOCSIS_OPT_ORO = 1;
# 2 to 31 are reserved
my $DOCSIS_OPT_TFTP_SERVERS = 32;
my $DOCSIS_OPT_CONFIG_FILE_NAME = 33;
my $DOCSIS_OPT_SYSLOG_SERVERS = 34;
my $DOCSIS_OPT_TLV5 = 35;
my $DOCSIS_OPT_DEVICE_ID = 36;
my $DOCSIS_OPT_CCC = 37;
my $DOCSIS_OPT_VERS = 38;

# well-known addresses
my $All_DHCP_Relay_Agents_and_Servers = "ff02::1:2";
my $All_DHCP_Servers = "ff05::1:3";

# ports
my $client_port = 546;
my $server_port = 547;

# create a new Solicit message
my $msg = dhcp_client::msg->new($MSG_SOLICIT);

# do NOT add the Client Identifier (required by DOCSIS and RFC 3315)
#$msg->add_option($OPT_CLIENTID, dhcp_client::duid());

```

```

# add Elapsed Time, set to 0 on first packet (required by RFC 3315)
$msg->add_option($OPT_ELAPSED_TIME, "\x00\x00");

# add IA_NA for each interface (required by DOCSIS and RFC 3315)
# XXX: should this be a single interface only?
my $iaid = 0;
foreach my $iface (dhcp_client::iface()) {
    my $option_data = pack("NNN", ++$iaid, 0, 0);
    $msg->add_option($OPT_IA_NA, $option_data);
}

# add Reconfigure Accept (required by DOCSIS)
$msg->add_option($OPT_RECONF_ACCEPT, "");

# add Options Request (required by DOCSIS, recommended by RFC 3315)
my @oro = ( $OPT_TIME_SERVERS, $OPT_TIME_OFFSET );
$msg->add_option($OPT_ORO, pack("n*", @oro));

# add Vendor Class option (required by DOCSIS)
$msg->add_option($OPT_VENDOR_CLASS, pack("N", 4491) . "docsis3.0");

# add Vendor-specific Information Option option (required by DOCSIS)
my $vsio = pack("N", 4491);

# ORO (required by DOCSIS)
my @docsis_oro = ( $DOCSIS_OPT_TFTP_SERVERS );
$vsio .= pack("nnC*", $DOCSIS_OPT_ORO, 0+@docsis_oro, @docsis_oro);

# TLV5 data: CMTS DOCSIS version number 3.0 (required by DOCSIS)
my $tlv5_data = "\x01\x02\x03\x0";
$vsio .= pack("nn", $DOCSIS_OPT_TLV5, length($tlv5_data)) . $tlv5_data;

# DOCSIS Device (required by DOCSIS)
my $docsis_device_id = dhcp_client::mac_addr_binary();
$vsio .= pack("nn", $DOCSIS_OPT_DEVICE_ID, length($docsis_device_id));
$vsio .= $docsis_device_id;

$msg->add_option($OPT_VENDOR_OPTS, $vsio);

# add Rapid Commit option (required by DOCSIS)
$msg->add_option($OPT_RAPID_COMMIT, "");

# timeout parameters, from DOCSIS
my $IRT = $SOL_TIMEOUT;
my $MRT = $SOL_MAX_RT;
my $MRC = 1; # DOCSIS says 4, RFC 3315 says it SHOULD be 0
my $MRD = 0;

```

```

# sleep a random amount of time between 0 and 1 second, required by RFC 3315
# XXX: this seems pretty stupid
sleep(rand($SOL_MAX_DELAY));

my $RT;
my $count = 0;
my $mrd_end_time;
if ($MRD != 0) {
    $mrd_end_time = time() + $MRD;
}
my $reply_msg;
do {
    # create our socket, and send our Solicit
    socket(SOCK, PF_INET6, SOCK_DGRAM, getprotobyname('udp')) || die;
    my $addr = inet_pton(AF_INET6, $All_DHCP_Servers);
    my $packet = $msg->packet();
    my $send_ret = send(SOCK, $packet, 0,
        pack_sockaddr_in6($server_port, $addr));
    if (not defined($send_ret)) {
        printf STDERR
            "Error %d sending DHCPv6 Solicit message;\n%s\n",
            0+$ERRNO, $ERRNO;
        exit(1);
    } elsif ($send_ret != length($packet)) {
        print STDERR "Unable to send entire DHCPv6 Solicit message.\n";
        exit(1);
    }
    $count++;

    my $RAND = rand(0.2) - 0.1;
    if (defined $RT) {
        $RT = 2*$RT + $RAND*$RT;
        if (($RT > $MRT) && ($MRT != 0)) {
            $RT = $MRT + $RAND*$RT;
        }
    } else {
        $RT = $IRT + $RAND*$IRT;
    }

    my $rt_end_time = time() + $RT;
    if (defined($mrd_end_time) && ($mrd_end_time > $rt_end_time)) {
        $rt_end_time = $mrd_end_time;
    }

    for (;;) {
        my $timeout = $rt_end_time - time();
        if ($timeout < 0) {

```

```

# print STDERR "Timeout waiting for DHCPv6 Advertise ",
# "or Reply message.\n";
    last;
}

my @ready = IO::Select->new(\*SOCK)->can_read($timeout);

if (@ready) {
    my $reply;
    my $recv_ret;

    $recv_ret = recv(SOCK, $reply, 1500, 0);
    if (not defined $recv_ret) {
        printf STDERR
            "Error %d receiving DHCPv6 " .
            "message;\n\%s\n",
            0+$ERRNO, $ERRNO;
        exit(1);
    }

    $reply_msg = dhcp_client::msg::decode($reply);
    if (($reply_msg->{msg_type} == $MSG_ADVERTISE) ||
        ($reply_msg->{msg_type} == $MSG_REPLY)) {
        last;
    }
}

} until ($reply_msg ||
    (($MRC != 0) && ($count > $MRC)) ||
    (defined($mrd_end_time) && ($mrd_end_time > time())));

unless ($reply_msg) {
    if (($MRC != 0) && ($count >= $MRC)) {
        print STDERR
            "No reply after maximum retransmission count.\n";
    } else {
        print STDERR
            "No reply after maximum retransmission duration.\n";
    }
}

if ($reply_msg && ($reply_msg->{msg_type} == $MSG_REPLY)) {
    print "Got DHCPv6 Reply message.\n";
    exit(0);
}

#$Data::Dumper::Useqq = 1;

```

```

#print Dumper($msg, "\n";
#print Dumper($msg->packet()), "\n";
#
#print "packet length: ", length($msg->packet()), "\n";
#!/usr/bin/perl -w

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use strict;
use English;
use Time::HiRes qw( sleep );
use Socket;
use Socket6;
use IO::Select;

use dhcp_client;

# XXX: for debugging
use Data::Dumper;

# not-yet-standard options
my $OPT_TIME_SERVERS = 40;
my $OPT_TIME_OFFSET = 41;

# DOCSIS sub-options
my $DOCSIS_OPT_ORO = 1;
# 2 to 31 are reserved
my $DOCSIS_OPT_TFTP_SERVERS = 32;
my $DOCSIS_OPT_CONFIG_FILE_NAME = 33;
my $DOCSIS_OPT_SYSLOG_SERVERS = 34;

```

```

my $DOCSIS_OPT_TLV5 = 35;
my $DOCSIS_OPT_DEVICE_ID = 36;
my $DOCSIS_OPT_CCC = 37;
my $DOCSIS_OPT_VERS = 38;

# well-known addresses
my $All_DHCP_Relay_Agents_and_Servers = "ff02::1:2";
my $All_DHCP_Servers = "ff05::1:3";

# ports
my $client_port = 546;
my $server_port = 547;

# create a new Solicit message
my $msg = dhcp_client::msg->new($MSG_SOLICIT);

# add the Client Identifier (required by DOCSIS and RFC 3315)
$msg->add_option($OPT_CLIENTID, dhcp_client::duid());

# add the Server Identifier (NOT ALLOWED by DOCSIS and RFC 3315)
$msg->add_option($OPT_SERVERID, dhcp_client::duid());

# add Elapsed Time, set to 0 on first packet (required by RFC 3315)
$msg->add_option($OPT_ELAPSED_TIME, "\x00\x00");

# add IA_NA for each interface (required by DOCSIS and RFC 3315)
# XXX: should this be a single interface only?
my $iaid = 0;
foreach my $iface (dhcp_client::iface()) {
    my $option_data = pack("NN", ++$iaid, 0, 0);
    $msg->add_option($OPT_IA_NA, $option_data);
}

# add Reconfigure Accept (required by DOCSIS)
$msg->add_option($OPT_RECONF_ACCEPT, "");

# add Options Request (required by DOCSIS, recommended by RFC 3315)
my @oro = ( $OPT_TIME_SERVERS, $OPT_TIME_OFFSET );
$msg->add_option($OPT_ORO, pack("n*", @oro));

# add Vendor Class option (required by DOCSIS)
$msg->add_option($OPT_VENDOR_CLASS, pack("N", 4491) . "docsis3.0");

# add Vendor-specific Information Option option (required by DOCSIS)
my $vsio = pack("N", 4491);

# ORO (required by DOCSIS)

```

```

my @docsis_oro = ( $DOCSIS_OPT_TFTP_SERVERS );
$vsio .= pack("nC*", $DOCSIS_OPT_ORO, 0+@docsis_oro, @docsis_oro);

# TLV5 data: CMTS DOCSIS version number 3.0 (required by DOCSIS)
my $tlv5_data = "\x01\x02\x03\x0";
$vsio .= pack("nn", $DOCSIS_OPT_TLV5, length($tlv5_data)) . $tlv5_data;

# DOCSIS Device (required by DOCSIS)
my $docsis_device_id = dhcp_client::mac_addr_binary();
$vsio .= pack("nn", $DOCSIS_OPT_DEVICE_ID, length($docsis_device_id));
$vsio .= $docsis_device_id;

$msg->add_option($OPT_VENDOR_OPTS, $vsio);

# add Rapid Commit option (required by DOCSIS)
$msg->add_option($OPT_RAPID_COMMIT, "");

# timeout parameters, from DOCSIS
my $IRT = $SOL_TIMEOUT;
my $MRT = $SOL_MAX_RT;
my $MRC = 1; # DOCSIS says 4, RFC 3315 says it SHOULD be 0
my $MRD = 0;

# sleep a random amount of time between 0 and 1 second, required by RFC 3315
# XXX: this seems pretty stupid
sleep(rand($SOL_MAX_DELAY));

my $RT;
my $count = 0;
my $mrd_end_time;
if ($MRD != 0) {
    $mrd_end_time = time() + $MRD;
}
my $reply_msg;
do {
    # create our socket, and send our Solicit
    socket(SOCK, PF_INET6, SOCK_DGRAM, getprotobyname('udp')) || die;
    my $addr = inet_pton(AF_INET6, $All_DHCP_Servers);
    my $packet = $msg->packet();
    my $send_ret = send(SOCK, $packet, 0,
        pack_sockaddr_in6($server_port, $addr));
    if (not defined($send_ret)) {
        printf STDERR
            "Error %d sending DHCPv6 Solicit message;\n%s\n",
            0+$ERRNO, $ERRNO;
        exit(1);
    } elsif ($send_ret != length($packet)) {
        print STDERR "Unable to send entire DHCPv6 Solicit message.\n";
    }
}

```

```

exit(1);
}
$count++;

my $RAND = rand(0.2) - 0.1;
if (defined $RT) {
    $RT = 2*$RT + $RAND*$RT;
    if (($RT > $MRT) && ($MRT != 0)) {
        $RT = $MRT + $RAND*$RT;
    }
} else {
    $RT = $IRT + $RAND*$IRT;
}

my $rt_end_time = time() + $RT;
if (defined($mrd_end_time) && ($mrd_end_time > $rt_end_time)) {
    $rt_end_time = $mrd_end_time;
}

for (;;) {
    my $timeout = $rt_end_time - time();
    if ($timeout < 0) {
        # print STDERR "Timeout waiting for DHCPv6 Advertise ",
        # "or Reply message.\n";
        last;
    }

    my @ready = IO::Select->new(\*$SOCK)->can_read($timeout);

    if (@ready) {
        my $reply;
        my $recv_ret;

        $recv_ret = recv(SOCK, $reply, 1500, 0);
        if (not defined $recv_ret) {
            printf STDERR
                "Error %d receiving DHCPv6 " .
                "message;\n\n",
                0+$ERRNO, $ERRNO;
            exit(1);
        }

        $reply_msg = dhcp_client::msg::decode($reply);
        if (($reply_msg->{msg_type} == $MSG_ADVERTISE) ||
            ($reply_msg->{msg_type} == $MSG_REPLY)) {
            last;
        }
    }
}

```



```

}

} until ($reply_msg ||
(($MRC != 0) && ($count > $MRC)) ||
(defined($mrd_end_time) && ($mrd_end_time > time())));

unless ($reply_msg) {
if (($MRC != 0) && ($count >= $MRC)) {
print STDERR
"No reply after maximum retransmission count.\n";
} else {
print STDERR
"No reply after maximum retransmission duration.\n";
}
}

if ($reply_msg && ($reply_msg->{msg_type} == $MSG_REPLY)) {
print "Got DHCPv6 Reply message.\n";
exit(0);
}

#$Data::Dumper::Useqq = 1;
#print Dumper($msg), "\n";
#print Dumper($msg->packet()), "\n";
#
#print "packet length: ", length($msg->packet()), "\n";
#! /usr/bin/perl -w

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```

```

use strict;
use English;
use Time::HiRes qw( sleep );
use Socket;
use Socket6;
use IO::Select;

use dhcp_client;

# XXX: for debugging
use Data::Dumper;

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my $OPT_TIME_SERVERS = 40;
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# 2 to 31 are reserved
my $DOCSIS_OPT_TFTP_SERVERS = 32;
my $DOCSIS_OPT_CONFIG_FILE_NAME = 33;
my $DOCSIS_OPT_SYSLOG_SERVERS = 34;
my $DOCSIS_OPT_TLV5 = 35;
my $DOCSIS_OPT_DEVICE_ID = 36;
my $DOCSIS_OPT_CCC = 37;
my $DOCSIS_OPT_VERS = 38;

# well-known addresses
my $All_DHCP_Relay_Agents_and_Servers = "ff02::1:2";
my $All_DHCP_Servers = "ff05::1:3";

# ports
my $client_port = 546;
my $server_port = 547;

# create a new Solicit message
my $msg = dhcp_client::msg->new($MSG_SOLICIT);

# add the Client Identifier (required by DOCSIS and RFC 3315)
$msg->add_option($OPT_CLIENTID, dhcp_client::duid());

# add Elapsed Time, set to 0 on first packet (required by RFC 3315)
$msg->add_option($OPT_ELAPSED_TIME, "\x00\x00");

# add IA_NA for each interface (required by DOCSIS and RFC 3315)
# XXX: should this be a single interface only?
my $iaid = 0;
foreach my $iface (dhcp_client::iface()) {

```

```

my $option_data = pack("NNN", ++$iaid, 0, 0);
$msg->add_option($OPT_IA_NA, $option_data);
}

# add Reconfigure Accept (required by DOCSIS)
$msg->add_option($OPT_RECONF_ACCEPT, "");

# add Options Request (required by DOCSIS, recommended by RFC 3315)
my @oro = ( $OPT_TIME_SERVERS, $OPT_TIME_OFFSET );
$msg->add_option($OPT_ORO, pack("n*", @oro));

# add Vendor Class option (required by DOCSIS)
$msg->add_option($OPT_VENDOR_CLASS, pack("N", 4491) . "docsis3.0");

# add Vendor-specific Information Option option (required by DOCSIS)
my $vsio = pack("N", 4491);

# ORO (required by DOCSIS)
my @docsis_oro = ( $DOCSIS_OPT_TFTP_SERVERS );
$vsio .= pack("nnC*", $DOCSIS_OPT_ORO, 0+@docsis_oro, @docsis_oro);

# TLV5 data: CMTS DOCSIS version number 3.0 (required by DOCSIS)
my $tlv5_data = "\x01\x02\x03\x0";
$vsio .= pack("nn", $DOCSIS_OPT_TLV5, length($tlv5_data)) . $tlv5_data;

# DOCSIS Device (required by DOCSIS)
my $docsis_device_id = dhcp_client::mac_addr_binary();
$vsio .= pack("nn", $DOCSIS_OPT_DEVICE_ID, length($docsis_device_id));
$vsio .= $docsis_device_id;

$msg->add_option($OPT_VENDOR_OPTS, $vsio);

# add Rapid Commit option (required by DOCSIS)
$msg->add_option($OPT_RAPID_COMMIT, "");

# timeout parameters, from DOCSIS
my $IRT = $SOL_TIMEOUT;
my $MRT = $SOL_MAX_RT;
my $MRC = 4; # DOCSIS says 4, RFC 3315 says it SHOULD be 0
my $MRD = 0;

# sleep a random amount of time between 0 and 1 second, required by RFC 3315
# XXX: this seems pretty stupid
sleep(rand($SOL_MAX_DELAY));

my $RT;
my $count = 0;

```

```

my $mrd_end_time;
if ($MRD != 0) {
    $mrd_end_time = time() + $MRD;
}
my $reply_msg;
do {
    # create our socket, and send our Solicit
    socket(SOCK, PF_INET6, SOCK_DGRAM, getprotobyname('udp')) || die;
    my $addr = inet_pton(AF_INET6, $All_DHCP_Servers);
    my $packet = $msg->packet();
    my $send_ret = send(SOCK, $packet, 0,
        pack_sockaddr_in6($server_port, $addr));
    if (not defined($send_ret)) {
        printf STDERR
            "Error %d sending DHCPv6 Solicit message;\n%s\n",
            0+$ERRNO, $ERRNO;
        exit(1);
    } elsif ($send_ret != length($packet)) {
        print STDERR "Unable to send entire DHCPv6 Solicit message.\n";
        exit(1);
    }
    $count++;

    my $RAND = rand(0.2) - 0.1;
    if (defined $RT) {
        $RT = 2*$RT + $RAND*$RT;
        if (($RT > $MRT) && ($MRT != 0)) {
            $RT = $MRT + $RAND*$RT;
        }
    } else {
        $RT = $IRT + $RAND*$IRT;
    }

    my $rt_end_time = time() + $RT;
    if (defined($mrd_end_time) && ($mrd_end_time > $rt_end_time)) {
        $rt_end_time = $mrd_end_time;
    }

    for (;;) {
        my $timeout = $rt_end_time - time();
        if ($timeout < 0) {
            # print STDERR "Timeout waiting for DHCPv6 Advertise ",
            # "or Reply message.\n";
            last;
        }

        my @ready = IO::Select->new(\*SOCK)->can_read($timeout);

```

```

if (@ready) {
    my $reply;
    my $recv_ret;

    $recv_ret = recv(SOCK, $reply, 1500, 0);
    if (not defined $recv_ret) {
        printf STDERR
            "Error %d receiving DHCPv6 " .
            "message;\n%s\n",
            0+$ERRNO, $ERRNO;
        exit(1);
    }

    $reply_msg = dhcp_client::msg::decode($reply, 1);
    if (($reply_msg->{msg_type} == $MSG_ADVERTISE) ||
        ($reply_msg->{msg_type} == $MSG_REPLY)) {
        last;
    }
}

} until ($reply_msg ||
    (($MRC != 0) && ($count > $MRC)) ||
    (defined($mrd_end_time) && ($mrd_end_time > time())));

unless ($reply_msg) {
    if (($MRC != 0) && ($count >= $MRC)) {
        print STDERR
            "No reply after maximum retransmission count.\n";
    } else {
        print STDERR
            "No reply after maximum retransmission duration.\n";
    }
}

if ($reply_msg && ($reply_msg->{msg_type} == $MSG_REPLY)) {
    print "Got DHCPv6 Reply message.\n";
    exit(0);
}

#$Data::Dumper::Useqq = 1;
#print Dumper($msg), "\n";
#print Dumper($msg->packet()), "\n";
#
#print "packet length: ", length($msg->packet()), "\n";
#! /usr/bin/perl -w

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```

```

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# 950 Charter Street
# Redwood City, CA 94063
# <info@isc.org>
# https://www.isc.org/

use strict;
use English;
use Time::HiRes qw( sleep );
use Socket;
use Socket6;
use IO::Select;

use dhcp_client;

# XXX: for debugging
use Data::Dumper;
$Data::Dumper::Useqq = 1;

# not-yet-standard options
my $OPT_TIME_SERVERS = 40;
my $OPT_TIME_OFFSET = 41;

# DOCSIS sub-options
my $DOCSIS_OPT_ORO = 1;
# 2 to 31 are reserved
my $DOCSIS_OPT_TFTP_SERVERS = 32;
my $DOCSIS_OPT_CONFIG_FILE_NAME = 33;
my $DOCSIS_OPT_SYSLOG_SERVERS = 34;
my $DOCSIS_OPT_TLV5 = 35;
my $DOCSIS_OPT_DEVICE_ID = 36;
my $DOCSIS_OPT_CCC = 37;
my $DOCSIS_OPT_VERS = 38;

# well-known addresses

```

```

my $All_DHCP_Relay_Agents_and_Servers = "ff02::1:2";
my $All_DHCP_Servers = "ff05::1:3";

# ports
my $client_port = 546;
my $server_port = 547;

# create a new Solicit message
my $msg = dhcp_client::msg->new($MSG_SOLICIT);

# add the Client Identifier (required by DOCSIS and RFC 3315)
my $client_id = "\x00\x01\x00\x01\x0c\x00\xa1\x41\x00\x06\x5b\x50\x99\xf6";
#my $client_id = dhcp_client::duid(3);
$msg->add_option($OPT_CLIENTID, $client_id);
#$msg->add_option($OPT_CLIENTID, dhcp_client::duid(3));

# add Elapsed Time, set to 0 on first packet (required by RFC 3315)
$msg->add_option($OPT_ELAPSED_TIME, "\x00\x00");

# add IA_NA for each interface (required by DOCSIS and RFC 3315)
# XXX: should this be a single interface only?
my $iaid = 0;
foreach my $iface (dhcp_client::iface()) {
    my $option_data = pack("NN", ++$iaid, 0, 0);
    my $enc_opt = dhcp_client::msg->new(0);
    $enc_opt->add_option($OPT_CLIENTID, $client_id);
    $option_data .= $enc_opt->packed_options();
    $msg->add_option($OPT_IA_NA, $option_data);
}

# add Reconfigure Accept (required by DOCSIS)
$msg->add_option($OPT_RECONF_ACCEPT, "");

# add Options Request (required by DOCSIS, recommended by RFC 3315)
my @oro = ( $OPT_TIME_SERVERS, $OPT_TIME_OFFSET );
$msg->add_option($OPT_ORO, pack("n*", @oro));

# add Vendor Class option (required by DOCSIS)
$msg->add_option($OPT_VENDOR_CLASS, pack("N", 4491) . "docsis3.0");

# add Vendor-specific Information Option option (required by DOCSIS)
my $vsio = pack("N", 4491);

# ORO (required by DOCSIS)
my @docsis_oro = ( $DOCSIS_OPT_TFTP_SERVERS );
$vsio .= pack("nnC*", $DOCSIS_OPT_ORO, 0+@docsis_oro, @docsis_oro);

# TLV5 data: CMTS DOCSIS version number 3.0 (required by DOCSIS)

```

```

my $tlv5_data = "\x01\x02\x03\x0";
$vsio .= pack("nn", $DOCSIS_OPT_TLV5, length($tlv5_data)) . $tlv5_data;

# DOCSIS Device (required by DOCSIS)
my $docsis_device_id = dhcp_client::mac_addr_binary();
$vsio .= pack("nn", $DOCSIS_OPT_DEVICE_ID, length($docsis_device_id));
$vsio .= $docsis_device_id;

$msg->add_option($OPT_VENDOR_OPTS, $vsio);

# add Rapid Commit option (required by DOCSIS)
$msg->add_option($OPT_RAPID_COMMIT, "");

# timeout parameters, from DOCSIS
my $IRT = $SOL_TIMEOUT;
my $MRT = $SOL_MAX_RT;
my $MRC = 4; # DOCSIS says 4, RFC 3315 says it SHOULD be 0
my $MRD = 0;

# sleep a random amount of time between 0 and 1 second, required by RFC 3315
# XXX: this seems pretty stupid
sleep(rand($SOL_MAX_DELAY));

my $RT;
my $count = 0;
my $mrd_end_time;
if ($MRD != 0) {
    $mrd_end_time = time() + $MRD;
}
my $reply_msg;
do {
    # create our socket, and send our Solicit
    socket(SOCK, PF_INET6, SOCK_DGRAM, getprotobyname('udp')) || die;
    my $addr = inet_pton(AF_INET6, $All_DHCP_Servers);
    my $packet = $msg->packet();
    my $send_ret = send(SOCK, $packet, 0,
        pack_sockaddr_in6($server_port, $addr));
    if (not defined($send_ret)) {
        printf STDERR
            "Error %d sending DHCPv6 Solicit message;\n%s\n",
            0+$ERRNO, $ERRNO;
        exit(1);
    } elsif ($send_ret != length($packet)) {
        print STDERR "Unable to send entire DHCPv6 Solicit message.\n";
        exit(1);
    }
}
$count++;

```



```

my $RAND = rand(0.2) - 0.1;
if (defined $RT) {
    $RT = 2*$RT + $RAND*$RT;
    if (($RT > $MRT) && ($MRT != 0)) {
        $RT = $MRT + $RAND*$RT;
    }
} else {
    $RT = $IRT + $RAND*$IRT;
}

my $rt_end_time = time() + $RT;
if (defined($mrd_end_time) && ($mrd_end_time > $rt_end_time)) {
    $rt_end_time = $mrd_end_time;
}

for (;;) {
    my $timeout = $rt_end_time - time();
    if ($timeout < 0) {
        # print STDERR "Timeout waiting for DHCPv6 Advertise ",
        # "or Reply message.\n";
        last;
    }

    my @ready = IO::Select->new(\*SOCK)->can_read($timeout);

    if (@ready) {
        my $reply;
        my $recv_ret;

        $recv_ret = recv(SOCK, $reply, 1500, 0);
        if (not defined $recv_ret) {
            printf STDERR
                "Error %d receiving DHCPv6 " .
                "message;\n%\s\n",
                0+$ERRNO, $ERRNO;
            exit(1);
        }

        $reply_msg = dhcp_client::msg::decode($reply, 1);
        if (($reply_msg->{msg_type} == $MSG_ADVERTISE) ||
            ($reply_msg->{msg_type} == $MSG_REPLY)) {
            last;
        }
    }
}

} until ($reply_msg ||
        (($MRC != 0) && ($count > $MRC)) ||

```

```

(defined($mrd_end_time) && ($mrd_end_time > time()));

unless ($reply_msg) {
if (($MRC != 0) && ($count >= $MRC)) {
print STDERR
"No reply after maximum retransmission count.\n";
} else {
print STDERR
"No reply after maximum retransmission duration.\n";
}
}

if ($reply_msg && ($reply_msg->{msg_type} == $MSG_REPLY)) {
print "Got DHCPv6 Reply message.\n";
#print Dumper($reply_msg), "\n";
exit(0);
}

#print Dumper($msg), "\n";
#print Dumper($msg->packet()), "\n";
#
#print "packet length: ", length($msg->packet()), "\n";
#! /usr/bin/perl -w

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# Internet Systems Consortium, Inc.
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# Redwood City, CA 94063
# <info@isc.org>
# https://www.isc.org/

use strict;
use English;
use Time::HiRes qw( sleep );
use Socket;

```

```

use Socket6;
use IO::Select;

use dhcp_client;

# XXX: for debugging
use Data::Dumper;
$Data::Dumper::Useqq = 1;

# not-yet-standard options
my $OPT_TIME_SERVERS = 40;
my $OPT_TIME_OFFSET = 41;

# DOCSIS sub-options
my $DOCSIS_OPT_ORO = 1;
# 2 to 31 are reserved
my $DOCSIS_OPT_TFTP_SERVERS = 32;
my $DOCSIS_OPT_CONFIG_FILE_NAME = 33;
my $DOCSIS_OPT_SYSLOG_SERVERS = 34;
my $DOCSIS_OPT_TLV5 = 35;
my $DOCSIS_OPT_DEVICE_ID = 36;
my $DOCSIS_OPT_CCC = 37;
my $DOCSIS_OPT_VERS = 38;

# well-known addresses
my $All_DHCP_Relay_Agents_and_Servers = "ff02::1:2";
my $All_DHCP_Servers = "ff05::1:3";

# ports
my $client_port = 546;
my $server_port = 547;

# create a new Solicit message
my $msg = dhcp_client::msg->new($MSG_SOLICIT);

# add the Client Identifier (required by DOCSIS and RFC 3315)
my $client_id = "\x00\x01\x00\x01\x0c\x00\xa1\x41\x00\x06\x5b\x50\x99\xf6";
#my $client_id = dhcp_client::duid(3);
$msg->add_option($OPT_CLIENTID, $client_id);
#$msg->add_option($OPT_CLIENTID, dhcp_client::duid(3));

# add Elapsed Time, set to 0 on first packet (required by RFC 3315)
$msg->add_option($OPT_ELAPSED_TIME, "\x00\x00");

# add IA_NA for each interface (required by DOCSIS and RFC 3315)
# XXX: should this be a single interface only?
my $iaid = 0;
foreach my $iface (dhcp_client::iface()) {

```

```

my $option_data = pack("NNN", ++$iaid, 0, 0);
my $enc_opt = dhcp_client::msg->new(0);
$enc_opt->add_option($OPT_CLIENTID, $client_id);
$option_data .= $enc_opt->packed_options();
$msg->add_option($OPT_IA_NA, $option_data);
}

# add Reconfigure Accept (required by DOCSIS)
$msg->add_option($OPT_RECONF_ACCEPT, "");

# add Options Request (required by DOCSIS, recommended by RFC 3315)
my @oro = ( $OPT_TIME_SERVERS, $OPT_TIME_OFFSET );
$msg->add_option($OPT_ORO, pack("n*", @oro));

# add Vendor Class option (required by DOCSIS)
$msg->add_option($OPT_VENDOR_CLASS, pack("N", 4491) . "docsis3.0");

# add Vendor-specific Information Option option (required by DOCSIS)
my $vsio = pack("N", 4491);

# ORO (required by DOCSIS)
my @docsis_oro = ( $DOCSIS_OPT_TFTP_SERVERS );
$vsio .= pack("nnC*", $DOCSIS_OPT_ORO, 0+@docsis_oro, @docsis_oro);

# TLV5 data: CMTS DOCSIS version number 3.0 (required by DOCSIS)
my $tlv5_data = "\x01\x02\x03\x0";
$vsio .= pack("nn", $DOCSIS_OPT_TLV5, length($tlv5_data)) . $tlv5_data;

# DOCSIS Device (required by DOCSIS)
my $docsis_device_id = dhcp_client::mac_addr_binary();
$vsio .= pack("nn", $DOCSIS_OPT_DEVICE_ID, length($docsis_device_id));
$vsio .= $docsis_device_id;

$msg->add_option($OPT_VENDOR_OPTS, $vsio);

# add Rapid Commit option (required by DOCSIS)
#$msg->add_option($OPT_RAPID_COMMIT, "");

# timeout parameters, from DOCSIS
my $IRT = $SOL_TIMEOUT;
my $MRT = $SOL_MAX_RT;
my $MRC = 4; # DOCSIS says 4, RFC 3315 says it SHOULD be 0
my $MRD = 0;

# sleep a random amount of time between 0 and 1 second, required by RFC 3315
# XXX: this seems pretty stupid
sleep(rand($SOL_MAX_DELAY));

```

```

my $RT;
my $count = 0;
my $mrd_end_time;
if ($MRD != 0) {
    $mrd_end_time = time() + $MRD;
}
my $reply_msg;
do {
    # create our socket, and send our Solicit
    socket(SOCK, PF_INET6, SOCK_DGRAM, getprotobyname('udp')) || die;
    my $addr = inet_pton(AF_INET6, $All_DHCP_Servers);
    my $packet = $msg->packet();
    my $send_ret = send(SOCK, $packet, 0,
        pack_sockaddr_in6($server_port, $addr));
    if (not defined($send_ret)) {
        printf STDERR
            "Error %d sending DHCPv6 Solicit message;\n%s\n",
            0+$ERRNO, $ERRNO;
        exit(1);
    } elsif ($send_ret != length($packet)) {
        print STDERR "Unable to send entire DHCPv6 Solicit message.\n";
        exit(1);
    }
    $count++;

    my $RAND = rand(0.2) - 0.1;
    if (defined $RT) {
        $RT = 2*$RT + $RAND*$RT;
        if (($RT > $MRT) && ($MRT != 0)) {
            $RT = $MRT + $RAND*$RT;
        }
    } else {
        $RT = $IRT + $RAND*$IRT;
    }

    my $rt_end_time = time() + $RT;
    if (defined($mrd_end_time) && ($mrd_end_time > $rt_end_time)) {
        $rt_end_time = $mrd_end_time;
    }

    for (;;) {
        my $timeout = $rt_end_time - time();
        if ($timeout < 0) {
            # print STDERR "Timeout waiting for DHCPv6 Advertise ",
            # "or Reply message.\n";
            last;
        }
    }
}

```

```

my @ready = IO::Select->new(\*SOCK)->can_read($timeout);

if (@ready) {
    my $reply;
    my $recv_ret;

    $recv_ret = recv(SOCK, $reply, 1500, 0);
    if (not defined $recv_ret) {
        printf STDERR
            "Error %d receiving DHCPv6 " .
            "message;\n%s\n",
            0+$ERRNO, $ERRNO;
        exit(1);
    }

    $reply_msg = dhcp_client::msg::decode($reply, 1);
    if (($reply_msg->{msg_type} == $MSG_ADVERTISE) ||
        ($reply_msg->{msg_type} == $MSG_REPLY)) {
        last;
    }
}

} until ($reply_msg ||
    (($MRC != 0) && ($count > $MRC)) ||
    (defined($mrd_end_time) && ($mrd_end_time > time())));

unless ($reply_msg) {
    if (($MRC != 0) && ($count >= $MRC)) {
        print STDERR
            "No reply after maximum retransmission count.\n";
    } else {
        print STDERR
            "No reply after maximum retransmission duration.\n";
    }
}

if ($reply_msg && ($reply_msg->{msg_type} == $MSG_REPLY)) {
    print "Got DHCPv6 Reply message.\n";
    #print Dumper($reply_msg), "\n";
    exit(0);
}

#print Dumper($msg), "\n";
#print Dumper($msg->packet()), "\n";
#
#print "packet length: ", length($msg->packet()), "\n";

```

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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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# 1.72 e2fsprogs 1.41.12 :22.e16

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Gadi Oxman, August 1995

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```
#!/bin/sh
```

```
find . -type f \! -name \*~ \! -exec grep -q Begin-Header \{\} \; -print \  
| grep -v ^./build
```

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/](http://tsx-11.mit.edu/pub/linux/packages/ext2fs/)

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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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It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library 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/

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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) \$(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)

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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## 1.73 e2fsprogs-libs 1.41.12 :22.el6

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Gadi Oxman, August 1995

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```
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```

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```
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```

```
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```
#!/bin/sh
```

```
find . -type f ! -name \*~ ! -exec grep -q Begin-Header \{\} \; -print \  
| grep -v ^./build
```

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:  
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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/](http://tsx-11.mit.edu/pub/linux/packages/ext2fs/)

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23-June-2007

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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) $(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)

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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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 a program 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.

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 each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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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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.

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- a) The modified work must itself be a software library.
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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.
- 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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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.

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a) Accompany the combined library with a copy of the same work

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<signature of Ty Coon>, 1 April 1990  
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That's all there is to it!

## 1.76 elfutils 0.161 :3.el6

### 1.76.1 Available under license :

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Version 3, 29 June 2007

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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.

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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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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

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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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## 1.77 elfutils-libelf 0.164 :2.el6

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## 1.78 elfutils-libelf 0.161 :3.el6

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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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## 1.79 elfutils-libs 0.161 :3.el6

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Version 3, 29 June 2007

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```

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```
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## 1.87 fipscheck 1.2.0 :7.e16

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# 1.89 firebreath 1.7

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## 1.93 gamin 0.1.10 :9.el6

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#
# This script attempts to guess a canonical system name similar to
```

```
# config.sub. If it succeeds, it prints the system name on stdout, and
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#
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/*
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```
*/
```

## 1.94 gawk 3.1.7 :10.el6\_7.3

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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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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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```

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

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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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"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.

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<signature of Ty Coon>, 1 April 1990  
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Version 3.1, 31 March 2009

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## 1.96 GConf2 2.28.0 :6.e16

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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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under certain conditions; type `show c' for details.
```

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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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## 1.98 giflib 4.1.6 :3.1.e16

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## 1.99 glib 2.27.1

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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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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.

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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.

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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.

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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 Ben Gertzfield <che@debian.org>  
on Tue, 17 Nov 1998 00:16:10 -0800

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```
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```

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```
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## 1.103 gmp 4.3.1 :10.e16

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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

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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 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) 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

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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 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.

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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.

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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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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

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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.

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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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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.)

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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.

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```
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## 1.107 grep 2.20 :5.el6\_8

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\*/

# 1.112 gstreamer 0.10.35.1

## 1.112.1 Available under license :

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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.]

#### Preamble

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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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(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.

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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.

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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 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.

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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.)

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.

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#### END OF TERMS AND CONDITIONS

## Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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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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!

<sect1 id="chapter-legal">

<title id="title-legal">GStreamer Legal Issues</title>

<para>

This part of the FAQ is based on a series of questions we asked the FSF

to understand how the GPL works and how patents affects the GPL. These questions were answered by the [FSF lawyers](http://www.fsf.org/), so we view them as the final interpretation on how the GPL and LGPL interact with patents in our opinion. This consultancy was paid for by [Fluendo](http://www.fluendo.com/) in order to obtain clear and quotable answers. These answers were certified by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.

<qandaset defaultlabel="qanda">

<qandaentry>

<question id="legal-distribute-three">

<para>

Can someone distribute the combination of

<itemizedlist>

<listitem><para>GStreamer, the LGPL library</para></listitem>

<listitem><para>MyPlayer, a GPL playback application</para></listitem>

<listitem><para>The binary-only Sorenson decoder</para></listitem>

</itemizedlist>

together in one distribution/operating system ? If not, what needs to be changed to make this possible ?

</para>

</question>

<answer>

<para>

This would be a problem, because the GStreamer and MyPlayer licenses would forbid it. In order to link GStreamer to MyPlayer, you need to use section 3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL license forbids this.

</para>

<para>

If the authors of MyPlayer want to permit this, we have an exception for them: the controlled interface exception from the FAQ. The idea of this is that you can't get around the GPL just by including a LGPL bit in the middle.

</para>

<para>

Note: MyPlayer is a completely fictitious application at the time of writing.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-binary-plugin">

<para>

Suppose Apple wants to write a binary-only proprietary plugin for GStreamer to decode Sorenson video, which will be shipped stand-alone, not part of a package like in the question above.

Can Apple distribute this binary-only plugin ?

</para>

</question>

<answer>

<para>

Yes, modulo certain reverse engineering requirements in section 6 of the LGPL.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-program">

<para>

If a program released under the GPL uses a library that is LGPL, and this library can dlopen plug-ins at runtime, what are the requirements for the license of the plug-in ?

</para>

</question>

<answer>

<para>

You may not distribute the plug-in with the GPL application. Distributing the plug-in alone, with the knowledge that it will be used primarily by GPL software is a bit of an edge case. We will not advise you that it would be safe to do so, but we also will not advise you that it would be absolutely forbidden.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-safe-countries">

<para>

Can someone in a country that does not have software patents distribute code covered by US patents under the GPL to people in, for example, Norway ? If he/she visits the US, can he/she be arrested ?

</para>

</question>

<answer>

<para>

Yes, he can.

No, there are no criminal penalties for patent infringement in the US.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-unsafe-countries">

<para>

Can someone from the US distribute software covered by US patents under the GPL to people in Norway ? To people in the US ?

</para>

</question>

<answer>

<para>

This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement. The US government is empowered to refuse importation of patent infringing devices, including software.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-library-patents">

<para>

There are a lot of GPL- or LGPL-licensed libraries that handle media codecs which have patents. Take mad, an mp3 decoding library, as an example. It is licensed under the GPL. In countries where patents are valid, does this invalidate the GPL license for this project ?

</para>

</question>

<answer>

<para>

The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement prevents you from distributing libmad under GPL terms, you can not distribute it at all.

</para>

<para>

The GPL and LGPL say (sections 7 and 11):

<quote>If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then

as a consequence you may not distribute the Library at all.</quote>

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-court-judgment">

<para>

So let's say there is a court judgement. Does this mean that the GPL license is invalid for the project everywhere, or only in the countries where it conflicts with the applicable patents ?

</para>

</question>

<answer>

<para>

The GPL operates on a per-action, not per-program basis. That is, if you are in a country which has software patents, and a court tells you that you cannot distribute (say) libmad in source code form, then you cannot distribute libmad at all. This doesn't affect anyone else.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-and-binary">

<para>

Patented decoding can be implemented in GStreamer either by having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library.

Does this affect the licensing issues involved in regards to GPL/LGPL?

</para>

</question>

<answer>

<para>

No.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-patent-distribution">

<para>

Is it correct that you cannot distribute the GPL mad library to decode mp3's, \*even\* in the case where you have obtained a valid license for decoding mp3 ?

</para>

</question>

<answer>

<para>

The only GPL-compatible patent licenses are those which are open to all parties possessing copies of GPL software which practices the teachings of the patent.

</para>

<para>

If you take a license which doesn't allow others to distribute original or modified versions of libmad practicing the same patent claims as the version you distribute, then you may not distribute at all.

</para>

</answer>

</qandaentry>

</qandaset>

</sect1>

/\* GStreamer

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\*/

/\* GStreamer

\* Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>

\*

2000 Wim Taymans <wtay@chello.be>

\*

\* gstpadtemplate.c: Templates for pad creation

\*

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```

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*/

/**
* SECTION:gstpadtemplate
* @short_description: Describe the media type of a pad.
* @see_also: #GstPad, #GstElementFactory
*
* Padtemplates describe the possible media types a pad or an elementfactory can
* handle. This allows for both inspection of handled types before loading the
* element plugin as well as identifying pads on elements that are not yet
* created (request or sometimes pads).
*
* Pad and PadTemplates have #GstCaps attached to it to describe the media type
* they are capable of dealing with. gst_pad_template_get_caps() or
* GST_PAD_TEMPLATE_CAPS() are used to get the caps of a padtemplate. It's not
* possible to modify the caps of a padtemplate after creation.
*
* PadTemplates have a #GstPadPresence property which identifies the lifetime
* of the pad and that can be retrieved with GST_PAD_TEMPLATE_PRESENCE(). Also
* the direction of the pad can be retrieved from the #GstPadTemplate with
* GST_PAD_TEMPLATE_DIRECTION().
*
* The GST_PAD_TEMPLATE_NAME_TEMPLATE () is important for GST_PAD_REQUEST pads
* because it has to be used as the name in the gst_element_get_request_pad()
* call to instantiate a pad from this template.
*
* Padtemplates can be created with gst_pad_template_new() or with
* gst_static_pad_template_get (), which creates a #GstPadTemplate from a
* #GstStaticPadTemplate that can be filled with the
* convenient GST_STATIC_PAD_TEMPLATE() macro.
*
* A padtemplate can be used to create a pad (see gst_pad_new_from_template()
* or gst_pad_new_from_static_template ()) or to add to an element class
* (see gst_element_class_add_pad_template ()).
*
* The following code example shows the code to create a pad from a padtemplate.
* <example>
* <title>Create a pad from a padtemplate</title>
* <programlisting>

```



```

* GstStaticPadTemplate my_template =
* GST_STATIC_PAD_TEMPLATE (
*   "sink",      // the name of the pad
*   GST_PAD_SINK, // the direction of the pad
*   GST_PAD_ALWAYS, // when this pad will be present
*   GST_STATIC_CAPS ( // the capabilities of the padtemplate
*   "audio/x-raw-int, "
*   "channels = (int) [ 1, 6 ]"
*   )
* );
* void
* my_method (void)
* {
*   GstPad *pad;
*   pad = gst_pad_new_from_static_template (&my_template, "sink");
*   ...
* }
* </programlisting>
* </example>
*
* The following example shows you how to add the padtemplate to an
* element class, this is usually done in the base_init of the class:
* <informalexample>
* <programlisting>
* static void
* my_element_base_init (gpointer g_class)
* {
*   GstElementClass *gstelement_class = GST_ELEMENT_CLASS (g_class);
*
*   gst_element_class_add_pad_template (gstelement_class,
*   gst_static_pad_template_get (&my_template));
* }
* </programlisting>
* </informalexample>
*
* Last reviewed on 2006-02-14 (0.10.3)
*/

```

```
#include "gst_private.h"
```

```
#include "gstpad.h"
```

```
#include "gstpadtemplate.h"
```

```
#include "gstenumtypes.h"
```

```
#include "gstmarshal.h"
```

```
#include "gstutils.h"
```

```
#include "gstinfo.h"
```

```
#include "gsterror.h"
```

```
#include "gstvalue.h"
```

```

#define GST_CAT_DEFAULT GST_CAT_PADS

enum
{
    PROP_NAME_TEMPLATE = 1,
    PROP_DIRECTION,
    PROP_PRESENCE,
    PROP_CAPS
};

enum
{
    TEMPL_PAD_CREATED,
    /* FILL ME */
    LAST_SIGNAL
};

static GObject *parent_class = NULL;
static guint gst_pad_template_signals[LAST_SIGNAL] = { 0 };

static void gst_pad_template_dispose (GObject * object);
static void gst_pad_template_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec);
static void gst_pad_template_get_property (GObject * object, guint prop_id,
    GValue * value, GParamSpec * pspec);

G_DEFINE_TYPE (GstPadTemplate, gst_pad_template, GST_TYPE_OBJECT);

static void
gst_pad_template_class_init (GstPadTemplateClass * klass)
{
    GObjectClass *gobject_class;
    GstObjectClass *gstobject_class;

    gobject_class = (GObjectClass *) klass;
    gstobject_class = (GstObjectClass *) klass;

    parent_class = g_type_class_peek_parent (klass);

    /**
     * GstPadTemplate::pad-created:
     * @pad_template: the object which received the signal.
     * @pad: the pad that was created.
     *
     * This signal is fired when an element creates a pad from this template.
     */
    gst_pad_template_signals[TEMPL_PAD_CREATED] =

```

```

    g_signal_new ("pad-created", G_TYPE_FROM_CLASS (klass), G_SIGNAL_RUN_LAST,
    G_STRUCT_OFFSET (GstPadTemplateClass, pad_created),
    NULL, NULL, gst_marshall_VOID__OBJECT, G_TYPE_NONE, 1, GST_TYPE_PAD);

gobject_class->dispose = gst_pad_template_dispose;

gobject_class->get_property = gst_pad_template_get_property;
gobject_class->set_property = gst_pad_template_set_property;

/**
 * GstPadTemplate:name-template
 *
 * The name template of the pad template.
 *
 * Since: 0.10.21
 */
g_object_class_install_property (gobject_class, PROP_NAME_TEMPLATE,
    g_param_spec_string ("name-template", "Name template",
        "The name template of the pad template", NULL,
        G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));

/**
 * GstPadTemplate:direction
 *
 * The direction of the pad described by the pad template.
 *
 * Since: 0.10.21
 */
g_object_class_install_property (gobject_class, PROP_DIRECTION,
    g_param_spec_enum ("direction", "Direction",
        "The direction of the pad described by the pad template",
        GST_TYPE_PAD_DIRECTION, GST_PAD_UNKNOWN,
        G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));

/**
 * GstPadTemplate:presence
 *
 * When the pad described by the pad template will become available.
 *
 * Since: 0.10.21
 */
g_object_class_install_property (gobject_class, PROP_PRESENCE,
    g_param_spec_enum ("presence", "Presence",
        "When the pad described by the pad template will become available",
        GST_TYPE_PAD_PRESENCE, GST_PAD_ALWAYS,
        G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));

/**

```

```

* GstPadTemplate:caps
*
* The capabilities of the pad described by the pad template.
*
* Since: 0.10.21
*/
g_object_class_install_property (gobject_class, PROP_CAPS,
    g_param_spec_boxed ("caps", "Caps",
        "The capabilities of the pad described by the pad template",
        GST_TYPE_CAPS,
        G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));

gstobject_class->path_string_separator = "*";
}

static void
gst_pad_template_init (GstPadTemplate * templ)
{
    /* FIXME 0.11: Does anybody remember why this is here? If not, let's
    * change it for 0.11 and let gst_element_class_add_pad_template() for
    * example ref/sink the pad templates.
    */
    /* We ensure that the pad template we're creating has a sunken reference.
    * Inconsistencies in pad templates being floating or sunken has caused
    * problems in the past with leaks, etc.
    *
    * For consistency, then, we only produce them with sunken references
    * owned by the creator of the object
    */
    if (GST_OBJECT_IS_FLOATING (templ)) {
        gst_object_ref_sink (templ);
    }
}

static void
gst_pad_template_dispose (GObject * object)
{
    GstPadTemplate *templ = GST_PAD_TEMPLATE (object);

    g_free (GST_PAD_TEMPLATE_NAME_TEMPLATE (templ));
    if (GST_PAD_TEMPLATE_CAPS (templ)) {
        gst_caps_unref (GST_PAD_TEMPLATE_CAPS (templ));
    }

    G_OBJECT_CLASS (parent_class)->dispose (object);
}

/* ALWAYS padtemplates cannot have conversion specifications (like src_%d),

```

```

* since it doesn't make sense.
* SOMETIMES padtemplates can do whatever they want, they are provided by the
* element.
* REQUEST padtemplates can be reverse-parsed (the user asks for 'sink1', the
* 'sink%d' template is automatically selected), so we need to restrict their
* naming.
*/
static gboolean
name_is_valid (const gchar * name, GstPadPresence presence)
{
    const gchar *str;

    if (presence == GST_PAD_ALWAYS) {
        if (strchr (name, '%')) {
            g_warning ("invalid name template %s: conversion specifications are not"
                " allowed for GST_PAD_ALWAYS padtemplates", name);
            return FALSE;
        }
    } else if (presence == GST_PAD_REQUEST) {
        if ((str = strchr (name, '%')) && strchr (str + 1, '%')) {
            g_warning ("invalid name template %s: only one conversion specification"
                " allowed in GST_PAD_REQUEST padtemplate", name);
            return FALSE;
        }
        if (str && *(str + 1) != 's' && *(str + 1) != 'd' && *(str + 1) != 'u') {
            g_warning ("invalid name template %s: conversion specification must be of"
                " type '%%d', '%%u' or '%%s' for GST_PAD_REQUEST padtemplate", name);
            return FALSE;
        }
        if (str && *(str + 2) != '\0') {
            g_warning ("invalid name template %s: conversion specification must"
                " appear at the end of the GST_PAD_REQUEST padtemplate name", name);
            return FALSE;
        }
    }

    return TRUE;
}

GType
gst_static_pad_template_get_type (void)
{
    static GType staticpadtemplate_type = 0;

    if (G_UNLIKELY (staticpadtemplate_type == 0)) {
        staticpadtemplate_type =
            g_pointer_type_register_static ("GstStaticPadTemplate");
    }
}

```

```

return staticpadtemplate_type;
}

/**
 * gst_static_pad_template_get:
 * @pad_template: the static pad template
 *
 * Converts a #GstStaticPadTemplate into a #GstPadTemplate.
 *
 * Returns: (transfer full): a new #GstPadTemplate.
 */
/* FIXME0.11: rename to gst_pad_template_new_from_static_pad_template() */
GstPadTemplate *
gst_static_pad_template_get (GstStaticPadTemplate * pad_template)
{
    GstPadTemplate *new;
    GstCaps *caps;

    if (!name_is_valid (pad_template->name_template, pad_template->presence))
        return NULL;

    caps = gst_static_caps_get (&pad_template->static_caps);

    new = g_object_new (gst_pad_template_get_type (),
        "name", pad_template->name_template,
        "name-template", pad_template->name_template,
        "direction", pad_template->direction,
        "presence", pad_template->presence, "caps", caps, NULL);

    gst_caps_unref (caps);

    return new;
}

/**
 * gst_pad_template_new:
 * @name_template: the name template.
 * @direction: the #GstPadDirection of the template.
 * @presence: the #GstPadPresence of the pad.
 * @caps: (transfer full): a #GstCaps set for the template. The caps are
 *   taken ownership of.
 *
 * Creates a new pad template with a name according to the given template
 * and with the given arguments. This functions takes ownership of the provided
 * caps, so be sure to not use them afterwards.
 *
 * Returns: (transfer full): a new #GstPadTemplate.
 */

```

```

GstPadTemplate *
gst_pad_template_new (const gchar * name_template,
    GstPadDirection direction, GstPadPresence presence, GstCaps * caps)
{
    GstPadTemplate *new;

    g_return_val_if_fail (name_template != NULL, NULL);
    g_return_val_if_fail (caps != NULL, NULL);
    g_return_val_if_fail (direction == GST_PAD_SRC
        || direction == GST_PAD_SINK, NULL);
    g_return_val_if_fail (presence == GST_PAD_ALWAYS
        || presence == GST_PAD_SOMETIMES || presence == GST_PAD_REQUEST, NULL);

    if (!name_is_valid (name_template, presence)) {
        gst_caps_unref (caps);
        return NULL;
    }

    new = g_object_new (gst_pad_template_get_type (),
        "name", name_template, "name-template", name_template,
        "direction", direction, "presence", presence, "caps", caps, NULL);

    gst_caps_unref (caps);

    return new;
}

/**
 * gst_static_pad_template_get_caps:
 * @templ: a #GstStaticPadTemplate to get capabilities of.
 *
 * Gets the capabilities of the static pad template.
 *
 * Returns: (transfer full): the #GstCaps of the static pad template.
 * Unref after usage. Since the core holds an additional
 * ref to the returned caps, use gst_caps_make_writable()
 * on the returned caps to modify it.
 */
GstCaps *
gst_static_pad_template_get_caps (GstStaticPadTemplate * templ)
{
    g_return_val_if_fail (templ, NULL);

    return (GstCaps *) gst_static_caps_get (&templ->static_caps);
}

/**
 * gst_pad_template_get_caps:

```

```

* @templ: a #GstPadTemplate to get capabilities of.
*
* Gets the capabilities of the pad template.
*
* Returns: (transfer none): the #GstCaps of the pad template. If you need to
* keep a reference to the caps, take a ref (see gst_caps_ref ()).
*/
GstCaps *
gst_pad_template_get_caps (GstPadTemplate * templ)
{
    g_return_val_if_fail (GST_IS_PAD_TEMPLATE (templ), NULL);

    return GST_PAD_TEMPLATE_CAPS (templ);
}

/**
* gst_pad_template_pad_created:
* @templ: a #GstPadTemplate that has been created
* @pad: the #GstPad that created it
*
* Emit the pad-created signal for this template when created by this pad.
*/
void
gst_pad_template_pad_created (GstPadTemplate * templ, GstPad * pad)
{
    g_signal_emit (templ, gst_pad_template_signals[TEMPL_PAD_CREATED], 0, pad);
}

static void
gst_pad_template_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec)
{
    /* these properties are all construct-only */
    switch (prop_id) {
        case PROP_NAME_TEMPLATE:
            GST_PAD_TEMPLATE_NAME_TEMPLATE (object) = g_value_dup_string (value);
            break;
        case PROP_DIRECTION:
            GST_PAD_TEMPLATE_DIRECTION (object) =
                (GstPadDirection) g_value_get_enum (value);
            break;
        case PROP_PRESENCE:
            GST_PAD_TEMPLATE_PRESENCE (object) =
                (GstPadPresence) g_value_get_enum (value);
            break;
        case PROP_CAPS:
            /* allow caps == NULL for backwards compatibility (ie. g_object_new()
            * called without any of the new properties) (FIXME 0.11) */

```



```

    if (g_value_get_boxed (value) != NULL) {
        GST_PAD_TEMPLATE_CAPS (object) =
            gst_caps_copy (g_value_get_boxed (value));
    }
    break;
default:
    G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
    break;
}
}

static void
gst_pad_template_get_property (GObject * object, guint prop_id, GValue * value,
    GParamSpec * pspec)
{
    /* these properties are all construct-only */
    switch (prop_id) {
        case PROP_NAME_TEMPLATE:
            g_value_set_string (value, GST_PAD_TEMPLATE_NAME_TEMPLATE (object));
            break;
        case PROP_DIRECTION:
            g_value_set_enum (value, GST_PAD_TEMPLATE_DIRECTION (object));
            break;
        case PROP_PRESENCE:
            g_value_set_enum (value, GST_PAD_TEMPLATE_PRESENCE (object));
            break;
        case PROP_CAPS:
            g_value_set_boxed (value, GST_PAD_TEMPLATE_CAPS (object));
            break;
        default:
            G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
            break;
    }
}

/* GStreamer
 * Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>
 *      2000 Wim Taymans <wim.taymans@chello.be>
 *
 * gstpadtemplate.h: Header for GstPadTemplate object
 *
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 * version 2 of the License, or (at your option) any later version.
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```

```

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* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/

```

```

#ifndef __GST_PAD_TEMPLATE_H__
#define __GST_PAD_TEMPLATE_H__

```

```

#include <gst/gstconfig.h>

```

```

#include <gst/gstobject.h>
#include <gst/gstbuffer.h>
#include <gst/gstcaps.h>
#include <gst/gstevent.h>
#include <gst/gstquery.h>
#include <gst/gsttask.h>

```

```

G_BEGIN_DECLS

```

```

/* FIXME: this awful circular dependency need to be resolved properly (see pad.h) */

```

```

/*typedef struct _GstPadTemplate GstPadTemplate; */

```

```

typedef struct _GstPadTemplateClass GstPadTemplateClass;

```

```

typedef struct _GstStaticPadTemplate GstStaticPadTemplate;

```

```

#define GST_TYPE_STATIC_PAD_TEMPLATE (gst_static_pad_template_get_type ())

```

```

#define GST_TYPE_PAD_TEMPLATE (gst_pad_template_get_type ())

```

```

#define GST_PAD_TEMPLATE(obj) (G_TYPE_CHECK_INSTANCE_CAST ((obj),
GST_TYPE_PAD_TEMPLATE, GstPadTemplate))

```

```

#define GST_PAD_TEMPLATE_CLASS(klass) (G_TYPE_CHECK_CLASS_CAST ((klass),
GST_TYPE_PAD_TEMPLATE, GstPadTemplateClass))

```

```

#define GST_IS_PAD_TEMPLATE(obj) (G_TYPE_CHECK_INSTANCE_TYPE ((obj),
GST_TYPE_PAD_TEMPLATE))

```

```

#define GST_IS_PAD_TEMPLATE_CLASS(klass) (G_TYPE_CHECK_CLASS_TYPE ((klass),
GST_TYPE_PAD_TEMPLATE))

```

```

/**

```

```

* GstPadPresence:

```

```

* @GST_PAD_ALWAYS: the pad is always available

```

```

* @GST_PAD_SOMETIMES: the pad will become available depending on the media stream

```

```

* @GST_PAD_REQUEST: the pad is only available on request with

```

```

* gst_element_get_request_pad().

```

```

*

```

```

* Indicates when this pad will become available.

```

```

*/
typedef enum {
    GST_PAD_ALWAYS,
    GST_PAD_SOMETIMES,
    GST_PAD_REQUEST
} GstPadPresence;

/**
 * GST_PAD_TEMPLATE_NAME_TEMPLATE:
 * @templ: the template to query
 *
 * Get the nametemplate of the padtemplate.
 */
#define GST_PAD_TEMPLATE_NAME_TEMPLATE(templ) (((GstPadTemplate *) (templ))->name_template)

/**
 * GST_PAD_TEMPLATE_DIRECTION:
 * @templ: the template to query
 *
 * Get the #GstPadDirection of the padtemplate.
 */
#define GST_PAD_TEMPLATE_DIRECTION(templ) (((GstPadTemplate *) (templ))->direction)

/**
 * GST_PAD_TEMPLATE_PRESENCE:
 * @templ: the template to query
 *
 * Get the #GstPadPresence of the padtemplate.
 */
#define GST_PAD_TEMPLATE_PRESENCE(templ) (((GstPadTemplate *) (templ))->presence)

/**
 * GST_PAD_TEMPLATE_CAPS:
 * @templ: the template to query
 *
 * Get a handle to the padtemplate #GstCaps
 */
#define GST_PAD_TEMPLATE_CAPS(templ) (((GstPadTemplate *) (templ))->caps)

/**
 * GstPadTemplateFlags:
 * @GST_PAD_TEMPLATE_FIXED: the padtemplate has no variable properties
 * @GST_PAD_TEMPLATE_FLAG_LAST: first flag that can be used by subclasses.
 *
 * Flags for the padtemplate
 */
typedef enum {
    /* FIXME0.11: this is not used and the purpose is unclear */

```

```

GST_PAD_TEMPLATE_FIXED    = (GST_OBJECT_FLAG_LAST << 0),
/* padding */
GST_PAD_TEMPLATE_FLAG_LAST = (GST_OBJECT_FLAG_LAST << 4)
} GstPadTemplateFlags;

/**
 * GST_PAD_TEMPLATE_IS_FIXED:
 * @templ: the template to query
 *
 * Check if the properties of the padtemplate are fixed
 */
#define GST_PAD_TEMPLATE_IS_FIXED(templ) (GST_OBJECT_FLAG_IS_SET(templ,
GST_PAD_TEMPLATE_FIXED))

/**
 * GstPadTemplate:
 *
 * The padtemplate object.
 */
struct _GstPadTemplate {
    GObject    object;

    gchar      *name_template;
    GstPadDirection direction;
    GstPadPresence presence;
    GstCaps    *caps;

    gpointer _gst_reserved[GST_PADDING];
};

struct _GstPadTemplateClass {
    GObjectClass parent_class;

    /* signal callbacks */
    void (*pad_created) (GstPadTemplate *templ, GstPad *pad);

    gpointer _gst_reserved[GST_PADDING];
};

/**
 * GstStaticPadTemplate:
 * @name_template: the name of the template
 * @direction: the direction of the template
 * @presence: the presence of the template
 * @static_caps: the caps of the template.
 *
 * Structure describing the #GstStaticPadTemplate.
 */

```

```

struct _GstStaticPadTemplate {
    const gchar *name_template;
    GstPadDirection direction;
    GstPadPresence presence;
    GstStaticCaps static_caps;
};

/**
 * GST_STATIC_PAD_TEMPLATE:
 * @padname: the name template of the pad
 * @dir: the GstPadDirection of the pad
 * @pres: the GstPadPresence of the pad
 * @caps: the GstStaticCaps of the pad
 *
 * Convenience macro to fill the values of a GstStaticPadTemplate
 * structure.
 */
#define GST_STATIC_PAD_TEMPLATE(padname, dir, pres, caps) \
{ \
    /* name_template */ padname, \
    /* direction */ dir, \
    /* presence */ pres, \
    /* caps */ caps \
}

/* templates and factories */
GType gst_pad_template_get_type (void);
GType gst_static_pad_template_get_type (void);

GstPadTemplate* gst_pad_template_new (const gchar *name_template,
    GstPadDirection direction, GstPadPresence presence,
    GstCaps *caps) G_GNUC_MALLOC;

GstPadTemplate * gst_static_pad_template_get (GstStaticPadTemplate *pad_template);
GstCaps* gst_static_pad_template_get_caps (GstStaticPadTemplate *templ);
GstCaps* gst_pad_template_get_caps (GstPadTemplate *templ);

void gst_pad_template_pad_created (GstPadTemplate * templ, GstPad * pad);

G_END_DECLS

#endif /* __GST_PAD_TEMPLATE_H__ */
/*
 * Check: a unit test framework for C
 * Copyright (C) 2001,2002 Arien Malec
 *
 * This library is free software; you can redistribute it and/or
 * modify it under the terms of the GNU Lesser General Public

```

```
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* version 2.1 of the License, or (at your option) any later version.
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* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
```

```
#ifndef CHECK_IMPL_H
#define CHECK_IMPL_H
```

```
/* This header should be included by any module that needs
to know the implementation details of the check structures
Include stdio.h & list.h before this header
*/
```

```
typedef struct TF {
    TFun fn;
    int loop_start;
    int loop_end;
    const char *name;
    int signal;
    unsigned char allowed_exit_value;
} TF;
```

```
struct Suite {
    const char *name;
    List *tclst; /* List of test cases */
};
```

```
typedef struct Fixture
{
    int ischecked;
    SFun fun;
} Fixture;
```

```
struct TCase {
    const char *name;
    int timeout;
    List *tflst; /* list of test functions */
    List *unch_sflst;
```

```

List *unch_tflst;
List *ch_sflst;
List *ch_tflst;
};

typedef struct TestStats {
int n_checked;
int n_failed;
int n_errors;
} TestStats;

struct TestResult {
enum test_result rtype; /* Type of result */
enum ck_result_ctx ctx; /* When the result occurred */
char *file; /* File where the test occurred */
int line; /* Line number where the test occurred */
int iter; /* The iteration value for looping tests */
const char *tname; /* Test case that generated the result */
const char *name; /* Test that generated the result */
char *msg; /* Failure message */
};

TestResult *tr_create(void);
void tr_reset(TestResult *tr);

enum cl_event {
CLINITLOG_SR,
CLENDLOG_SR,
CLSTART_SR,
CLSTART_S,
CLEND_SR,
CLEND_S,
CLSTART_T, /* A test case is about to run */
CLEND_T
};

typedef void (*LFun) (SRunner *, FILE*, enum print_output,
void *, enum cl_event);

typedef struct Log {
FILE *lfile;
LFun lfun;
int close;
enum print_output mode;
} Log;

struct SRunner {
List *slst; /* List of Suite objects */

```

```

TestStats *stats; /* Run statistics */
List *resultlst; /* List of unit test results */
const char *log_fname; /* name of log file */
const char *xml_fname; /* name of xml output file */
List *loglst; /* list of Log objects */
enum fork_status fstat; /* controls if suites are forked or not
    NOTE: Don't use this value directly,
    instead use srunner_fork_status */
};

void set_fork_status(enum fork_status fstat);
enum fork_status cur_fork_status (void);

#endif /* CHECK_IMPL_H */
/* GStreamer
* Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>
*     2000 Wim Taymans <wtay@chello.be>
*     2005 Wim Taymans <wim@fluendo.com>
*     2005 David Schleef <ds@schleef.org>
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* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
/**
* SECTION:element-capsfilter
*
* The element does not modify data as such, but can enforce limitations on the
* data format.
*
* <refsect2>
* <title>Example launch line</title>
* [[
* gst-launch videotestsrc ! video/x-raw-gray ! ffmpegcolorspace ! autovideosink
* ]] Limits acceptable video from videotestsrc to be grayscale.
* </refsect2>

```



```

*/

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

#include "../gst/gst-i18n-lib.h"
#include "gstcapsfilter.h"

enum
{
    PROP_0,
    PROP_FILTER_CAPS
};

static GstStaticPadTemplate sinktemplate = GST_STATIC_PAD_TEMPLATE ("sink",
    GST_PAD_SINK,
    GST_PAD_ALWAYS,
    GST_STATIC_CAPS_ANY);

static GstStaticPadTemplate srctemplate = GST_STATIC_PAD_TEMPLATE ("src",
    GST_PAD_SRC,
    GST_PAD_ALWAYS,
    GST_STATIC_CAPS_ANY);

GST_DEBUG_CATEGORY_STATIC (gst_capsfilter_debug);
#define GST_CAT_DEFAULT gst_capsfilter_debug

#define _do_init(bla) \
    GST_DEBUG_CATEGORY_INIT (gst_capsfilter_debug, "capsfilter", 0, \
        "capsfilter element");

GST_BOILERPLATE_FULL (GstCapsFilter, gst_capsfilter, GstBaseTransform,
    GST_TYPE_BASE_TRANSFORM, _do_init);

static void gst_capsfilter_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec);
static void gst_capsfilter_get_property (GObject * object, guint prop_id,
    GValue * value, GParamSpec * pspec);
static void gst_capsfilter_dispose (GObject * object);

static GstCaps *gst_capsfilter_transform_caps (GstBaseTransform * base,
    GstPadDirection direction, GstCaps * caps);
static gboolean gst_capsfilter_accept_caps (GstBaseTransform * base,
    GstPadDirection direction, GstCaps * caps);

```

```

static GstFlowReturn gst_capsfilter_transform_ip (GstBaseTransform * base,
    GstBuffer * buf);
static GstFlowReturn gst_capsfilter_prepare_buf (GstBaseTransform * trans,
    GstBuffer * input, gint size, GstCaps * caps, GstBuffer ** buf);

static void
gst_capsfilter_base_init (gpointer g_class)
{
    GstElementClass *gstelement_class = GST_ELEMENT_CLASS (g_class);

    gst_element_class_set_details_simple (gstelement_class,
        "CapsFilter",
        "Generic",
        "Pass data without modification, limiting formats",
        "David Schleef <ds@schleef.org>");
    gst_element_class_add_pad_template (gstelement_class,
        gst_static_pad_template_get (&srctemplate));
    gst_element_class_add_pad_template (gstelement_class,
        gst_static_pad_template_get (&sinktemplate));
}

static void
gst_capsfilter_class_init (GstCapsFilterClass * klass)
{
    GObjectClass *gobject_class;
    GstBaseTransformClass *trans_class;

    gobject_class = G_OBJECT_CLASS (klass);
    gobject_class->set_property = gst_capsfilter_set_property;
    gobject_class->get_property = gst_capsfilter_get_property;
    gobject_class->dispose = gst_capsfilter_dispose;

    g_object_class_install_property (gobject_class, PROP_FILTER_CAPS,
        g_param_spec_boxed ("caps", _("Filter caps"),
            _("Restrict the possible allowed capabilities (NULL means ANY). "
                "Setting this property takes a reference to the supplied GstCaps "
                "object."), GST_TYPE_CAPS,
            G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS));

    trans_class = GST_BASE_TRANSFORM_CLASS (klass);
    trans_class->transform_caps =
        GST_DEBUG_FUNCPTR (gst_capsfilter_transform_caps);
    trans_class->transform_ip = GST_DEBUG_FUNCPTR (gst_capsfilter_transform_ip);
    trans_class->accept_caps = GST_DEBUG_FUNCPTR (gst_capsfilter_accept_caps);
    trans_class->prepare_output_buffer =
        GST_DEBUG_FUNCPTR (gst_capsfilter_prepare_buf);
}

```

```

static void
gst_capsfilter_init (GstCapsFilter * filter, GstCapsFilterClass * g_class)
{
    GstBaseTransform *trans = GST_BASE_TRANSFORM (filter);
    gst_base_transform_set_gap_aware (trans, TRUE);
    filter->filter_caps = gst_caps_new_any ();
}

static gboolean
copy_func (GQuark field_id, const GValue * value, GstStructure * dest)
{
    gst_structure_id_set_value (dest, field_id, value);

    return TRUE;
}

static void
gst_capsfilter_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec)
{
    GstCapsFilter *capsfilter = GST_CAPSFILTER (object);

    switch (prop_id) {
        case PROP_FILTER_CAPS: {
            GstCaps *new_caps;
            GstCaps *old_caps, *suggest, *nego;
            const GstCaps *new_caps_val = gst_value_get_caps (value);

            if (new_caps_val == NULL) {
                new_caps = gst_caps_new_any ();
            } else {
                new_caps = (GstCaps *) new_caps_val;
                gst_caps_ref (new_caps);
            }

            GST_OBJECT_LOCK (capsfilter);
            old_caps = capsfilter->filter_caps;
            capsfilter->filter_caps = new_caps;
            GST_OBJECT_UNLOCK (capsfilter);

            gst_caps_unref (old_caps);

            GST_DEBUG_OBJECT (capsfilter, "set new caps %" GST_PTR_FORMAT, new_caps);

            /* filter the currently negotiated format against the new caps */
            GST_OBJECT_LOCK (GST_BASE_TRANSFORM_SINK_PAD (object));
            nego = GST_PAD_CAPS (GST_BASE_TRANSFORM_SINK_PAD (object));
            if (nego) {

```

```

GST_DEBUG_OBJECT (capsfilter, "we had negotiated caps %" GST_PTR_FORMAT,
    nego);

if (G_UNLIKELY (gst_caps_is_any (new_caps))) {
    GST_DEBUG_OBJECT (capsfilter, "not settings any suggestion");

    suggest = NULL;
} else {
    GstStructure *s1, *s2;

    /* first check if the name is the same */
    s1 = gst_caps_get_structure (nego, 0);
    s2 = gst_caps_get_structure (new_caps, 0);

    if (gst_structure_get_name_id (s1) == gst_structure_get_name_id (s2)) {
        /* same name, copy all fields from the new caps into the previously
         * negotiated caps */
        suggest = gst_caps_copy (nego);
        s1 = gst_caps_get_structure (suggest, 0);
        gst_structure_foreach (s2, (GstStructureForeachFunc) copy_func, s1);
        GST_DEBUG_OBJECT (capsfilter, "copied structure fields");
    } else {
        GST_DEBUG_OBJECT (capsfilter, "different structure names");
        /* different names, we can only suggest the complete caps */
        suggest = gst_caps_copy (new_caps);
    }
}
} else {
    GST_DEBUG_OBJECT (capsfilter, "no negotiated caps");
    /* Suggest the new caps, we can't just rely on _get_caps as this may
     * already be called at this point even though no buffer has been
     * pushed yet */
    suggest = gst_caps_copy (new_caps);
}
GST_OBJECT_UNLOCK (GST_BASE_TRANSFORM_SINK_PAD (object));

GST_DEBUG_OBJECT (capsfilter, "suggesting new caps %" GST_PTR_FORMAT,
    suggest);
gst_base_transform_suggest (GST_BASE_TRANSFORM (object), suggest, 0);
if (suggest)
    gst_caps_unref (suggest);

break;
}
default:
    G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
break;
}

```

```

}

static void
gst_capsfilter_get_property (GObject * object, guint prop_id, GValue * value,
    GParamSpec * pspec)
{
    GstCapsFilter *capsfilter = GST_CAPSFILTER (object);

    switch (prop_id) {
        case PROP_FILTER_CAPS:
            GST_OBJECT_LOCK (capsfilter);
            gst_value_set_caps (value, capsfilter->filter_caps);
            GST_OBJECT_UNLOCK (capsfilter);
            break;
        default:
            G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
            break;
    }
}

static void
gst_capsfilter_dispose (GObject * object)
{
    GstCapsFilter *filter = GST_CAPSFILTER (object);

    gst_caps_replace (&filter->filter_caps, NULL);

    G_OBJECT_CLASS (parent_class)->dispose (object);
}

static GstCaps *
gst_capsfilter_transform_caps (GstBaseTransform * base,
    GstPadDirection direction, GstCaps * caps)
{
    GstCapsFilter *capsfilter = GST_CAPSFILTER (base);
    GstCaps *ret, *filter_caps;

    GST_OBJECT_LOCK (capsfilter);
    filter_caps = gst_caps_ref (capsfilter->filter_caps);
    GST_OBJECT_UNLOCK (capsfilter);

    ret = gst_caps_intersect (caps, filter_caps);
    GST_DEBUG_OBJECT (capsfilter, "input: %" GST_PTR_FORMAT, caps);
    GST_DEBUG_OBJECT (capsfilter, "filter: %" GST_PTR_FORMAT, filter_caps);
    GST_DEBUG_OBJECT (capsfilter, "intersect: %" GST_PTR_FORMAT, ret);

    gst_caps_unref (filter_caps);
}

```

```

return ret;
}

static gboolean
gst_capsfilter_accept_caps (GstBaseTransform * base,
    GstPadDirection direction, GstCaps * caps)
{
    GstCapsFilter *capsfilter = GST_CAPSFILTER (base);
    GstCaps *filter_caps;
    gboolean ret;

    GST_OBJECT_LOCK (capsfilter);
    filter_caps = gst_caps_ref (capsfilter->filter_caps);
    GST_OBJECT_UNLOCK (capsfilter);

    ret = gst_caps_can_intersect (caps, filter_caps);
    GST_DEBUG_OBJECT (capsfilter, "can intersect: %d", ret);
    if (ret) {
        /* if we can intersect, see if the other end also accepts */
        if (direction == GST_PAD_SRC)
            ret = gst_pad_peer_accept_caps (GST_BASE_TRANSFORM_SINK_PAD (base), caps);
        else
            ret = gst_pad_peer_accept_caps (GST_BASE_TRANSFORM_SRC_PAD (base), caps);
        GST_DEBUG_OBJECT (capsfilter, "peer accept: %d", ret);
    }

    gst_caps_unref (filter_caps);

    return ret;
}

static GstFlowReturn
gst_capsfilter_transform_ip (GstBaseTransform * base, GstBuffer * buf)
{
    /* No actual work here. It's all done in the prepare output buffer
    * func. */
    return GST_FLOW_OK;
}

/* Output buffer preparation... if the buffer has no caps, and
* our allowed output caps is fixed, then give the caps to the
* buffer.
* This ensures that outgoing buffers have caps if we can, so
* that pipelines like:
* gst-launch filesrc location=rawsamples.raw !
* audio/x-raw-int,width=16,depth=16,rate=48000,channels=2,
* endianness=4321,signed=(boolean)true ! alsasink
* will work.

```

```

*/
static GstFlowReturn
gst_capsfilter_prepare_buf (GstBaseTransform * trans, GstBuffer * input,
    gint size, GstCaps * caps, GstBuffer ** buf)
{
    GstFlowReturn ret = GST_FLOW_OK;

    if (GST_BUFFER_CAPS (input) != NULL) {
        /* Output buffer already has caps */
        GST_LOG_OBJECT (trans, "Input buffer already has caps (implicitly fixed)");
        /* FIXME : Move this behaviour to basetransform. The given caps are the ones
        * of the source pad, therefore our outgoing buffers should always have
        * those caps. */
        if (GST_BUFFER_CAPS (input) != caps) {
            /* caps are different, make a metadata writable output buffer to set
            * caps */
            if (gst_buffer_is_metadata_writable (input)) {
                /* input is writable, just set caps and use this as the output */
                *buf = input;
                gst_buffer_set_caps (*buf, caps);
                gst_buffer_ref (input);
            } else {
                GST_DEBUG_OBJECT (trans, "Creating sub-buffer and setting caps");
                *buf = gst_buffer_create_sub (input, 0, GST_BUFFER_SIZE (input));
                gst_buffer_set_caps (*buf, caps);
            }
        } else {
            /* caps are right, just use a ref of the input as the outbuf */
            *buf = input;
            gst_buffer_ref (input);
        }
    } else {
        /* Buffer has no caps. See if the output pad only supports fixed caps */
        GstCaps *out_caps;

        out_caps = GST_PAD_CAPS (trans->srcpad);

        if (out_caps != NULL) {
            gst_caps_ref (out_caps);
        } else {
            out_caps = gst_pad_get_allowed_caps (trans->srcpad);
            g_return_val_if_fail (out_caps != NULL, GST_FLOW_ERROR);
        }

        out_caps = gst_caps_make_writable (out_caps);
        gst_caps_do_simplify (out_caps);

        if (gst_caps_is_fixed (out_caps) && !gst_caps_is_empty (out_caps)) {

```

```

GST_DEBUG_OBJECT (trans, "Have fixed output caps %"
    GST_PTR_FORMAT " to apply to buffer with no caps", out_caps);
if (gst_buffer_is_metadata_writable (input)) {
    gst_buffer_ref (input);
    *buf = input;
} else {
    GST_DEBUG_OBJECT (trans, "Creating sub-buffer and setting caps");
    *buf = gst_buffer_create_sub (input, 0, GST_BUFFER_SIZE (input));
}
GST_BUFFER_CAPS (*buf) = out_caps;

if (GST_PAD_CAPS (trans->srcpad) == NULL)
    gst_pad_set_caps (trans->srcpad, out_caps);
} else {
    gchar *caps_str = gst_caps_to_string (out_caps);

    GST_DEBUG_OBJECT (trans, "Cannot choose caps. Have unfixed output caps %"
        GST_PTR_FORMAT, out_caps);
    gst_caps_unref (out_caps);

    ret = GST_FLOW_ERROR;
    GST_ELEMENT_ERROR (trans, STREAM, FORMAT,
        ("Filter caps do not completely specify the output format"),
        ("Output caps are unfixed: %s", caps_str));
    g_free (caps_str);
}
}

return ret;
}
/* GStreamer
 * Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>
 *      2000 Wim Taymans <wtay@chello.be>
 *
 * gstidentity.h:
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```



```
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,  
* Boston, MA 02111-1307, USA.  
*/
```

```
#ifndef __GST_CAPSFILTER_H__  
#define __GST_CAPSFILTER_H__
```

```
#include <gst/gst.h>  
#include <gst/base/gstbasetransform.h>
```

```
G_BEGIN_DECLS
```

```
#define GST_TYPE_CAPSFILTER \  
    (gst_capsfilter_get_type())  
#define GST_CAPSFILTER(obj) \  
    (G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_CAPSFILTER,GstCapsFilter))  
#define GST_CAPSFILTER_CLASS(klass) \  
    (G_TYPE_CHECK_CLASS_CAST((klass),GST_TYPE_CAPSFILTER,GstCapsFilterClass))  
#define GST_IS_CAPSFILTER(obj) \  
    (G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_CAPSFILTER))  
#define GST_IS_CAPSFILTER_CLASS(klass) \  
    (G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_CAPSFILTER))
```

```
typedef struct _GstCapsFilter GstCapsFilter;  
typedef struct _GstCapsFilterClass GstCapsFilterClass;
```

```
/**  
 * GstCapsFilter:  
 *  
 * The opaque #GstCapsFilter data structure.  
 */
```

```
struct _GstCapsFilter {  
    GstBaseTransform trans;  
  
    GstCaps *filter_caps;  
};
```

```
struct _GstCapsFilterClass {  
    GstBaseTransformClass trans_class;  
};
```

```
GType gst_capsfilter_get_type (void);
```

```
G_END_DECLS
```

```
#endif /* __GST_CAPSFILTER_H__ */
```

# 1.113 gstreamer-plugins-bad 0.10.22.1

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Version 2, June 1991

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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

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/\* GStreamer

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\*/

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The plugins which use a GPL library are as follows:

a52dec      liba52      (<http://liba52.sourceforge.net/>)

aasink aalib (<http://sourceforge.net/projects/aa-project/>)  
cdparanoia libcdparanoia (<http://www.xiph.org/paranoia/>)  
dtsdec libdts (<http://www.videolan.org/dtsdec.html>)  
dvdnavsrc libdvdnav (<http://dvd.sourceforge.net/>)  
dxr3 (<http://dxr3.sourceforge.net/>)  
icecastsend libshout (<http://www.icecast.org>)  
mad libmad (<http://www.mars.org/home/rob/proj/mpeg/>)  
mpeg2dec libmpeg2 (<http://libmpeg2.sourceforge.net/>)  
mpeg2enc libmpeg2enc (<http://mjpeg.sourceforge.net/>)  
mplex libmplex (<http://mjpeg.sourceforge.net/>)  
siddec libsidplay 1.36 (<http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/>,  
<http://sourceforge.net/projects/sidplay2/>)  
trm libmusicbrainz (<http://www.musicbrainz.org/>)  
xine libxine (<http://xinehq.de/>)  
xvid libxvidcore (<http://www.xvid.org/>)

Plugins derived from GPL code are as follows:

dvdreadsrc libdvdread (<http://www.dtek.chalmers.se/groups/dvd/>)  
monoscope None (Algorithm by Ralph Loader, Joerg Walter,  
Richard Boulton, and Andy Lo A Foe)  
rtjpeg None (Erik Walthinsen's algorithm)  
rtplib None (<http://www.linphone.org/ortp/>)  
synaesthesia (<http://www.logarithmic.net/pfh/synaesthesia>)  
system\_encode None (Algorithm by Chrisoph Moar, Wim Tayman's and  
Erik Walthinsen)  
vbidec None (Algorithm by Billy Biggs, Doug Bell,  
Erik Walthinsen and David I. Lehn)

Plugins which use a LGPL library are as follows:

alsa alsalib (<http://alsa-project.org/>)  
artsdsink aRts (<http://arts-project.org/>)  
cacasink libcaca (<http://sam.zoy.org/projects/libcaca/>)  
colorspace libcolorspace  
dvdec libdv (<http://libdv.sourceforge.net/>)  
esdmon,esdsink libesd (<ftp.gnome.org/pub/GNOME/stable/sources/esound/>)  
faac libfaac (<http://www.audiocoding.com/modules/mydownloads/>)  
fameenc libfame (<http://fame.sourceforge.net/>)  
ffmpeg libffmpeg (<http://ffmpeg.sourceforge.net/>)  
gdkpixbuf GTK+ (<http://www.gtk.org/>)  
gnomevfs gnome-vfs (<ftp.gnome.org/pub/GNOME/stable/sources/gnome-vfs/>)  
gst\_arts aRts (<http://arts-project.org/>)  
gst1394 libraw1394 (<http://www.linux1394.org/>)  
gstaf libaudiofile (<http://www.68k.org/~michael/audiofile/>)  
gstsf libsndfile (<http://www.mega-nerd.com/libsndfile/>)  
hermescolorspace Hermes (<http://www.clanlib.org/hermes/>)  
kio KDE (<http://www.kde.org/>)

ladspa (<http://www.ladspa.org/>)  
lame libmp3lame (<http://lame.sourceforge.net/>)  
libvisual libvisual (<http://libvisual.sourceforge.net/>)  
matroska (<http://www.matroska.org/>)  
mikmod libmikmod (<http://mikmod.raphnet.net/>)  
ossaudio (<http://www.opensound.com/>)  
qcamsrc  
rfbenc librfb  
sdlvideosink libsdl (<http://www.libsdl.org/>)  
shout2send libshout2 (<http://www.icecast.org>)  
smoothwave  
swfdec (<http://swfdec.sourceforge.net/>)  
tarkin (<http://svn.xiph.org/trunk/tarkin/>)  
textoverlay pango (<http://www.pango.org/>)  
dirac (<http://www.bbc.co.uk/rd/projects/dirac/>)  
effectv (Our ports was relicensed)(<http://effectv.sourceforge.net/>)  
musepack (<http://www.musepack.net/>)  
kate libtiger (<http://libtiger.googlecode.com/>)  
Optional, only for the tiger element

Plugins which use a BSD covered library are as follows:

ogg libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)  
vorbis libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)  
gsttheora libtheora (<http://www.theora.org/>)  
speex (<http://www.speex.org/>)  
flac libFLAC (<http://flac.sourceforge.net/>)  
kate libkate (<http://libkate.googlecode.com/>)

Plugins based on libraries with other free licenses:

ximagesink libXv  
xvimagesink libXv  
- license: MIT X11 / X Consortium license

gsm libgsm  
- license MIT license <http://kbs.cs.tu-berlin.de/~jutta/toast.html>

festival (<http://www.cstr.ed.ac.uk/projects/festival/>)  
- license: <http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml>

jpeg (<http://www.ijg.org/>)  
- license: IJG license

nas (<http://radscan.com/nas.html>)  
- license: NAS license

snapshot libpng (<http://www.libpng.org/pub/png/>)

- license: PNG license

mngdec/mngenc libmng (<http://gjuyn.xs4all.nl/libmng>)

- license PNG license

Plugins using non-free libraries:

divxdec, divxenc (<http://www.divx.com/>)

osxaudio (<http://www.apple.com/macosx/>)

sunaudiosink (<http://www.sun.com/>)

Unsure:

faad libfaad (<http://www.audiocoding.com/>)

faad's license depends on its major version :

- for FAAD1 : it is LGPL

- for FAAD2 : it is GPL

look at these pages for more information on licenses :

<http://www.audiocoding.com/modules/wiki/?page=FAAD2>

<http://www.audiocoding.com/modules/wiki/?page=FAAC>

by default, GStreamer faad plugin would compile against FAAD2 if available.

it falls back to FAAD1 if not.

```
/* GStreamer
```

```
* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
```

```
* Copyright (C) 2003,2004 David A. Schlee <ds@schleef.org>
```

```
*
```

```
* This library is free software; you can redistribute it and/or
```

```
* modify it under the terms of the GNU Library General Public
```

```
* License as published by the Free Software Foundation; either
```

```
* version 2 of the License, or (at your option) any later version.
```

```
*
```

```
* This library is distributed in the hope that it will be useful,
```

```
* but WITHOUT ANY WARRANTY; without even the implied warranty of
```

```
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
```

```
* Library General Public License for more details.
```

```
*
```

```
* 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., 59 Temple Place - Suite 330,
```

```
* Boston, MA 02111-1307, USA.
```

```
*/
```

```
/* Element-Checklist-Version: 5 */
```

```
#ifdef HAVE_CONFIG_H
```

```
#include "config.h"
```

```
#endif
```

```
#include <string.h>
```

```

#include <math.h>

/*#define DEBUG_ENABLED */
#include "gstaudioresample.h"
#include <gst/audio/audio.h>

GST_DEBUG_CATEGORY_STATIC (audioresample_debug);
#define GST_CAT_DEFAULT audioresample_debug

/* Audioresample signals and args */
enum
{
/* FILL ME */
LAST_SIGNAL
};

enum
{
ARG_0,
ARG_FILTERLEN
};

#define SUPPORTED_CAPS \
GST_STATIC_CAPS (\
"audio/x-raw-int, " \
"rate = (int) [ 1, MAX ], " \
"channels = (int) [ 1, MAX ], " \
"endianness = (int) BYTE_ORDER, " \
"width = (int) 16, " \
"depth = (int) 16, " \
"signed = (boolean) true"
#if 0
/* disabled because it segfaults */
"audio/x-raw-float, "
"rate = (int) [ 1, MAX ], "
"channels = (int) [ 1, MAX ], "
"endianness = (int) BYTE_ORDER, " "width = (int) 32"
#endif
)

static GstStaticPadTemplate gst_audioresample_sink_template =
    GST_STATIC_PAD_TEMPLATE ("sink",
        GST_PAD_SINK, GST_PAD_ALWAYS, SUPPORTED_CAPS);

static GstStaticPadTemplate gst_audioresample_src_template =
    GST_STATIC_PAD_TEMPLATE ("src",
        GST_PAD_SRC, GST_PAD_ALWAYS, SUPPORTED_CAPS);

```

```

static void gst_audioresample_base_init (gpointer g_class);
static void gst_audioresample_class_init (AudioresampleClass * klass);
static void gst_audioresample_init (Audioresample * audioresample);
static void gst_audioresample_dispose (GObject * object);

static void gst_audioresample_chain (GstPad * pad, GstData * _data);

static void gst_audioresample_set_property (GObject * object,
    guint prop_id, const GValue * value, GParamSpec * pspec);
static void gst_audioresample_get_property (GObject * object,
    guint prop_id, GValue * value, GParamSpec * pspec);

static GstElementClass *parent_class = NULL;

/*static guint gst_audioresample_signals[LAST_SIGNAL] = { 0 }; */

GType audioresample_get_type (void)
{
    static GType audioresample_type = 0;

    if (!audioresample_type)
    {
        static const GTypeInfo audioresample_info = {
            sizeof (AudioresampleClass),
            gst_audioresample_base_init,
            NULL,
            (GClassInitFunc) gst_audioresample_class_init,
            NULL,
            NULL,
            sizeof (Audioresample), 0,
            (GInstanceInitFunc) gst_audioresample_init,};

        audioresample_type =
            g_type_register_static (GST_TYPE_ELEMENT, "Audioresample",
                &audioresample_info, 0);
    }
    return audioresample_type;
}

static void gst_audioresample_base_init (gpointer g_class)
{
    GstElementClass *gstelement_class = GST_ELEMENT_CLASS (g_class);

    gst_element_class_add_pad_template (gstelement_class,
        gst_static_pad_template_get (&gst_audioresample_src_template));
    gst_element_class_add_pad_template (gstelement_class,
        gst_static_pad_template_get (&gst_audioresample_sink_template));
}

```



```

gst_element_class_set_details_simple (gstelement_class, "Audio scaler",
    "Filter/Converter/Audio",
    "Resample audio", "David Schleef <ds@schleef.org>");
}

static void gst_audioresample_class_init (AudioresampleClass * klass)
{
    GObjectClass *gobject_class;
    GstElementClass *gstelement_class;

    gobject_class = (GObjectClass *) klass;
    gstelement_class = (GstElementClass *) klass;

    gobject_class->set_property = gst_audioresample_set_property;
    gobject_class->get_property = gst_audioresample_get_property;
    gobject_class->dispose = gst_audioresample_dispose;

    g_object_class_install_property (G_OBJECT_CLASS (klass), ARG_FILTERLEN,
        g_param_spec_int ("filter-length", "filter_length", "filter_length",
            0, G_MAXINT, 16,
            G_PARAM_READWRITE | G_PARAM_CONSTRUCT | G_PARAM_STATIC_STRINGS));

    parent_class = g_type_class_peek_parent (klass);

    GST_DEBUG_CATEGORY_INIT (audioresample_debug, "audioresample", 0,
        "audioresample element");
}

static void gst_audioresample_expand_caps (GstCaps * caps)
{
    gint i;

    for (i = 0; i < gst_caps_get_size (caps); i++) {
        GstStructure *structure = gst_caps_get_structure (caps, i);
        const GValue *value;

        value = gst_structure_get_value (structure, "rate");
        if (value == NULL) {
            GST_ERROR ("caps structure doesn't have required rate field");
            return;
        }

        gst_structure_set (structure, "rate", GST_TYPE_INT_RANGE, 1, G_MAXINT, 0);
    }
}

static GstCaps *gst_audioresample_getcaps (GstPad * pad)
{

```

```

Audioesample *audioesample;
GstCaps *caps;
GstPad *otherpad;

audioesample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));

otherpad = (pad == audioesample->srcpad) ? audioesample->sinkpad :
    audioesample->srcpad;
caps = gst_pad_get_allowed_caps (otherpad);

gst_audioesample_expand_caps (caps);

return caps;
}

static GstCaps *gst_audioesample_fixate (GstPad * pad, const GstCaps * caps)
{
    Audioesample *audioesample;
    GstPad *otherpad;
    int rate;
    GstCaps *copy;
    GstStructure *structure;

    audioesample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));

    if (pad == audioesample->srcpad) {
        otherpad = audioesample->sinkpad;
        rate = audioesample->i_rate;
    } else
    {
        otherpad = audioesample->srcpad;
        rate = audioesample->o_rate;
    }
    if (!GST_PAD_IS_NEGOTIATING (otherpad))
        return NULL;
    if (gst_caps_get_size (caps) > 1)
        return NULL;

    copy = gst_caps_copy (caps);
    structure = gst_caps_get_structure (copy, 0);
    if (rate) {
        if (gst_structure_fixate_field_nearest_int (structure, "rate", rate)) {
            return copy;
        }
    }
    gst_caps_free (copy);
    return NULL;
}

```

```

static GstPadLinkReturn gst_audioresample_link (GstPad * pad,
    const GstCaps * caps)
{
    Audioresample *audioresample;
    GstStructure *structure;
    int rate;
    int channels;
    gboolean ret;
    GstPad *otherpad;

    audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));

    otherpad = (pad == audioresample->srcpad) ? audioresample->sinkpad :
        audioresample->srcpad;

    structure = gst_caps_get_structure (caps, 0);
    ret = gst_structure_get_int (structure, "rate", &rate);
    ret &= gst_structure_get_int (structure, "channels", &channels);
    if (!ret)
    {
        return GST_PAD_LINK_REFUSED;
    }

    if (gst_pad_is_negotiated (otherpad))
    {
        GstCaps *othercaps = gst_caps_copy (caps);
        int otherrate;
        GstPadLinkReturn linkret;

        if (pad == audioresample->srcpad) {
            otherrate = audioresample->i_rate;
        } else {
            otherrate = audioresample->o_rate;
        }
        gst_caps_set_simple (othercaps, "rate", G_TYPE_INT, otherrate, NULL);
        linkret = gst_pad_try_set_caps (otherpad, othercaps);
        if (GST_PAD_LINK_FAILED (linkret)) {
            return GST_PAD_LINK_REFUSED;
        }
    }

    audioresample->channels = channels;
    resample_set_n_channels (audioresample->resample, audioresample->channels);
    if (pad == audioresample->srcpad) {
        audioresample->o_rate = rate;
        resample_set_output_rate (audioresample->resample, audioresample->o_rate);
    }
}

```

```

    GST_DEBUG ("set o_rate to %d", rate);
} else {
    audioresample->i_rate = rate;
    resample_set_input_rate (audioresample->resample, audioresample->i_rate);
    GST_DEBUG ("set i_rate to %d", rate);
}

return GST_PAD_LINK_OK;
}

static void gst_audioresample_init (Audioresample * audioresample)
{
    ResampleState *r;

    audioresample->sinkpad =
        gst_pad_new_from_static_template (&gst_audioresample_sink_template,
            "sink");
    gst_element_add_pad (GST_ELEMENT (audioresample), audioresample->sinkpad);
    gst_pad_set_chain_function (audioresample->sinkpad, gst_audioresample_chain);
    gst_pad_set_link_function (audioresample->sinkpad, gst_audioresample_link);
    gst_pad_set_getcaps_function (audioresample->sinkpad,
        gst_audioresample_getcaps);
    gst_pad_set_fixate_function (audioresample->sinkpad,
        gst_audioresample_fixate);

    audioresample->srcpad =
        gst_pad_new_from_static_template (&gst_audioresample_src_template, "src");

    gst_element_add_pad (GST_ELEMENT (audioresample), audioresample->srcpad);
    gst_pad_set_link_function (audioresample->srcpad, gst_audioresample_link);
    gst_pad_set_getcaps_function (audioresample->srcpad,
        gst_audioresample_getcaps);
    gst_pad_set_fixate_function (audioresample->srcpad, gst_audioresample_fixate);

    r = resample_new ();
    audioresample->resample = r;

    resample_set_filter_length (r, 64);
    resample_set_format (r, RESAMPLE_FORMAT_S16);
}

static void gst_audioresample_dispose (GObject * object)
{
    Audioresample *audioresample = GST_AUDIORESAMPLE (object);

    if (audioresample->resample) {
        resample_free (audioresample->resample);
    }
}

```

```

G_OBJECT_CLASS (parent_class)->dispose (object);
}

static void gst_audioresample_chain (GstPad * pad, GstData * _data)
{
    GstBuffer *buf = GST_BUFFER (_data);
    Audioresample *audioresample;
    ResampleState *r;
    guchar *data;
    gulong size;
    int outsize;
    GstBuffer *outbuf;

    g_return_if_fail (pad != NULL);
    g_return_if_fail (GST_IS_PAD (pad));
    g_return_if_fail (buf != NULL);

    audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));

    if (!GST_IS_BUFFER (_data)) {
        gst_pad_push (audioresample->srcpad, _data);
        return;
    }

    if (audioresample->passthru) {
        gst_pad_push (audioresample->srcpad, GST_DATA (buf));
        return;
    }

    r = audioresample->resample;

    data = GST_BUFFER_DATA (buf);
    size = GST_BUFFER_SIZE (buf);

    GST_DEBUG ("got buffer of %ld bytes", size);

    resample_add_input_data (r, data, size, (ResampleCallback) gst_data_unref,
        buf);

    outsize = resample_get_output_size (r);
    /* FIXME this is audioresample being dumb. dunno why */
    if (outsize == 0) {
        GST_ERROR ("overriding outbuf size");
        outsize = size;
    }
    outbuf = gst_buffer_new_and_alloc (outsize);

```

```

outsized = resample_get_output_data (r, GST_BUFFER_DATA (outbuf), outsized);
GST_BUFFER_SIZE (outbuf) = outsized;

GST_BUFFER_TIMESTAMP (outbuf) =
    audioresample->offset * GST_SECOND / audioresample->o_rate;
audioresample->offset += outsized / sizeof (gint16) / audioresample->channels;

gst_pad_push (audioresample->srcpad, GST_DATA (outbuf));
}

static void
gst_audioresample_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec)
{
    Audioresample *audioresample;

    g_return_if_fail (GST_IS_AUDIORESAMPLE (object));
    audioresample = GST_AUDIORESAMPLE (object);

    switch (prop_id) {
        case ARG_FILTERLEN:
            audioresample->filter_length = g_value_get_int (value);
            GST_DEBUG_OBJECT (GST_ELEMENT (audioresample), "new filter length %d\n",
                audioresample->filter_length);
            resample_set_filter_length (audioresample->resample,
                audioresample->filter_length);
            break;
        default:G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
            break;
    }
}

static void
gst_audioresample_get_property (GObject * object, guint prop_id,
    GValue * value, GParamSpec * pspec)
{
    Audioresample *audioresample;

    g_return_if_fail (GST_IS_AUDIORESAMPLE (object));
    audioresample = GST_AUDIORESAMPLE (object);

    switch (prop_id) {
        case ARG_FILTERLEN:
            g_value_set_int (value, audioresample->filter_length);
            break;
        default:
            G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
            break;
    }
}

```

```

}
}

static gboolean plugin_init (GstPlugin * plugin)
{
    resample_init ();

    if (!gst_element_register (plugin, "audioresample", GST_RANK_PRIMARY,
        GST_TYPE_AUDIORESAMPLE)) {
        return FALSE;
    }

    return TRUE;
}

GST_PLUGIN_DEFINE (GST_VERSION_MAJOR,
    GST_VERSION_MINOR,
    "audioresample",
    "Resamples audio", plugin_init, VERSION, "LGPL", GST_PACKAGE_NAME,
    GST_PACKAGE_ORIGIN)
/* GStreamer
 * Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
 *
 * This library is free software; you can redistribute it and/or
 * modify it under the terms of the GNU Library General Public
 * License as published by the Free Software Foundation; either
 * version 2 of the License, or (at your option) any later version.
 *
 * This library is distributed in the hope that it will be useful,
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 * Library General Public License for more details.
 *
 * 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., 59 Temple Place - Suite 330,
 * Boston, MA 02111-1307, USA.
 */

#ifdef __AUDIORESAMPLE_H__
#define __AUDIORESAMPLE_H__

#include <gst/gst.h>

#include <audioresample/resample.h>

```

G\_BEGIN\_DECLS

```
#define GST_TYPE_AUDIORESAMPLE \  
  (audioresample_get_type())  
#define GST_AUDIORESAMPLE(obj) \  
  (G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_AUDIORESAMPLE,Audioresample))  
#define GST_AUDIORESAMPLE_CLASS(klass) \  
  (G_TYPE_CHECK_CLASS_CAST((klass),GST_TYPE_AUDIORESAMPLE,AudioresampleClass))  
#define GST_IS_AUDIORESAMPLE(obj) \  
  (G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_AUDIORESAMPLE))  
#define GST_IS_AUDIORESAMPLE_CLASS(klass) \  
  (G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_AUDIORESAMPLE))
```

```
typedef struct _Audioresample Audioresample;  
typedef struct _AudioresampleClass AudioresampleClass;
```

```
struct _Audioresample {  
  GstElement element;
```

```
  GstPad *sinkpad,*srcpad;
```

```
  gboolean passthru;
```

```
  gint64 offset;  
  int channels;
```

```
  int i_rate;  
  int o_rate;  
  int filter_length;
```

```
  ResampleState * resample;  
};
```

```
struct _AudioresampleClass {  
  GstElementClass parent_class;  
};
```

```
GType gst_audioresample_get_type(void);
```

G\_END\_DECLS

```
#endif /* __AUDIORESAMPLE_H__ */
```



```

/* GStreamer
* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
* Copyright (C) <2003> David Schleef <ds@schleef.org>
*
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
*
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
*
* 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., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/

/*
* This file was (probably) generated from
* gstvideotemplate.c,v 1.18 2005/11/14 02:13:34 thomasvs Exp
* and
* $Id: make_filter,v 1.8 2004/04/19 22:51:57 ds Exp $
*/

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/video/video.h>
#include <string.h>
#include <cog/cog.h>
#include <math.h>
#include <cog/cogvirtframe.h>

#define GST_TYPE_COGDOWNSAMPLE \
(gst_cogdownsample_get_type())
#define GST_COGDOWNSAMPLE(obj) \
(G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_COGDOWNSAMPLE,GstCogdownsample))
#define GST_COGDOWNSAMPLE_CLASS(klass) \
(G_TYPE_CHECK_CLASS_CAST((klass),GST_TYPE_COGDOWNSAMPLE,GstCogdownsampleClass))
#define GST_IS_COGDOWNSAMPLE(obj) \
(G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_COGDOWNSAMPLE))
#define GST_IS_COGDOWNSAMPLE_CLASS(obj) \

```

```

(G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_COGDOWNSAMPLE))

typedef struct _GstCogdownsample GstCogdownsample;
typedef struct _GstCogdownsampleClass GstCogdownsampleClass;

struct _GstCogdownsample
{
    GstBaseTransform base_transform;
};

struct _GstCogdownsampleClass
{
    GstBaseTransformClass parent_class;
};

GType gst_cogdownsample_get_type (void);

enum
{
    ARG_0
};

static void gst_cogdownsample_base_init (gpointer g_class);
static void gst_cogdownsample_class_init (gpointer g_class,
    gpointer class_data);
static void gst_cogdownsample_init (GTypeInstance * instance, gpointer g_class);

static void gst_cogdownsample_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec);
static void gst_cogdownsample_get_property (GObject * object, guint prop_id,
    GValue * value, GParamSpec * pspec);

static GstCaps *gst_cogdownsample_transform_caps (GstBaseTransform *
    base_transform, GstPadDirection direction, GstCaps * caps);
static GstFlowReturn gst_cogdownsample_transform (GstBaseTransform *
    base_transform, GstBuffer * inbuf, GstBuffer * outbuf);
static gboolean gst_cogdownsample_get_unit_size (GstBaseTransform *
    base_transform, GstCaps * caps, guint * size);

static GstStaticPadTemplate gst_cogdownsample_sink_template =
GST_STATIC_PAD_TEMPLATE ("sink",
    GST_PAD_SINK,
    GST_PAD_ALWAYS,
    GST_STATIC_CAPS (GST_VIDEO_CAPS_YUV ("{ I420, YV12, YUY2, UYVY, AYUV }")))
);

```

```

static GstStaticPadTemplate gst_cogdownsample_src_template =
GST_STATIC_PAD_TEMPLATE ("src",
    GST_PAD_SRC,
    GST_PAD_ALWAYS,
    GST_STATIC_CAPS (GST_VIDEO_CAPS_YUV ("{ I420, YV12, YUY2, UYVY, AYUV }")))
);

```

GType

```

gst_cogdownsample_get_type (void)
{
    static GType compress_type = 0;

    if (!compress_type) {
        static const GTypeInfo compress_info = {
            sizeof (GstCogdownsampleClass),
            gst_cogdownsample_base_init,
            NULL,
            gst_cogdownsample_class_init,
            NULL,
            NULL,
            sizeof (GstCogdownsample),
            0,
            gst_cogdownsample_init,
        };

        compress_type = g_type_register_static (GST_TYPE_BASE_TRANSFORM,
            "GstCogdownsample", &compress_info, 0);
    }
    return compress_type;
}

```

static void

```

gst_cogdownsample_base_init (gpointer g_class)
{
    GstElementClass *element_class = GST_ELEMENT_CLASS (g_class);

    gst_element_class_add_pad_template (element_class,
        gst_static_pad_template_get (&gst_cogdownsample_src_template));
    gst_element_class_add_pad_template (element_class,
        gst_static_pad_template_get (&gst_cogdownsample_sink_template));

    gst_element_class_set_details_simple (element_class,
        "Scale down video by factor of 2", "Filter/Effect/Video",
        "Scales down video by a factor of 2", "David Schleeef <ds@schleeef.org>");
}

```

```

static void
gst_cogdownsample_class_init (gpointer g_class, gpointer class_data)
{
    GObjectClass *gobject_class;
    GstBaseTransformClass *base_transform_class;

    gobject_class = G_OBJECT_CLASS (g_class);
    base_transform_class = GST_BASE_TRANSFORM_CLASS (g_class);

    gobject_class->set_property = gst_cogdownsample_set_property;
    gobject_class->get_property = gst_cogdownsample_get_property;

    base_transform_class->transform = gst_cogdownsample_transform;
    base_transform_class->transform_caps = gst_cogdownsample_transform_caps;
    base_transform_class->get_unit_size = gst_cogdownsample_get_unit_size;
}

```

```

static void
gst_cogdownsample_init (GTypeInstance * instance, gpointer g_class)
{
    GST_DEBUG ("gst_cogdownsample_init");
}

```

```

static void
gst_cogdownsample_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec)
{
    GstCogdownsample *src;

    g_return_if_fail (GST_IS_COGDOWNSAMPLE (object));
    src = GST_COGDOWNSAMPLE (object);

    GST_DEBUG ("gst_cogdownsample_set_property");
    switch (prop_id) {
        default:
            break;
    }
}

```

```

static void
gst_cogdownsample_get_property (GObject * object, guint prop_id, GValue * value,
    GParamSpec * pspec)
{
    GstCogdownsample *src;

    g_return_if_fail (GST_IS_COGDOWNSAMPLE (object));
    src = GST_COGDOWNSAMPLE (object);
}

```

```

switch (prop_id) {
    default:
        G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
        break;
}
}

```

```

static void
transform_value (GValue * dest, const GValue * src, GstPadDirection dir)
{
    g_value_init (dest, G_VALUE_TYPE (src));

```

```

    if (G_VALUE_HOLDS_INT (src)) {
        int x;

        x = g_value_get_int (src);
        if (dir == GST_PAD_SINK) {
            g_value_set_int (dest, x / 2);
        } else {
            g_value_set_int (dest, x * 2);
        }
    } else if (GST_VALUE_HOLDS_INT_RANGE (src)) {
        int min, max;

```

```

        min = gst_value_get_int_range_min (src);
        max = gst_value_get_int_range_max (src);

```

```

        if (dir == GST_PAD_SINK) {
            min = (min + 1) / 2;
            if (max == G_MAXINT) {
                max = G_MAXINT / 2;
            } else {
                max = (max + 1) / 2;
            }
        } else {
            if (max > G_MAXINT / 2) {
                max = G_MAXINT;
            } else {
                max = max * 2;
            }
            if (min > G_MAXINT / 2) {
                min = G_MAXINT;
            } else {
                min = min * 2;
            }
        }
    }

```

```

    gst_value_set_int_range (dest, min, max);

```

```

} else {
    /* FIXME */
    g_warning ("case not handled");
    g_value_set_int (dest, 100);
}
}

static GstCaps *
gst_cogdownsample_transform_caps (GstBaseTransform * base_transform,
    GstPadDirection direction, GstCaps * caps)
{
    int i;
    GstStructure *structure;
    GValue new_value = { 0 };
    const GValue *value;

    caps = gst_caps_copy (caps);

    for (i = 0; i < gst_caps_get_size (caps); i++) {
        structure = gst_caps_get_structure (caps, i);

        value = gst_structure_get_value (structure, "width");
        transform_value (&new_value, value, direction);
        gst_structure_set_value (structure, "width", &new_value);
        g_value_unset (&new_value);

        value = gst_structure_get_value (structure, "height");
        transform_value (&new_value, value, direction);
        gst_structure_set_value (structure, "height", &new_value);
        g_value_unset (&new_value);
    }

    return caps;
}

static gboolean
gst_cogdownsample_get_unit_size (GstBaseTransform * base_transform,
    GstCaps * caps, guint * size)
{
    int width, height;
    uint32_t format;

    gst_structure_get_fourcc (gst_caps_get_structure (caps, 0),
        "format", &format);
    gst_structure_get_int (gst_caps_get_structure (caps, 0), "width", &width);
    gst_structure_get_int (gst_caps_get_structure (caps, 0), "height", &height);

    switch (format) {

```

```

case GST_MAKE_FOURCC ('I', '4', '2', '0'):
case GST_MAKE_FOURCC ('Y', 'V', '1', '2'):
    *size = width * height * 3 / 2;
    break;
case GST_MAKE_FOURCC ('Y', 'U', 'Y', '2'):
case GST_MAKE_FOURCC ('U', 'Y', 'V', 'Y'):
    *size = width * height * 2;
    break;
case GST_MAKE_FOURCC ('A', 'Y', 'U', 'V'):
    *size = width * height * 4;
    break;
default:
    g_assert_not_reached ();
}

return TRUE;
}

static GstFlowReturn
gst_cogdownsample_transform (GstBaseTransform * base_transform,
    GstBuffer * inbuf, GstBuffer * outbuf)
{
    GstCogdownsample *compress;
    CogFrame *outframe;
    int width, height;
    uint32_t format;
    CogFrame *frame;

    g_return_val_if_fail (GST_IS_COGDOWNSAMPLE (base_transform), GST_FLOW_ERROR);
    compress = GST_COGDOWNSAMPLE (base_transform);

    gst_structure_get_fourcc (gst_caps_get_structure (inbuf->caps, 0),
        "format", &format);
    gst_structure_get_int (gst_caps_get_structure (inbuf->caps, 0),
        "width", &width);
    gst_structure_get_int (gst_caps_get_structure (inbuf->caps, 0),
        "height", &height);

    switch (format) {
    case GST_MAKE_FOURCC ('I', '4', '2', '0'):
        frame = cog_frame_new_from_data_I420 (GST_BUFFER_DATA (inbuf),
            width, height);
        outframe = cog_frame_new_from_data_I420 (GST_BUFFER_DATA (outbuf),
            width / 2, height / 2);
        break;
    case GST_MAKE_FOURCC ('Y', 'V', '1', '2'):
        frame = cog_frame_new_from_data_YV12 (GST_BUFFER_DATA (inbuf),
            width, height);

```

```

    outframe = cog_frame_new_from_data_YV12 (GST_BUFFER_DATA (outbuf),
        width / 2, height / 2);
    break;
case GST_MAKE_FOURCC ('Y', 'U', 'Y', '2'):
    frame = cog_frame_new_from_data_YUY2 (GST_BUFFER_DATA (inbuf),
        width, height);
    outframe = cog_frame_new_from_data_YUY2 (GST_BUFFER_DATA (outbuf),
        width / 2, height / 2);
    break;
case GST_MAKE_FOURCC ('U', 'Y', 'V', 'Y'):
    frame = cog_frame_new_from_data_UYVY (GST_BUFFER_DATA (inbuf),
        width, height);
    outframe = cog_frame_new_from_data_UYVY (GST_BUFFER_DATA (outbuf),
        width / 2, height / 2);
    break;
case GST_MAKE_FOURCC ('A', 'Y', 'U', 'V'):
    frame = cog_frame_new_from_data_AYUV (GST_BUFFER_DATA (inbuf),
        width, height);
    outframe = cog_frame_new_from_data_AYUV (GST_BUFFER_DATA (outbuf),
        width / 2, height / 2);
    break;
default:
    g_assert_not_reached ();
    return GST_FLOW_ERROR;
}

```

```

frame = cog_virt_frame_new_unpack (frame);
frame = cog_virt_frame_new_horiz_downsample (frame, 3);
frame = cog_virt_frame_new_vert_downsample (frame, 2);

```

```

switch (format) {
case GST_MAKE_FOURCC ('Y', 'U', 'Y', '2'):
    frame = cog_virt_frame_new_pack_YUY2 (frame);
    break;
case GST_MAKE_FOURCC ('U', 'Y', 'V', 'Y'):
    frame = cog_virt_frame_new_pack_UYVY (frame);
    break;
case GST_MAKE_FOURCC ('A', 'Y', 'U', 'V'):
    frame = cog_virt_frame_new_pack_AYUV (frame);
    break;
default:
    break;
}

```

```

cog_virt_frame_render (frame, outframe);
cog_frame_unref (frame);
cog_frame_unref (outframe);

```



```

return GST_FLOW_OK;
}
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
*
* gstmplex.cc: gstreamer mplex wrapper
*
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* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/

/**
* SECTION:element-mplex
* @see_also: mpeg2enc
*
* This element is an audio/video multiplexer for MPEG-1/2 video streams
* and (un)compressed audio streams such as AC3, MPEG layer I/II/III.
* It is based on the <ulink url="http://mjpeg.sourceforge.net/">mjpegtools</ulink> library.
* Documentation on creating MPEG videos in general can be found in the
* <ulink url="https://sourceforge.net/docman/display_doc.php?docid=3456&group_id=5776">MJPEG
Howto</ulink>
* and the man-page of the mplex tool documents the properties of this element,
* which are shared with the mplex tool.
*
* <refsect2>
* <title>Example pipeline</title>
* |[
* gst-launch -v videotestsrc num-buffers=1000 ! mpeg2enc ! mplex ! filesink location=videotestsrc.mpg
* ]| This example pipeline will encode a test video source to an
* MPEG1 elementary stream and multiplexes this to an MPEG system stream.
* <para>
* If several streams are being multiplexed, there should (as usual) be
* a queue in each stream, and due to mplex' buffering the capacities of these
* may have to be set to a few times the default settings to prevent the
* pipeline stalling.

```

```

* </para>
* </refsect2>
*/

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

#include <string.h>

#include "gstmux.h"
#include "gstmuxoutputstream.h"
#include "gstmuxinputstream.h"
#include "gstmuxjob.h"

GST_DEBUG_CATEGORY (mux_debug);

static GstStaticPadTemplate src_tmpl = GST_STATIC_PAD_TEMPLATE ("src",
    GST_PAD_SRC,
    GST_PAD_ALWAYS,
    GST_STATIC_CAPS ("video/mpeg, systemstream = (boolean) true ")
);

static GstStaticPadTemplate video_sink_tmpl =
GST_STATIC_PAD_TEMPLATE ("video_%d",
    GST_PAD_SINK,
    GST_PAD_REQUEST,
    GST_STATIC_CAPS ("video/mpeg, "
        "mpegversion = (int) { 1, 2 }, "
        "systemstream = (boolean) false, "
        "width = (int) [ 16, 4096 ], "
        "height = (int) [ 16, 4096 ], framerate = (fraction) [ 0, MAX ]")
);

#define COMMON_AUDIO_CAPS \
"channels = (int) [ 1, 8 ], " \
"rate = (int) [ 8000, 96000 ]"

static GstStaticPadTemplate audio_sink_tmpl =
    GST_STATIC_PAD_TEMPLATE ("audio_%d",
        GST_PAD_SINK,
        GST_PAD_REQUEST,
        GST_STATIC_CAPS ("audio/mpeg, "
            "mpegversion = (int) 1, "
            "layer = (int) [ 1, 3 ], "
            COMMON_AUDIO_CAPS "; "
            "audio/x-ac3, "
            COMMON_AUDIO_CAPS "; "

```

```

"audio/x-dts; "
"audio/x-raw-int, "
"endianness = (int) BIG_ENDIAN, "
"signed = (boolean) TRUE, "
"width = (int) { 16, 20, 24 }, "
"depth = (int) { 16, 20, 24 }, "
"rate = (int) { 48000, 96000 }, " "channels = (int) [ 1, 6 ]")
);

/* FIXME: subtitles */

static void gst_muxer_finalize (GObject * object);
static void gst_muxer_reset (GstMuxer * muxer);
static void gst_muxer_loop (GstMuxer * muxer);
static GstPad *gst_muxer_request_new_pad (GstElement * element,
    GstPadTemplate * templ, const gchar * name);
static void gst_muxer_release_pad (GstElement * element, GstPad * pad);
static gboolean gst_muxer_src_activate_push (GstPad * pad, gboolean active);
static GstStateChangeReturn gst_muxer_change_state (GstElement * element,
    GstStateChange transition);

static void gst_muxer_get_property (GObject * object,
    guint prop_id, GValue * value, GParamSpec * pspec);
static void gst_muxer_set_property (GObject * object,
    guint prop_id, const GValue * value, GParamSpec * pspec);

GST_BOILERPLATE (GstMuxer, gst_muxer, GstElement, GST_TYPE_ELEMENT);

static void
gst_muxer_base_init (gpointer klass)
{
    GstElementClass *element_class = GST_ELEMENT_CLASS (klass);

    gst_element_class_set_details_simple (element_class,
        "muxer video multiplexer", "Codec/Muxer",
        "High-quality MPEG/DVD/SVCD/VCD video/audio multiplexer",
        "Andrew Stevens <andrew.stevens@nexgo.de>\n"
        "Ronald Bultje <rbultje@ronald.bitfreak.net>\n"
        "Mark Nauwelaerts <mnauw@users.sourceforge.net>");

    gst_element_class_add_pad_template (element_class,
        gst_static_pad_template_get (&src_tmpl));
    gst_element_class_add_pad_template (element_class,
        gst_static_pad_template_get (&video_sink_tmpl));
    gst_element_class_add_pad_template (element_class,
        gst_static_pad_template_get (&audio_sink_tmpl));
}

```

```

static void
gst_muxer_class_init (GstMuxerClass * klass)
{
    GObjectClass *object_class = G_OBJECT_CLASS (klass);
    GstElementClass *element_class = GST_ELEMENT_CLASS (klass);

    GST_DEBUG_CATEGORY_INIT (muxer_debug, "muxer", 0, "MPEG video/audio muxer");

    object_class->set_property = gst_muxer_set_property;
    object_class->get_property = gst_muxer_get_property;

    /* register properties */
    GstMuxerJob::initProperties (object_class);

    object_class->finalize = GST_DEBUG_FUNC_PTR (gst_muxer_finalize);

    element_class->change_state = GST_DEBUG_FUNC_PTR (gst_muxer_change_state);
    element_class->request_new_pad =
        GST_DEBUG_FUNC_PTR (gst_muxer_request_new_pad);
    element_class->release_pad = GST_DEBUG_FUNC_PTR (gst_muxer_release_pad);
}

static void
gst_muxer_finalize (GObject * object)
{
    GstMuxer *muxer = GST_MUXER (object);
    GSList *walk;

    /* release all pads */
    walk = muxer->pads;
    while (walk) {
        GstMuxerPad *mpad = (GstMuxerPad *) walk->data;

        gst_object_unref (mpad->pad);
        mpad->pad = NULL;
        walk = walk->next;
    }

    /* clean up what's left of them */
    gst_muxer_reset (muxer);

    /* ... and of the rest */
    delete muxer->job;

    g_mutex_free (muxer->tlock);

    G_OBJECT_CLASS (parent_class)->finalize (object);
}

```

```

static void
gst_mux_init (GstMux * mux, GstMuxClass * g_class)
{
    GstElement *element = GST_ELEMENT (mux);
    GstElementClass *element_class = GST_ELEMENT_CLASS (g_class);

    mux->srcpad =
        gst_pad_new_from_template (gst_element_class_get_pad_template
            (element_class, "src"), "src");
    gst_element_add_pad (element, mux->srcpad);
    gst_pad_use_fixed_caps (mux->srcpad);
    gst_pad_set_activated_function (mux->srcpad,
        GST_DEBUG_FUNCPTR (gst_mux_src_activate_push));

    mux->job = new GstMuxJob ();
    mux->num_apads = 0;
    mux->num_vpads = 0;

    mux->tlock = g_mutex_new ();

    gst_mux_reset (mux);
}

static void
gst_mux_reset (GstMux * mux)
{
    GSList *walk;
    GSList *nlist = NULL;

    mux->eos = FALSE;
    mux->srcresult = GST_FLOW_CUSTOM_SUCCESS;

    /* reset existing streams */
    walk = mux->pads;
    while (walk != NULL) {
        GstMuxPad *mpad;

        mpad = (GstMuxPad *) walk->data;

        mpad->needed = 0;
        mpad->eos = FALSE;
        gst_adapter_clear (mpad->adapter);
        if (mpad->bs) {
            delete mpad->bs;

            mpad->bs = NULL;
        }
    }
}

```

```

if (!mpad->pad) {
    g_cond_free (mpad->cond);
    g_object_unref (mpad->adapter);
    g_free (mpad);
} else
    nlist = g_slist_append (nlist, mpad);

walk = walk->next;
}

g_slist_free (mplex->pads);
mplex->pads = nlist;

/* clear mplex stuff */
/* clean up stream settings */
while (!mplex->job->streams.empty ()) {
    delete mplex->job->streams.back ();

    mplex->job->streams.pop_back ();
}
while (!mplex->job->video_param.empty ()) {
    delete mplex->job->video_param.back ();

    mplex->job->video_param.pop_back ();
}
while (!mplex->job->lpcm_param.empty ()) {
    delete mplex->job->lpcm_param.back ();

    mplex->job->lpcm_param.pop_back ();
}
mplex->job->audio_tracks = 0;
mplex->job->video_tracks = 0;
mplex->job->lpcm_tracks = 0;
}

static gboolean
gst_muxer_setcaps (GstPad * pad, GstCaps * caps)
{
    GstMplex *mplex;
    const gchar *mime;
    GstStructure *structure;
    StreamKind type;
    JobStream *jobstream;
    GstMplexIBitStream *inputstream;
    GstMplexPad *mpad;
    GstCaps *othercaps;
    gboolean ret = TRUE;

```

```

mplex = GST_MPLEX (GST_PAD_PARENT (pad));

/* does not go well to negotiate when started */
if (mplex->srcresult != GST_FLOW_CUSTOM_SUCCESS)
    goto refuse_renegotiation;

/* since muxer does not really check much ... */
othercaps = gst_caps_intersect (caps, gst_pad_get_pad_template_caps (pad));
if (othercaps)
    gst_caps_unref (othercaps);
else
    goto refuse_caps;

/* set the fixed template caps on the srcpad, should accept without objection */
othercaps = gst_caps_copy (gst_pad_get_pad_template_caps (mplex->srcpad));
ret = gst_pad_set_caps (mplex->srcpad, othercaps);
gst_caps_unref (othercaps);
if (!ret)
    goto refuse_caps;

structure = gst_caps_get_structure (caps, 0);
mime = gst_structure_get_name (structure);

if (!strcmp (mime, "video/mpeg")) { /* video */
    VideoParams *params;

    type = MPEG_VIDEO;
    if (mplex->job->bufsize)
        params = VideoParams::Checked (mplex->job->bufsize);
    else
        params = VideoParams::Default (mplex->job->mux_format);
    /* set standard values if forced by the selected profile */
    if (params->Force (mplex->job->mux_format))
        GST_WARNING_OBJECT (mplex,
            "overriding non-standard option due to selected profile");

    mplex->job->video_param.push_back (params);
    mplex->job->video_tracks++;
} else { /* audio */
    if (!strcmp (mime, "audio/mpeg")) {
        type = MPEG_AUDIO;
    } else if (!strcmp (mime, "audio/x-ac3")) {
        type = AC3_AUDIO;
    } else if (!strcmp (mime, "audio/x-dts")) {
        type = DTS_AUDIO;
    } else if (!strcmp (mime, "audio/x-raw-int")) {
        LpcmParams *params;

```

```

gint bits, chans, rate;
gboolean result = TRUE;

type = LPCM_AUDIO;

/* set LPCM params */
result &= gst_structure_get_int (structure, "depth", &bits);
result &= gst_structure_get_int (structure, "rate", &rate);
result &= gst_structure_get_int (structure, "channels", &chans);
if (!result)
    goto refuse_caps;

params = LpcmParams::Checked (rate, chans, bits);

mplex->job->lpcm_param.push_back (params);
mplex->job->lpcm_tracks++;
} else
    goto refuse_caps;

mplex->job->audio_tracks++;
}

mpad = (GstMplexPad *) gst_pad_get_element_private (pad);
g_return_val_if_fail (mpad, FALSE);
inputstream = new GstMplexIBitStream (mpad);
mpad->bs = inputstream;
jobstream = new JobStream (inputstream, type);
mplex->job->streams.push_back (jobstream);

return TRUE;

refuse_caps:
{
    GST_WARNING_OBJECT (mplex, "refused caps %" GST_PTR_FORMAT, caps);

    /* undo if we were a bit too fast/confident */
    if (GST_PAD_CAPS (mplex->srcpad))
        gst_pad_set_caps (mplex->srcpad, NULL);

    return FALSE;
}

refuse_renegotiation:
{
    GST_WARNING_OBJECT (mplex, "already started; "
        "refused (re)negotiation (to %" GST_PTR_FORMAT ")", caps);

    return FALSE;
}

```



```

}

static void
gst_mux_loop (GstMplex * mplex)
{
    GstMplexOutputStream *out = NULL;
    Multiplexor *mux = NULL;
    GSList *walk;

    /* do not try to resume muxing after it finished
     * this can be relevant mainly/only in case of forced state change */
    if (mplex->eos)
        goto eos;

    /* inform downstream about what's coming */
    gst_pad_push_event (mplex->srcpad, gst_event_new_new_segment (FALSE, 1.0,
        GST_FORMAT_BYTES, 0, -1, 0));

    /* hm (!) each inputstream really needs an initial read
     * so that all is internally in the proper state */
    walk = mplex->pads;
    while (walk != NULL) {
        GstMplexPad *mpad;

        mpad = (GstMplexPad *) walk->data;
        mpad->bs->ReadBuffer ();

        walk = walk->next;
    }

    /* create new multiplexer with inputs/output */
    out = new GstMplexOutputStream (mplex, mplex->srcpad);
    #if GST_MJPEGTOOLS_API >= 10900
        mux = new Multiplexor (*mplex->job, *out, NULL);
    #else
        mux = new Multiplexor (*mplex->job, *out);
    #endif

    if (mux) {
        mux->Multiplex ();
        delete mux;
        delete out;
    }

    /* if not well and truly eos, something strange happened */
    if (!mplex->eos) {
        GST_ERROR_OBJECT (mplex, "muxing task ended without being eos");
        /* notify there is no point in collecting any more */
        GST_MPLEX_MUTEX_LOCK (mplex);
    }
}

```

```

    mplex->srcresult = GST_FLOW_ERROR;
    GST_MPLEX_SIGNAL_ALL (mplex);
    GST_MPLEX_MUTEX_UNLOCK (mplex);
} else
    goto eos;
} else {
    GST_WARNING_OBJECT (mplex, "failed to create Multiplexor");
}

/* fall-through */
done:
{
    /* no need to run wildly, stopped elsewhere, e.g. state change */
    GST_DEBUG_OBJECT (mplex, "pausing muxing task");
    gst_pad_pause_task (mplex->srcpad);

    return;
}
eos:
{
    GST_DEBUG_OBJECT (mplex, "encoding task reached eos");
    goto done;
}
}

static gboolean
gst_mux_sink_event (GstPad * sinkpad, GstEvent * event)
{
    GstMplex *mplex;
    GstMplexPad *mpad;
    gboolean result = TRUE;

    mplex = (GstMplex *) (GST_PAD_PARENT (sinkpad));
    mpad = (GstMplexPad *) gst_pad_get_element_private (sinkpad);
    g_return_val_if_fail (mpad, FALSE);

    switch (GST_EVENT_TYPE (event)) {
    case GST_EVENT_FLUSH_START:
        /* forward event */
        gst_pad_event_default (sinkpad, event);

        /* now unblock the chain function */
        GST_MPLEX_MUTEX_LOCK (mplex);
        mplex->srcresult = GST_FLOW_WRONG_STATE;
        GST_MPLEX_SIGNAL (mplex, mpad);
        GST_MPLEX_MUTEX_UNLOCK (mplex);
        /* no way to pause/restart loop task */
        goto done;

```

```

case GST_EVENT_FLUSH_STOP:
    /* forward event */
    gst_pad_event_default (sinkpad, event);

    /* clear state and resume */
    GST_MPLEX_MUTEX_LOCK (mplex);
    gst_adapter_clear (mpad->adapter);
    mplex->srcresult = GST_FLOW_OK;
    GST_MPLEX_MUTEX_UNLOCK (mplex);
    goto done;
case GST_EVENT_NEWSEGMENT:
    /* eat segments; we make our own (byte)stream */
    gst_event_unref (event);
    goto done;
case GST_EVENT_EOS:
    /* inform this pad that it can stop now */
    GST_MPLEX_MUTEX_LOCK (mplex);
    mpad->eos = TRUE;
    GST_MPLEX_SIGNAL (mplex, mpad);
    GST_MPLEX_MUTEX_UNLOCK (mplex);

    /* eat this event for now, task will send eos when finished */
    gst_event_unref (event);
    goto done;
default:
    /* for a serialized event, wait until earlier data is gone,
     * though this is no guarantee as to when task is done with it.
     * Only wait if loop has been started already */
    if (GST_EVENT_IS_SERIALIZED (event)) {
        GST_MPLEX_MUTEX_LOCK (mplex);
        while (mplex->srcresult == GST_FLOW_OK && !mpad->needed)
            GST_MPLEX_WAIT (mplex, mpad);
        GST_MPLEX_MUTEX_UNLOCK (mplex);
    }
    break;
}

result = gst_pad_event_default (sinkpad, event);

done:
return result;
}

/* starts task if conditions are right for it
 * must be called with mutex_lock held */
static void
gst_mplex_start_task (GstMplex * mplex)
{

```

```

/* start task to create multiplexor and start muxing */
if (G_UNLIKELY (mplex->srcresult == GST_FLOW_CUSTOM_SUCCESS)
    && mplex->job->video_tracks == mplex->num_vpads
    && mplex->job->audio_tracks == mplex->num_apads) {
    gst_pad_start_task (mplex->srcpad, (GstTaskFunction) gst_mux_loop, mplex);
    mplex->srcresult = GST_FLOW_OK;
}
}

static GstFlowReturn
gst_mux_chain (GstPad * sinkpad, GstBuffer * buffer)
{
    GstMplex *mplex;
    GstMplexPad *mpad;

    mplex = (GstMplex *) (GST_PAD_PARENT (sinkpad));
    mpad = (GstMplexPad *) gst_pad_get_element_private (sinkpad);
    g_return_val_if_fail (mpad, GST_FLOW_ERROR);

    /* check if pad were properly negotiated and set up */
    if (G_UNLIKELY (!mpad->bs)) {
        GST_ELEMENT_ERROR (mplex, CORE, NEGOTIATION, (NULL),
            ("input pad has not been set up prior to chain function"));
        return GST_FLOW_NOT_NEGOTIATED;
    }

    GST_MPLEX_MUTEX_LOCK (mplex);

    gst_mux_start_task (mplex);

    if (G_UNLIKELY (mpad->eos))
        goto eos;

    if (G_UNLIKELY (mplex->srcresult != GST_FLOW_OK))
        goto ignore;

    gst_adapter_push (mpad->adapter, buffer);
    buffer = NULL;
    while (gst_adapter_available (mpad->adapter) >= mpad->needed) {
        GST_MPLEX_SIGNAL (mplex, mpad);
        GST_MPLEX_WAIT (mplex, mpad);
        /* may have become flushing or in error */
        if (G_UNLIKELY (mplex->srcresult != GST_FLOW_OK))
            goto ignore;
        /* or been removed */
        if (G_UNLIKELY (mpad->eos))
            goto eos;
    }
}

```

```

GST_MPLEX_MUTEX_UNLOCK (mplex);

return GST_FLOW_OK;

/* special cases */
eos:
{
    GST_DEBUG_OBJECT (mplex, "ignoring buffer at end-of-stream");
    GST_MPLEX_MUTEX_UNLOCK (mplex);

    gst_buffer_unref (buffer);
    return GST_FLOW_UNEXPECTED;
}
ignore:
{
    GstFlowReturn ret = mplex->srcresult;

    GST_DEBUG_OBJECT (mplex, "ignoring buffer because src task encountered %s",
        gst_flow_get_name (ret));
    GST_MPLEX_MUTEX_UNLOCK (mplex);

    if (buffer)
        gst_buffer_unref (buffer);
    return ret;
}
}

static GstPad *
gst_mux_request_new_pad (GstElement * element,
    GstPadTemplate * templ, const gchar * name)
{
    GstElementClass *klass = GST_ELEMENT_GET_CLASS (element);
    GstMplex *mplex = GST_MPLEX (element);
    gchar *padname;
    GstPad *newpad;
    GstMplexPad *mpad;

    if (templ == gst_element_class_get_pad_template (klass, "audio_%d")) {
        GST_DEBUG_OBJECT (mplex, "request pad audio %d", mplex->num_apads);
        padname = g_strdup_printf ("audio_%d", mplex->num_apads++);
    } else if (templ == gst_element_class_get_pad_template (klass, "video_%d")) {
        GST_DEBUG_OBJECT (mplex, "request pad video %d", mplex->num_vpads);
        padname = g_strdup_printf ("video_%d", mplex->num_vpads++);
    } else {
        GST_WARNING_OBJECT (mplex, "This is not our template!");
        return NULL;
    }
}

```

```

newpad = gst_pad_new_from_template (templ, padname);
g_free (padname);

mpad = g_new0 (GstMplexPad, 1);
mpad->adapter = gst_adapter_new ();
mpad->cond = g_cond_new ();
gst_object_ref (newpad);
mpad->pad = newpad;

gst_pad_set_setcaps_function (newpad, GST_DEBUG_FUNCPTR (gst_mplex_setcaps));
gst_pad_set_chain_function (newpad, GST_DEBUG_FUNCPTR (gst_mplex_chain));
gst_pad_set_event_function (newpad, GST_DEBUG_FUNCPTR (gst_mplex_sink_event));
gst_pad_set_element_private (newpad, mpad);
gst_element_add_pad (element, newpad);
mplex->pads = g_slist_append (mplex->pads, mpad);

return newpad;
}

static void
gst_mplex_release_pad (GstElement * element, GstPad * pad)
{
    GstMplex *mplex = GST_MPLEX (element);
    GstMplexPad *mpad;

    g_return_if_fail (pad);
    mpad = (GstMplexPad *) gst_pad_get_element_private (pad);
    g_return_if_fail (mpad);

    if (gst_element_remove_pad (element, pad)) {
        gchar *padname;

        GST_MPLEX_MUTEX_LOCK (mplex);
        mpad->eos = TRUE;
        gst_object_unref (mpad->pad);
        mpad->pad = NULL;
        /* wake up if waiting on this pad */
        GST_MPLEX_SIGNAL (mplex, mpad);

        padname = gst_object_get_name (GST_OBJECT (pad));
        if (strstr (padname, "audio")) {
            mplex->num_apads--;
        } else {
            mplex->num_vpads--;
        }
        g_free (padname);
    }
}

```

```

    /* may now be up to us to get things going */
    gst_mux_start_task (mplex);
    GST_MUX_MUTEX_UNLOCK (mplex);
}
}

static void
gst_mux_get_property (GObject * object,
    guint prop_id, GValue * value, GParamSpec * pspec)
{
    GST_MUX (object)->job->getProperty (prop_id, value);
}

static void
gst_mux_set_property (GObject * object,
    guint prop_id, const GValue * value, GParamSpec * pspec)
{
    GST_MUX (object)->job->setProperty (prop_id, value);
}

static gboolean
gst_mux_src_activate_push (GstPad * pad, gboolean active)
{
    gboolean result = TRUE;
    GstMux *mplex;

    mplex = GST_MUX (GST_PAD_PARENT (pad));

    if (active) {
        /* chain will start task once all streams have been setup */
    } else {
        /* end the muxing loop by forcing eos and unblock chains */
        GST_MUX_MUTEX_LOCK (mplex);
        mplex->eos = TRUE;
        mplex->srcresult = GST_FLOW_WRONG_STATE;
        GST_MUX_SIGNAL_ALL (mplex);
        GST_MUX_MUTEX_UNLOCK (mplex);

        /* muxing loop should have ended now and can be joined */
        result = gst_pad_stop_task (pad);
    }

    return result;
}

static GstStateChangeReturn
gst_mux_change_state (GstElement * element, GstStateChange transition)
{

```

```

GstMplex *mplex = GST_MPLEX (element);
GstStateChangeReturn ret;

switch (transition) {
case GST_STATE_CHANGE_NULL_TO_READY:
    break;
case GST_STATE_CHANGE_READY_TO_PAUSED:
    break;
case GST_STATE_CHANGE_PAUSED_TO_PLAYING:
    break;
default:
    break;
}

ret = GST_ELEMENT_CLASS (parent_class)->change_state (element, transition);
if (ret == GST_STATE_CHANGE_FAILURE)
    goto done;

switch (transition) {
case GST_STATE_CHANGE_PAUSED_TO_READY:
    gst_mplex_reset (mplex);
    break;
default:
    break;
}

done:
return ret;
}

#ifdef GST_DISABLE_GST_DEBUG

static mjpeg_log_handler_t old_handler = NULL;

/* note that this will affect all mjpegtools elements/threads */
static void
gst_mplex_log_callback (log_level_t level, const char *message)
{
    GstDebugLevel gst_level;

#ifdef GST_MJPEGTOOLS_API >= 10900
    static const gint mjpeg_log_error = mjpeg_loglev_t ("error");
    static const gint mjpeg_log_warn = mjpeg_loglev_t ("warn");
    static const gint mjpeg_log_info = mjpeg_loglev_t ("info");
    static const gint mjpeg_log_debug = mjpeg_loglev_t ("debug");
#else
    static const gint mjpeg_log_error = LOG_ERROR;
    static const gint mjpeg_log_warn = LOG_WARN;
#endif
}

```



```

static const gint mjpeg_log_info = LOG_INFO;
static const gint mjpeg_log_debug = LOG_DEBUG;
#endif

if (level == mjpeg_log_error) {
    gst_level = GST_LEVEL_ERROR;
} else if (level == mjpeg_log_warn) {
    gst_level = GST_LEVEL_WARNING;
} else if (level == mjpeg_log_info) {
    gst_level = GST_LEVEL_INFO;
} else if (level == mjpeg_log_debug) {
    gst_level = GST_LEVEL_DEBUG;
} else {
    gst_level = GST_LEVEL_INFO;
}

/* message could have a % in it, do not segfault in such case */
gst_debug_log (mplex_debug, gst_level, "", "", 0, NULL, "%s", message);

/* chain up to the old handler;
 * this could actually be a handler from another mjpegtools based
 * gstreamer element; in which case messages can come out double or from
 * the wrong element ... */
old_handler (level, message);
}
#endif

static gboolean
plugin_init (GstPlugin * plugin)
{
#ifdef GST_DISABLE_GST_DEBUG
    old_handler = mjpeg_log_set_handler (gst_mplex_log_callback);
    g_assert (old_handler != NULL);
#endif
    /* in any case, we do not want default handler output */
    mjpeg_default_handler_verbosity (0);

    return gst_element_register (plugin, "mplex", GST_RANK_NONE, GST_TYPE_MPLEX);
}

GST_PLUGIN_DEFINE (GST_VERSION_MAJOR,
    GST_VERSION_MINOR,
    "mplex",
    "High-quality MPEG/DVD/SVCD/VCD video/audio multiplexer",
    plugin_init, VERSION, "GPL", GST_PACKAGE_NAME, GST_PACKAGE_ORIGIN)
/* GStreamer mplex (mjpegtools) wrapper
 * (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
 *

```

```

* gstmux.h: gstreamer mux wrapper
*
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* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/

```

```
#ifndef __GST_MUX_H__
```

```
#define __GST_MUX_H__
```

```
#include <gst/gst.h>
```

```
#include <gst/base/gstadapter.h>
```

```
#include <muxor.h>
```

```
#include "gstmuxbitstream.h"
```

```
#include "gstmuxjob.h"
```

```
G_BEGIN_DECLS
```

```
#define GST_TYPE_MUX \
```

```
(gst_mux_get_type ())
```

```
#define GST_MUX(obj) \
```

```
(G_TYPE_CHECK_INSTANCE_CAST ((obj), GST_TYPE_MUX, GstMux))
```

```
#define GST_MUX_CLASS(klass) \
```

```
(G_TYPE_CHECK_CLASS_CAST ((klass), GST_TYPE_MUX, GstMux))
```

```
#define GST_IS_MUX(obj) \
```

```
(G_TYPE_CHECK_INSTANCE_TYPE ((obj), GST_TYPE_MUX))
```

```
#define GST_IS_MUX_CLASS(klass) \
```

```
(G_TYPE_CHECK_CLASS_TYPE ((klass), GST_TYPE_MUX))
```

```
GST_DEBUG_CATEGORY_EXTERN (mux_debug);
```

```
#define GST_CAT_DEFAULT mux_debug
```

```

#define GST_MUX_MUTEX_LOCK(m) G_STMT_START { \
    GST_LOG_OBJECT (m, "locking tlock from thread %p", g_thread_self ()); \
    g_mutex_lock ((m)->tlock); \
    GST_LOG_OBJECT (m, "locked tlock from thread %p", g_thread_self ()); \
} G_STMT_END

```

```

#define GST_MPLEX_MUTEX_UNLOCK(m) G_STMT_START {
    GST_LOG_OBJECT (m, "unlocking tlock from thread %p", g_thread_self ()); \
    g_mutex_unlock ((m)->tlock);
} G_STMT_END

```

```

#define GST_MPLEX_WAIT(m, p) G_STMT_START {
    GST_LOG_OBJECT (m, "thread %p waiting", g_thread_self ()); \
    g_cond_wait ((p)->cond, (m)->tlock);
} G_STMT_END

```

```

#define GST_MPLEX_SIGNAL(m, p) G_STMT_START {
    GST_LOG_OBJECT (m, "signalling from thread %p", g_thread_self ()); \
    g_cond_signal ((p)->cond);
} G_STMT_END

```

```

#define GST_MPLEX_SIGNAL_ALL(m) G_STMT_START {
    GST_LOG_OBJECT (m, "signalling all from thread %p", g_thread_self ()); \
    GSList *walk = m->pads;
    while (walk) {
        GST_MPLEX_SIGNAL (m, (GstMplexPad *) walk->data); \
        walk = walk->next;
    }
} G_STMT_END

```

```

typedef struct _GstMplexPad
{
    /* associated pad */
    GstPad *pad;
    /* with mplex TLOCK */
    /* adapter collecting buffers for this pad */
    GstAdapter *adapter;
    /* no more to expect on this pad */
    gboolean eos;
    /* signals counterpart thread to have a look */
    GCond *cond;
    /* amount needed by mplex on this stream */
    guint needed;
    /* bitstream for this pad */
    GstMplexIBitStream *bs;
} GstMplexPad;

```

```

typedef struct _GstMplex {
    GstElement parent;

    /* pads */
    GSList *pads;
    GstPad *srcpad;
}

```

```

guint num_apads, num_vpads;

/* options wrapper */
GstMplexJob *job;

/* lock for syncing */
GMutex *tlock;
/* with TLOCK */
/* muxer writer generated eos */
gboolean eos;
/* flowreturn obtained by muxer task */
GstFlowReturn srcresult;
} GstMplex;

typedef struct _GstMplexClass {
    GstElementClass parent;
} GstMplexClass;

GType gst_muxer_get_type (void);

G_END_DECLS

#endif /* __GST_MPLEX_H__ */
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
*
* gstmplexibitstream.hh: gstreamer/mplex input bitstream wrapper
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* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

```

```

#include <string.h>

#include "gstmux.h"
#include "gstmuxibitstream.h"

/*
 * Class init/exit functions.
 */

GstMuxIBitStream::GstMuxIBitStream (GstMuxPad * _data, guint buf_size):
IBitStream ()
{
    mpad = _data;
    mux = GST_MUX (GST_PAD_PARENT (mpad->pad));
    eos = FALSE;

    SetBufSize (buf_size);
    eobs = false;
    byteidx = 0;
}

/*
 * Read data.
 */

size_t
GstMuxIBitStream::ReadStreamBytes (uint8_t * buf, size_t size =
    BUFFER_SIZE)
{
    guint8 *data;

    GST_MUX_MUTEX_LOCK (mux);

    GST_DEBUG_OBJECT (mux, "needing %d bytes", (guint) size);

    while (gst_adapter_available (mpad->adapter) < size
        && !mux->eos && !mpad->eos) {
        mpad->needed = size;
        GST_MUX_SIGNAL (mux, mpad);
        GST_MUX_WAIT (mux, mpad);
    }

    mpad->needed = 0;
    size = MIN (size, gst_adapter_available (mpad->adapter));
    if (size) {
        data = gst_adapter_take (mpad->adapter, size);
        memcpy (buf, data, size);
    }
}

```

```

    g_free (data);
}

GST_MPLEX_MUTEX_UNLOCK (mplex);

return size;
}

/*
 * Are we at EOS?
 */

bool GstMplexIBitStream::EndOfStream (void)
{
    return eos;
}

bool GstMplexIBitStream::ReadBuffer ()
{
    return ReadIntoBuffer (BUFFER_SIZE);
}

/* GStreamer mplex (mjpegtools) wrapper
 * (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
 * (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
 *
 * gstmplexibitstream.hh: gstreamer/mplex input bitstream wrapper
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 * Boston, MA 02111-1307, USA.
 */

#ifndef __GST_MPLEXIBITSTREAM_H__
#define __GST_MPLEXIBITSTREAM_H__

#include <gst/gst.h>
#include <mjpeg_types.h>

```

```

#include <bits.hpp>

#include "gstmux.h"

/* forward declaration; break circular referencing */
typedef struct _GstMux GstMux;
typedef struct _GstMuxPad GstMuxPad;

class GstMuxIBitStream : public IBitStream {
public:
    GstMuxIBitStream (GstMuxPad *pad, guint buf_size = BUFFER_SIZE);
    bool ReadBuffer ();

protected:
    /* read data */
    size_t ReadStreamBytes (uint8_t *buf, size_t number);

    /* are we at EOS? */
    bool EndOfStream (void);

private:
    GstMux *mux;
    GstMuxPad *mpad;
    gboolean eos;
};

#endif /* __GST_MUXIBITSTREAM_H__ */
/* GStreamer mux (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
*
* gstmuxjob.hh: gstreamer/mux multiplex-job wrapper
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* Boston, MA 02111-1307, USA.
*/

```

```

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

#include "gstmplexjob.hh"

enum
{
  ARG_0,
  ARG_FORMAT,
  ARG_MUX_BITRATE,
  ARG_VBR,
  ARG_SYSTEM_HEADERS,
  ARG_SPLIT_SEQUENCE,
  ARG_SEGMENT_SIZE,
  ARG_PACKETS_PER_PACK,
  ARG_SECTOR_SIZE,
  ARG_BUFSIZE
  /* FILL ME */
};

/*
 * Property enumeration types.
 */

#define GST_TYPE_MPLEX_FORMAT \
(gst_mplex_format_get_type ())

static GType
gst_mplex_format_get_type (void)
{
  static GType mplex_format_type = 0;

  if (!mplex_format_type) {
    static const GEnumValue mplex_formats[] = {
      {0, "Generic MPEG-1", "0"},
      {1, "Standard VCD", "1"},
      {2, "User VCD", "2"},
      {3, "Generic MPEG-2", "3"},
      {4, "Standard SVCD", "4"},
      {5, "User SVCD", "5"},
      {6, "VCD Stills sequences", "6"},
      {7, "SVCD Stills sequences", "7"},
      {8, "DVD MPEG-2 for dvdauthor", "8"},
      {9, "DVD MPEG-2", "9"},
      {0, NULL, NULL},
    };
  }
};

```



```

mplex_format_type =
    g_enum_register_static ("GstMplexFormat", mplex_formats);
}

return mplex_format_type;
}

/*
 * Class init functions.
 */

GstMplexJob::GstMplexJob (void):
MultiplexJob ()
{
    /* blabla */
    bufsize = 0;
}

/*
 * GObject properties.
 */

void
GstMplexJob::initProperties (GObjectClass * klass)
{
    /* encoding profile */
    g_object_class_install_property (klass, ARG_FORMAT,
        g_param_spec_enum ("format", "Format", "Encoding profile format",
            GST_TYPE_MPLEX_FORMAT, 0,
            (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));

    /* total stream datarate. Normally, this shouldn't be needed, but
     * some DVD/VCD/SVCD players really need strict values to handle
     * the created files correctly. */
    g_object_class_install_property (klass, ARG_MUX_BITRATE,
        g_param_spec_int ("mux-bitrate", "Mux. bitrate",
            "Bitrate of output stream in kbps (0 = autodetect)",
            0, 15 * 1024, 0,
            (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));

    /* override decode buffer size otherwise determined by format */
    g_object_class_install_property (klass, ARG_BUFSIZE,
        g_param_spec_int ("bufsize", "Decoder buf. size",
            "Target decoders video buffer size (kB) "
            "[default determined by format if not explicitly set]",
            20, 4000, 46,
            (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
}

```

```

/* some boolean stuff for headers */
g_object_class_install_property (klass, ARG_VBR,
    g_param_spec_boolean ("vbr", "VBR",
        "Whether the input video stream is variable bitrate",
        FALSE,
        (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
g_object_class_install_property (klass, ARG_SYSTEM_HEADERS,
    g_param_spec_boolean ("system-headers", "System headers",
        "Create system header in every pack for generic formats",
        FALSE,
        (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
#if 0
    /* not supported */
g_object_class_install_property (klass, ARG_SPLIT_SEQUENCE,
    g_param_spec_boolean ("split-sequence", "Split sequence",
        "Simply split a sequence across files "
        "(rather than building run-out/run-in)",
        FALSE,
        (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));

/* size of a segment */
g_object_class_install_property (klass, ARG_SEGMENT_SIZE,
    g_param_spec_int ("max-segment-size", "Max. segment size",
        "Max. size per segment/file in MB (0 = unlimited)",
        0, 10 * 1024, 0,
        (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
#endif

/* packets per pack (generic formats) */
g_object_class_install_property (klass, ARG_PACKETS_PER_PACK,
    g_param_spec_int ("packets-per-pack", "Packets per pack",
        "Number of packets per pack for generic formats",
        1, 100, 1,
        (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));

/* size of one sector */
g_object_class_install_property (klass, ARG_SECTOR_SIZE,
    g_param_spec_int ("sector-size", "Sector size",
        "Specify sector size in bytes for generic formats",
        256, 16384, 2048,
        (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
}

/*
 * set/get gobject properties.
 */

void

```

```

GstMplexJob::getProperty (guint prop_id, GValue * value)
{
switch (prop_id) {
case ARG_FORMAT:
g_value_set_enum (value, mux_format);
break;
case ARG_MUX_BITRATE:
/* convert from bytes back to bits */
g_value_set_int (value, (data_rate * 8) / 1000);
break;
case ARG_VBR:
g_value_set_boolean (value, VBR);
break;
case ARG_SYSTEM_HEADERS:
g_value_set_boolean (value, always_system_headers);
break;
case ARG_SPLIT_SEQUENCE:
g_value_set_boolean (value, multifile_segment);
break;
case ARG_SEGMENT_SIZE:
g_value_set_int (value, max_segment_size);
break;
case ARG_PACKETS_PER_PACK:
g_value_set_int (value, packets_per_pack);
break;
case ARG_SECTOR_SIZE:
g_value_set_int (value, sector_size);
break;
case ARG_BUFSIZE:
g_value_set_int (value, bufsize);
break;
default:
break;
}
}

void
GstMplexJob::setProperty (guint prop_id, const GValue * value)
{
switch (prop_id) {
case ARG_FORMAT:
mux_format = g_value_get_enum (value);
break;
case ARG_MUX_BITRATE:
/* data_rate expects bytes (don't ask me why the property itself is
* in bits, I'm just staying compatible to mjpegtools options), and
* rounded up to 50-bytes. */
data_rate = ((g_value_get_int (value) * 1000 / 8 + 49) / 50) * 50;

```

```

    break;
case ARG_VBR:
    VBR = g_value_get_boolean (value);
    break;
case ARG_SYSTEM_HEADERS:
    always_system_headers = g_value_get_boolean (value);
    break;
case ARG_SPLIT_SEQUENCE:
    multifile_segment = g_value_get_boolean (value);
    break;
case ARG_SEGMENT_SIZE:
    max_segment_size = g_value_get_int (value);
    break;
case ARG_PACKETS_PER_PACK:
    packets_per_pack = g_value_get_int (value);
    break;
case ARG_SECTOR_SIZE:
    sector_size = g_value_get_int (value);
    break;
case ARG_BUFSIZE:
    bufsize = g_value_get_int (value);
    break;
default:
    break;
}
}
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
*
* gstmplexjob.hh: gstreamer/mplex multiplex-job wrapper
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*/

#ifdef __GST_MPLEXJOB_H__

```

```

#define __GST_MPLEXJOB_H__

#include <glib-object.h>
#include <interact.hpp>

class GstMplexJob : public MultiplexJob {
public:
    GstMplexJob (void);

    /* gobject properties */
    static void initProperties (GObjectClass *klass);

    /* set/get gobject properties */
    void getProperty (guint      prop_id,
                     GValue     *value);
    void setProperty (guint      prop_id,
                     const GValue *value);

    int bufsize;
};

#ifdef /* __GST_MPLEXJOB_H__ */
/* GStreamer mplex (mjpegtools) wrapper
 * (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
 * (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
 *
 * gstmplexoutputstream.hh: gstreamer/mplex output stream wrapper
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 */

#endif HAVE_CONFIG_H
#include "config.h"
#endif

```

```

#include <string.h>

#include "gstmux.h"
#include "gstmuxoutputstream.h"

/*
 * Class init functions.
 */

GstMuxOutputStream::GstMuxOutputStream (GstMux * _element, GstPad * _pad):
OutputStream ()
{
    mux = _element;
    pad = _pad;
    size = 0;
}

/*
 * Open/close. Basically 'no-op's (close() sets EOS).
 *
 * Open (): -1 means failure, 0 means success.
 */

int
GstMuxOutputStream::Open (void)
{
    return 0;
}

void
GstMuxOutputStream::Close (void)
{
    GST_MUX_MUTEX_LOCK (mux);
    GST_DEBUG_OBJECT (mux, "closing stream and sending eos");
    gst_pad_push_event (pad, gst_event_new_eos ());
    /* notify chain there is no more need to supply buffers */
    mux->eos = TRUE;
    GST_MUX_SIGNAL_ALL (mux);
    GST_MUX_MUTEX_UNLOCK (mux);
}

/*
 * Get size of current segment.
 */

#ifdef GST_MJPEGTOOLS_API >= 10900
uint64_t
GstMuxOutputStream::SegmentSize (void)

```

```

#else
off_t
GstMplexOutputStream::SegmentSize (void)
#endif
{
    return size;
}

/*
 * Next segment; not really supported.
 */

void
GstMplexOutputStream::NextSegment (void)
{
    size = 0;

    GST_WARNING_OBJECT (mplex, "multiple file output is not supported");
    /* FIXME: no such filesink behaviour to be expected */
}

/*
 * Write data.
 */

void
GstMplexOutputStream::Write (guint8 * data, guint len)
{
    GstBuffer *buf;

    buf = gst_buffer_new_and_alloc (len);
    memcpy (GST_BUFFER_DATA (buf), data, len);

    size += len;
    GST_MPLEX_MUTEX_LOCK (mplex);
    gst_buffer_set_caps (buf, GST_PAD_CAPS (pad));
    mplex->srcresult = gst_pad_push (pad, buf);
    GST_MPLEX_MUTEX_UNLOCK (mplex);
}

/* GStreamer mplex (mjpegtools) wrapper
 * (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
 * (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
 *
 * gstmplexoutputstream.hh: gstreamer/mplex output stream wrapper
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```

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 \*/

```
#ifndef __GST_MPLEXOUTPUTSTREAM_H__
#define __GST_MPLEXOUTPUTSTREAM_H__

#include <gst/gst.h>
#include <mjpeg_types.h>
#include <outputstrm.hpp>

#include "gstmplex.hh"

class GstMplexOutputStream : public OutputStream {
public:
    GstMplexOutputStream (GstMplex *element, GstPad *pad);

    /* open/close. Basically 'no-op's (close() sets EOS). */
    int Open (void);
    void Close (void);

    /* get size of current segment */
    #if GST_MJPEGTOOLS_API >= 10900
        uint64_t SegmentSize (void);
    #else
        off_t SegmentSize (void);
    #endif

    /* next segment */
    void NextSegment (void);

    /* write data */
    void Write (guint8 *data, guint len);

private:
    GstMplex *mplex;
    GstPad *pad;
    guint64 size;
};
```



```
#endif /* __GST_MPLEXOUTPUTSTREAM_H__ */
```

# 1.114 gstreamer-plugins-base 0.10.35.1

## 1.114.1 Available under license :

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Version 2, June 1991

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```

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```
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```

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/\* GStreamer

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GPL linked plugins GStreamer is for all practical reasons under the GPL itself.

The plugins which use a GPL library are as follows:

a52dec	liba52	( <a href="http://liba52.sourceforge.net/">http://liba52.sourceforge.net/</a> )
aasink	aalib	( <a href="http://sourceforge.net/projects/aa-project/">http://sourceforge.net/projects/aa-project/</a> )
cdparanoia	libcdparanoia	( <a href="http://www.xiph.org/paranoia/">http://www.xiph.org/paranoia/</a> )
dtsdec	libdts	( <a href="http://www.videolan.org/dtsdec.html">http://www.videolan.org/dtsdec.html</a> )
dvdnavsrc	libdvdnav	( <a href="http://dvd.sourceforge.net/">http://dvd.sourceforge.net/</a> )
dxr3		( <a href="http://dxr3.sourceforge.net/">http://dxr3.sourceforge.net/</a> )
icecastsend	libshout	( <a href="http://www.icecast.org">http://www.icecast.org</a> )
mad	libmad	( <a href="http://www.mars.org/home/rob/proj/mpeg/">http://www.mars.org/home/rob/proj/mpeg/</a> )
mpeg2dec	libmpeg2	( <a href="http://libmpeg2.sourceforge.net/">http://libmpeg2.sourceforge.net/</a> )
mpeg2enc	libmpeg2enc	( <a href="http://mjpeg.sourceforge.net/">http://mjpeg.sourceforge.net/</a> )
mplex	libmplex	( <a href="http://mjpeg.sourceforge.net/">http://mjpeg.sourceforge.net/</a> )
siddec	libsidplay 1.36	( <a href="http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/">http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/</a> , <a href="http://sourceforge.net/projects/sidplay2/">http://sourceforge.net/projects/sidplay2/</a> )
trm	libmusicbrainz	( <a href="http://www.musicbrainz.org/">http://www.musicbrainz.org/</a> )
xine	libxine	( <a href="http://xinehq.de/">http://xinehq.de/</a> )
xvid	libxvidcore	( <a href="http://www.xvid.org/">http://www.xvid.org/</a> )

Plugins derived from GPL code are as follows:

dvdreadsrc	libdvdread	( <a href="http://www.dtek.chalmers.se/groups/dvd/">http://www.dtek.chalmers.se/groups/dvd/</a> )
jack	libjack	( <a href="http://jackit.sourceforge.net/">http://jackit.sourceforge.net/</a> ) Note libjack is LGPL, but plugin is GPL.
monoscope	None	(Algorithm by Ralph Loader, Joerg Walter, Richard Boulton, and Andy Lo A Foe)
rtjpeg	None	(Erik Walthinsen's algorithm)
rtp	None	( <a href="http://www.linphone.org/ortp/">http://www.linphone.org/ortp/</a> )
synaesthesia		( <a href="http://www.logarithmic.net/pfh/synaesthesia">http://www.logarithmic.net/pfh/synaesthesia</a> )
system_encode	None	(Algorithm by Chrisoph Moar, Wim Tayman's and Erik Walthinsen)
vbidec	None	(Algorithm by Billy Biggs, Doug Bell, Erik Walthinsen and David I. Lehn)

Plugins which use a LGPL library are as follows:

alsa	alsa	( <a href="http://alsa-project.org/">http://alsa-project.org/</a> )
artsdsink	aRts	( <a href="http://arts-project.org/">http://arts-project.org/</a> )
cacasink	libcaca	( <a href="http://sam.zoy.org/projects/libcaca/">http://sam.zoy.org/projects/libcaca/</a> )
colorspace	libcolorspace	
dvdec	libdv	( <a href="http://libdv.sourceforge.net/">http://libdv.sourceforge.net/</a> )
esdmon,esdsink	libesd	( <a href="ftp.gnome.org/pub/GNOME/stable/sources/esound/">ftp.gnome.org/pub/GNOME/stable/sources/esound/</a> )
faac	libfaac	( <a href="http://www.audiocoding.com/modules/mydownloads/">http://www.audiocoding.com/modules/mydownloads/</a> )
fameenc	libfame	( <a href="http://fame.sourceforge.net/">http://fame.sourceforge.net/</a> )
ffmpeg	ffmpeg	( <a href="http://ffmpeg.sourceforge.net/">http://ffmpeg.sourceforge.net/</a> )
gdkpixbuf	GTK+	( <a href="http://www.gtk.org/">http://www.gtk.org/</a> )
gnomevfs	gnome-vfs	( <a href="ftp.gnome.org/pub/GNOME/stable/sources/gnome-vfs/">ftp.gnome.org/pub/GNOME/stable/sources/gnome-vfs/</a> )
gst_arts	aRts	( <a href="http://arts-project.org/">http://arts-project.org/</a> )
gst1394	libraw1394	( <a href="http://www.linux1394.org/">http://www.linux1394.org/</a> )

gstaf libaudiofile (<http://www.68k.org/~michael/audiofile/>)  
 gstsflibsndfile (<http://www.mega-nerd.com/libsndfile/>)  
 hermescolorspaceHermes (<http://www.clanlib.org/hermes/>)  
 kioKDE (<http://www.kde.org/>)  
 ladspa (<http://www.ladspa.org/>)  
 lame libmp3lame (<http://lame.sourceforge.net/>)  
 libvisual libvisual (<http://libvisual.sourceforge.net/>)  
 matroska (<http://www.matroska.org/>)  
 mikmod libmikmod (<http://mikmod.raphnet.net/>)  
 ossaudio (<http://www.opensound.com/>)  
 qcamsrc  
 rfbenc librfb  
 sdlvideosink libSDL (<http://www.libsdl.org/>)  
 shout2send libshout2 (<http://www.icecast.org/>)  
 smoothwave  
 swfdec (<http://swfdec.sourceforge.net/>)  
 tarkin (<http://svn.xiph.org/trunk/tarkin/>)  
 textoverlay pango (<http://www.pango.org/>)  
 dirac (<http://www.bbc.co.uk/rd/projects/dirac/>)  
 effectv (Our ports was relicensed)(<http://effectv.sourceforge.net/>)  
 musepack (<http://www.musepack.net/>)

Plugins which use a BSD covered library are as follows:

ogg libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)  
 vorbis libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)  
 gsttheora libtheora (<http://www.theora.org/>)  
 speex (<http://www.speex.org/>)  
 flac libFLAC (<http://flac.sourceforge.net/>)

Plugins based on libraries with other free licenses:

ximagesink libXv  
 xvimagesink libXv  
 - license: MIT X11 / X Consortium license  
  
 gsm libgsm  
 - license: MIT license <http://kbs.cs.tu-berlin.de/~jutta/toast.html>  
  
 festival (<http://www.cstr.ed.ac.uk/projects/festival/>)  
 - license: <http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml>  
  
 jpeg (<http://www.ijg.org/>)  
 - license: IJG license  
  
 nas (<http://radscan.com/nas.html>)  
 - license: NAS license

snapshot libpng (<http://www.libpng.org/pub/png/>)

- license: PNG license

mngdec/mngenc libmng (<http://gjuyn.xs4all.nl/libmng>)

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Plugins using non-free libraries:

divxdec, divxenc (<http://www.divx.com/>)

osxaudio (<http://www.apple.com/macosx/>)

sunaudiosink (<http://www.sun.com/>)

Unsure:

faad libfaad (<http://www.audiocoding.com/>)

faad's license depends on its major version :

- for FAAD1 : it is LGPL

- for FAAD2 : it is GPL

look at these pages for more information on licenses :

<http://www.audiocoding.com/modules/wiki/?page=FAAD2>

<http://www.audiocoding.com/modules/wiki/?page=FAAC>

by default, GStreamer faad plugin would compile against FAAD2 if available.

it falls back to FAAD1 if not.

## 1.115 gstreamer-plugins-good 0.10.30.1

### 1.115.1 Available under license :

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Version 2.1, February 1999

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

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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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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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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.)

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

That's all there is to it!

/\* GStreamer

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\*

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As the plugin is as of today's date (19th of June 2007) it does not violate any software patents we know of.

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The plugins which use a GPL library are as follows:

a52dec	liba52	( <a href="http://liba52.sourceforge.net/">http://liba52.sourceforge.net/</a> )
aasink	aalib	( <a href="http://sourceforge.net/projects/aa-project/">http://sourceforge.net/projects/aa-project/</a> )
cdparanoia	libcdparanoia	( <a href="http://www.xiph.org/paranoia/">http://www.xiph.org/paranoia/</a> )
dtsdec	libdts	( <a href="http://www.videolan.org/dtsdec.html">http://www.videolan.org/dtsdec.html</a> )
dvdnavsrc	libdvdnav	( <a href="http://dvd.sourceforge.net/">http://dvd.sourceforge.net/</a> )
dxr3		( <a href="http://dxr3.sourceforge.net/">http://dxr3.sourceforge.net/</a> )
icecastsend	libshout	( <a href="http://www.icecast.org">http://www.icecast.org</a> )
mad	libmad	( <a href="http://www.mars.org/home/rob/proj/mpeg/">http://www.mars.org/home/rob/proj/mpeg/</a> )
mpeg2dec	libmpeg2	( <a href="http://libmpeg2.sourceforge.net/">http://libmpeg2.sourceforge.net/</a> )
mpeg2enc	libmpeg2enc	( <a href="http://mjpeg.sourceforge.net/">http://mjpeg.sourceforge.net/</a> )
mplex	libmplex	( <a href="http://mjpeg.sourceforge.net/">http://mjpeg.sourceforge.net/</a> )
siddec	libsidplay 1.36	( <a href="http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/">http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/</a> , <a href="http://sourceforge.net/projects/sidplay2/">http://sourceforge.net/projects/sidplay2/</a> )
trm	libmusicbrainz	( <a href="http://www.musicbrainz.org/">http://www.musicbrainz.org/</a> )
xine	libxine	( <a href="http://xinehq.de/">http://xinehq.de/</a> )
xvid	libxvidcore	( <a href="http://www.xvid.org/">http://www.xvid.org/</a> )

Plugins derived from GPL code are as follows:

dvdreadsrc	libdvdread	( <a href="http://www.dtek.chalmers.se/groups/dvd/">http://www.dtek.chalmers.se/groups/dvd/</a> )
jack	libjack	( <a href="http://jackit.sourceforge.net/">http://jackit.sourceforge.net/</a> ) Note libjack is LGPL, but plugin is GPL.
monoscope	None	(Algorithm by Ralph Loader, Joerg Walter, Richard Boulton, and Andy Lo A Foe)
rtjpeg	None	(Erik Walthinsen's algorithm)
rtp	None	( <a href="http://www.linphone.org/ortp/">http://www.linphone.org/ortp/</a> )
synaesthesia		( <a href="http://www.logarithmic.net/pfh/synaesthesia">http://www.logarithmic.net/pfh/synaesthesia</a> )
system_encode	None	(Algorithm by Chrisoph Moar, Wim Tayman's and Erik Walthinsen)

vbidec      None      (Algorithm by Billy Biggs, Doug Bell,  
Erik Walthinsen and David I. Lehn)

Plugins which use a LGPL library are as follows:

alsa      alsa      (<http://alsa-project.org/>)  
artsdsink      aRts      (<http://arts-project.org/>)  
cacasink      libcaca      (<http://sam.zoy.org/projects/libcaca/>)  
colorspace      libcolorspace  
dvdec      libdv      (<http://libdv.sourceforge.net/>)  
esdmon,esdsink      libesd      (<ftp.gnome.org/pub/GNOME/stable/sources/esound/>)  
faac      libfaac      (<http://www.audiocoding.com/modules/mydownloads/>)  
fameenc      libfame      (<http://fame.sourceforge.net/>)  
ffmpeg      ffmpeg      (<http://ffmpeg.sourceforge.net/>)  
gdkpixbuf      GTK+      (<http://www.gtk.org/>)  
gnomevfs      gnome-vfs      (<ftp.gnome.org/pub/GNOME/stable/sources/gnome-vfs/>)  
gst\_arts      aRts      (<http://arts-project.org/>)  
gst1394      libraw1394      (<http://www.linux1394.org/>)  
gstaf      libaudiofile      (<http://www.68k.org/~michael/audiofile/>)  
gstsf      libsndfile      (<http://www.mega-nerd.com/libsndfile/>)  
hermescolorspace      Hermes      (<http://www.clanlib.org/hermes/>)  
kio      KDE      (<http://www.kde.org/>)  
ladspa      (<http://www.ladspa.org/>)  
lame      libmp3lame      (<http://lame.sourceforge.net/>)  
libvisual      libvisual      (<http://libvisual.sourceforge.net/>)  
matroska      (<http://www.matroska.org/>)  
mikmod      libmikmod      (<http://mikmod.raphnet.net/>)  
ossaudio      (<http://www.opensound.com/>)  
qcamsrc  
rfbenc      librfb  
sdlvideosink      libsdl      (<http://www.libsdl.org/>)  
shout2send      libshout2      (<http://www.icecast.org/>)  
smoothwave  
swfdec      (<http://swfdec.sourceforge.net/>)  
tarkin      (<http://svn.xiph.org/trunk/tarkin/>)  
textoverlay      pango      (<http://www.pango.org/>)  
dirac      (<http://www.bbc.co.uk/rd/projects/dirac/>)  
effectv (Our ports was relicensed)(<http://effectv.sourceforge.net/>)  
musepack      (<http://www.musepack.net/>)

Plugins which use a BSD covered library are as follows:

ogg      libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)  
vorbis      libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)  
gsttheora      libtheora      (<http://www.theora.org/>)  
speex      (<http://www.speex.org/>)  
flac      libFLAC      (<http://flac.sourceforge.net/>)

Plugins based on libraries with other free licenses:

ximagesink libXv

xvimagesink libXv

- license: MIT X11 / X Consortium license

gsm libgsm

- license MIT license <http://kbs.cs.tu-berlin.de/~jutta/toast.html>

festival (<http://www.cstr.ed.ac.uk/projects/festival/>)

- license: <http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml>

jpeg (<http://www.ijg.org/>)

- license: IJG license

nas (<http://radscan.com/nas.html>)

- license: NAS license

snapshot libpng (<http://www.libpng.org/pub/png/>)

- license: PNG license

mngdec/mngenc libmng (<http://gjuyn.xs4all.nl/libmng>)

- license PNG license

Plugins using non-free libraries:

divxdec, divxenc (<http://www.divx.com/>)

osxaudio (<http://www.apple.com/macosx/>)

sunaudiosink (<http://www.sun.com/>)

Unsure:

faad libfaad (<http://www.audiocoding.com/>)

faad's license depends on its major version :

- for FAAD1 : it is LGPL

- for FAAD2 : it is GPL

look at these pages for more information on licenses :

<http://www.audiocoding.com/modules/wiki/?page=FAAD2>

<http://www.audiocoding.com/modules/wiki/?page=FAAC>

by default, GStreamer faad plugin would compile against FAAD2 if available.

it falls back to FAAD1 if not.

/\*

\* GStreamer

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```

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* Boston, MA 02111-1307, USA.
*/

/**
 * SECTION:element-audioamplify
 *
 * Amplifies an audio stream by a given factor and allows the selection of different clipping modes.
 * The difference between the clipping modes is best evaluated by testing.
 *
 * <refsect2>
 * <title>Example launch line</title>
 * [[
 * gst-launch audiotestsrc wave=saw ! audioamplify amplification=1.5 ! alsasink
 * gst-launch filesrc location="melo1.ogg" ! oggdemux ! vorbisdec ! audioconvert ! audioamplify amplification=1.5
 * method=wrap-negative ! alsasink
 * gst-launch audiotestsrc wave=saw ! audioconvert ! audioamplify amplification=1.5 method=wrap-positive !
 * audioconvert ! alsasink
 * ]]
 * </refsect2>
 */

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/audio/audio.h>
#include <gst/audio/gstaudiofilter.h>
#include <gst/controller/gstcontroller.h>

#include "audioamplify.h"

#define GST_CAT_DEFAULT gst_audio_amplify_debug
GST_DEBUG_CATEGORY_STATIC (GST_CAT_DEFAULT);

/* Filter signals and args */

```

```

enum
{
    /* FILL ME */
    LAST_SIGNAL
};

enum
{
    PROP_0,
    PROP_AMPLIFICATION,
    PROP_CLIPPING_METHOD
};

enum
{
    METHOD_CLIP = 0,
    METHOD_WRAP_NEGATIVE,
    METHOD_WRAP_POSITIVE,
    METHOD_NOCLIP,
    NUM_METHODS
};

#define GST_TYPE_AUDIO_AMPLIFY_CLIPPING_METHOD (gst_audio_amplify_clipping_method_get_type
())
static GType
gst_audio_amplify_clipping_method_get_type (void)
{
    static GType gtype = 0;

    if (gtype == 0) {
        static const GEnumValue values[] = {
            {METHOD_CLIP, "Normal clipping (default)", "clip"},
            {METHOD_WRAP_NEGATIVE,
             "Push overdriven values back from the opposite side",
             "wrap-negative"},
            {METHOD_WRAP_POSITIVE, "Push overdriven values back from the same side",
             "wrap-positive"},
            {METHOD_NOCLIP, "No clipping", "none"},
            {0, NULL, NULL}
        };
    };

    /* FIXME 0.11: rename to GstAudioAmplifyClippingMethod */
    gtype = g_enum_register_static ("GstAudioPanoramaClippingMethod", values);
}
return gtype;
}

#define ALLOWED_CAPS \

```

```

"audio/x-raw-int,"          \
" depth=(int)8,"          \
" width=(int)8,"          \
" endianness=(int)BYTE_ORDER,"      \
" signed=(bool)TRUE,"      \
" rate=(int)[1,MAX],"      \
" channels=(int)[1,MAX]; "      \
"audio/x-raw-int,"          \
" depth=(int)16,"         \
" width=(int)16,"         \
" endianness=(int)BYTE_ORDER,"      \
" signed=(bool)TRUE,"      \
" rate=(int)[1,MAX],"      \
" channels=(int)[1,MAX]; "      \
"audio/x-raw-int,"          \
" depth=(int)32,"         \
" width=(int)32,"         \
" endianness=(int)BYTE_ORDER,"      \
" signed=(bool)TRUE,"      \
" rate=(int)[1,MAX],"      \
" channels=(int)[1,MAX]; "      \
"audio/x-raw-float,"       \
" width=(int){ 32,64},"    \
" endianness=(int)BYTE_ORDER,"      \
" rate=(int)[1,MAX],"      \
" channels=(int)[1,MAX]"

```

```
#define DEBUG_INIT(bla) \
```

```
    GST_DEBUG_CATEGORY_INIT (gst_audio_amplify_debug, "audioamplify", 0, "audioamplify element");
```

```

GST_BOILERPLATE_FULL (GstAudioAmplify, gst_audio_amplify, GstAudioFilter,
    GST_TYPE_AUDIO_FILTER, DEBUG_INIT);

```

```

static gboolean gst_audio_amplify_set_process_function (GstAudioAmplify *
    filter, gint clipping, gint format, gint width);

```

```

static void gst_audio_amplify_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec);

```

```

static void gst_audio_amplify_get_property (GObject * object, guint prop_id,
    GValue * value, GParamSpec * pspec);

```

```

static gboolean gst_audio_amplify_setup (GstAudioFilter * filter,
    GstRingBufferSpec * format);

```

```

static GstFlowReturn gst_audio_amplify_transform_ip (GstBaseTransform * base,
    GstBuffer * buf);

```

```
#define MIN_gint8 G_MININT8
```

```
#define MAX_gint8 G_MAXINT8
```

```
#define MIN_gint16 G_MININT16
```

```

#define MAX_gint16 G_MAXINT16
#define MIN_gint32 G_MININT32
#define MAX_gint32 G_MAXINT32

#define MAKE_INT_FUNCS(type, targettype) \
static void \
gst_audio_amplify_transform_##type##_clip (GstAudioAmplify * filter, \
void * data, guint num_samples) \
{ \
type *d = data; \
\
while (num_samples--) { \
targettype val = *d * filter->amplification; \
*d++ = CLAMP (val, MIN_##type, MAX_##type); \
} \
} \
static void \
gst_audio_amplify_transform_##type##_wrap_negative (GstAudioAmplify * filter, \
void * data, guint num_samples) \
{ \
type *d = data; \
\
while (num_samples--) { \
targettype val = *d * filter->amplification; \
if (val > MAX_##type) \
val = MIN_##type + (val - MIN_##type) % ((targettype) MAX_##type + 1 - \
MIN_##type); \
else if (val < MIN_##type) \
val = MAX_##type - (MAX_##type - val) % ((targettype) MAX_##type + 1 - \
MIN_##type); \
*d++ = val; \
} \
} \
static void \
gst_audio_amplify_transform_##type##_wrap_positive (GstAudioAmplify * filter, \
void * data, guint num_samples) \
{ \
type *d = data; \
\
while (num_samples--) { \
targettype val = *d * filter->amplification; \
do { \
if (val > MAX_##type) \
val = MAX_##type - (val - MAX_##type); \
else if (val < MIN_##type) \
val = MIN_##type + (MIN_##type - val); \
else \
break; \
} \
} \
}

```

```

    } while (1);
    *d++ = val;
}
}
static void
gst_audio_amplify_transform_##type##_noclip (GstAudioAmplify * filter, \
    void * data, guint num_samples)
{
    type *d = data;

    while (num_samples--)
        *d++ *= filter->amplification;
}

#define MAKE_FLOAT_FUNCS(type)
static void
gst_audio_amplify_transform_##type##_clip (GstAudioAmplify * filter, \
    void * data, guint num_samples)
{
    type *d = data;

    while (num_samples--) {
        type val = *d* filter->amplification;
        *d++ = CLAMP (val, -1.0, +1.0);
    }
}
static void
gst_audio_amplify_transform_##type##_wrap_negative (GstAudioAmplify * \
    filter, void * data, guint num_samples)
{
    type *d = data;

    while (num_samples--) {
        type val = *d * filter->amplification;
        do {
            if (val > 1.0)
                val = -1.0 + (val - 1.0);
            else if (val < -1.0)
                val = 1.0 - (1.0 - val);
            else
                break;
        } while (1);
        *d++ = val;
    }
}
static void
gst_audio_amplify_transform_##type##_wrap_positive (GstAudioAmplify * filter, \
    void * data, guint num_samples)

```



```

{
    type *d = data;

    while (num_samples--) {
        type val = *d* filter->amplification;
        do {
            if (val > 1.0)
                val = 1.0 - (val - 1.0);
            else if (val < -1.0)
                val = -1.0 + (-1.0 - val);
            else
                break;
        } while (1);
        *d++ = val;
    }
}

static void
gst_audio_amplify_transform_###type##_noclip (GstAudioAmplify * filter,
    void * data, guint num_samples)
{
    type *d = data;

    while (num_samples--)
        *d++ *= filter->amplification;
}

/* *INDENT-OFF* */
MAKE_INT_FUNCS (gint8,gint)
MAKE_INT_FUNCS (gint16,gint)
MAKE_INT_FUNCS (gint32,gint64)
MAKE_FLOAT_FUNCS (gfloat)
MAKE_FLOAT_FUNCS (gdouble)
/* *INDENT-ON* */

/* GObject vmethod implementations */

static void
gst_audio_amplify_base_init (gpointer klass)
{
    GstElementClass *element_class = GST_ELEMENT_CLASS (klass);
    GstCaps *caps;

    gst_element_class_set_details_simple (element_class, "Audio amplifier",
        "Filter/Effect/Audio",
        "Amplifies an audio stream by a given factor",
        "Sebastian Drge <slomo@circular-chaos.org>");

    caps = gst_caps_from_string (ALLOWED_CAPS);
}

```

```

gst_audio_filter_class_add_pad_templates (GST_AUDIO_FILTER_CLASS (klass),
    caps);
gst_caps_unref (caps);
}

static void
gst_audio_amplify_class_init (GstAudioAmplifyClass * klass)
{
    GObjectClass *gobject_class;

    gobject_class = (GObjectClass *) klass;
    gobject_class->set_property = gst_audio_amplify_set_property;
    gobject_class->get_property = gst_audio_amplify_get_property;

    g_object_class_install_property (gobject_class, PROP_AMPLIFICATION,
        g_param_spec_float ("amplification", "Amplification",
            "Factor of amplification", -G_MAXFLOAT, G_MAXFLOAT,
            1.0,
            G_PARAM_READWRITE | GST_PARAM_CONTROLLABLE | G_PARAM_STATIC_STRINGS));

    /**
     * GstAudioAmplify:clipping-method
     *
     * Clipping method: clip mode set values higher than the maximum to the
     * maximum. The wrap-negative mode pushes those values back from the
     * opposite side, wrap-positive pushes them back from the same side.
     */
    g_object_class_install_property (gobject_class, PROP_CLIPPING_METHOD,
        g_param_spec_enum ("clipping-method", "Clipping method",
            "Selects how to handle values higher than the maximum",
            GST_TYPE_AUDIO_AMPLIFY_CLIPPING_METHOD, METHOD_CLIP,
            G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS));

    GST_AUDIO_FILTER_CLASS (klass)->setup =
        GST_DEBUG_FUNCPTR (gst_audio_amplify_setup);
    GST_BASE_TRANSFORM_CLASS (klass)->transform_ip =
        GST_DEBUG_FUNCPTR (gst_audio_amplify_transform_ip);
}

static void
gst_audio_amplify_init (GstAudioAmplify * filter, GstAudioAmplifyClass * klass)
{
    filter->amplification = 1.0;
    gst_audio_amplify_set_process_function (filter, METHOD_CLIP,
        GST_BUFTYPE_LINEAR, 16);
    gst_base_transform_set_in_place (GST_BASE_TRANSFORM (filter), TRUE);
    gst_base_transform_set_gap_aware (GST_BASE_TRANSFORM (filter), TRUE);
}

```

```

}

static GstAudioAmplifyProcessFunc
gst_audio_amplify_process_function (gint clipping, gint format, gint width)
{
    static const struct process
    {
        gint format;
        gint width;
        gint clipping;
        GstAudioAmplifyProcessFunc func;
    } process[] = {
        {
            GST_BUFTYPE_FLOAT, 32, METHOD_CLIP,
            gst_audio_amplify_transform_gfloat_clip}, {
            GST_BUFTYPE_FLOAT, 32, METHOD_WRAP_NEGATIVE,
            gst_audio_amplify_transform_gfloat_wrap_negative}, {
            GST_BUFTYPE_FLOAT, 32, METHOD_WRAP_POSITIVE,
            gst_audio_amplify_transform_gfloat_wrap_positive}, {
            GST_BUFTYPE_FLOAT, 32, METHOD_NOCLIP,
            gst_audio_amplify_transform_gfloat_noclip}, {
            GST_BUFTYPE_FLOAT, 64, METHOD_CLIP,
            gst_audio_amplify_transform_gdouble_clip}, {
            GST_BUFTYPE_FLOAT, 64, METHOD_WRAP_NEGATIVE,
            gst_audio_amplify_transform_gdouble_wrap_negative}, {
            GST_BUFTYPE_FLOAT, 64, METHOD_WRAP_POSITIVE,
            gst_audio_amplify_transform_gdouble_wrap_positive}, {
            GST_BUFTYPE_FLOAT, 64, METHOD_NOCLIP,
            gst_audio_amplify_transform_gdouble_noclip}, {
            GST_BUFTYPE_LINEAR, 8, METHOD_CLIP, gst_audio_amplify_transform_gint8_clip}, {
            GST_BUFTYPE_LINEAR, 8, METHOD_WRAP_NEGATIVE,
            gst_audio_amplify_transform_gint8_wrap_negative}, {
            GST_BUFTYPE_LINEAR, 8, METHOD_WRAP_POSITIVE,
            gst_audio_amplify_transform_gint8_wrap_positive}, {
            GST_BUFTYPE_LINEAR, 8, METHOD_NOCLIP,
            gst_audio_amplify_transform_gint8_noclip}, {
            GST_BUFTYPE_LINEAR, 16, METHOD_CLIP,
            gst_audio_amplify_transform_gint16_clip}, {
            GST_BUFTYPE_LINEAR, 16, METHOD_WRAP_NEGATIVE,
            gst_audio_amplify_transform_gint16_wrap_negative}, {
            GST_BUFTYPE_LINEAR, 16, METHOD_WRAP_POSITIVE,
            gst_audio_amplify_transform_gint16_wrap_positive}, {
            GST_BUFTYPE_LINEAR, 16, METHOD_NOCLIP,
            gst_audio_amplify_transform_gint16_noclip}, {
            GST_BUFTYPE_LINEAR, 32, METHOD_CLIP,
            gst_audio_amplify_transform_gint32_clip}, {
            GST_BUFTYPE_LINEAR, 32, METHOD_WRAP_NEGATIVE,
            gst_audio_amplify_transform_gint32_wrap_negative}, {

```

```

GST_BUFTYPE_LINEAR, 32, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gint32_wrap_positive}, {
GST_BUFTYPE_LINEAR, 32, METHOD_NOCLIP,
    gst_audio_amplify_transform_gint32_noclip}, {
    0, 0, 0, NULL}
};
const struct process *p;

for (p = process; p->func; p++)
    if (p->format == format && p->width == width && p->clipping == clipping)
        return p->func;
return NULL;
}

static gboolean
gst_audio_amplify_set_process_function (GstAudioAmplify * filter, gint
    clipping_method, gint format, gint width)
{
    GstAudioAmplifyProcessFunc process;

    /* set processing function */

    process = gst_audio_amplify_process_function (clipping_method, format, width);
    if (!process) {
        GST_DEBUG ("wrong format");
        return FALSE;
    }

    filter->process = process;
    filter->clipping_method = clipping_method;
    filter->format = format;
    filter->width = width;

    return TRUE;
}

static void
gst_audio_amplify_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec)
{
    GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (object);

    switch (prop_id) {
        case PROP_AMPLIFICATION:
            filter->amplification = g_value_get_float (value);
            gst_base_transform_set_passthrough (GST_BASE_TRANSFORM (filter),
                filter->amplification == 1.0);
            break;
    }
}

```

```

case PROP_CLIPPING_METHOD:
    gst_audio_amplify_set_process_function (filter, g_value_get_enum (value),
        filter->format, filter->width);
    break;
default:
    G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
    break;
}
}

static void
gst_audio_amplify_get_property (GObject * object, guint prop_id,
    GValue * value, GParamSpec * pspec)
{
    GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (object);

    switch (prop_id) {
    case PROP_AMPLIFICATION:
        g_value_set_float (value, filter->amplification);
        break;
    case PROP_CLIPPING_METHOD:
        g_value_set_enum (value, filter->clipping_method);
        break;
    default:
        G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
        break;
    }
}

/* GstAudioFilter vmethod implementations */
static gboolean
gst_audio_amplify_setup (GstAudioFilter * base, GstRingBufferSpec * format)
{
    GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (base);

    return gst_audio_amplify_set_process_function (filter,
        filter->clipping_method, format->type, format->width);
}

/* GstBaseTransform vmethod implementations */
static GstFlowReturn
gst_audio_amplify_transform_ip (GstBaseTransform * base, GstBuffer * buf)
{
    GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (base);
    guint num_samples;
    GstClockTime timestamp, stream_time;

    timestamp = GST_BUFFER_TIMESTAMP (buf);

```

```

stream_time =
    gst_segment_to_stream_time (&base->segment, GST_FORMAT_TIME, timestamp);

GST_DEBUG_OBJECT (filter, "sync to %" GST_TIME_FORMAT,
    GST_TIME_ARGS (timestamp));

if (GST_CLOCK_TIME_IS_VALID (stream_time))
    gst_object_sync_values (G_OBJECT (filter), stream_time);

num_samples =
    GST_BUFFER_SIZE (buf) / (GST_AUDIO_FILTER (filter)->format.width / 8);

if (gst_base_transform_is_passthrough (base) ||
    G_UNLIKELY (GST_BUFFER_FLAG_IS_SET (buf, GST_BUFFER_FLAG_GAP)))
    return GST_FLOW_OK;

filter->process (filter, GST_BUFFER_DATA (buf), num_samples);

return GST_FLOW_OK;
}
/*
 * GStreamer
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 * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
 * Boston, MA 02111-1307, USA.
 */

#ifdef __GST_AUDIO_AMPLIFY_H__
#define __GST_AUDIO_AMPLIFY_H__

#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/audio/audio.h>
#include <gst/audio/gstaudiofilter.h>

```

```

G_BEGIN_DECLS
#define GST_TYPE_AUDIO_AMPLIFY      (gst_audio_amplify_get_type())
#define GST_AUDIO_AMPLIFY(obj)
(G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplify))
#define GST_IS_AUDIO_AMPLIFY(obj)
(G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_AUDIO_AMPLIFY))
#define GST_AUDIO_AMPLIFY_CLASS(klass) (G_TYPE_CHECK_CLASS_CAST((klass)
,GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplifyClass))
#define GST_IS_AUDIO_AMPLIFY_CLASS(klass) (G_TYPE_CHECK_CLASS_TYPE((klass)
,GST_TYPE_AUDIO_AMPLIFY))
#define GST_AUDIO_AMPLIFY_GET_CLASS(obj) (G_TYPE_INSTANCE_GET_CLASS((obj)
,GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplifyClass))
typedef struct _GstAudioAmplify GstAudioAmplify;
typedef struct _GstAudioAmplifyClass GstAudioAmplifyClass;

typedef void (*GstAudioAmplifyProcessFunc) (GstAudioAmplify *, void *, guint);

struct _GstAudioAmplify
{
    GstAudioFilter audiofilter;

    gfloat amplification;

    /* < private > */
    GstAudioAmplifyProcessFunc process;
    gint clipping_method;
    gint format;
    gint width;
};

struct _GstAudioAmplifyClass
{
    GstAudioFilterClass parent;
};

GType gst_audio_amplify_get_type (void);

G_END_DECLS
#endif /* __GST_AUDIO_AMPLIFY_H__ */

```

## 1.116 gzip 1.3.12 :22.e16

## 1.116.1 Available under license :

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## 1.124 incron 0.5.9 :2009-06-21

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```
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```
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```

```
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```

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## 1.137 jackson-mapper-asl 1.9.2

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/\* Jackson JSON-processor.

\*

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Version 3, 29 June 2007

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### 1.9.2

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== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found from:

<http://jackson.codehaus.org/>

which also has links to support forums such as mailing lists, as well as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

- \* Reading (parsing) and writing (generation) of Json content
- \* Data-binding (data-mapping, [de-]serialization) support to

allow for converting between Json and Java objects

\* Support for converting to/from other data formats and access APIs, to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made to support other non-standard platforms as well.

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## 1.147 JAXB API bundle for GlassFish V3 2.2.2

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```

*/
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import java.io.InputStream;
import java.util.Properties;

/**
 *
 * @author Paul.Sandoz@Sun.Com
 */
public final class BuildId {
    private static String buildId = _initiateBuildId();

    private static String _initiateBuildId() {
        String id = "Jersey";

        final InputStream in = getInputStream();
        if (in != null) {
            try {
                Properties p = new Properties();
                p.load(in);
                String _id = p.getProperty("Build-Id");
                if (_id != null)
                    id = id + ": " + _id;
            } catch (Exception e){
                // Ignore
            } finally {
                close(in);
            }
        }
        return id;
    }

    private static void close(InputStream in) {
        try {
            in.close();
        } catch (Exception ex) {
            // Ignore
        }
    }

    private static InputStream getInputStream() {
        try {
            return BuildId.class.getResourceAsStream("build.properties");
        } catch (Exception ex) {
            return null;
        }
    }
}

```

```
public static final String getBuildId() {
    return buildId;
}
}
```

## 1.154 jersey-client 1.16

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```

```
*/
```

```
package com.sun.jersey.client.impl;
```

```
import com.sun.jersey.api.client.ClientRequest;
import com.sun.jersey.api.client.ClientRequestAdapter;
import com.sun.jersey.core.header.OutBoundHeaders;
```

```
import javax.ws.rs.core.MultivaluedMap;
import java.io.IOException;
import java.io.OutputStream;
import java.net.URI;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
```

```
public final class ClientRequestImpl extends ClientRequest implements ClientRequestAdapter {
    private Map<String, Object> properties;
```

```
    private URI uri;
```

```
    private String method;
```

```
    private Object entity;
```

```
    private final MultivaluedMap<String, Object> metadata;
```

```
    private ClientRequestAdapter adapter;
```

```
    public ClientRequestImpl(URI uri, String method) {
        this(uri, method, null, null);
    }
```

```
    public ClientRequestImpl(URI uri, String method, Object entity) {
        this(uri, method, entity, null);
    }
```

```
    public ClientRequestImpl(URI uri, String method,
        Object entity, MultivaluedMap<String, Object> metadata) {
        this.uri = uri;
        this.method = method;
        this.entity = entity;
        this.metadata = (metadata != null) ? metadata : new OutBoundHeaders();
        this.adapter = this;
```

```

}

public Map<String, Object> getProperties() {
    if (properties == null)
        properties = new HashMap<String, Object>();

    return properties;
}

public void setProperties(Map<String, Object> properties) {
    this.properties = properties;
}

public URI getURI() {
    return uri;
}

public void setURI(URI uri) {
    this.uri = uri;
}

public String getMethod() {
    return method;
}

public void setMethod(String method) {
    this.method = method;
}

public Object getEntity() {
    return entity;
}

public void setEntity(Object entity) {
    this.entity = entity;
}

public MultivaluedMap<String, Object> getMetadata() {
    return getHeaders();
}

public MultivaluedMap<String, Object> getHeaders() {
    return metadata;
}

public ClientRequestAdapter getAdapter() {
    return adapter;
}

```

```

public void setAdapter(ClientRequestAdapter adapter) {
    this.adapter = (adapter != null) ? adapter : this;
}

@Override
public ClientRequest clone() {
    return new ClientRequestImpl(this.uri, this.method,
        this.entity, clone(this.metadata));
}

private static MultivaluedMap<String, Object> clone(MultivaluedMap<String, Object> md) {
    MultivaluedMap<String, Object> clone = new OutBoundHeaders();
    for (Map.Entry<String, List<Object>> e : md.entrySet()) {
        clone.put(e.getKey(), new ArrayList<Object>(e.getValue()));
    }
    return clone;
}

// ClientRequestAdapter

public OutputStream adapt(ClientRequest request, OutputStream out) throws IOException {
    return out;
}
}

```

## 1.155 jersey-core 1.16

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 \*/

```
package com.sun.jersey.api.provider.jaxb;
```

```
import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
```

```
/** Allows to specify XML header for XML output produced by a resource method
 * it is attached to.
 * <p>
 * Example usage:
 * <pre>
 * &#64;GET
 * &#64;Produces("application/xml")
 * &#64;XmlHeader("&lt;?xml-stylestheet type='text/xml' href='foobar.xml' ?&gt;")
 * public JaxbBean get() {
 *     ...
 * }
 * </pre>
 *
 * @author Martin Matula
```

```

*/
@Target(ElementType.METHOD)
@Retention(RetentionPolicy.RUNTIME)
public @interface XmlHeader {
    String value();
}

```

# 1.156 jersey-json 1.16

## 1.156.1 Available under license :

```

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```

package com.sun.jersey.server.impl.cdi;

import java.lang.annotation.Annotation;
import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashSet;
import java.util.Set;
import javax.enterprise.context.Dependent;
import javax.enterprise.context.spi.CreationalContext;
import javax.enterprise.inject.spi.Bean;
import javax.enterprise.inject.spi.InjectionPoint;

/**
 * Base class implementing the CDI Bean interface.
 *
 * Subclasses must implement the create method.
 *
 * Currently, AbstractBean only supports a single qualifier and a single bean type,
 * although it could easily be extended to support more.
 *
 * @author robc
 */
public abstract class AbstractBean<T> implements Bean<T> {

    private Class<?> klass;
    private Set<Annotation> qualifiers;
    private Set<Type> types;

    public AbstractBean(Class<?> klass, Annotation qualifier) {
        this(klass, klass, qualifier);
    }

    public AbstractBean(Class<?> klass, Set<Annotation> qualifiers) {
        this(klass, klass, qualifiers);
    }

    public AbstractBean(Class<?> klass, Type type, Annotation qualifier) {
        this.klass = klass;

        qualifiers = new HashSet<Annotation>();
        qualifiers.add(qualifier);
        types = new HashSet<Type>();
        types.add(type);
    }

    public AbstractBean(Class<?> klass, Type type, Set<Annotation> qualifiers) {
        this.klass = klass;

```

```

    this.qualifiers = qualifiers;
    types = new HashSet<Type>();
    types.add(type);
}

public Class<?> getBeanClass() {
    return klass;
}

public Set<InjectionPoint> getInjectionPoints() {
    return (Set<InjectionPoint>)Collections.EMPTY_SET;
}

public String getName() {
    return null;
}

public Set<Annotation> getQualifiers() {
    return qualifiers;
}

public Class<? extends Annotation> getScope() {
    return Dependent.class;
}

public Set<Class<? extends Annotation>> getStereotypes() {
    return (Set<Class<? extends Annotation>>)Collections.EMPTY_SET;
}

public Set<Type> getTypes() {
    return types;
}

public boolean isAlternative() {
    return false;
}

public boolean isNullable() {
    return false;
}

public abstract T create(CreationalContext<T> creationalContext);

public void destroy(T instance, CreationalContext<T> creationalContext) {
    // no-op
}
}

```

# 1.159 jettison 1.1

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Version 2.0, January 2004

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single nxt200x frontend driver.

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/\* 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.iovcnt != 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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\*/

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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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```
#!/usr/bin/python
#
# check-kabi - Red Hat kABI reference checking tool
#
# We use this script to check against reference Module.kabi files.
#
# Author: Jon Masters <jcm@redhat.com>
# Copyright (C) 2007-2009 Red Hat, Inc.
#
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/*
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*
```

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\*/

# 1.168 kernel-firmware 2.6.32 :573.12.1.el6

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/\* 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.iovcnt != 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 the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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```
/* 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.iovcnt != 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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```
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```

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(If you think you should be in this list, but you are not, drop a  
line to the DVB mailing list)

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ConferenceTV card

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/\* 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.iovcnt != 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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```
/* 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.iovcnt != 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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*
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- \* along with this program; if not, write to the Free Software
- \* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
- \*
- \* M. Welsh, 6 July 1996
- \*
- \*
- \*/

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 QLogic Linux qlcnic NIC Driver

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for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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/\* 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.iovcnt != 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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Linus Torvalds

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for his work on the initial Linux DVB driver

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Diego Picciani <d.picciani@novacompt.it>  
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.)

Martin Schaller <martin@smurf.franken.de>  
for patching the cable card decoder driver

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for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

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/\* 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.iovcnt != 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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/\* 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.iovcnt != 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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```
/* 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.iovcnt != 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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*/

```

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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.

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for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a

single nxt200x frontend driver.

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```
/* 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.iovcnt != 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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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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/\* 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.iovcnt != 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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## 1.171 kernel-firmware\_selftests-mqueue

### 2.6.32 :358.2.1.el6

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```

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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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# 1.174 kpartx 0.4.9 :87.el6

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## 1.175 krb5 1.10.3 :57.el6

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```
cmd/krb5/ipropl/ipropl.x
cmd/krb5/ipropl/ipropl_hdr.h
cmd/krb5/kadmin/server/ipropl_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  
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lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
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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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```
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in ``src/lib/gssapi'`, including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
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  
lib/gssapi/mechglue/g\_glue.c

lib/gssapi/mechglue/g\_imp\_name.c  
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

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprof\_hdr.h  
kadmin/server/iprofd\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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```

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<signature of Ty Coon>, 1 April 1990  
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That's all there is to it!

## 1.181 libcom\_err 1.41.12 :22.el6

### 1.181.1 Available under license :

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Gadi Oxman, August 1995

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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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```
#!/bin/sh
```

```
find . -type f ! -name \*~ ! -exec grep -q Begin-Header \{\} \; -print \  
| grep -v ^./build
```

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/

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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library 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/](http://tsx-11.mit.edu/pub/linux/packages/ext2fs/)

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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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Theodore Ts'o  
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) $(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)

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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# 1.182 libcurl 7.19.7 :46.el6

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## 1.183 libcurl 7.19.7 :52.e16

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=====

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## 1.184 libdrm 2.4.65 :2.el6

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## 1.185 libedit 2.11 :4.20080712cvs.1.el6

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#
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# If it is invalid, we print an error message on stderr and exit with code 1.
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*/
```

# 1.186 libffi 3.0.5 :3.2.el6

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## 1.189 libgcc 4.4.7 :17.el6

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Version 3.1, 31 March 2009

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@center Version 2.1, February 1999

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@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo
```

```
@page
@appendixsubsec How to Apply These Terms to Your New Libraries
```



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```

```
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@end smallexample
```

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

```
@c man end
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
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```
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
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@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{year} @var{name of author}

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@end smallexample

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```
@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
@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{} 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
```

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@c man end

@end ignore

@node Copying

@c man begin DESCRIPTION

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@center Version 2, June 1991

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@iftex

@unnumberedsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

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@enumerate 0

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```
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@end iftex
@ifnottex
@center NO WARRANTY
@end ifnottex
```

```
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```

```
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POSSIBILITY OF SUCH DAMAGES.
@end enumerate
```

```
@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifnottex
@center END OF TERMS AND CONDITIONS
@end ifnottex
```

```
@page
@unnumberedsec Appendix: How to Apply These Terms to Your New Programs
```

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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.

```
@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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@end smallexample

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:

```
@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{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.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{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:

```
@example
```

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
```

```
Ty Coon, President of Vice
```

```
@end example
```

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```
@c man end
```

```
libffi - Copyright (c) 1996-2003 Red Hat, Inc.
```

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dossier provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.  
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.  
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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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 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

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<one line to give the library's name and a brief idea of what it does.>  
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school, if any, to sign a "copyright disclaimer" for the library, if  
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@c Set file name and title for man page.  
@setfilename gpl  
@settitle GNU General Public License  
@c man begin SEEALSO  
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@c man begin COPYRIGHT  
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@enumerate 0

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An interactive user interface displays ``Appropriate Legal Notices" to

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@item

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@item

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.

@item

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to



satisfy these requirements.

@item

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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@smallexample

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```
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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
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```

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```
@c man end
@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
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@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU GENERAL PUBLIC LICENSE
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@unnumberedsec 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; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. 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.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we

want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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@iftex
@unnumberedsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifnottex
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifnottex
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@item
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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

```
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You may copy and distribute verbatim copies of the Program's 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 give any other recipients of the Program a copy of this License along with the Program.

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You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

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You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

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If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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 Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) 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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You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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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; or,

@item

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

@end enumerate

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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@center NO WARRANTY  
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@ifnottex  
@center END OF TERMS AND CONDITIONS  
@end ifnottex

@page  
@unnumberedsec Appendix: How to Apply These Terms to Your New Programs

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.

@smallexample



@var{one line to give the program's name and a brief idea of what it does.}  
Copyright (C) @var{year} @var{name of author}

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA  
@end smallexample

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:

```
@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{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.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{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:

```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

@c man end

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any

format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

#### 1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

#### 2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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[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.]

@end display

@appendixsubsec Preamble

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When we speak of free software, we are referring to freedom of use, 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 and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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 @dfn{Lesser} General Public License because it does @emph{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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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@center GNU LESSER GENERAL PUBLIC LICENSE

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@end ifinfo

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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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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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The modified work must itself be a software library.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

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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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.)

@end enumerate

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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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.

@item

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.

@item

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.

@item

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:

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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.)

@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 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.

@item

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.

@item

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.

@item

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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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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That's all there is to it!

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation

and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

## GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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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 @dfn{Lesser} General Public License because it does @emph{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.

@iftex  
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION  
@end iftex  
@ifinfo  
@center GNU LESSER GENERAL PUBLIC LICENSE  
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION  
@end ifinfo

@enumerate 0

@item

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.

@item

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.

@item

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:

@enumerate a

@item

The modified work must itself be a software library.

@item

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item

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.)

@end enumerate

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.

@item

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.

@item

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.

@item

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.

@item

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:

@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 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.)

@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 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.

@item

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.

@item

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.

@item

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

@end enumerate

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.

@item

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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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.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

@item

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It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

@item

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@item

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Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and ``any later version'', you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

@item

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@ifinfo

@center NO WARRANTY

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@item

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FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

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@heading END OF TERMS AND CONDITIONS

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@center END OF TERMS AND CONDITIONS

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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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.

@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}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

@end smallexample

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:

```
@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
```

That's all there is to it!

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Version 2.1, February 1999

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[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.]

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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.

When we speak of free software, we are referring to freedom of use, 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 and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid

distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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.

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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".

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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 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:

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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 installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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@enumerate 0

@item Definitions.

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@item

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

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@item

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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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```

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```
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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
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@end smallexample
```

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@c man end

@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).

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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

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@smallexample

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type `show w'.

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@end smallexample

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@example

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@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

@end example

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@c man end

## 1.191 libgcrypt 1.4.5 :11.el6\_4

### 1.191.1 Available under license :

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Version 2, June 1991

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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 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.

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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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# 1.192 libgpg-error 1.7 :4.el6

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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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## 1.193 libICE 1.0.6 :1.el6

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## 1.194 libicu 4.2.1 :12.el6

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```

## *-makefile*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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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 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} $@

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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 each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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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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

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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:

- 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.

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) 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.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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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.>  
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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:

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

# 1.196 libidn 1.18 :2.e16

## 1.196.1 Available under license :

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Version 3, 29 June 2007

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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.

Developers that use the GNU GPL protect your rights with two steps:

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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

### 0. 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.

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

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#### 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

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#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source



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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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\*/

# 1.198 libjpeg-turbo 1.2.1 :3.el6\_5

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```

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**  License
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## The Independent JPEG Group's JPEG software

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IJG is not affiliated with the official ISO JPEG standards committee.

## DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW        General description of JPEG and the IJG software.  
LEGAL ISSUES    Copyright, lack of warranty, terms of distribution.  
REFERENCES     Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO          Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt    How to configure and install the IJG software.  
usage.txt     Usage instructions for cjpeg, djpeg, jpegtran,  
              rdjpgcom, and wrjpgcom.  
\*.1            Unix-style man pages for programs (same info as usage.txt).  
wizard.txt    Advanced usage instructions for JPEG wizards only.  
change.log    Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt   How to use the JPEG library in your own programs.  
example.c     Sample code for calling the JPEG library.  
structure.txt Overview of the JPEG library's internal structure.  
filelist.txt   Road map of IJG files.  
coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or

more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

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This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the

REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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## REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from <http://www.ecma-international.org/publications/techreports/E-TR-098.htm>. A PostScript version of the JFIF document is available at <http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at <http://www.ijg.org/files/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from

<http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org). The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsr.v8d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu](http://rtfm.mit.edu): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

## FILE FORMAT WARS

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The ISO JPEG standards committee actually promotes different formats like "JPEG 2000" or "JPEG XR", which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

## TO DO

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Please send bug reports, offers of help, etc. to [jpeg-info@jpegclub.org](mailto:jpeg-info@jpegclub.org).

# 1.199 libnih 1.0.1 :7.e16

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Version 2, June 1991

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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.)

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) 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.

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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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## 1.208 libSM 1.2.1 :2.e16

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## 1.209 libsndfile 1.0.20 :5.e16

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```
#!/bin/sh
```

```
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| grep -v ^./build
```

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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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Theodore Ts'o  
23-June-2007

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```
<one line to give the library's name and a brief idea of what it does.>  
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```

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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!

```
#  
# 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) $(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)
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
- 
- Copyright (C) Andrew Tridgell            2005
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- + Copyright (C) Jeremy Allison            2000-2006
- + Copyright (C) Paul 'Rusty' Russell       2000

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## 1.211 libssh2 1.4.2 :2.el6\_7.1

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- \*/

## 1.212 libstdc++ 4.4.7 :17.el6

### 1.212.1 Available under license :

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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@appendixsubsec Preamble

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```

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@end enumerate

@iftex

@heading END OF TERMS AND CONDITIONS

@end iftex

```
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo
```

```
@page
@appendixsubsec How to Apply These Terms to Your New Libraries
```

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```

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@end smallexample
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@var{signature of Ty Coon}, 1 April 1990

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@ignore

@c Set file name and title for man page.

@setfilename gfdl

@settitle GNU Free Documentation License

@c man begin SEEALSO

gpl(7), fsf-funding(7).

@c man end

@c man begin COPYRIGHT

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@c man end

@end ignore

@c Special handling for inclusion in the install manual.

@ifset gfdlhtml

@ifnohtml

@comment node-name, next, previous, up

@node GNU Free Documentation License, Concept Index, Old, Top

@end ifnohtml

```
@html
<h1 align="center">Installing GCC: GNU Free Documentation License</h1>
@end html
@ifnohtml
@unnumbered GNU Free Documentation License
@end ifnohtml
@end ifset
@c man begin DESCRIPTION
@ifclear gfdlhtml
@node GNU Free Documentation License
@unnumbered GNU Free Documentation License
@end ifclear
```

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@cindex FDL, GNU Free Documentation License
@center Version 1.2, November 2002
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@display
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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

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```
@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
@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

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@end smallexample

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

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@end smallexample

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@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

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@c man end

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.  
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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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.

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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 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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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.

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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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(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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- 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

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```
@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.
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```
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
```

```
@c This file is intended to be included in another file.
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@display
Copyright @copyright{ } 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
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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 state the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{year} @var{name of author}

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see [@url{http://www.gnu.org/licenses/}](http://www.gnu.org/licenses/).  
@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
```

The hypothetical commands `@samp{show w}` and `@samp{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".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see [@url{http://www.gnu.org/licenses/}](http://www.gnu.org/licenses/).

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read [@url{http://www.gnu.org/philosophy/why-not-lgpl.html}](http://www.gnu.org/philosophy/why-not-lgpl.html).

```
@c man end
@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{} 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
```

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  
@unnumbered GNU GENERAL PUBLIC LICENSE  
@center Version 2, June 1991

@c This file is intended to be included in another file.

@display  
Copyright @copyright{ } 1989, 1991 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

@end display

@unnumberedsec Preamble

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We protect your rights with two steps: (1) copyright the software, and

(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

```
@iftex
@unnumberedsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifnottex
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifnottex
```

```
@enumerate 0
@item
```

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

```
@item
You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
```



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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.

@item

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@enumerate a

@item

You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

@item

You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

@item

If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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 Program.

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

@item

You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

@enumerate a

@item

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; or,

@item

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

@item

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

@end enumerate

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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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@item

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@item

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make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

@iftex  
@heading NO WARRANTY  
@end iftex  
@ifnottex  
@center NO WARRANTY  
@end ifnottex

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@end enumerate

@iftex  
@heading END OF TERMS AND CONDITIONS  
@end iftex  
@ifnottex  
@center END OF TERMS AND CONDITIONS  
@end ifnottex

@page  
@unnumberedsec Appendix: How to Apply These Terms to Your New Programs

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.

```
@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA  
@end smallexample

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:

```
@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{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.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{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:

```
@example
```

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989  
Ty Coon, President of Vice  
@end example

This General Public License does not permit incorporating your program into  
proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
library. If this is what you want to do, use the GNU Library General  
Public License instead of this License.

@c man end

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional  
permission under section 7 of the GNU General Public License, version  
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that  
bears a notice placed by the copyright holder of the file stating that  
the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of  
certain GCC header files and runtime libraries with the compiled  
program. The purpose of this Exception is to allow compilation of  
non-GPL (including proprietary) programs to use, in this way, the  
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime  
Library for execution after a Compilation Process, or makes use of an  
interface provided by the Runtime Library, but is not otherwise based  
on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without  
modifications, governed by version 3 (or a specified later version) of  
the GNU General Public License (GPL) with the option of using any  
subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,  
modification and use would permit combination with GCC in accord with

the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

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#### 2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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[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.]

@end display

@appendixsubsec Preamble

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When we speak of free software, we are referring to freedom of use, 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 and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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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.

@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end ifinfo

@enumerate 0

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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.

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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.

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.

@item

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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.

@item

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@enumerate a

@item

The modified work must itself be a software library.

@item

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item

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.)

@end enumerate

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.

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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.

@item

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.

@item

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.

@item

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:

@enumerate a

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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.)

@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 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.

@item

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.

@item

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.

@item

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

@end enumerate

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.

@item

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:

@enumerate a

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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.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end smallexample

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:

@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

That's all there is to it!

## 1.213 libtasn1 2.3 :6.el6\_5

### 1.213.1 Available under license :

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Version 3, 29 June 2007

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- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- 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.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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## 1.216 libudev 147 :2.73.el6\_8.2

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# Itmain.sh - Provide generalized library-building support services.

# NOTE: Changing this file will not affect anything until you rerun configure.



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/\* lib/font/fontfile/gunzip.c

written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

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# 1.231 libXrender 0.9.7 :Jan 2 2012 Emanuele

## Giaquinta

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## 1.232 libXtst 1.2.2 :2.1.el6

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## 1.233 Iksctp-tools 1.0.10 :7.e16

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```

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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) 19yy 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.

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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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```
#!/bin/sh
```

```
# py-compile - Compile a Python program
```

```
scriptversion=2005-05-14.22
```

```
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```

```
# This program is free software; you can redistribute it and/or modify  
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```
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```

```
# This file is maintained in Automake, please report  
# bugs to <bug-automake@gnu.org> or send patches to  
# <automake-patches@gnu.org>.
```

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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JAIN(TM) Session Initiation Protocol ("SIP") Specification

("Specification")

Version: 1.0

Status: FCS

Specification Lead: Dynamicsoft ("Specification Lead")

Release: May 25, 2001

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## 1.249 mongo-java-driver 2.10.1

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Written by: Philip Hazel

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Written by: Philip Hazel  
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## THE C++ WRAPPER FUNCTIONS

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## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
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## THE BASIC LIBRARY FUNCTIONS

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## 1.252 mysql-libs 5.1.73 :5.el6\_6

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```
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```

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```
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```

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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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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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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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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.

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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.

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Ty Coon, President of Vice

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## 1.259 newt-python 0.52.11 :3.el6

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

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```
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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation

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- npm is a package manager program located at deps/npm.

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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Copyright (C) 2012 by Jun Woong.

This package is a JavaScript porting of `wewidth()` implementation  
[by Markus Kuhn](<http://www.cl.cam.ac.uk/~mgk25/ucs/wewidth.c>).

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// Original can be found at:

// <https://bitbucket.org/lindenlab/llsd>

// Modifications by Joshua Bell [inexorable@lindenlab.com](mailto:inexorable@lindenlab.com)

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// \* Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

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[\*\*Download JSON\*\*](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids.json)

## Use as a JavaScript Library

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### Installation

#### Package managers

##### [npm](https://www.npmjs.com/)

```
```sh
npm install spdx-license-ids
```
```

##### [bower](http://bower.io/)

```
```sh
bower install spdx-license-ids
```
```

##### [Duo](http://duojs.org/)

```
```javascript
const spdxLicenseIds = require('shinnn/spdx-license-ids');
```
```

#### Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

### API

##### spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```
```javascript
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ... ]
```
```

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- Zlib at deps/zlib. zlib's license follows:

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.8, April 28th, 2013
```

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""

- npm is a package manager program located at deps/npm.

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- test/gc/node\_modules/weak. Node-weak is a node.js add-on that provides garbage collector notifications. Node-weak's license follows:

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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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47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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36. [39]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
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46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
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- space on the stuff in the html/pic/ subdirectory
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3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
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13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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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]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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31. [34]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
32. [35]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
35. [38]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
36. [39]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
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43. [47]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49]Wilfredo Snchez <wsanchez@apple.com> added support for

## NetInfo

46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
  47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
  48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
  49. [53]Michael Shields <shields@tembel.org> USNO clock driver
  50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
  51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
  52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
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  54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
  55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
  56. [60]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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```

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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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```

## 1.275 numactl 2.0.9 :2.el6

## 1.275.1 Available under license :

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Test/demo program for libnuma. This is also a more or less useful benchmark of the NUMA characteristics of your machine. It benchmarks most possible NUMA policy memory configurations with various benchmarks.

Compile standalone with `cc -O2 numademo.c -o numademo -lnuma -lm`

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All calls are undefined when numa\_available returns an error. \*/  
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## 1.276 oauth-sign 0.3.0

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## 1.284 openssl 1.0.1e :48.el6\_8.3

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## 1.286 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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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.

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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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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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## 1.289 p11-kit 0.18.5 :2.el6\_5.2

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## 1.293 pciutils 3.1.10 :4.el6

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-----

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-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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<signature of Ty Coon>, 1 April 1989
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## 1.297 perl-libs 5.10.1 :141.el6\_7.1

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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```

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## 1.298 perl-Module-Pluggable 3.90 :141.el6\_7.1

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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```

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## 1.299 perl-Pod-Escapes 1.04 :141.el6\_7.1

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## 1.300 perl-Pod-Simple 3.13 :141.el6\_7.1

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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```
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```
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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
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```

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

That's all there is to it!

## 1.302 perl-URI 1.40 :2.e16

### 1.302.1 Available under license :

This package contains the URI.pm module with friends. The module implements the URI class. Objects of this class represent Uniform Resource Identifier references as specified in RFC 2396 and updated by RFC 2732.

URI objects can be used to access and manipulate the various components that make up these strings. There are also methods to combine URIs in various ways.

Some tests require an Internet connection to work and are skipped if one is not active.

You need perl5.004 or better to install this package. You should also have the MIME::Base64 module installed. Installation is otherwise as usual:

```
perl Makefile.PL
make
make test
make install
```

Questions about how to use this library should be directed to the comp.lang.perl.modules USENET Newsgroup. Bug reports and suggestions for improvements can be sent to the <libwww@perl.org> mailing list.

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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# 1.304 pinentry 0.7.6 :8.el6

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@iftex

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@end iftex

@ifinfo

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end ifinfo

@enumerate

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@end iftex  
@ifinfo  
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@page  
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```
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```

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```
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@group
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interest in the program `Gnomovision'
(which makes passes at compilers) written
by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
```

Ty Coon, President of Vice

@end group

@end smallexample

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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 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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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.
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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.

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 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.

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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[This is the first released version of the library GPL. It is

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## Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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 a program 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.

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 each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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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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.

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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:

- 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:

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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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```
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.

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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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## 1.310 polycycoreutils 2.0.83 :24.e16

### 1.310.1 Available under license :

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<one line to give the program's name and a brief idea of what it does.>  
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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:

```
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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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```
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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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Version 2, June 1991

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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



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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.

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## 1.313 postfix 2.6.6 :6.el6\_7.1

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Author:

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Included for the use of the fix\_strcasecmp.c module which works around a Solaris problem.

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## 1.314 procps 3.2.8 :36.el6

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## 1.317 pulseaudio 0.9.21 :24.e16

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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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-- Lennart Poettering, April 20th, 2006.

## 1.318 pygpgme 0.1 :18.20090824bZR68.e16

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## 1.319 python 2.6.6 :66.el6\_8

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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.

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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
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| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
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| 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 |

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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.

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| 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                 |
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| 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                 |
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|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 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 |
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| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
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| 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 |
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## 1.326 python-pycurl 7.19.0 :9.e16

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# 1.328 python-pymongo 2.5.2 :3.el6.1

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# 1.329 python-urlgrabber 3.9.1 :9.e16

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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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## 1.330 python-urlgrabber 3.9.1 :11.el6

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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.>  
Copyright (C) 19yy <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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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) 19yy 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:

```
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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Version 2, June 1991

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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.

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<signature of Ty Coon>, 1 April 1990  
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# 1.337 rpm-libs 4.8.0 :47.el6

## 1.337.1 Available under license :

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```
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```

```
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```
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```

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```
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```

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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.

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

That's all there is to it!

## 1.339 rsyslog 5.8.10 :10.e16\_6

### 1.339.1 Available under license :

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Version 3, 29 June 2007

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## 1.344 shadow-utils 4.1.5.1 :5.el6

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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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## 1.359 system-config-firewall 1.2.27 :7.2.el6\_6

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```
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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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```
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- "laadusta tai soveltuvuudesta tiettyyn tarkoitukseen. Katso GPL- lisenssistä "
- "lisä yksityiskohtia.\n"
- "\n"
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```

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## 1.362 tar 1.23 :13.el6

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Version 3, 29 June 2007

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# 1.364 tcp\_wrappers 7.6 :57.el6

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-----BEGIN PGP SIGNATURE-----

Version: 2.6.3i

Charset: noconv

```
iQCVAwUBOxo3X9yA8qbVMny5AQHT8wP9FZOtWxEM4SMj4Sj9QezMERz31n5fd0pC
jUDnyzmosOudM/iFlv6YfyR820aNvNNI+AdtgWYRPVHocVNOOrZcmu7IADO8hlU//
v8BeBE0bdjeVmOQYRQfXgt3J2q0b8x8Q5a/LCLVLh8k6DFGg8AfEbLDQWhi1JiXC
0JsaB8crR3M=
=0AMW
```

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/* Note: this feature has been adapted in a pretty straightforward way
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Pekka Savola <pekkas@netcore.fi>.

Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
*/

```

# 1.365 texinfo 4.13a :8.el6

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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```

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## 1.366 Tomcat 7.0.29

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- javaee\_web\_services\_client\_1\_2.xsd
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- javaee\_web\_services\_client\_1\_3.xsd
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- web-fragment\_3\_0.xsd

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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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## 1.375 unzip 6.0 :4.el6

### 1.375.1 Available under license :

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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

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---

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
- \* (Apple Macintosh Developer Technical Support Emeritus)
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\*  
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\*  
\* Basic encoding and decoding of Macintosh files to the  
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\* -----  
\* This source is copyrighted by Christopher Evans (cevens@poppybank.com)  
\* (available at ftp://ftp.lazerware.com/MacBinaryIII\_src\_C.sit  
\* homepage of Leonard Rosenthol leonardr@netcom.com)

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"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.

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-----

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- \* from Steve P. Miller.

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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.

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```

```
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```

```
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- Layout tests, located in test/mjsunit/third\_party. These are based on layout tests from webkit.org which are copyrighted by Apple Computer, Inc. and released under a 3-clause BSD license.
  
- Strongtalk assembler, the basis of the files assembler-arm-inl.h, assembler-arm.cc, assembler-arm.h, assembler-ia32-inl.h, assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h, assembler-x64.cc, assembler-x64.h, assembler-mips-inl.h, assembler-mips.cc, assembler-mips.h, assembler.cc and assembler.h. This code is copyrighted by Sun Microsystems Inc. and released under a 3-clause BSD license.
  
- Valgrind client API header, located at third\_party/valgrind/valgrind.h. This is release under the BSD license.

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```

```
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```

```
# http://src.chromium.org/viewvc/chrome/trunk/src/tools/bash-completion
```

```
# Flag completion rule for bash.
```

```
# To load in your shell, "source path/to/this/file".
```

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```
// This implementation of the DeltaBlue benchmark is derived
```

```
// from the Smalltalk implementation by John Maloney and Mario
```

```
// Wolczko. Some parts have been translated directly, whereas
```

```
// others have been modified more aggressively to make it feel
```

```
// more like a JavaScript program.
```

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=====

Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income

(if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.



The address of the centre is:

Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [|iccf|](#) for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.

Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy  
10238-168 Street  
Surrey, B.C. V4N 1Z4  
Canada

Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.

This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774

IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form

that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

## 1.381 webservices-api 2.1

### 1.381.1 Available under license :

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## 1.384 Xalan-J 2.5.2

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Java HTML Tidy - JTidy

HTML parser and pretty printer

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## 1.386 Xml Compatibility extensions for Jackson 1.9.2

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# 1.387 xorg-x11-drv-ati 7.6.1 :2.e16

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# 1.388 xorg-x11-font-utils 7.2 :11.e16

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## 1.399 zlib 1.2.8

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interface of the 'zlib' general purpose compression library  
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jloup@gzip.org     madler@alumni.caltech.edu

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```
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```

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```
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under certain conditions; type `show c' for details.
```

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

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library. If this is what you want to do, use the GNU Library General  
Public License instead of this License.

```
/*  
 * match.S -- optimized version of longest_match()  
 * based on the similar work by Gilles Vollant, and Brian Raiter, written 1998  
 *  
 * This is free software; you can redistribute it and/or modify it  
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 */
```

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## 1.400 zlib 1.2.3 :29.e16

### 1.400.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005
```

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\*/

'zlib' general purpose compression library version 1.1.4, March 11th, 2002

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