



Open Source Used In IoT Unified Industrial Wireless 17.13

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

1.2 csrp 1.0

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-- Tom St Denis

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```

```
<signature of Ty Coon>, 1 April 1989
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1.6 zlib 1.2.3

1.6.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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*/

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1.7 bzip2 1.0.8

1.8 ebttables 2.0.10

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END OF TERMS AND CONDITIONS

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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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This is free software, and you are welcome
to redistribute it
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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1.9 json-c 0.99.8

1.9.1 Available under license :

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1.10 glibc 2.23

1.10.1 Available under license :

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@center Version 2.1, February 1999

@c This file is intended to be included within another document,

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@enumerate 0

@item

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You must

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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.)

@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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1.13 libevent 2.1.5-beta

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1.14 e2fsprogs 1.42.12

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*/

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes
-
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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```
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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>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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#

This 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) $(LD_FLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))

install-shlibs install: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LD_CONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall:
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean:
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```

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

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1.17 libvirt 1.2.15

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1.20 python 2.7.17

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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes

2.2 and above 2.1.1 2001-now
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1.27 tcpdump 4.9.3

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1.28 libcap-ng 0.7.3

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49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
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 51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
 52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
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1.34 pcre 10.35

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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1.35 libxml 2.3.0

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1.36 libssh2 1.9.0

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1.37 popt 1.6

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1.38 hostapd 2.9

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wpa_supplicant and hostapd

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Source code files were moved around in v0.6.x releases and compared to earlier releases, the programs are now built by first going to a subdirectory (wpa_supplicant or hostapd) and creating build configuration (.config) and running 'make' there (for Linux/BSD/cygwin builds).

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wpa_supplicant and hostapd

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/*

* hostapd / main()

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*/

1.39 openosc 1.0.3

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1.40 linux-kernel 2.4.2

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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 \$Revision: 1.1 \$ \$Date: 1999/08/20 11:00:11 \$

*

* 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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Video4Linux interface and 2.1.x kernel adaptation

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ConferenceTV card

+ many more (please mail me if you are missing in this list and would
like to be mentioned)

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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.

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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

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Thus, it is not the intent of this section to claim rights or contest

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This option is useful when you wish to copy part of the code of the

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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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That's all there is to it!

1.41 linux-kernel 4.1.52

1.41.1 Available under license :

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Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
lists
* (skb->atm.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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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 his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for 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

line to the DVB mailing list)

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QLogic Linux FC-FCoE Driver

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1.42 enum34 1.1.6

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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.

@page

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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

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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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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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@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.

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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.)

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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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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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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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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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For an executable, the required form of the ``work that uses the Library" must include any data and utility programs needed for reproducing the executable from

it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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Accompany the combined library with a copy of the same work based on the

Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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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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@center END OF TERMS AND CONDITIONS

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@page

@center 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.

@format

@t{

<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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}

@end format

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:

```
@format
```

```
@t{
```

```
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
```

```
}
```

```
@end format
```

That's all there is to it!

```
@c @bye
```

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Version 2.1, February 1999

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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.

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

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- 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.)

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

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

That's all there is to it!

1.45 iw 4.9

1.45.1 Available under license :

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1.46 lua 5.4.2

1.46.1 Available under license :

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

Lua is free software,
more details.

Found in path(s):

```
* /opt/cola/permits/1117084974_1608110407.29/0/lua-lua-v5-4-2-0-g9d067ab-tar-gz/lua-lua-9d067ab/manual/manual.of
```

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```
#!/usr/bin/env lua5.3
```

```
-- special marks:  
-- \1 - paragraph (empty line)  
-- \4 - remove spaces around it  
-- \3 - ref (followed by label)
```

```
-----  
header = [[  
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">  
<html>  
  
<head>  
<title>Lua 5.4 Reference Manual</title>  
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
<link rel="stylesheet" href="lua.css">  
<link rel="stylesheet" href="manual.css">  
</head>  
  
<body bgcolor="#FFFFFF">  
  
<hr>  
<h1>
```

```
<a href="http://www.lua.org/home.html"></a>
```

```
Lua 5.4 Reference Manual
```

```
</h1>
```

```
by Roberto Ierusalimschy, Luiz Henrique de Figueiredo, Waldemar Celes
```

```
<p>
```

```
<small>
```

```
<a href="http://www.lua.org/copyright.html">Copyright</a>
```

```
&copy; 2020 Lua.org, PUC-Rio. All rights reserved.
```

```
</small>
```

```
<hr>
```

```
<!-- ===== -->
```

```
<p>
```

```
]]
```

```
footer
```

```
= "\n\n</body></html>\n\n"
```

```
local seefmt = '(see %s)'
```

```
if arg[1] == 'port' then
```

```
seefmt = '(ver %s)'
```

```
header = string.gsub(header, "by (-)\n",
```

```
"%1\n<p>Tradu&ccedil;&atilde;o: S&eacute;rgio Queiroz de Medeiros", 1)
```

```
header = string.gsub(header, "Lua (%d+.%d+) Reference Manual",
```

```
"Manual de Refer&ecirc;ncia de Lua %1")
```

```
header = string.gsub(header, "All rights reserved",
```

```
"Todos os direitos reservados")
```

```
end
```

```
-----
```

```
local function compose (f,g)
```

```
assert(f and g)
```

```
return function (s) return g(f(s)) end
```

```
end
```

```
local function concat (f, g)
```

```
assert(f and g)
```

```
return function (s) return f(s) .. g(s) end
```

```
end
```

```
local Tag = { }
```



```

setmetatable(Tag, {
  __index = function (t, tag)
    local v = function (n, att)
      local e = ""
      if type(att) == "table" then
        for k,v in pairs(att) do e = string.format("%s %s=\"%s\"", e, k, v) end
      end
      if n then
        return string.format("<%s%s>%s</%s>", tag, e, n, tag)
      else
        return string.format("<%s%s>", tag, e)
      end
    end
    t[tag] = v
  return v
end
})

```

```

local labels = {}

```

```

local function anchor (text, label, link, textlink)
  if labels[label] then
    error("label " .. label .. " already defined")
  end
  labels[label] = {text = textlink, link = link}
  return Tag.a(text, {name=link})
end

```

```

local function makeref (label)
  assert(not string.find(label, "|"))
  return string.format("\3%s\3", label)
end

```

```

local function ref (label)
  local l = labels[label]
  if not l then
    io.stderr:write("label ", label, " undefined\n")
    return "#####"
  else
    return Tag.a(l.text, {href="#" .. l.link})
  end
end

```

```
-----
local function nopara (t)
  t = string.gsub(t, "\\1", "\\n\\n")
  t = string.gsub(t, "<p>%s*</p>", "")
  return t
end
```

```
local function fixpara (t)
  t = string.gsub(t, "\\1", "\\n</p>\\n\\n<p>\\n")
  t = string.gsub(t, "<p>%s*</p>", "")
  return t
end
```

```
local function antipara (t)
  return "</p>\\n" .. t .. "<p>"
end
```

```
Tag.pre = compose(Tag.pre, antipara)
Tag.ul = compose(Tag.ul, antipara)
```

```
-----
local Gfoots = 0
local footnotes = { }
```

```
local line = Tag.hr(nil)
```

```
local function dischargefoots ()
  if #footnotes == 0 then return "" end
  local fn = table.concat(footnotes)
  footnotes = { }
  return line .. Tag.h3"footnotes:" .. fn .. line
end
```

```
local Glists = 0
local listings = { }
```

```
local function dischargelist ()
  if #listings == 0 then return "" end
  local l = listings
  listings = { }
  return line .. table.concat(l, line..line) .. line
end
```

```
-----
local counters = {
  h1 = {val = 1},
```

```
h2 = { father = "h1", val = 1 },
h3 = { father = "h2", val = 1 },
listing = { father = "h1", val = 1 },
}
```

```
local
function inccounter (count)
counters[count].val = counters[count].val + 1
for c, v in pairs(counters) do
    if v.father == count then v.val = 1 end
end
end
```

```
local function getcounter (count)
local c = counters[count]
if c.father then
    return getcounter(c.father) .. "." .. c.val
else
    return c.val .. ""
end
end
```

```
local function fixed (x)
return function () return x end
end
```

```
local function id (x) return x end
```

```
local function prepos (x, y)
assert(x and y)
return function (s) return string.format("%s%s%s", x, s, y) end
end
```

```
local rw = Tag.b
```

```
local function LuaName (name)
return Tag.code(name)
end
```

```
local function getparam (s)
```

```

local i, e = string.find(s, "[^%s@|]+")
if not i then return nil, s
else return string.sub(s, i, e - 1), string.sub(s, e + 1)
end
end

```

```

local function gettitle (h)
local title, p = assert(string.match(h, "<title>(-)</title>()"))
return title, string.sub(h,
p)
end

```

```

local function getparamtitle (what, h, nonum)
local label, title, c, count
label, h = getparam(h)
title, h = gettitle(h)
if not nonum then
count = getcounter(what)
inccounter(what)
c = string.format("%s &ndash; ", count)
else
c = ""
end
label = label or count
if label then
title = anchor(title, label, count, "&sect;.."..count)
end
title = string.format("%s%s", c, title)
return title, h
end
end

```

```

local function section (what, nonum)
return function (h)
local title
title, h = getparamtitle(what, h, nonum)
local fn = what == "h1" and dischargefoots() or ""
h = fixpara(Tag.p(h))
return "</p>\n" .. Tag[what](title) .. h .. fn ..
dischargelist() .. "<p>"
end
end

```

```

local function verbatim (s)
s = nopara(s)
s = string.gsub(s, "\n", "\n ")
s = string.gsub(s, "\n%s*$", "\n")

```

```
return Tag.pre(s)
end
```

```
local function verb (s)
return Tag.code(s)
end
```

```
local function lua2link
(e)
return string.find(e, "luaL?_") and e or "pdf-".e
end
```

```
local verbfixed = verb
```

```
local Tex = {
```

```
ANSI = function (func)
return "ISO&nbsp;C function " .. Tag.code(func)
end,
At = fixed"@",
B = Tag.b,
bigskip = fixed"",
bignum = id,
C = fixed"",
Ci = prepos("<!-- ", " -->"),
CId = function (func)
return "C&nbsp;function " .. Tag.code(func)
end,
chapter = section"h1",
Char = compose(verbfixed, prepos("","")),
Cdots = fixed"&nbsp;&nbsp;&nbsp;:",
Close = fixed"}",
col = Tag.td,
defid = function (name)
local l = lua2link(name)
local c = Tag.code(name)
return anchor(c, l, l, c)
end,
def = Tag.em,
description = compose(nopara, Tag.ul),
Em = fixed("\4" .. "&nbsp;" .. "\4"),
emph = Tag.em,
emphx = Tag.em, -- emphasis plus index (if there was an index)
En = fixed("&nbsp;"),
```

```

format = fixed"",
["false"] = fixed(Tag.b"false"),
id = Tag.code,
idx = Tag.code,
index = fixed"",
Lidx = fixed"", -- Tag.code,
ldots
= fixed"...",
x = id,
itemize = compose(nopara, Tag.ul),
leq = fixed"&le;",
Lid = function (s)
    return makeref(lua2link(s))
end,
M = Tag.em,
N = function (s) return (string.gsub(s, " ", "&nbsp;")) end,
NE = id, -- tag"foreignphrase",
num = id,
["nil"] = fixed(Tag.b"nil"),
fail = fixed(Tag.b"fail"),
Open = fixed"{",
part = section("h1", true),
Pat = compose(verbfixed, prepos("", "")),
preface = section("h1", true),
psect = section("h2", true),
Q = prepos("", ""),
refchp = makeref,
refcode = makeref,
refsec = makeref,

pi = fixed"&pi;",
rep = Tag.em, -- compose(prepos("&lt;", "&gt;"), Tag.em),
Rw = rw,
rw = rw,
sb = Tag.sub,
sp = Tag.sup,
St = compose(verbfixed, prepos("", "")),
sect1 = section"h1",
sect2 = section"h2",
sect3 = section"h3",
sect4 = section("h4", true),
simplesect = id,
Tab2 = function (s) return Tag.table(s, {border=1}) end,
row = Tag.tr,
title = Tag.title,
todo = Tag.todo,
["true"] = fixed(Tag.b"true"),
T = verb,

```

```

item = function (s)

    local t, p = string.match(s, "^(^[^\\n|]+)|()")
    if t then
        s = string.sub(s, p)
        s = Tag.b(t..": ") .. s
    end
    return Tag.li(fixpara(s))
end,

verbatim = verbatim,

manual = id,

-- for the manual

link =function (s)
    local l, t = getparam(s)
    assert(l)
    return string.format("%s (%s)", t, makeref(l))
end,

see = function (s) return string.format(seefmt, makeref(s)) end,
See = makeref,
seeC = function (s)
    return string.format(seefmt, makeref(s))
end,

seeF = function (s)
    return string.format(seefmt, makeref(lua2link(s)))
end,

APIEntry = function (e)
    local h, name
    h, e = string.match(e, "^%s*(.-%s*|(.*)$")
    name = string.match(h, "(luaL?_[%w_]+)%? +%(") or
        string.match(h, "luaL?_[%w_]+")
    local a = anchor(Tag.code(name), name, name, Tag.code(name))
    local apiicmd, ne = string.match(e, "^(.-</span>)(.*)")
    --io.stderr:write(e)
    if not apiicmd then
        return antipara(Tag.hr() .. Tag.h3(a))
    .. Tag.pre(h) .. e
    else
        return antipara(Tag.hr() .. Tag.h3(a)) .. apiicmd .. Tag.pre(h) .. ne
    end
end

```

```

end,

LibEntry = function (e)
  local h, name
  h, e = string.match(e, "^(-)|(.*$)")
  name = string.gsub(h, "(.+)", "")
  local l = lua2link(name)
  local a = anchor(Tag.code(h), l, l, Tag.code(name))
  return Tag.hr() .. Tag.h3(a) .. e
end,

Produc = compose(nopara, Tag.pre),
producname = prepos("\t", " ::= "),
Or = fixed" | ",
VerBar = fixed"&#124;", -- vertical bar
OrNL = fixed" | \4",
bnfNter = prepos("", ""),
bnfopt = prepos("[", "]"),
bnfrep = prepos("{", "}"),
bnfter = compose(Tag.b, prepos("&lsquo;", "&rsquo;")),
productbody = function (s)
  s = string.gsub(s, "%s+", " ")
  s = string.gsub(s, "\4", "\n\t")
  return s
end,

apii = function (s)
  local pop, push, err = string.match(s, "^(-),(-),(.*)$")
  if pop ~= "?" and string.find(pop, "%W") then
    pop = "(" .. pop .. ")"
  end
  if push ~= "?"
and string.find(push, "%W") then
    push = "(" .. push .. ")"
  end
  err = (err == "-" and "&ndash;" or Tag.em(err))
  return Tag.span(
    string.format("[-%s, +%s, %s]", pop, push, err),
    {class="apii"}
  )
end,
}

local others = prepos("?? ", " ??")

local function trata (t)
  t = string.gsub(t, "@(%w+)(%b{ })", function (w, f)
    f = trata(string.sub(f, 2, -2))

```



```

    if type(Tex[w]) ~= "function" then
        io.stderr:write(w .. "\n")
        return others(f)
    else
        return Tex[w](f, w)
    end
end)
return t
end

```

```

-----
-----

```

```
-- read whole book
```

```
t = io.read"*a"
```

```
t = string.gsub(t, "[<>\128-\255]",
```

```
{["<"] = "&lt;",
```

```
[">"] = "&gt;",
```

```
["&"] = "&amp;",
```

```
["\170"] = "&ordf;",
```

```
["\186"] = "&ordm;",
```

```
["\192"] = "&Agrave;",
```

```
["\193"] = "&Aacute;",
```

```
["\194"] = "&Acirc;",
```

```
["\195"] = "&Atilde;",
```

```
["\199"] = "&Ccedil;",
```

```
["\201"] = "&Eacute;",
```

```
["\202"] = "&Ecirc;",
```

```
["\205"] = "&Iacute;",
```

```
["\211"] = "&Oacute;",
```

```
["\212"] = "&Ocirc;",
```

```
["\218"] = "&Uacute;",
```

```
["\224"] = "&agrave;",
```

```
["\225"] = "&aacute;",
```

```
["\226"] = "&acirc;",
```

```
["\227"] = "&atilde;",
```

```
["\231"] = "&ccedil;",
```

```
["\233"] = "&eacute;",
```

```
["\234"] = "&ecirc;",
```

```
["\237"] = "&iacute;",
```

```
["\243"] = "&oacute;",
```

```
["\244"] = "&ocirc;",
```

```
["\245"] = "&otilde;",
```

```
["\250"] = "&uacute;",
```

```
["\252"] = "&uuml;"
```

```
})
```

```
t = string.gsub(t, "\\n\\n+", "\\1")
```

```
-- complete macros with no arguments
```

```
t = string.gsub(t, "(@%w+)([^{ %w])", "%1{ }%2")
```

```
t = trata(t)
```

```
-- correct references
```

```
t = string.gsub(t, "\\3(-)\\3", ref)
```

```
-- remove extra space (??)
```

```
t = string.gsub(t, "%s*\\4%s*", "")
```

```
t = nopara(t)
```

```
-- HTML 3.2 does not need </p> (but complains when it is in wrong places :)
```

```
t = string.gsub(t, "</p>", "")
```

```
io.write(header, t, footer)
```

Found in path(s):

*

/opt/cola/permits/1117084974_1608110407.29/0/lua-lua-v5-4-2-0-g9d067ab-tar-gz/lua-lua-9d067ab/manual/2html

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```
--[[
```

```
*****
```

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```

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Found in path(s):

* /opt/cola/permits/1117084974_1608110407.29/0/luau-lua-v5-4-2-0-g9d067ab-tar-gz/luau-lua-9d067ab/testes/all.lua

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Found in path(s):

* /opt/cola/permits/1117084974_1608110407.29/0/luau-lua-v5-4-2-0-g9d067ab-tar-gz/luau-lua-9d067ab/luau.h

1.47 websocket-client 0.47.0

1.47.1 Available under license :

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Version 2.1, February 1999

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1.48 busybox 1.32.1

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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```

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```
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it
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```

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```
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```

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```
WEV @@ WEV[B "1
```

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x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#\$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
/*

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1.52 opkg 0.1.8

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1.53 dmalloc 5.5.2

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```
#!/usr/bin/perl5 -w
#
# dmalloc_summarize -- summarizes dmalloc log files
#
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```

```
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#
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# MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
#
# $Id: dmalloc_summarize.pl,v 1.1.1.1 2012/09/18
# 09:28:11 mohammr1 Exp $
#
/*
 *
 * Copyright (c) 1994, Textil Computer Design GmbH, Dresden
 *
 * Author: J"org Wunsch
 *
 * Dumb atexit() implementation. It is far from being elegant. It is
 * only here to provide a workaround for systems where the existing
 * atexit() implementation is known to cause problems due to doing
 * own mallocs. The problem arose originally on a Data General
 * machine running DG/UX 5.4R*, along with gcc compiling C++ code.
 * In order to have global and static variables called their const-
 * ructors, a chunk of code has been placed by the compiler that
 * ran before invoking main(). This code registered the destructors
 * with atexit() at this very early stage, but the existing atexit()
 * bypassed the normal memory allocation scheme, and hence caused
 * grievous troubles in combination with the dmalloc library.
 *
 * Known problem for DG/UX: the crt0.o (at least in a COFF environ-
 * ment) passes the return value from main() to _real_exit() instead
 * of exit().
 *
 * Hence programs which return from main instead of calling
 * exit() do not work as expected. I do not see any good workaround
 * for this so far (since crt0.o always happens to reference the
 * _real_exit() from the library, even if we would provide our very
 * own symbol for it).
 *
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1.54 d-bus 1.12.18

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1.56 pciutils 3.4.0

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1.57 pcre 8.44

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1.58 libev 4.33

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1.59 linux-kernel 5.4

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1.61 futures 3.0.5

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1.62 pyudev 0.21.0

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1.63 mtd-utils 1.5.1

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1.66 pycurl 7.43.0-3.ph2

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1.69 procps 3.2.7

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

```
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```
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```

The hypothetical commands

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

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1.70 tdb 1.42.12

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```
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# Some simple tests for the Python bindings for TDB
# Note that this tests the interface of the Python bindings
# It does not test tdb itself.
#
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1.71 libxml2 2.9.11

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1.72 ncurses 6.3

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-- \$Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp \$
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1.73 pam 1.5.2

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1.74 cheroot 6.4.0

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1.75 libwebsockets 2.4.2

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1.76 kexec-tools 2.0.18

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

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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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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

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

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

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

Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. 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.

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

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

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

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@end enumerate

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@subheading END OF TERMS AND CONDITIONS

@page

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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1.82 wsgiref 0.1.2

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* /opt/cola/permits/1403963770_1661913703.6112542/0/wsgiref-0-1-2-2-zip/wsgiref-0.1.2/wsgiref/validate.py

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Metadata-Version: 1.0

Name: wsgiref

Version: 0.1.2

Summary: WSGI (PEP 333) Reference Library

Home-page: <http://cheeseshop.python.org/pypi/wsgiref>

Author: Phillip J. Eby

Author-email: web-sig@python.org

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Description: This is a standalone release of the ``wsgiref`` library to be included in Python 2.5. For the standalone version's documentation, see:

HTML

http://peak.telecommunity.com/wsgiref_docs/

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Platform: UNKNOWN

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1.83 libjitterentropy 3.4.1

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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The End

1.90 elfutils 0.1.73

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1.91 systemd 219-42-9

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1.92 linux-kernel 5.4.164

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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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/* 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 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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(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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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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it
under certain conditions; type `show c' for details.
```

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```
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```

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1.103 tftp-hpa 5.2

1.103.1 Available under license :

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* http://www.openbsd.org/.  
*  
*
```

* ----- */

Found in path(s):

* /opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.h

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

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Found in path(s):

* /opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/MCONFIG.in

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

/* *_- c *_- ----- *

*

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*

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*

* ----- */

Found in path(s):

* /opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/config.h

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/* ----- *

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*

* ----- */

Found in path(s):

* /opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c

* /opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h

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

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?_smp_mflags}

%install

```
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}
```

```
make INSTALLROOT=${RPM_BUILD_ROOT} \
  SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
```

install

```
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
```

```
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp
```

```
%post server
```

```
/sbin/service xinetd reload > /dev/null 2>&1 || :
```

```
%postun server
```

```
if [ $1 = 0 ]; then
```

```
  /sbin/service xinetd reload > /dev/null 2>&1 || :
```

```
fi
```

```
%clean
```

```
rm -rf ${RPM_BUILD_ROOT}
```

```
%files
```

```
%defattr(-,root,root)
```

```
%{_bindir}/tftp
```

```
%{_mandir}/man1/*
```

```
%files
```

```
server
```

```
%defattr(-,root,root)
```

```
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
```

```
%dir /tftpboot
```

```
%{_sbindir}/in.tftpd
```

```
%{_mandir}/man8/*
```

```
%changelog
```

```
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
```

```
- removed completely broken "Malta" patch.
```

```
- integrated into build machinery so rpm -ta works.
```

```
* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
```

```
- rebuilt
```

```
* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
```

```
- rebuilt
```

```
* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
```

```
- 0.33
```

```
- Add /tftpboot directory (#88204)
```

```
* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
```

```
- rebuilt
```

```
* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
```

```
- add BuildPreReq on tcp_wrappers
```

```
* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
```

- rebuilt

- * Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
 - Update to 0.32

- * Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
 - Fix #55789
 - Update to 0.30

- * Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
 - Try applying HJ's patch from #65476

- * Fri Jun 21 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
 - Update to 0.29

- * Thu May 23 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Wed Jan 09 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
 - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
 - Update to tftp-hpa-0.28 (bug #56131)
 - Remove include/arpa/tftp.h to fix #57259
 - Add resource limits in tftp-xinetd (#56722)

- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
 - Bump release + rebuild.

- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
 - updated tftp-hpa source to tftp-hpa-0.17
 - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
 - use hpa's tftpd.8 man page instead of the netkits one

- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
 - rebuilt in 7.1.x

- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
 - fix tftp client's put problems (#29529)
 - update
 - to tftp-hpa-0.16

- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>

- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>

- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>

- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>

- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>

- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000

Nalin Dahyabhai <nalin@redhat.com>

- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>

- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>

- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>

- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>

- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>

- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>

- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <maw@redhat.com>

- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>

- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>

- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>

- man pages are compressed

- fix description and summary

* Tue

Jan 4 2000 Bill Nottingham <notting@redhat.com>

- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>

- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>

- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>

- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>

- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>

- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>

- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>

- initial build

Found in path(s):

* /opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp.spec

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* /opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in

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*

/opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp/extern.h

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Found

in path(s):

```
* /opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c
```

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

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: @@VERSION@@

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp_wrappers-devel

BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from `/etc/xinetd.d/tftp`, and is disabled by default on Red Hat Linux systems.

%prep

```
%setup -q -n tftp-hpa-%{version}
```

%build

%configure

```
make %{?_smp_mflags}
```

%install

```
rm -rf ${RPM_BUILD_ROOT}
```

```
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
```

```
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
```

```

mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
  SBINDIR=${_sbindir} MANDIR=${_mandir} \
  install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>

```

- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>

- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>

- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1

- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1

- Fix #55789

- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>

- Try applying HJ's patch from #65476

*

Fri Jun 21 2002 Tim Powers <timp@redhat.com>

- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>

- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>

- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>

- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15

- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562

- Update to tftp-hpa-0.28 (bug #56131)

- Remove include/arpa/tftp.h to fix #57259

- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>

- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)

- updated tftp-hpa source to tftp-hpa-0.17

- tweaked specfile with different defines for tftp-netkit and tftp-hpa version

- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>

- rebuilt in 7.1.x

- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
 - fix tftp client's put problems (#29529)
 -
 - update to tftp-hpa-0.16

- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
 - don't let configure to guess compiler, it can pick up egcs

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
 - fixed hpa-tftpd to handle files greater than 32MB (#23725)
 - added "-l" flag to hpa-tftpd for file-logging (#26467)
 - added description for "-l" to the man-page

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - updated tftp client to 0.17 stable (#19640),
 - drop dependency on xinetd for tftp client (#25051),

- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
 - xinetd shouldn't wait on tftp (which forks) (#23923).

- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
 - fix to permit tftp put's (#18128).
 - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
 - %%post is needed by server, not client. Add %%postun for erasure as well.

- * Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
 - default to being disabled

- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
 - correct group.

- * Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
 - change user from root to nobody

- * Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
 - update to tftp-hpa-0.14 (#14003).
 - add server_args (#14003).
 - remove -D_BSD_SOURCE (#14003).

- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
 - cook up an xinetd config file for tftpd

- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
 - automatic rebuild

- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
 - FHS packaging.
 - update to 0.17.

- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
 - use `_BSD_SOURCE` for hpa's tftpd so we get BSD signal semantics.

- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
 - fix description

- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
 - compress man pages (again).

- * Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
 - man pages are compressed
 - fix description and summary

- *
 - Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
 - split client and server

- * Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
 - update to 0.16.

- * Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
 - update to 0.15.

- * Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
 - tftpd should truncate file when overwriting (#412)

- * Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
 - auto rebuild in the new build environment (release 22)

- * Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
 - compile for 6.0.

- * Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
 - build root

- * Mon Apr 27 1998 Prospector System <bugs@redhat.com>
 - translations modified for de, fr, tr

- * Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
 - added check for `getpwnam()` failure

- * Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
 - initial build

Found in path(s):

* /opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp.spec.in

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*

/opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c

* /opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp/tftp.c

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* /opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/remap.c

* /opt/cola/permits/1706477603_1686090138.2521963/0/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/remap.h

1.104 iproute 5.1.0-1-openwrt

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1.106 yajl 2.1.0

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* /opt/cola/permits/1723834055_1687183247.6822069/0/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_parse.h

*

/opt/cola/permits/1723834055_1687183247.6822069/0/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_common.h

* /opt/cola/permits/1723834055_1687183247.6822069/0/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_gen.h

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* /opt/cola/permits/1723834055_1687183247.6822069/0/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_tree.h

1.107 libvirt-python 1.2.15

1.107.1 Available under license :

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Version 2.1, February 1999

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* /opt/cola/permits/1755469605_1693800248.843109/0/netbsd-resolv-tar/resolv/ns_parse.c

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```

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/* BZ #17977 _res_hconf_reorder_addrs test.
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* /opt/cola/permits/1755469605_1693800248.843109/0/netbsd-resolv-tar/resolv/res-state.c

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*

/opt/cola/permits/1755469605_1693800248.843109/0/netbsd-resolv-tar/resolv/res_data.c

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```

* /opt/cola/permits/1755469605_1693800248.843109/0/netbsd-resolv-tar/resolv/nss_dns/dns-network.c

```

1.110 ntpclient 2010-365

1.110.1 Available under license :

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```

/*
* ntpclient.c - NTP client
*
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*
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```

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*
* Possible future improvements:
*   - Write more documentation :-(
*   - Support leap second processing
*   - Support IPv6
*   - Support multiple
(interleaved) servers
*
* Compile with -DPRECISION_SIOCGSTAMP if your machine really has it.
* There are patches floating around to add this to Linux, but
* usually you only get an answer to the nearest jiffy.
* Hint for Linux hacker wannabes: look at the usage of get_fast_time()
* in net/core/dev.c, and its definition in kernel/time.c .
*
* If the compile gives you any flak, check below in the section
* labelled "XXX fixme - non-automatic build configuration".
*/

```

Found in path(s):

```

* /opt/cola/permits/1755469597_1693800303.0886743/0/ntpclient-2010-bcm32-tar/ntpclient-2010/ntpclient.c
No license file was found, but licenses were detected in source scan.

```

```

/*
* adjtimex_1.c - read, and possibly modify, the Linux kernel `timex' variables.
*
* Originally written: October 1997
* Last hack: May 2003
* Copyright 1997, 2000, 2003 Larry Doolittle <larry@doolittle.boa.org>
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*
* This adjtimex(1) is very similar in intent to adjtimex(8) by Steven
* Dick <ssd@nevets.oau.org>
* and Jim Van Zandt <jrv@vanzandt.mv.com>
* (see http://metalab.unc.edu/pub/Linux/system/admin/time/adjtimex*).
* That version predates this one, and is much bigger and more
* featureful. My independently written version was very similar to
* Steven's from the start, because they both follow the kernel timex
* structure. I further tweaked this version to be equivalent to Steven's
* where possible, but I don't like getopt_long, so the actual usage
* syntax is incompatible.
*
* Amazingly enough, my Red Hat 5.2 sys/timex (and sub-includes)
* don't actually give a prototype for adjtimex(2), so building
* this code (with -Wall) gives a warning. Later versions of
* glibc fix this issue.
*
* This program is too simple for a Makefile, just build with:
* gcc -Wall -O adjtimex_1.c -o adjtimex
*/

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/*

* phaselock.c - Phase locking for NTP client

*

* Copyright (C) 2000, 2007 Larry Doolittle <larry@doolittle.boa.org>

* Last hack: 30 December, 2007

*

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- *
- * Possible future improvements:
- * - Subtract configurable amount from errorbar
- * - Build in general run-time access to tune parameters
- * - Sculpt code so it's legible, this version is out of control
- * - Write documentation :-(
- */

Found in path(s):

* /opt/cola/permits/1755469597_1693800303.0886743/0/ntpclient-2010-bcm32-tar/ntpclient-2010/phaselock.c
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ntpclient is an NTP (RFC-1305, RFC-4330) client for unix-alike computers. Its functionality is a small subset of xntpd, but IMHO performs better (or at least has the potential to function better) within that limited scope. Since it is much smaller than xntpd, it is also more relevant for embedded computers.

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ntpclient home page: <http://doolittle.icarus.com/ntpclient/>

Joachim Nilsson created a fork of ntpclient that he maintains at <http://vmlinux.org/jocke/ntpclient.shtml>. We don't have the same maintainance and build system sensibilities; some people may prefer his. In

particular, he has converted his ntpclient to daemon and syslog. The basic functionality of the two versions should be identical.

To build on Linux, type "make". Solaris and other Unix users will probably need to adjust the Makefile slightly. It's not complex. For changing the system clock frequency, only the Linux adjtimex(2) interface is implemented at this time. Non-Linux systems can only use ntpclient to measure time differences and set the system clock, by way of the POSIX 1003.1-2001 standard routines clock_gettime() and clock_settime(). Also see "Bugs", below.

There are a few compile-time configurations possible, which require editing the Makefile. Either do or don't define

ENABLE_DEBUG
 ENABLE_REPLAY
 USE_OBSOLETE_GETTIMEOFDAY

PRECISION_SIOCGSTAMP

Try it first without changing the default: that will give you a full-featured ntpclient, that uses modern POSIX time functions, and works reasonably with any Linux kernel. There are comments in ntpclient.c that you should read before experimenting with PRECISION_SIOCGSTAMP.

Some older but otherwise (almost) serviceable Linux systems (e.g., Red Hat EL-3.0 and Ubuntu 4.10) have a totally broken POSIX clock_settime() implementation. If you get "clock_settime: Invalid argument" when you run ntpclient -s, rebuild with -DUSE_OBSOLETE_GETTIMEOFDAY. Linux systems that are even older won't even compile without that switch set.

Usage: ntpclient [options]

options:

- c count stop after count time measurements (default 0 means go forever)
- d print diagnostics (feature can be disabled at compile time)
- g goodness causes ntpclient to stop after getting a result more accurate than goodness (microseconds, default 0 means go forever)
- h hostname (mandatory) NTP server, against which to measure system time
- i interval check time every interval seconds (default 600)
- l attempt to lock local clock to server using adjtimex(2)
- p port local NTP client UDP port (default 0 means "any available")
- q min_delay minimum packet delay for transaction (default 800 microseconds)
- r replay analysis code based on stdin
- s simple clock set (implies -c 1)
- t trust network and server, no RFC-4330 recommended cross-checks

Mortal users can use this program for monitoring, but not clock setting (with the -s or -l switches). The -l switch is designed to be robust in any network environment, but has seen the most extensive testing in a low latency (less than 2 ms) Ethernet environment. Users in other environments should study ntpclient's behavior, and be prepared to adjust internal tuning parameters. A long description of how and why to use ntpclient is in the HOWTO file. ntpclient always sends packets to the server's UDP port 123.

One commonly needed tuning parameter for lock mode is min_delay, the shortest possible round-trip transaction time. This can be set with the command line -q switch. The historical default of 800 microseconds was good for local Ethernet hardware a few years ago. If it is set too high, you will get a lot of "inconsistent" lines in the log file when time locking (-l switch). The only true future-proof value is 0, but that will cause the local time to wander more than it should. I use 200 on my workstation.

The test.dat file has 200 lines of sample output. Its first few lines,

with the output column headers that are shown when the -d option is chosen, are:

```
day second elapsed stall skew dispersion freq
36765 00180.386 1398.0 40.3 953773.9 793.5 -1240000
36765 00780.382 1358.0 41.3 954329.0 915.5 -1240000
36765 01380.381 1439.0 56.0 954871.3 915.5 -1240000
```

day, second: time of measurement, UTC, relative to NTP epoch (Jan 1, 1900)

elapsed: total time from query to response (microseconds)

stall: time the server reports that it sat on the request (microseconds)

skew: difference between local time and server time
(microseconds)

dispersion: reported by server, see RFC-1305 (microseconds)

freq: local clock frequency adjustment (Linux only, ppm*65536)

A relatively new feature is a series of sanity checks on UDP packets received, generally as recommended by RFC-4330. If it fails one of these tests, the line described above is replaced by

```
36765 01380.381 rejected packet
```

or, if ENABLE_DEBUG was selected at compile time, one of

```
36765 01380.381 rejected packet: LI==3
```

```
36765 01380.381 rejected packet: VN<3
```

```
36765 01380.381 rejected packet: MODE!=3
```

```
36765 01380.381 rejected packet: ORG!=sent
```

```
36765 01380.381 rejected packet: XMT==0
```

```
36765 01380.381 rejected packet: abs(DELAY)>65536
```

```
36765 01380.381 rejected packet: abs(DISP)>65536
```

```
36765 01380.381 rejected packet: STRATUM==0
```

To see the actual values of the rejected packet, start ntpclient with the -d option; this will give a human-readable printout of every packet received, including the rejected ones. To skip these checks, use the -t switch.

test.dat

is suitable for piping into ntpclient -r. I have over 200000 samples (lines) archived for study, that I don't include here.

They are generally spaced 10 minutes apart, representing over three years of data logging (from a variety of machines, and not continuous, unfortunately).

As a special, added bonus, I also include my adjtimex(1) program. See its man page and the HOWTO file for more information.

envelope is a perl script that I have used for my lock studies. It's kind of a hack and not worth documenting here.

Changes since the widely distributed ntpclient_2000_345 version:

-- new -g option (has had limited testing)

-- changed max frequency adjustment from 91 ppm to 150 ppm

- fixed "inconsistent" bug in phaselock.c triggered by large freq errors
- new files: HOWTO, adjtimex.c, adjtimex.1, rate.awk, log2date.pl
- minor source code cleanups
- source is now as 64-bit clean as practical; tested on Alpha
- optional patches provided by Andy Warner, see andyw.patch
- optional patches provided by Linksys, see linksys.patch
- removed unreasonable 15020 day offset in date column (xntpd has this offset, which turns days-since-1900-epoch into Modified Julian Day)

Changes since the widely distributed ntpclient_2003_194 version:

- default build is now -std=c99, but c89 sill works too
- switch default compile from gettimeofday() to POSIX clock_gettime()
- more sanity checking on the NTP reply packet, reference RFC-4330
- fractional second printing in debug output changed to traditional decimal
- new -f switch to set initial frequency
- works to specify both -s and -l, will jump-set first and then phase lock
- bug fix for select() error handling, thanks to Walter Harms
- new man page, contributed by Walter Harms
- most subroutines are now flagged static to the compiler
- structural changes to the code, such as the new ntpclient.h file
- dropped (mostly) obsolete patches from Linksys and Andy Warner

Changes since ntpclient_2006_318:

- adjustable min_delay parameter, used to be hard-coded 800 microseconds
- remove useless listen() call, thanks to Alexander Indenbaum
- fix length passed to recvfrom(), thanks to Alexander Indenbaum
- tidy up 32-bit integer declarations, prodding from Brian McAllister
- added rate2.awk, contributed by Lou Sortman
- provide easy way to override 15 second MIN_INTERVAL at compile time
- relax MIN_INTERVAL enforcement for one-shot use, thanks to Mihai Buha

Changes since ntpclient_2007_365:

- fixed type of sa_xmit_len, thanks vapier
- dropped underscores in spelling of adjtimex(2), might make uClibc happier
- include netdb.h and always define _BSD_SOURCE to get prototype for herror
- minor formatting to align with Nilsson's fork
- add -fno-strict-aliasing as needed by traditional network coding style

Bugs:

- Doesn't understand the LI (Leap second Indicator) field of an NTP packet
- Doesn't interact with adjtimex(2) status value
- Can't query multiple servers
- IPv4 only
- Requires Linux-style select() semantics, where timeout value is modified
- Always returns success (0)

Adherence to RFC-4330 chapter 10, Best practices:

1. enforced, unless someone tinkers with the source code
2. no backoff, but no retry either; this isn't TCP
3. not in scope for the upstream source
4. not in scope for the upstream source
5. not in scope for the upstream source
6. supported
7. not supported
8. not supported (scary opportunity to DOS the _client_)

- Larry Doolittle <larry@doolittle.boa.org>

Found in path(s):

* /opt/cola/permits/1755469597_1693800303.0886743/0/ntpclient-2010-bcm32-tar/ntpclient-2010/README

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

Package: ntpclient

Version: 2010_365-1

Depends: libc, librt, libpthread, libosc, librt

Source: package/network/utils/ntpclient

License: GPL-2.0

Section: net

Maintainer: Ted Hess <thess@kitschensync.net>

Architecture: ax-bcm32

Installed-Size: 12960

Description: NTP client for setting system time from NTP servers.

Found in path(s):

* /opt/cola/permits/1755469597_1693800303.0886743/0/ntpclient-2010-bcm32-tar/ntpclient-2010/ipkg-ax-bcm32/ntpclient/CONTROL/control

1.111 libnettle6 3.5.1

1.111.1 Available under license :

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1.113 cyrus-sasl 2.1.28

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