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In your requests please include the following reference number 78EE117C99-1474669461

Contents

1.1 bash 2.05b

1.1.1 Available under license

1.2 pycparser 2.18

1.2.1 Available under license

1.3 libnfsidmap 0.20

1.3.1 Available under license

1.4 xfsprogs 2.8.16-1

1.4.1 Available under license

1.5 curl 7.62.0

1.5.1 Available under license

1.6 bzip2 1.0.8

1.7 distlib 0.2.4

1.7.1 Available under license

1.8 python-requests 2.11.1

1.8.1 Available under license

1.9 bridgeutils 1.5

1.9.1 Available under license

1.10 nghttp2 1.47.0

1.10.1 Available under license

1.11 pcre 8.41

1.11.1 Available under license

1.12 iputils 20070202

1.12.1 Available under license

1.13 linux_kernel_zlib 2.6.38

1.13.1 Available under license

1.14 bzip2 1.0.6

- 1.14.1 Available under license
- 1.15 liburcu 0.8.6**
 - 1.15.1 Available under license
- 1.16 golang 1.12.4**
 - 1.16.1 Available under license
- 1.17 vpp-papi 1.6.2**
 - 1.17.1 Available under license
- 1.18 libedit 2.1**
 - 1.18.1 Available under license
- 1.19 procps 3.2.6**
 - 1.19.1 Available under license
- 1.20 pam 0.72**
 - 1.20.1 Available under license
- 1.21 netkit-tftp 0.17**
 - 1.21.1 Available under license
- 1.22 python 3.6.1**
 - 1.22.1 Available under license
- 1.23 iconv 2.23**
 - 1.23.1 Available under license
- 1.24 libtommath 0.42.0**
 - 1.24.1 Available under license
- 1.25 iperf 3**
 - 1.25.1 Available under license
- 1.26 python-setuptools 28.8.0**
 - 1.26.1 Available under license
- 1.27 libnl3 3.2.25**
 - 1.27.1 Available under license
- 1.28 open-iscsi 2.0.873**
 - 1.28.1 Available under license
- 1.29 zlib 1.2.8**
 - 1.29.1 Available under license
- 1.30 python-pip 9.0.1**
 - 1.30.1 Available under license
- 1.31 packaging 16.8**
 - 1.31.1 Available under license
- 1.32 erlang-otp 20.3.8.19**
 - 1.32.1 Available under license
- 1.33 rsync 3.1.2**
 - 1.33.1 Available under license

1.34 pigz 2.4

1.34.1 Available under license

1.35 setserial 2.17

1.35.1 Available under license

1.36 html5lib 1.0b10

1.36.1 Available under license

1.37 glibc 2.23

1.37.1 Available under license

1.38 dosfs-tools 2.11

1.38.1 Available under license

1.39 pexpect 4.8.0

1.39.1 Available under license

1.40 zlib 1.2.11

1.40.1 Available under license

1.41 sysv-init 2.78-4

1.41.1 Available under license

1.42 netkit-telnet 0.17

1.42.1 Available under license

1.43 zlib 1.2.3

1.43.1 Available under license

1.44 zopfli 1.2.11

1.44.1 Available under license

1.45 colorama 0.3.7

1.45.1 Available under license

1.46 libmnl 1.0.3

1.46.1 Available under license

1.47 libffi 3.2.1

1.47.1 Available under license

1.48 expat 2.1.1

1.48.1 Available under license

1.49 busybox 1.26.2

1.49.1 Available under license

1.50 libvmtools 10.1.5.6677369

1.50.1 Available under license

1.51 mpdecimal 2.4.2

1.51.1 Available under license

1.52 libusb 1.0.9

1.52.1 Available under license

1.53 libsgutils 1.35

1.53.1 Available under license

1.54 popt 1.5

1.54.1 Available under license

1.55 nfs-utils 1.1.1

1.55.1 Available under license

1.56 gmp 6.0.0

1.56.1 Available under license

1.57 libedit 2.1

1.57.1 Available under license

1.58 sysv-init 2.78

1.58.1 Available under license

1.59 libcap 1.10

1.59.1 Available under license

1.60 openssl 1.0.2k

1.60.1 Notifications

1.60.2 Available under license

1.61 zlib 1.2.7

1.61.1 Available under license

1.62 ptyprocess 0.6.0

1.62.1 Available under license

1.63 pkix-ssh 11.0

1.63.1 Available under license

1.64 zlib 1.2.5

1.64.1 Available under license

1.65 libdnet 1.11

1.65.1 Available under license

1.66 libnuma 2.0.11

1.66.1 Available under license

1.67 libpcap 0.9.2

1.67.1 Available under license

1.68 cffi 1.11.5

1.68.1 Available under license

1.69 ftpd-bsd 0.3.2

1.69.1 Available under license

1.70 glib 2.46.2

1.70.1 Available under license

1.71 chardet 2.3.0

1.71.1 Available under license

1.72 ncurses 6.1

- 1.72.1 Available under license
- 1.73 open-ldap 2.4.33**
 - 1.73.1 Available under license
- 1.74 rdma-core 46mlnx1**
 - 1.74.1 Available under license
- 1.75 ethtool 2.6**
 - 1.75.1 Available under license
- 1.76 packaging 19.2**
 - 1.76.1 Available under license
- 1.77 libtomcrypt 1.17**
 - 1.77.1 Available under license
- 1.78 libxml2 2.9.4**
 - 1.78.1 Available under license

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pycparser -- A C parser in Python

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

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1.5 curl 7.62.0

1.5.1 Available under license :

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1.6 bzip2 1.0.8

1.7 distlib 0.2.4

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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Distutils2 Contributors

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The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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```
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1.10 nhttp2 1.47.0

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set yrange [0:]

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

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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1.11 pcre 8.41

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Written by: Philip Hazel
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1.12 iputils 20070202

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1.13 linux_kernel_zlib 2.6.38

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Hardware I2C

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Radio card (ITT sound processor)

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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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That's all there is to it!

/* 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 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 patching the cable card decoder driver

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for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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Ronny Strutz <3des@elitedvb.de>
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their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>

for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
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)

1.14 bzip2 1.0.6

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Julian Seward, Cambridge, UK.

jseward@acm.org

bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)

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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

*/

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1.15 liburcu 0.8.6

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Mathieu Desnoyers

May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:

<http://lists.casi.polymtl.ca/pipermail/ltt-dev/2009-May/001584.html>

I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009 :

<http://lkml.org/lkml/2009/5/13/16>

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code.

This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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Version 2.1, February 1999

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1.16 golang 1.12.4

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# the appropriate Contributor License Agreement, found here:
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#
# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
# Individual's name <submission email address>
# Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.

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1.17 vpp-papi 1.6.2

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Name: vpp-papi
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1.18 libedit 2.1

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1.19 procps 3.2.6

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1.20 pam 0.72

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1.21 netkit-tftp 0.17

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1.22 python 3.6.1

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A. HISTORY OF THE SOFTWARE

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

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

software.

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

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

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

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

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

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

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```
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1.25 iperf 3

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*

* `stdio.c`

* by Mark Gates <mgates@nlanr.net>

* and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>

* -----

* input and output numbers, converting with kilo, mega, giga

* ----- */

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1.26 python-setuptools 28.8.0

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1.27 libnl3 3.2.25

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1.29 zlib 1.2.8

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

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jloup@gzip.org madler@alumni.caltech.edu

```
*/
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1.30 python-pip 9.0.1

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1.31 packaging 16.8

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1.32 erlang-otp 20.3.8.19

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[PCRE]

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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.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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[Misc C library code]

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*/

[zlib]

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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

*/

[dialyzer]

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[edoc, syntax_tools]

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[eunit]

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[leex]

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[ldap]

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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

Written by: Philip Hazel

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1.39 pexpect 4.8.0

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1.40 zlib 1.2.11

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1.41 sysv-init 2.78-4

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This is the Debian GNU/Linux prepackaged version of System V Init. Init was written by Miquel van Smoorenburg <miquels@drinkel.cistron.nl>.

This package was put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> has integrated debian support into the base package.

Changes:

29-January-1995 Bruce Perens <Bruce@Pixar.com>

Added Debian GNU/Linux package maintenance system files.

25-February-1995 Ian Murdock <imurdock@debian.org>

Finished integration of Sys V Init into the base system.

28-December-1995 Miquel van Smoorenburg <miquels@cistron.nl>

Added debian support to sysvinit.

For further changes see the ChangeLog file.

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1.42 netkit-telnet 0.17

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1.43 zlib 1.2.3

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

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1.44 zopfli 1.2.11

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1.45 colorama 0.3.7

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1.49 busybox 1.26.2

1.49.1 Available under license :

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Version 3, 29 June 2007

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1.50 libvmtools 10.1.5.6677369

1.50.1 Available under license :

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open-vm-tools v10.1.15

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```
>>> cvtutf-1.4
>>> freebsd-1.72
>>> freebsd-base64-4.8
>>> unicode-5.0
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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data

\$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /

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>>> unicode-5.0

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1.53 libsgutils 1.35

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```

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```
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```

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```
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```

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

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1.57 libedit 2.1

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1.64 zlib 1.2.5

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1.67 libpcap 0.9.2

1.67.1 Available under license :

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1.68 cffi 1.11.5

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1.69 ftpd-bsd 0.3.2

1.69.1 Available under license :

```
# $OpenBSD: Makefile,v 1.5 1999/02/23 23:54:16 art Exp $
```

```
PROG= ls
```

```
SRCS= cmp.c stat_flags.c ls.c main.c print.c util.c
```

```
.include <bsd.prog.mk>
```

```
##%PAM-1.0
```

```
auth    required /lib/security/pam_listfile.so item=user sense=deny file=/etc/ftpusers onerr=succeed
```

```
auth    required /lib/security/pam_pwdb.so shadow nullok
```

```
auth    required /lib/security/pam_shells.so
```

```
account required /lib/security/pam_pwdb.so
```

```
session required /lib/security/pam_pwdb.so
```

\$OpenBSD: Makefile,v 1.16 2000/03/01 17:27:28 deraadt Exp \$

\$NetBSD: Makefile,v 1.13 1996/02/16 02:07:41 cgd Exp \$

@(#)Makefile 8.2 (Berkeley) 4/4/94

PROG= ftpd

CFLAGS+=-DHASSETPROCTITLE -Dunix

SRCS= ftpd.c ftpcmd.c logutmp.c logwtmp.c popen.c

MAN= ftpd.8

CLEANFILES+=ftpcmd.c y.tab.h

.include <bsd.own.mk>

our internal version of ls.

LSDIR = \${.CURDIR}/../bin/ls

.PATH: \${LSDIR}

SRCS += ls.c cmp.c print.c stat_flags.c util.c

CFLAGS += -I\${LSDIR}

not really used

CPPFLAGS+=-DINET6

.if (\${SKEY} == "yes")

CFLAGS+=-DSKEY

LDADD+= -lskey

DPADD+= \${LIBSKEY}

.endif

.if (\${KERBEROS} == "yes")

SRCS+= klogin.c

.PATH: \${.CURDIR}/../usr.bin/login

CFLAGS+= -DKERBEROS

LDADD+= -lkafs -lkrb -ldes

DPADD+= \${LIBKRB} \${LIBKRB} \${LIBKAFS}

.endif

.if (\${TCP_WRAPPERS} == "yes")

CFLAGS+=-DTCPWRAPPERS

LDADD+= -lwrap

DPADD+= \${LIBWRAP}

.endif

.include <bsd.prog.mk>

A WARNING ABOUT GMT VS LOCALTIME
to people using ftpd-BSD-0.3.0 to serve anonymous FTP
who consider moving to ftpd-BSD-0.3.1

David A. Madore <david.madore@ens.fr>

(This warning should be included in the ftpd-BSD-0.3.1 distribution, but I discovered this after packaging, and I did not want to repackage, resign the tarball, rebuild the RPMs and resign them. So it will stay as a separate file.)

The FTP protocol is a bit old and does not specify in what format the file listings returned by the LIST and STAT commands are to be given. Traditionally, the Unix `ls` program is run, so it has become the *de facto* standard for the commands' output format; many programs expect this and parse accordingly.

One thing is certainly not specified, and that is whether the time of last modification returned for the files listed is given in local time (the time in the server's time zone) or universal time (UT, aka Greenwich Mean Time or GMT).

Under Linux, the time format returned by the `ctime()` function in the (GNU) `libc` is determined by the contents of the `/etc/localtime` file which can be overridden by the `TZ` environment variable if it exists; if nothing is specified (e.g. if the `/etc/localtime` file does not exist), universal time is used (as is the case if `TZ=GMT`).

Version 0.3.0 of ftpd-BSD used an external `ls` program. In the case of anonymous ftp, this `ls` runs in a `chroot()`ed environment, and it frequently does not have an `/etc/localtime` file on which to rely, so it returns the time in GMT. Version 0.3.1, on the other hand, uses an internal `ls` function, so its time zone is initialized when the ftpd program is run, before the `chroot()` call is made, and the time zone used is typically the computer's local time. This means that simply moving from ftpd-BSD-0.3.0 to ftpd-BSD-0.3.1 without further precaution will offset all the last modification times returned by the LIST and STAT commands. If you live east of Greenwich, this could result in mirror sites needlessly downloading all files, thinking they have changed; if you live west of Greenwich, this could result in mirror sites not downloading files which they should have.

This may very well turn out to be a non-issue. I am not sure exactly how mirroring programs work. If you do not have any mirror sites, or if you use only non-anonymous FTP, the issue is moot.

One workaround is to start ftpd with `TZ=GMT` set. This generally means starting `inetd` with `TZ=GMT`. Beware, though, that environments tend to be inherited quite far, and even `telnetd` will have `TZ=GMT` and if you telnet into your machine you might have universal time instead of local time as you expect (but you can always unset `TZ` or position it as you like, e.g. `TZ=US/Eastern`). Another solution is not to use the

internal ls command (in which case you might as well stick to version 0.3.0). Finally, you can decide to stick to local time, but I do not recommend this as the clients have no way of knowing the server's time zone (personally I think local time is good only when talking to humans, and everything else should always use universal time: this is the strategy taken by the HTTP protocol for example).

I would appreciate it if FTP experts could tell me more about this problem. I have read about Bernstein's easily parsed LIST format (see <http://cr.yp.to/ftp/list/eplf.html> for a description), and I wonder whether it is worth implementing (in particular, whether some clients understand it): I might try contacting the OpenBSD people about this.

--

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<http://www.eleves.ens.fr:8080/home/madore/>)

1.70 glib 2.46.2

1.70.1 Available under license :

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```

#ifndef _PCRE_H
#define _PCRE_H

/* The current PCRE version information. */

#define PCRE_MAJOR      8
#define PCRE_MINOR     31
#define PCRE_PRERELEASE
#define PCRE_DATE       2012-07-06

/* When an application links to a PCRE DLL in Windows, the symbols that are
imported have to be identified as such. When building PCRE, the appropriate
export setting is defined in pcre_internal.h, which includes this file. So we
don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
# ifndef PCRE_EXP_DECL
#  define PCRE_EXP_DECL extern __declspec(dllimport)
# endif
# ifdef __cplusplus
#  ifndef PCRECPP_EXP_DECL
#   define PCRECPP_EXP_DECL extern __declspec(dllimport)
#  endif
#  ifndef PCRECPP_EXP_DEFN
#   define PCRECPP_EXP_DEFN __declspec(dllimport)
#  endif
# endif
#endif

/* By default, we use the standard "extern" declarations. */

#ifndef PCRE_EXP_DECL
# ifdef __cplusplus
#  define PCRE_EXP_DECL extern "C"
# else
#  define PCRE_EXP_DECL extern
# endif
#endif

#ifdef __cplusplus
# ifndef PCRECPP_EXP_DECL
#  define PCRECPP_EXP_DECL extern
# endif
# ifndef PCRECPP_EXP_DEFN
#  define PCRECPP_EXP_DEFN
# endif
#endif

```

```
/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */
```

```
#include <stdlib.h>
```

```
/* Allow for C++ users */
```

```
#ifdef __cplusplus
extern "C" {
#endif
```

```
/* Options. Some are compile-time only, some are run-time only, and some are
both, so we keep them all distinct. However, almost all the bits in the options
word are now used. In the long run, we may have to re-use some of the
compile-time only bits for runtime options, or vice versa. In the comments
below, "compile", "exec", and "DFA exec" mean that the option is permitted to
be set for those functions; "used in" means that an option may be set only for
compile, but is subsequently referenced in exec and/or DFA exec. Any of the
compile-time options may be inspected during studying (and therefore JIT
compiling). */
```

```
#define PCRE_CASELESS      0x00000001 /* Compile */
#define PCRE_MULTILINE    0x00000002 /* Compile */
#define PCRE_DOTALL      0x00000004 /* Compile */
#define PCRE_EXTENDED     0x00000008 /* Compile */
#define PCRE_ANCHORED    0x00000010 /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY 0x00000020 /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA       0x00000040 /* Compile */
#define PCRE_NOTBOL     0x00000080 /* Exec, DFA exec */
#define PCRE_NOTEOL     0x00000100 /* Exec, DFA exec */
#define PCRE_UNGREEDY   0x00000200 /* Compile */
#define PCRE_NOTEMPTY   0x00000400 /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8       0x00000800 /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16     0x00000800 /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE 0x00001000 /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT 0x00004000 /* Compile */
#define PCRE_PARTIAL_SOFT 0x00008000 /* Exec, DFA exec */
#define PCRE_PARTIAL     0x00008000 /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST 0x00010000 /* DFA exec */
#define PCRE_DFA_RESTART 0x00020000 /* DFA exec */
#define PCRE_FIRSTLINE  0x00040000 /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES   0x00080000 /* Compile */
#define PCRE_NEWLINE_CR 0x00100000 /* Compile, exec, DFA exec */
```

```

#define PCRE_NEWLINE_LF      0x00200000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF   0x00300000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY    0x00400000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF 0x00500000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF   0x00800000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE   0x01000000 /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000 /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000 /* Synonym */
#define PCRE_PARTIAL_HARD   0x08000000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x10000000 /* Exec, DFA exec */
#define PCRE_UCP           0x20000000 /* Compile, used in exec, DFA exec */

```

```

/* Exec-time and get/set-time error codes */

```

```

#define PCRE_ERROR_NOMATCH      (-1)
#define PCRE_ERROR_NULL        (-2)
#define PCRE_ERROR_BADOPTION   (-3)
#define PCRE_ERROR_BADMAGIC    (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY    (-6)
#define PCRE_ERROR_NOSUBSTRING (-7)
#define PCRE_ERROR_MATCHLIMIT  (-8)
#define PCRE_ERROR_CALLOUT     (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8     (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16   (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL    (-12)
#define PCRE_ERROR_BADPARTIAL (-13)
#define PCRE_ERROR_INTERNAL   (-14)
#define PCRE_ERROR_BADCOUNT  (-15)
#define PCRE_ERROR_DFA_UITEM  (-16)
#define PCRE_ERROR_DFA_UCOND  (-17)
#define PCRE_ERROR_DFA_UMLIMIT (-18)
#define PCRE_ERROR_DFA_WSSIZE (-19)
#define PCRE_ERROR_DFA_RECURSE (-20)
#define PCRE_ERROR_RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE (-23)
#define PCRE_ERROR_BADOFFSET  (-24)
#define PCRE_ERROR_SHORTUTF8  (-25)
#define PCRE_ERROR_SHORTUTF16 (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE    (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)

```

```
#define PCRE_ERROR_DFA_BADRESTART (-30)
```

```
/* Specific error codes for UTF-8 validity checks */
```

```
#define PCRE_UTF8_ERR0      0
#define PCRE_UTF8_ERR1      1
#define PCRE_UTF8_ERR2      2
#define PCRE_UTF8_ERR3      3
#define PCRE_UTF8_ERR4      4
#define PCRE_UTF8_ERR5      5
#define PCRE_UTF8_ERR6      6
#define PCRE_UTF8_ERR7      7
#define PCRE_UTF8_ERR8      8
#define PCRE_UTF8_ERR9      9
#define PCRE_UTF8_ERR10     10
#define PCRE_UTF8_ERR11     11
#define PCRE_UTF8_ERR12     12
#define PCRE_UTF8_ERR13     13
#define PCRE_UTF8_ERR14     14
#define PCRE_UTF8_ERR15     15
#define PCRE_UTF8_ERR16     16
#define PCRE_UTF8_ERR17     17
#define PCRE_UTF8_ERR18     18
#define PCRE_UTF8_ERR19     19
#define PCRE_UTF8_ERR20     20
#define PCRE_UTF8_ERR21     21
```

```
/* Specific error codes for UTF-16 validity checks */
```

```
#define PCRE_UTF16_ERR0     0
#define PCRE_UTF16_ERR1     1
#define PCRE_UTF16_ERR2     2
#define PCRE_UTF16_ERR3     3
#define PCRE_UTF16_ERR4     4
```

```
/* Request types for pcre_fullinfo() */
```

```
#define PCRE_INFO_OPTIONS    0
#define PCRE_INFO_SIZE       1
#define PCRE_INFO_CAPTURECOUNT 2
#define PCRE_INFO_BACKREFMAX 3
#define PCRE_INFO_FIRSTBYTE  4
#define PCRE_INFO_FIRSTCHAR  4 /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE  5
#define PCRE_INFO_LASTLITERAL 6
#define PCRE_INFO_NAMEENTRYSIZE 7
#define PCRE_INFO_NAMECOUNT  8
#define PCRE_INFO_NAMETABLE   9
```

```

#define PCRE_INFO_STUDYSIZE      10
#define PCRE_INFO_DEFAULT_TABLES 11
#define PCRE_INFO_OKPARTIAL     12
#define PCRE_INFO_JCHANGED      13
#define PCRE_INFO_HASCORLRF     14
#define PCRE_INFO_MINLENGTH     15
#define PCRE_INFO_JIT           16
#define PCRE_INFO_JITSIZE       17
#define PCRE_INFO_MAXLOOKBEHIND 18

```

/* Request types for pcre_config(). Do not re-arrange, in order to remain compatible. */

```

#define PCRE_CONFIG_UTF8          0
#define PCRE_CONFIG_NEWLINE      1
#define PCRE_CONFIG_LINK_SIZE    2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT  4
#define PCRE_CONFIG_STACKRECURSE 5
#define PCRE_CONFIG_UNICODE_PROPERTIES 6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION 7
#define PCRE_CONFIG_BSR          8
#define PCRE_CONFIG_JIT          9
#define PCRE_CONFIG_UTF16       10
#define PCRE_CONFIG_JITTARGET   11

```

/* Request types for pcre_study(). Do not re-arrange, in order to remain compatible. */

```

#define PCRE_STUDY_JIT_COMPILE      0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE 0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE 0x0004

```

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine these bits, just add new ones on the end, in order to remain compatible. */

```

#define PCRE_EXTRA_STUDY_DATA      0x0001
#define PCRE_EXTRA_MATCH_LIMIT     0x0002
#define PCRE_EXTRA_CALLOUT_DATA    0x0004
#define PCRE_EXTRA_TABLES          0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION 0x0010
#define PCRE_EXTRA_MARK            0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT 0x0040

```

/* Types */

```

struct real_pcre;          /* declaration; the definition is private */
typedef struct real_pcre pcre;

```

```

struct real_pcre16;          /* declaration; the definition is private */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */

#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in
such a way as to be extensible. Always add new fields at the end, in order to
remain compatible. */

typedef struct pcre_extra {
  unsigned long int flags; /* Bits for which fields are set */
  void *study_data; /* Opaque data from pcre_study() */
  unsigned long int match_limit; /* Maximum number of calls to match() */
  void *callout_data; /* Data passed back in callouts */
  const unsigned char *tables; /* Pointer to character tables */
  unsigned long int match_limit_recursion; /* Max recursive calls to match() */
  unsigned char **mark; /* For passing back a mark pointer */
  void *executable_jit; /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_extra {
  unsigned long int flags; /* Bits for which fields are set */

```



```

void *study_data;          /* Opaque data from pcre_study() */
unsigned long int match_limit; /* Maximum number of calls to match() */
void *callout_data;       /* Data passed back in callouts */
const unsigned char *tables; /* Pointer to character tables */
unsigned long int match_limit_recursion; /* Max recursive calls to match() */
PCRE_UCHAR16 **mark;      /* For passing back a mark pointer */
void *executable_jit;     /* Contains a pointer to a compiled jit code */
} pcre16_extra;

```

/* The structure for passing out data via the pcre_callout_function. We use a structure so that new fields can be added on the end in future versions, without changing the API of the function, thereby allowing old clients to work without modification. */

```

typedef struct pcre_callout_block {
int    version;          /* Identifies version of block */
/* ----- Version 0 ----- */
int    callout_number;  /* Number compiled into pattern */
int    *offset_vector;  /* The offset vector */
PCRE_SPTR subject;     /* The subject being matched */
int    subject_length;  /* The length of the subject */
int    start_match;     /* Offset to start of this match attempt */
int    current_position; /* Where we currently are in the subject */
int    capture_top;     /* Max current capture */
int    capture_last;    /* Most recently closed capture */
void   *callout_data;   /* Data passed in with the call */
/* ----- Added for Version 1 ----- */
int    pattern_position; /* Offset to next item in the pattern */
int    next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const unsigned char *mark; /* Pointer to current mark or NULL */
/* ----- */
} pcre_callout_block;

```

/* Same structure as above, but with 16 bit char pointers. */

```

typedef struct pcre16_callout_block {
int    version;          /* Identifies version of block */
/* ----- Version 0 ----- */
int    callout_number;  /* Number compiled into pattern */
int    *offset_vector;  /* The offset vector */
PCRE_SPTR16 subject;   /* The subject being matched */
int    subject_length;  /* The length of the subject */
int    start_match;     /* Offset to start of this match attempt */
int    current_position; /* Where we currently are in the subject */
int    capture_top;     /* Max current capture */
int    capture_last;    /* Most recently closed capture */
void   *callout_data;   /* Data passed in with the call */

```

```

/* ----- Added for Version 1 ----- */
int    pattern_position; /* Offset to next item in the pattern */
int    next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const PCRE_UCHAR16 *mark; /* Pointer to current mark or NULL */
/* ----- */
} pcre16_callout_block;

```

/* Indirection for store get and free functions. These can be set to alternative malloc/free functions if required. Special ones are used in the non-recursive case for "frames". There is also an optional callout function that is triggered by the (?) regex item. For Virtual Pascal, these definitions have to take another form. */

```

#ifndef VPCOMPAT
PCRE_EXP_DECL void (*pcre_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_free)(void *);
PCRE_EXP_DECL void (*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_stack_free)(void *);
PCRE_EXP_DECL int (*pcre_callout)(pcre_callout_block *);

```

```

PCRE_EXP_DECL void (*pcre16_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_free)(void *);
PCRE_EXP_DECL void (*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int (*pcre16_callout)(pcre16_callout_block *);

```

```

#else /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void pcre_stack_free(void *);
PCRE_EXP_DECL int pcre_callout(pcre_callout_block *);

```

```

PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE_EXP_DECL void pcre16_free(void *);
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE_EXP_DECL void pcre16_stack_free(void *);
PCRE_EXP_DECL int pcre16_callout(pcre16_callout_block *);
#endif /* VPCOMPAT */

```

/* User defined callback which provides a stack just before the match starts. */

```

typedef pcre_jit_stack (*pcre_jit_callback)(void *);
typedef pcre16_jit_stack (*pcre16_jit_callback)(void *);

```

/* Exported PCRE functions */

```

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,

```

```

    const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
    const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL int pcre_config(int, void *);
PCRE_EXP_DECL int pcre16_config(int, void *);
PCRE_EXP_DECL int pcre_copy_named_substring(const pcre *, const char *,
    int *, int, const char *, char *, int);
PCRE_EXP_DECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_copy_substring(const char *, int *, int, int,
    char *, int);
PCRE_EXP_DECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
    PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_dfa_exec(const pcre *, const pcre_extra *,
    const char *, int, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
    int, int, int, int *, int);
PCRE_EXP_DECL int pcre16_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_fullinfo(const pcre *, const pcre_extra *, int,
    void *);
PCRE_EXP_DECL int pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
    void *);
PCRE_EXP_DECL int pcre_get_named_substring(const pcre *, const char *,
    int *, int, const char *, const char **);
PCRE_EXP_DECL int pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int pcre_get_stringtable_entries(const pcre *, const char *,
    char **, char **);
PCRE_EXP_DECL int pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
    PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int pcre_get_substring(const char *, int *, int, int,
    const char **);
PCRE_EXP_DECL int pcre16_get_substring(PCRE_SPTR16, int *, int, int,
    PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_substring_list(const char *, int *, int,

```

```

    const char ***);
PCRE_EXP_DECL int pcre16_get_substring_list(PCRE_SPTR16, int *, int,
    PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int pcre_refcount(pcre *, int);
PCRE_EXP_DECL int pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXP_DECL int pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
    const unsigned char *);
PCRE_EXP_DECL int pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
    const unsigned char *);
PCRE_EXP_DECL int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
    PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
    pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
    pcre16_jit_callback, void *);

#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* End of pcre.h */
/* GLIB - Library of useful routines for C programming
* Copyright (C) 1995-1997 Peter Mattis, Spencer Kimball and Josh MacDonald
*
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Lesser General Public
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* version 2 of the License, or (at your option) any later version.
*
* This library is distributed in the hope that it will be useful,
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```

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* Lesser General Public License for more details.
*
* You should have received a copy of the GNU Lesser General Public
* License along with this library; if not, see <<http://www.gnu.org/licenses/>>.
*/

/*
* Modified by the GLib Team and others 1997-2000. See the AUTHORS
* file for a list of people on the GLib Team. See the ChangeLog
* files for a list of changes. These files are distributed with
* GLib at <ftp://ftp.gtk.org/pub/gtk/>.
*/

#ifndef __G_LIB_H__

#define __G_LIB_H__

#define __GLIB_H_INSIDE__

#include <glib/galloca.h>

#include <glib/garray.h>

#include <glib/gasyncqueue.h>

#include <glib/gatomic.h>

#include <glib/gbacktrace.h>

#include <glib/gbase64.h>

#include <glib/gbitlock.h>

#include <glib/gbookmarkfile.h>

#include <glib/gbytes.h>

#include <glib/gcharset.h>

#include <glib/gchecksum.h>

#include <glib/gconvert.h>

#include <glib/gdataset.h>

#include <glib/gdate.h>

#include <glib/gdatetime.h>

#include <glib/gdir.h>

#include <glib/genviron.h>

#include <glib/gerror.h>

#include <glib/gfileutils.h>

#include <glib/ggettext.h>

#include <glib/ghash.h>

#include <glib/ghmac.h>

#include <glib/ghook.h>

#include <glib/ghostutils.h>

#include <glib/giochannel.h>

#include <glib/gkeyfile.h>

#include <glib/glist.h>

#include <glib/gmacros.h>

#include <glib/gmain.h>

```
#include <glib/gmappedfile.h>
#include <glib/gmarkup.h>
#include <glib/gmem.h>
#include <glib/gmessages.h>
#include <glib/gnode.h>
#include <glib/goption.h>
#include <glib/gpattern.h>
#include <glib/gpoll.h>
#include <glib/gprimes.h>
#include <glib/gqsort.h>
#include <glib/gquark.h>
#include <glib/gqueue.h>
#include <glib/grand.h>
#include <glib/gregex.h>
#include <glib/gscanner.h>
#include <glib/gsequence.h>
#include <glib/gshell.h>
#include <glib/gslice.h>
#include <glib/gslist.h>
#include <glib/gspawn.h>
#include <glib/gstrfuncs.h>
#include <glib/gstring.h>
#include <glib/gstringchunk.h>
#include <glib/gtestutils.h>
#include <glib/gthread.h>
#include <glib/gthreadpool.h>
#include <glib/gtimer.h>
#include <glib/gtimezone.h>
#include <glib/gtrashstack.h>
#include <glib/gtree.h>
#include <glib/gtypes.h>
#include <glib/gunicode.h>
#include <glib/gurifuncs.h>
#include <glib/gutils.h>
#include <glib/gvarianttype.h>
#include <glib/gvariant.h>
#include <glib/gversion.h>
#include <glib/gversionmacros.h>
#ifdef G_PLATFORM_WIN32
#include <glib/gwin32.h>
#endif

#ifndef G_DISABLE_DEPRECATED
#include <glib/deprecated/gallocator.h>
#include <glib/deprecated/gcache.h>
#include <glib/deprecated/gcompletion.h>
#include <glib/deprecated/gmain.h>
#include <glib/deprecated/grel.h>
```

```
#include <glib/deprecated/gthread.h>
#endif /* G_DISABLE_DEPRECATED */
```

```
#include <glib/glib-autocleanups.h>
```

```
#undef __GLIB_H_INSIDE__
```

```
#endif /* __G_LIB_H__ */
```

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1.71 chardet 2.3.0

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1.72 ncurses 6.1

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-- vile: txtmode file-encoding=utf-8

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-- vile:txtmode fc=72

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Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *

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1.73 open-ldap 2.4.33

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1.77 libtomcrypt 1.17

1.77.1 Available under license :

```
# /*  
# * 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
# */
```

1.78 libxml2 2.9.4

1.78.1 Available under license :

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/*

* hash.c: chained hash tables

*

* Reference: Your favorite introductory book on algorithms

*

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*

* Author: breese@users.sourceforge.net

*/

/*****

*

* \$Id\$

*

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