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Text Part Number: 78EE117C99-1229832158

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1.350 udev 219 57.el7
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1.353 sed 4.2.2 5.el7
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1.360 geo-ip 1.5.0 11.el7
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1.372 audit 2.6.5 3.el7

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1.373 rsyslog 3.16.1

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1.378 iproute 3.10.0 87.el7

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1.379 dhcp 4.2.5 58.el7.centos

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1.382 bind 9.9.4 50.el7

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1.467 memstat 6.18.04-2.el7
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1.474 json-c 1.7.10
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1.489 groff 1.0

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1.641 xorg-server 1.14.2

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1.649 talloc 2.1.14

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1.687 pexpect 4.6.0
1.687.1 Available under license
1.688 docker 18.09.0+git489b8eda6674523df8b82a210399b
1.688.1 Available under license
1.689 lablib-checkboxtree 3.2
1.689.1 Available under license
1.690 procps 3.3.15
1.690.1 Available under license
1.691 procps 3.2.8
1.691.1 Available under license
1.692 shadow 4.6
1.692.1 Available under license
1.693 shadow 4.2.1
1.693.1 Available under license
1.694 libtasn 1.2
1.694.1 Available under license

1.695 cpprest 2.10.6

1.695.1 Available under license

1.696 avahi 0.6

1.696.1 Available under license

1.697 tdb 1.43

1.697.1 Available under license

1.698 golang 1.12

1.698.1 Available under license

1.699 apache-http-server 2.4.51

1.699.1 Available under license

1.700 chardet 3.0.4

1.700.1 Available under license

1.701 webencodings 0.5.1

1.701.1 Available under license

1.702 pyyaml 3.13

1.702.1 Available under license

1.703 libxml 0.18.3.2

1.703.1 Available under license

1.704 base-64 1.0.0

1.704.1 Available under license

1.705 fdisk 2.32.1

1.705.1 Available under license

1.706 bmc-cimc-device-drivers 1.0/1.1-1.0

1.706.1 Available under license

1.707 libcap 2.22-8.el7

1.707.1 Available under license

1.708 berkeley-db 5.3.21-19.el7

1.708.1 Available under license

1.709 raritan-ipmi 1-1

1.709.1 Available under license

1.710 yajl 2.1.0

1.710.1 Available under license

1.711 libiniparser 3.0

1.711.1 Available under license

1.712 chardet 3.0.4

1.712.1 Available under license

1.1 libtomcrypt 1.17

1.1.1 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
#  */
```

1.2 grub 0.97

1.2.1 Available under license :

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1.4 apache-log4j 1.2.15

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1.6 glibc 2.7

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/**

* rijndael-alg-fst.c

*

* @version 3.0 (December 2000)

*

* Optimised ANSI C code for the Rijndael cipher (now AES)

*

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

* @author Paulo Barreto <paulo.barreto@terra.com.br>

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1.14 hdparm 9.32-1

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1.16 tar 1.23

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written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

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1.22 iptables 1.4.19.1

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ppp-2.4.5/include/linux/ppp-comp.h

ppp-2.4.5/include/net/ppp-comp.h

ppp-2.4.5/include/net/ppp_defs.h

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ppp-2.4.5/include/net/pppio.h

ppp-2.4.5/modules/deflate.c

ppp-2.4.5/modules/if_ppp.c

ppp-2.4.5/modules/ppp.c

ppp-2.4.5/modules/ppp_comp.c

ppp-2.4.5/pppdump/deflate.c

ppp-2.4.5/pppdump/ppp-comp.h

ppp-2.4.5/solaris/ppp.c

ppp-2.4.5/solaris/ppp_comp.c

ppp-2.4.5/solaris/ppp_comp_mod.c

ppp-2.4.5/solaris/ppp_mod.c

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ppp-2.4.5/pppd/ccp.c

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ppp-2.4.5/pppd/chap-md5.c

ppp-2.4.5/pppd/chap-md5.h

ppp-2.4.5/pppd/chap-new.c

ppp-2.4.5/pppd/chap-new.h

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ppp-2.4.5/include/linux/if_ppp.h

ppp-2.4.5/include/net/if_ppp.h

ppp-2.4.5/pppd/auth.c

ppp-2.4.5/pppd/fsm.c

ppp-2.4.5/pppd/fsm.h

ppp-2.4.5/pppd/ipcp.c

ppp-2.4.5/pppd/ipcp.h

ppp-2.4.5/pppd/ipv6cp.c

ppp-2.4.5/pppd/ipv6cp.h

ppp-2.4.5/pppd/ipxcp.c

ppp-2.4.5/pppd/ipxcp.h

ppp-2.4.5/pppd/lcp.c

ppp-2.4.5/pppd/lcp.h

ppp-2.4.5/pppd/magic.c

ppp-2.4.5/pppd/magic.h

ppp-2.4.5/pppd/main.c

ppp-2.4.5/pppd/options.c

ppp-2.4.5/pppd/pppd.h

ppp-2.4.5/pppd/session.c

ppp-2.4.5/pppd/sys-linux.c

ppp-2.4.5/pppd/sys-solaris.c

ppp-2.4.5/pppd/tty.c

ppp-2.4.5/pppd/upap.c

ppp-2.4.5/pppd/upap.h

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ppp-2.4.5/pppdump/bsd-comp.c

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ppp-2.4.5/include/net/slcompress.h

ppp-2.4.5/include/net/vjcompress.h

ppp-2.4.5/modules/vjcompress.c

ppp-2.4.5/pppstats/pppstats.c

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ppp-2.4.5/pppd/cbc.c

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ppp-2.4.5/pppd/ipv6cp.h

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ppp-2.4.5/common/zlib.c

ppp-2.4.5/common/zlib.h

ppp-2.4.5/pppdump/zlib.c

ppp-2.4.5/pppdump/zlib.h

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Jean-loup Gailly Mark Adler
gzip@prep.ai.mit.edu
madler@alumni.caltech.edu

ppp-2.4.5/pppd/eui64.c

ppp-2.4.5/pppd/eui64.h

ppp-2.4.5/pppd/ipv6cp.c

ppp-2.4.5/pppd/ipv6cp.h

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ppp-2.4.5/solaris/ppp_ahdlc.c

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ppp-2.4.5/pppd/eap.h

ppp-2.4.5/pppd/srp-entry.c

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* Updated to ppp-2.4.1 by Bernhard Kaindl

*

* Updated to ppp-2.4.2 by David Woodhouse 2004.

* - disconnect method added

* - remove_options() abuse removed.

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ppp-2.4.5/pppd/plugins/rp-pppoe/common.c
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ppp-2.4.5/pppd/plugins/rp-pppoe/discovery.c
ppp-2.4.5/pppd/plugins/rp-pppoe/if.c
ppp-2.4.5/pppd/plugins/rp-pppoe/Makefile.linux
ppp-2.4.5/pppd/plugins/rp-pppoe/pppoe-discovery.c

ppp-2.4.5/pppd/plugins/rp-pppoe/pppoe.h

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ppp-2.4.5/pppd/plugins/radius/avpair.c

ppp-2.4.5/pppd/plugins/radius/clientid.c

ppp-2.4.5/pppd/plugins/radius/config.c

ppp-2.4.5/pppd/plugins/radius/dict.c

ppp-2.4.5/pppd/plugins/radius/includes.h

ppp-2.4.5/pppd/plugins/radius/ip_util.c

ppp-2.4.5/pppd/plugins/radius/lock.c

ppp-2.4.5/pppd/plugins/radius/options.h

ppp-2.4.5/pppd/plugins/radius/pathnames.h

ppp-2.4.5/pppd/plugins/radius/radiusclient.h

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ppp-2.4.5/pppd/plugins/radius/includes.h
ppp-2.4.5/pppd/plugins/radius/ip_util.c
ppp-2.4.5/pppd/plugins/radius/pathnames.h
ppp-2.4.5/pppd/plugins/radius/radiusclient.h
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ppp-2.4.5/pppd/plugins/radius/pathnames.h
ppp-2.4.5/pppd/plugins/radius/radiusclient.h
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[...]

Unix SMB/CIFS implementation.

Samba utility functions

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ppp-2.4.5/pppd/chap_ms.c

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ppp-2.4.5/pppd/pppcrypt.c

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ppp-2.4.5/pppd/session.c

/*

* session.c - PPP session control.

*

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ppp-2.4.5/include/linux/if_pppol2tp.h

/*****

* Linux PPP over L2TP (PPPoL2TP) Socket Implementation (RFC 2661)

*

* This file supplies definitions required by the PPP over L2TP driver

* (pppol2tp.c). All version information wrt this file is located in

* pppol2tp.c

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ppp-2.4.5/pppd/plugins/pppol2tp/l2tp_event.h

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ppp-2.4.5/pppd/plugins/pppol2tp/openl2tp.c

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ppp-2.4.5/pppd/plugins/pppol2tp/pppol2tp.c

/* pppol2tp.c - pppd plugin to implement PPPoL2TP protocol

* for Linux using kernel pppol2tp support.

*

* Requires kernel pppol2tp driver which is integrated into the kernel
* from 2.6.23 onwards. For earlier kernels, a version can be obtained
* from the OpenL2TP project at

- * <http://www.sourceforge.net/projects/openl2tp/>
- *
- * Original by Martijn van Oosterhout <kleptog@svana.org>
- * Modified by jchapman@katalix.com
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1.25 gzip 1.6

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1.26 sed 4.2.2

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1.30 e2fsprogs 1.42.9

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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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Theodore Ts'o
23-June-2007

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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1.32 bzip2 1.0.6

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

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/*

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]

*/

1.33 ethtool 3.9

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1.34 libtool-libltdl 2.4.2

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

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

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

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1.35 dropbear 2013.58

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loginrec.h
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atomicio.c

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1.36 libcroco 0.6.8

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Version 2, June 1991

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We

concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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

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

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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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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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- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>
<name of author>

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.37 cracklib 2.9.1

1.37.1 Available under license :

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

Discussion thread from mailing list archive, with approval from everyone actively

involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

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

Attachments: Message as HTML

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

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

Re: [Cracklib-devel] cracklib license

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

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

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

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

UMR Information Technology Fax: (573) 341-4216

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

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

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

> Mike Frysinger

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

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

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

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan

wrote:

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]

cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
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>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

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

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I

think it is in everyone's

best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

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

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional

code, so whatever licensing y'all come up with is fine

> > by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro

>>> maintainers to get together with Alec in a conversation and come to a

>>> decision as to what licensing scheme y'all want. I haven't really done

>>> much other than cleaning up the packaging and patches and a small

>>> bit of

>>> additional code, so whatever licensing y'all come up with is fine

>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be

>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable

> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,

> GPLv2 with the option of using

the library under a later version of the

> GPL would permit applications which were released under version 3 of the

> GPL to use the library, too, which would be sufficient for the packages

> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

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

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

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

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

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make

> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

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

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

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

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

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

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

From

alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:02 -0500

Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000

Received: from smtp1.srv.mst.edu (131.151.1.43)

by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

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

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

Happy now? :-)

-a

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Version 2.1, February 1999

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^L

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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

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

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

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

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^L

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straightforwardly into another language.

(Hereinafter, translation is included without limitation in the term "modification".)

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

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1.38 binutils 2.24

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That's all there is to it!

1.39 unzip 6.0

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FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-

alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete

core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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- * MoreFiles
- *
- * A collection of File Manager and related routines
- *
- * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
- * with significant code contributions by Nitin Ganatra
- * (Apple Macintosh Developer Technical Support Emeritus)
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- *
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- * Basic encoding and decoding of Macintosh files to the
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Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-

May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code.
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten
and by default
no longer contains any of Mr. Smith's code, Info-ZIP
remains indebted and grateful to him. We hope he finds our contribu-
tions as useful as we have his.

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The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch],
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1.40 free-type 2.5.3

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1.41 ncurses 5.9

1.41.1 Available under license :

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1.42 ipmi-tool 1.8.9

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1.43 runit 2.1.1

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1.44 httpfs2 0.1.4

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```
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 * This 'beam me up, Scotty'-branch of httpfs tries to achieve,
 * that the mount-point-folder behaves as before.
 * But how can you access the original folder after the mount?
 * Answer comes from FuseCompress:
 *   Open the folder before the mount,
 *   keep it open all the time,
 *   make a chdir to it
 *   and always use a relative path.
 * It suffices not to chdir in main() and it's unnecessary to
 * do it in every function. httpfs_init is the right place.
 */
```


*/

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1.45 findutils 4.4.2

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1.46 apr-util 1.5.4

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1.48 ini-parser 3.0

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1.49 libusb 1.0.18

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* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* `admin/check-style.sh`,

admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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<!-- \$Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
version="1.0">

<xsl:template name="isc.copyright.format">
 <xsl:param name="text"/>
 <xsl:value-of select="\$isc.copyright.leader"/>
 <xsl:value-of select="normalize-space(substring-before(\$text, '
'))"/>
 <xsl:text>
</xsl:text>
 <xsl:variable name="rest" select="substring-after(\$text, '
')"/>
 <xsl:if test="translate(\$rest, '	 ', '')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="\$rest"/>
 </xsl:call-template>
 </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
 <xsl:text>

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```
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text> &#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>
```

<!--

- Local variables:
- mode: sgml
- End:

-->

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1.51 net-snmp 5.1

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1.52 libpcap 1.7.3

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1.55 pam 1.2.1

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1.56 apache-http-server 2.4.16

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 * -----
 */
```


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```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
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*/


```

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* -----
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* this stuff is worth it, you can buy me a beer in return.  Poul-Henning Kamp
* -----
*/

```

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For the test\zb.c component:

```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

```
*/
```

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```

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```

For the modules\mappers\mod_imagemap.c component:

"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

For the server\util_md5.c component:


```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
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/*

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* -----
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For the srclib\apr-util\xml\expat\conftools\install-sh component:

install - install a program, script, or datafile
This comes from X11R5 (mit/util/scripts/install.sh).

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#

For the test\zb.c component:

/* ZeusBench V1.01

=====

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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```
=====
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X

    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X

-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css"
/>
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> > <a href="http://httpd.apache.org/">HTTP Server</a> > <a
href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available Languages:
```


 en </p>
</div>

<p class="centered">Apache License

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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

class="section"><h2>Comments</h2><div

class="warning">Notice:
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<script type="text/javascript"><!--<!--<![CDATA[</script><!--<!--

var comments_shortcode = 'httpd';

var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {

d.write('<div id="comments_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;


```
s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortcode + '&page=' + comments_identifier;
```

```
(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
}
else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
}
})(window, document);
//--><![></script></div><div id="footer">
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href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[<!-->
if (typeof(prettyPrint) !== 'undefined') {
    prettyPrint();
}
//--><![></script>
</body></html>
```

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1.57 net-snmp 5.7.3

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1.58 cyrus-sasl 2.1.26 20.e17_2

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1.61 smartmontools 6.4

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1.62 diffutils 3.3

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#!/bin/sh

test-driver - basic testsuite driver script.

scriptversion=2012-06-27.10; # UTC

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1.70 bash 4.2.46 20.el7_2

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From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged
some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcedt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcedt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcedt@armory.com>

Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: <http://www.armory.com/~spcedt/>
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on <ftp.armory.com>; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in
} the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
```


} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey

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Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
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1.71 biosdevname 0.6.2 1.el7

1.71.1 Available under license :

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section 10

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```
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```

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1.73 curl 7.29.0 25.el7.centos

1.73.1 Available under license :

License Mixing with apps, libcurl and Third Party Libraries

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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

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

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

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

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

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

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

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axTLS <http://axtls.sourceforge.net/>

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

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

zlib http://www.gzip.org/zlib/zlib_license.html

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

krb4

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

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

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fbopenssl

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1.74 dhcp 4.2.5 42.el7.centos

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino
<jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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```
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```

```
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1.76 e2fsprogs 1.42.9 7.el7

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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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```

```
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Theodore Ts'o
23-June-2007

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That's all there is to it!

```
#  
# This is a Makefile stub which handles the creation of BSD shared  
# libraries.  
#  
# In order to use this stub, the following makefile variables must be defined.  
#  
# BSDLIB_VERSION = 1.0  
# BSDLIB_IMAGE = libce  
# BSDLIB_MYDIR = et  
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)  
#
```

all:: image

```
real-subdirs:: Makefile  
@echo " MKDIR pic"  
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)  
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```



```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'~`/$(BSD_LIB) $(BSD_LIB))

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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1.77 elfutils 0.163 3.el7

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1.78 ethtool 3.15 2.e17

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1.80 findutils 4.5.11 5.el7

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

1.81 gawk 4.0.2 4.el7

1.81.1 Available under license :

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Appendix: How to Apply These Terms to Your New Libraries

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Ty Coon, President of Vice

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Version 3, 29 June 2007

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stand

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

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

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The

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6. Conveying Non-Source Forms.

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

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Version 3, 29 June 2007

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The

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If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is
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Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not

make a difference.

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- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

=====

Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that

needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are

very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre

p.o.
box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS)
is no longer possible, unfortunately. We are looking for
another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US
checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They
take care of the Canadian sponsors for the children in
Kibaale. KCF forwards 100% of the money to the project in
Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated
because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If

you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift

code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is

the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

1.102 xz 5.1.2 12alpha.el7

1.102.1 Available under license :

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Version 2, June 1991

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```
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1.103 zip 3.0 10.e17

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RECORD

Carriage_Control carriage_return

Format stream_if

1.104 zlib 1.2.7 15.el7

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1.105 util-linux 2.23.2 26.el7_2.3

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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
--------	------	-------	-----	--------	----	--------

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023

bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux
__ts_dev__2		4096	20479	8192	a5	FreeBSD

Create default BSD

2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
c:	4096	20479	16384	unused	0	0	
d:	0						
	16064	16065	unused		0	0	

BSD disklabel command (m for help):

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
a:	4096	6144	2049	4.2BSD	0	0	0
c:	4096	20479	16384	unused	0	0	
d:	0	16064	16065	unused	0	0	

BSD disklabel command (m for help):

Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

0	unused	5	4.1BSD	9	4.4LFS	d	boot
1	swap						
	6	Eighth Edition	a	unknown	e	ADOS	
2	Version 6	7	4.2BSD	b	HPFS	f	HFS
3	Version 7	8	MS-DOS	c	ISO-9660	10	AdvFS
4	System V						

BSD disklabel command (m for help):

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1.106 usb-modeswitch 1.2.7 6.el7

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1.112 openssl 1.0.2j

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1.115 pam 1.3.0

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1.116 libpcap 1.8.1

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1.117 python 2.7.12

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"" robotparser.py

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#-----  
#  
# Module Name: dbShelve.py  
#  
# Description: A reimplementation of the standard shelve.py that  
#              forces the use of cPickle, and DB.  
#  
# Creation Date: 11/3/97 3:39:04PM  
#  
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/* -----
```

unicodedata -- Provides access to the Unicode 5.1 data base.

Data was extracted from the Unicode 5.1 UnicodeData.txt file.

Written by Marc-Andre Lemburg (mal@lemburg.com).

Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)

Modified by Martin v. L"wis (martin@v.loewis.de)

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/* Random objects */

/* -----

The code in this module was based on a download from:

<http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html>

It was modified in 2002 by Raymond Hettinger as follows:

- * the principal computational lines untouched except for tabbing.
- * renamed `genrand_res53()` to `random_random()` and wrapped in python calling/return code.
- * `genrand_int32()` and the helper functions, `init_genrand()` and `init_by_array()`, were declared static, wrapped in Python calling/return code. also, their global data references were replaced with structure references.
- * unused functions from the original were deleted.
new, original C python code was added to implement the `Random()` interface.

The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
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Any feedback is very welcome.

<http://www.math.keio.ac.jp/matumoto/emt.html>

email: matumoto@math.keio.ac.jp

*/

A. HISTORY OF THE SOFTWARE

=====

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

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

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

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1.3 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				
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# Table format: Format A
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# implied.
# subprocess - Subprocesses with accessible I/O streams
#

```



```
# For more information about this module, see PEP 324.
#
# This module should remain compatible with Python 2.2, see PEP 291.
#
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----- */
/* -----
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----- */

```
# ElementTree
# $Id: ElementInclude.py 1862 2004-06-18 07:31:02Z Fredrik $
#
# limited xinclude support for element trees
#
# history:
# 2003-08-15 fl created
# 2003-11-14 fl fixed default loader
#
# Copyright (c) 2003-2004 by Fredrik Lundh. All rights reserved.
#
# fredrik@pythonware.com
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install - install a program, script, or datafile

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#
# $Id: test_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea $
# Original version written by Greg Stein (gstein@lyra.org)
#      and Bill Tutt (rassilon@lima.mudlib.org)
# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
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IA64/unix Foreign Function Interface

Original author: Hans Boehm, HP Labs

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re-compatible interface for the sre matching engine

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Mersenne Twister

The :mod:'_random' module includes code based on a download from <http://www.math.keio.ac.jp/matsumoto/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
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Any feedback is very welcome.
<http://www.math.keio.ac.jp/matumoto/emt.html>
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Sockets

The `:mod:'socket'` module uses the functions, `:func:'getaddrinfo'`, and `:func:'getnameinfo'`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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Floating point exception control

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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1.127 libusb 1.0.19

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/* number.c: Implements arbitrary precision numbers. */
/*

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*****/

```
#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h> /* Prototypes needed for external utility routines. */
```

```
#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory
```

```
_PROTOTYPE(void rt_warn, (char *mesg ,...));
_PROTOTYPE(void rt_error, (char *mesg ,...));
_PROTOTYPE(void out_of_memory, (void));
```

```
/* Storage used for special numbers. */
```

```
bc_num _zero_;
bc_num _one_;
bc_num _two_;
```

```
static bc_num _bc_Free_list = NULL;
```

```
/* new_num allocates a number and sets fields to known values. */
```

```
bc_num
bc_new_num (length, scale)
    int length, scale;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
```



```

temp->n_ptr = (char *) malloc (length+scale);
if (temp->n_ptr == NULL) bc_out_of_memory();
temp->n_value = temp->n_ptr;
memset (temp->n_ptr, 0, length+scale);
return temp;
}

/* "Frees" a bc_num NUM.  Actually decreases reference count and only
   frees the storage if reference count is zero. */

```

```

void
bc_free_num (num)
    bc_num *num;
{
    if (*num == NULL) return;
    (*num)->n_refs--;
    if ((*num)->n_refs == 0) {
        if ((*num)->n_ptr)
            free ((*num)->n_ptr);
        (*num)->n_next = _bc_Free_list;
        _bc_Free_list = *num;
    }
    *num = NULL;
}

```

```

/* Initialize the number package! */

```

```

void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
    _one_ = bc_new_num (1,0);
    _one_->n_value[0] = 1;
    _two_ = bc_new_num (1,0);
    _two_->n_value[0] = 2;
}

```

```

/* Make a copy of a number!  Just
   increments the reference count! */

```

```

bc_num
bc_copy_num (num)
    bc_num num;
{
    num->n_refs++;
    return num;
}

```



```

}

/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)
    bc_num *num;
{
    *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.
   _bc_rm_leading_zeros just moves the data "value" pointer to the
   correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
    /* We can move n_value to point to the first non zero digit! */
    while (*num->n_value == 0 && num->n_len > 1) {
        num->n_value++;
        num->n_len--;
    }
}

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less
   than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just
   compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
    int ignore_last;
{
    char *n1ptr, *n2ptr;
    int count;

    /* First, compare
       signs. */
    if (use_sign && n1->n_sign != n2->n_sign)
    {
        if (n1->n_sign == PLUS)
            return (1); /* Positive N1 > Negative N2 */
        else

```



```

return (-1); /* Negative N1 < Positive N1 */
}

/* Now compare the magnitude. */
if (n1->n_len != n2->n_len)
{
    if (n1->n_len > n2->n_len)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}

/* If we get here, they have the same number of integer digits.
   check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
{
    n1ptr++;
    n2ptr++;
    count--;
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
    return (0);
if (count !=
0)
{
    if (*n1ptr > *n2ptr)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }

```



```

    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale-n2->n_scale; count>0; count--)
            if (*n1ptr++ != 0)
            {
                /* Magnitude of n1 > n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (1);
                else
                    return (-1);
            }
    }
    else
    {
        for (count = n2->n_scale-n1->n_scale; count>0; count--)
            if (*n2ptr++ != 0)
            {
                /* Magnitude of n1 < n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (-1);
                else
                    return (1);
            }
    }
}

/* They must be equal! */
return (0);
}

/* This is the "user callable" routine to compare numbers
N1 and N2. */

```



```

int
bc_compare (n1, n2)
    bc_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    bc_num num;
{
    return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    bc_num num;
{
    int count;
    char *nptr;

    /* Quick check. */
    if (num == _zero_) return TRUE;

    /* Initialize */
    count = num->n_len + num->n_scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0)
        return FALSE;
    else
        return TRUE;
}

/* In some places we need to check if the number NUM is almost zero.
   Specifically, all but the last digit is 0 and the last digit is 1.
   Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;

```



```

    int scale;
{
    int count;
    char *nptr;

    /* Error checking */
    if (scale > num->n_scale)
        scale = num->n_scale;

    /* Initialize */
    count = num->n_len + scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0 && (count != 1 || *--nptr != 1))
        return FALSE;
    else
        return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is
   returned. The signs of N1 and N2 are ignored.
   SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
    char *n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
    int count;

    /* Prepare sum. */
    sum_scale = MAX (n1->n_scale, n2->n_scale);
    sum_digits = MAX (n1->n_len, n2->n_len) + 1;
    sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > sum_scale)
    {
        sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
        for (count = scale_min - sum_scale; count > 0; count--)

```



```

*sumptr++
= 0;
}

/* Start with the fraction part. Initialize the pointers. */
n1bytes = n1->n_scale;
n2bytes = n2->n_scale;
n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part. First copy the longer fraction.*/
if (n1bytes != n2bytes)
{
    if (n1bytes > n2bytes)
while (n1bytes>n2bytes)
    { *sumptr-- = *n1ptr--; n1bytes--;}
    else
while (n2bytes>n1bytes)
    { *sumptr-- = *n2ptr--; n2bytes--;}
}

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
{
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
carry = 0;
    sumptr--;
    n1bytes--;
    n2bytes--;
}

/* Now add carry the
longer integer part. */
if (n1bytes == 0)
    { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
{
    *sumptr = *n1ptr-- + carry;

```



```

        if (*sumptr > (BASE-1))
        {
            carry = 1;
            *sumptr -= BASE;
        }
        else
        carry = 0;
        sumptr--;
    }

    /* Set final carry. */
    if (carry == 1)
        *sumptr += 1;

    /* Adjust sum and return. */
    _bc_rm_leading_zeros (sum);
    return sum;
}

/* Perform subtraction: N2 is subtracted from N1 and the value is
   returned. The signs of N1 and N2 are ignored. Also, N1 is
   assumed to be larger than N2. SCALE_MIN is the minimum scale
   of the result. */

static bc_num
_bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num diff;
    int diff_scale, diff_len;
    int min_scale, min_len;
    char *n1ptr, *n2ptr, *diffptr;
    int borrow, count, val;

    /* Allocate temporary storage. */
    diff_len = MAX (n1->n_len, n2->n_len);
    diff_scale = MAX (n1->n_scale, n2->n_scale);
    min_len = MIN (n1->n_len, n2->n_len);
    min_scale = MIN (n1->n_scale, n2->n_scale);
    diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > diff_scale)
    {
        diffptr = (char *) (diff->n_value + diff_len + diff_scale);
        for (count = scale_min - diff_scale; count > 0; count--)

```



```

*diffptr++ = 0;
}

/* Initialize the subtract. */
n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale - 1);
diffptr = (char *) (diff->n_value + diff_len + diff_scale - 1);

/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
{
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
        *diffptr-- = *n1ptr--;
}
else
{
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
    {
        val = - *n2ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
            borrow = 0;
        *diffptr-- = val;
    }
}

/* Now do the equal length scale and integer parts. */

for (count = 0; count < min_len + min_scale; count++)
{
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
    {
        val += BASE;
        borrow = 1;
    }
    else
        borrow = 0;
}

```



```

    *diffptr-- = val;
}

/* If n1 has more digits than n2, we now do that subtract. */
if (diff_len != min_len)
{
    for (count = diff_len - min_len; count > 0; count--)
    {
        val = *n1ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
            borrow = 0;
        *diffptr-- = val;
    }
}

/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;
}

/* Here is the full subtract routine that takes care of negative numbers.
N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN
is the minimum scale for the result. */

void
bc_sub (n1, n2, result, scale_min)

    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign != n2->n_sign)
    {
        diff = _bc_do_add (n1, n2, scale_min);
        diff->n_sign = n1->n_sign;
    }
    else
    {
        /* subtraction must be done. */

```



```

/* Compare magnitudes. */
cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
switch (cmp_res)
{
case -1:
/* n1 is less than n2, subtract n1 from n2. */
diff = _bc_do_sub (n2, n1, scale_min);
diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
break;
case 0:
/* They are equal! return zero! */
res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
diff = bc_new_num (1, res_scale);
memset (diff->n_value, 0, res_scale+1);
break;
case 1:
/* n2 is less than n1, subtract n2 from n1. */
diff = _bc_do_sub (n1, n2, scale_min);
diff->n_sign = n1->n_sign;
break;
}
}

/* Clean up and return. */
bc_free_num (result);
*result = diff;
}

/* Here is the
full add routine that takes care of negative numbers.
N1 is added to N2 and the result placed into RESULT. SCALE_MIN
is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num sum = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign == n2->n_sign)
    {
        sum = _bc_do_add (n1, n2, scale_min);
        sum->n_sign = n1->n_sign;
    }
}

```



```

else
{
    /* subtraction must be done. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
    switch (cmp_res)
    {
case -1:
    /* n1 is less than n2, subtract n1 from n2. */
    sum = _bc_do_sub (n2, n1, scale_min);
    sum->n_sign = n2->n_sign;
    break;
case 0:
    /* They are equal! return zero with the correct scale! */
    res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
    sum = bc_new_num (1, res_scale);
    memset (sum->n_value, 0, res_scale+1);
    break;
case 1:
    /* n2 is less than n1, subtract n2 from
n1. */
    sum = _bc_do_sub (n1, n2, scale_min);
    sum->n_sign = n1->n_sign;
    }
    }

    /* Clean up and return. */
    bc_free_num (result);
    *result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#ifdef MULDIGITS
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
{
    bc_num temp;

```



```

if (_bc_Free_list != NULL) {
    temp = _bc_Free_list;
    _bc_Free_list = temp->n_next;
} else {
    temp = (bc_num) malloc (sizeof(bc_struct));
    if (temp == NULL) bc_out_of_memory ();
}
temp->n_sign = PLUS;
temp->n_len = length;
temp->n_scale = scale;
temp->n_refs = 1;
temp->n_ptr = NULL;
temp->n_value = value;
return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
             int full_scale)
{
    char *n1ptr, *n2ptr, *pvptr;
    char *n1end, *n2end; /* To the end of n1 and n2. */
    int indx, sum, prodlen;

    prodlen = n1len+n2len+1;

    *prod = bc_new_num (prodlen, 0);

    n1end = (char *) (n1->n_value + n1len - 1);
    n2end = (char *) (n2->n_value + n2len - 1);
    pvptr = (char *) ((*prod)->n_value + prodlen - 1);
    sum = 0;

    /* Here is the loop... */
    for (indx = 0; indx < prodlen-1; indx++)
    {
        n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
        n2ptr = (char *) (n2end - MIN(indx, n2len-1));
        while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
            sum += *n1ptr-- * *n2ptr++;
        *pvptr-- = sum % BASE;
        sum = sum / BASE;
    }
    *pvptr = sum;
}

```



```

/* A special adder/subtractor for the recursive divide and conquer
multiply algorithm. Note: if sub is called, accum must
be larger than what is being subtracted. Also, accum and val
must have n_scale = 0. (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int
shift, int sub)
{
    signed char *accp, *valp;
    int count, carry;

    count = val->n_len;
    if (val->n_value[0] == 0)
        count--;
    assert (accum->n_len+accum->n_scale >= shift+count);

    /* Set up pointers and others */
    accp = (signed char *) (accum->n_value +
        accum->n_len + accum->n_scale - shift - 1);
    valp = (signed char *) (val->n_value + val->n_len - 1);
    carry = 0;

    if (sub) {
        /* Subtraction, carry is really borrow. */
        while (count--) {
            *accp -= *valp-- + carry;
            if (*accp < 0) {
                carry = 1;
                *accp-- += BASE;
            } else {
                carry = 0;
            }
            accp--;
        }
        while (carry) {
            *accp -= carry;
            if (*accp < 0)
                *accp-- += BASE;
            else
                carry = 0;
        }
    } else {
        /* Addition */
        while (count--) {
            *accp += *valp-- + carry;
            if (*accp > (BASE-1)) {
                carry = 1;
                *accp-- -= BASE;
            }
        }
    }
}

```



```

    } else {
carry = 0;
accp--;
    }
}
while (carry) {
    *accp += carry;
    if (*accp > (BASE-1))
*accp--
-= BASE;
    else
carry = 0;
}
}
}

```

/* Recursive divide and conquer multiply algorithm.

Based on

Let $u = u_0 + u_1 \cdot (b^n)$

Let $v = v_0 + v_1 \cdot (b^n)$

Then $uv = (B^{2n} + B^n) \cdot u_1 \cdot v_1 + B^n \cdot (u_1 - u_0) \cdot (v_0 - v_1) + (B^{n+1}) \cdot u_0 \cdot v_0$

B is the base of storage, number of digits in u_1, u_0 close to equal.

*/

static void

_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
int full_scale)

```

{
    bc_num u0, u1, v0, v1;
    int u0len, v0len;
    bc_num m1, m2, m3, d1, d2;
    int n, prodlen, m1zero;
    int d1len, d2len;

```

/* Base case? */

```

if ((ulen+vlen) < mul_base_digits
    || ulen < MUL_SMALL_DIGITS
    || vlen < MUL_SMALL_DIGITS ) {
    _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
    return;
}

```

/* Calculate n -- the u and v split point in digits. */

$n = (\text{MAX}(\text{ulen}, \text{vlen}) + 1) / 2;$

/* Split u and v. */

```

if (ulen < n) {
    u1 = bc_copy_num (_zero_);

```



```

    u0 = new_sub_num (ulen,0, u->n_value);
} else {
    u1 = new_sub_num (ulen-n, 0, u->n_value);
    u0 =
new_sub_num (n, 0, u->n_value+ulen-n);
}
if (vlen < n) {
    v1 = bc_copy_num (_zero_);
    v0 = new_sub_num (vlen,0, v->n_value);
} else {
    v1 = new_sub_num (vlen-n, 0, v->n_value);
    v0 = new_sub_num (n, 0, v->n_value+vlen-n);
}
_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0->n_len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */

bc_init_num(&d1);
bc_init_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
    m2 = bc_copy_num (_zero_);
else
    _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
    _bc_rec_mul

```



```

(u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
    _bc_shift_addsub (*prod, m1, 2*n, 0);
    _bc_shift_addsub (*prod, m1, n, 0);
}
_bc_shift_addsub (*prod, m3, n, 0);
_bc_shift_addsub (*prod, m3, 0, 0);
_bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);
bc_free_num (&d1);
bc_free_num (&d2);
}

/* The multiply routine. N2 times N1 is put int PROD with the scale of
the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
*/

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;

    /* Initialize things. */
    len1 = n1->n_len + n1->n_scale;
    len2 = n2->n_len + n2->n_scale;
    full_scale
    = n1->n_scale + n2->n_scale;
    prod_scale = MIN(full_scale, MAX(scale, MAX(n1->n_scale, n2->n_scale)));

    /* Do the multiply */
    _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

```



```

/* Assign to prod and clean up the number. */
pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
pval->n_value = pval->n_ptr;
pval->n_len = len2 + len1 + 1 - full_scale;
pval->n_scale = prod_scale;
_bc_rm_leading_zeros (pval);
if (bc_is_zero (pval))
    pval->n_sign = PLUS;
bc_free_num (prod);
*prod = pval;
}

```

/* Some utility routines for the divide: First a one digit multiply.
 NUM (with SIZE digits) is multiplied by DIGIT and the result is
 placed into RESULT. It is written so that NUM and RESULT can be
 the same pointers. */

```

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
    int carry, value;
    unsigned char *nptr, *rptr;

    if (digit == 0)
        memset (result, 0, size);
    else
    {
        if
        (digit == 1)
            memcpy (result, num, size);
        else
        {
            /* Initialize */
            nptr = (unsigned char *) (num+size-1);
            rptr = (unsigned char *) (result+size-1);
            carry = 0;

            while (size-- > 0)
            {
                value = *nptr-- * digit + carry;
                *rptr-- = value % BASE;
                carry = value / BASE;
            }

```



```

    if (carry != 0) *rptr = carry;
}
}
}

```

/* The full division routine. This computes N1 / N2. It returns 0 if the division is ok and the result is in QUOT. The number of digits after the decimal point is SCALE. It returns -1 if division by zero is tried. The algorithm is found in Knuth Vol 2. p237. */

```

int
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
    bc_num qval;
    unsigned char *num1, *num2;
    unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
    int scale1, val;
    unsigned int len1, len2, scale2, qdigits, extra, count;
    unsigned int qdig, qguess, borrow, carry;
    unsigned char *mval;
    char zero;
    unsigned int norm;

    /* Test
    for divide by zero. */
    if (bc_is_zero (n2)) return -1;

    /* Test for divide by 1. If it is we must truncate. */
    if (n2->n_scale == 0)
    {
        if (n2->n_len == 1 && *n2->n_value == 1)
        {
            qval = bc_new_num (n1->n_len, scale);
            qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
            memset (&qval->n_value[n1->n_len], 0, scale);
            memcpy (qval->n_value, n1->n_value,
                n1->n_len + MIN(n1->n_scale, scale));
            bc_free_num (quot);
            *quot = qval;
        }
    }

    /* Set up the divide. Move the decimal point on n1 by n2's scale.
    Remember, zeros on the end of num2 are wasted effort for dividing. */
    scale2 = n2->n_scale;

```



```

n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
    extra = scale - scale1;
else
    extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();

memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
{
    n2ptr++;
    len2--;
}

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
{
    qdigits = scale+1;
    zero = TRUE;
}
else
{
    zero = FALSE;
    if (len2 > len1)
qdigits = scale+1; /* One for the zero integer part. */
    else
qdigits = len1-len2+scale+1;
}

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale,scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);

```



```

if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
{
    /* Normalize
    */
    norm = 10 / ((int)*n2ptr + 1);
    if (norm != 1)
    {
        _one_mult (num1, len1+scale1+extra+1, norm, num1);
        _one_mult (n2ptr, len2, norm, n2ptr);
    }

    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
qptr = (unsigned char *) qval->n_value+len2-len1;
    else
qptr = (unsigned char *) qval->n_value;

    /* Loop */
    while (qdig <= len1+scale-len2)
    {
        /* Calculate the quotient digit guess. */
        if (*n2ptr == num1[qdig])
            qguess = 9;
        else
            qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

        /* Test qguess. */
        if (n2ptr[1]*qguess >
            (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
            + num1[qdig+2])
        {
            qguess--;
            /* And again. */
            if (n2ptr[1]*qguess >
                (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
                + num1[qdig+2])
            qguess--;
        }

        /* Multiply and subtract. */
        borrow = 0;
        if (qguess != 0)
        {
            *mval = 0;

```



```

_one_mult (n2ptr, len2, qguess, mval+1);

ptr1 = (unsigned char *) num1+qdig+len2;
ptr2 = (unsigned char *) mval+len2;
for (count = 0; count < len2+1; count++)
{
    val = (int) *ptr1 - (int) *ptr2-- - borrow;
    if (val < 0)
    {
        val += 10;
        borrow = 1;
    }
    else
        borrow = 0;
    *ptr1-- = val;
}

/* Test for negative result. */
if (borrow == 1)
{
    qguess--;
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
    {
        val = (int) *ptr1 + (int) *ptr2-- + carry;
        if (val > 9)
        {
            val -= 10;
            carry = 1;
        }
        else
            carry = 0;
        *ptr1-- = val;
    }
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
}

/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;
}

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );

```



```

if (bc_is_zero (qval)) qval->n_sign
= PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0; /* Everything is OK. */
}

```

```

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and
NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT
is NULL then that store will be omitted.
*/

```

```

int
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;
    int scale;
{
    bc_num quotient = NULL;
    bc_num temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero (num2)) return -1;

    /* Calculate final scale. */
    rscale = MAX (num1->n_scale, num2->n_scale+scale);
    bc_init_num(&temp);

    /* Calculate it. */
    bc_divide (num1, num2, &temp, scale);
    if (quot)
        quotient = bc_copy_num (temp);
    bc_multiply (temp, num2, &temp, rscale);
    bc_sub (num1, temp, rem, rscale);
    bc_free_num (&temp);

    if (quot)
    {
        bc_free_num (quot);
    }
}

```



```

    *quot = quotient;
}

return 0; /* Everything is OK. */
}

/* Modulo for numbers. This computes NUM1 % NUM2 and puts the
result in RESULT. */

int
bc_modulo (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD. The result is
placed in RESULT. If a EXPO is not an integer,
only the integer part is used. */

int
bc_raisemod (base, expo, mod, result, scale)
    bc_num base, expo, mod, *result;
    int scale;
{
    bc_num power, exponent, parity, temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero(mod)) return -1;
    if (bc_is_neg(expo)) return -1;

    /* Set initial values. */
    power = bc_copy_num (base);
    exponent = bc_copy_num (expo);
    temp = bc_copy_num (_one_);
    bc_init_num(&parity);

    /* Check the base for scale digits. */
    if (base->n_scale != 0)
        bc_rt_warn ("non-zero scale in base");

    /* Check
the exponent for scale digits. */
    if (exponent->n_scale != 0)
    {

```



```

    bc_rt_warn ("non-zero scale in exponent");
    bc_divide (exponent, _one_, &exponent, 0); /*truncate */
}

/* Check the modulus for scale digits. */
if (mod->n_scale != 0)
    bc_rt_warn ("non-zero scale in modulus");

/* Do the calculation. */
rscale = MAX(scale, base->n_scale);
while ( !bc_is_zero(exponent) )
{
    (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
    if ( !bc_is_zero(parity) )
    {
        bc_multiply (temp, power, &temp, rscale);
        (void) bc_modulo (temp, mod, &temp, scale);
    }

    bc_multiply (power, power, &power, rscale);
    (void) bc_modulo (power, mod, &power, scale);
}

/* Assign the value. */
bc_free_num (&power);
bc_free_num (&exponent);
bc_free_num (result);
*result = temp;
return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT.
Maximum exponent is LONG_MAX. If a NUM2 is not an
integer,
only the integer part is used. */

void
bc_raise (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    bc_num temp, power;
    long exponent;
    int rscale;
    int pwrscale;
    int calcscale;
    char neg;

```



```

/* Check the exponent for scale digits and convert to a long. */
if (num2->n_scale != 0)
    bc_rt_warn ("non-zero scale in exponent");
exponent = bc_num2long (num2);
if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
    bc_rt_error ("exponent too large in raise");

/* Special case if exponent is a zero. */
if (exponent == 0)
{
    bc_free_num (result);
    *result = bc_copy_num (_one_);
    return;
}

/* Other initializations. */
if (exponent < 0)
{
    neg = TRUE;
    exponent = -exponent;
    rscale = scale;
}
else
{
    neg = FALSE;
    rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
}

/* Set initial value of temp. */
power = bc_copy_num (num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    exponent = exponent >> 1;
}
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
        calcscale = pwrscale + calcscale;
    }
}

```



```

bc_multiply (temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
}

/* Assign the value. */
if (neg)
{
    bc_divide (_one_, temp, result, rscale);
    bc_free_num (&temp);
}
else
{
    bc_free_num (result);
    *result = temp;
    if ((*result)->n_scale > rscale)
(*result)->n_scale = rscale;
}
bc_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits
after the
decimal place. */

int
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
    int rscale, cmp_res, done;
    int cscale;
    bc_num guess, guess1, point5, diff;

/* Initial checks. */
    cmp_res = bc_compare (*num, _zero_);
    if (cmp_res < 0)
        return 0; /* error */
    else
    {
        if (cmp_res == 0)
        {
            bc_free_num (num);
            *num = bc_copy_num (_zero_);
            return 1;
        }
    }
    cmp_res = bc_compare (*num, _one_);

```



```

if (cmp_res == 0)
{
    bc_free_num (num);
    *num = bc_copy_num (_one_);
    return 1;
}

/* Initialize the variables. */
rscale = MAX (scale, (*num)->n_scale);
bc_init_num(&guess);
bc_init_num(&guess1);
bc_init_num(&diff);
point5 = bc_new_num (1,1);
point5->n_value[1] = 5;

/* Calculate the initial guess. */
if (cmp_res < 0)
{
    /* The number is between 0 and 1. Guess should start at 1. */
    guess = bc_copy_num (_one_);
    cscale = (*num)->n_scale;
}
else
{
    /* The number is greater than 1. Guess should
start at 10^(exp/2). */
    bc_int2num (&guess,10);

    bc_int2num (&guess1,(*num)->n_len);
    bc_multiply (guess1, point5, &guess1, 0);
    guess1->n_scale = 0;
    bc_raise (guess, guess1, &guess, 0);
    bc_free_num (&guess1);
    cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
    bc_divide (*num, guess, &guess, cscale);
    bc_add (guess, guess1, &guess, 0);
    bc_multiply (guess, point5, &guess, cscale);
    bc_sub (guess, guess1, &diff, cscale+1);
    if (bc_is_near_zero (diff, cscale))

```



```

{
    if (cscale < rscale+1)
        cscale = MIN (cscale*3, rscale+1);
    else
        done = TRUE;
}
}

/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess,_one_,num,rscale);
bc_free_num (&guess);
bc_free_num (&guess1);
bc_free_num (&point5);
bc_free_num (&diff);
return 1;
}

/* The following routines
provide output for bcd numbers package
using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
    long digit;
    struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";

/* A special output routine for "multi-character digits." Exactly
SIZE characters must be output for the value VAL. If SPACE is
non-zero, we must output one space before the number. OUT_CHAR
is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{

```



```

char digits[40];
int len, ix;

if (space) (*out_char) (' ');
sprintf (digits, "%ld", val);
len = strlen (digits);
while (size > len)
{
    (*out_char) ('0');
    size--;
}
for (ix=0; ix < len; ix++)
    (*out_char) (digits[ix]);
}

/*
Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR
as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
{
    char *nptr;
    int index, fdigit, pre_space;
    stk_rec *digits, *temp;
    bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

    /* The negative sign if needed. */
    if (num->n_sign == MINUS) (*out_char) ('-');

    /* Output the number. */
    if (bc_is_zero (num))
        (*out_char) ('0');
    else
        if (o_base == 10)
            {
                /* The number is in base 10, do it the fast way. */
                nptr = num->n_value;
                if (num->n_len > 1 || *nptr != 0)
                    for (index=num->n_len; index>0; index--)

```



```

    (*out_char) (BCD_CHAR(*nptr++));
else
    nptr++;

if (leading_zero && bc_is_zero (num))
    (*out_char) ('0');

/* Now the fraction. */
if (num->n_scale > 0)
{
    (*out_char) ('.');
    for (index=0; index<num->n_scale; index++)
        (*out_char) (BCD_CHAR(*nptr++));
}
else
{
    /* special case ... */
    if (leading_zero && bc_is_zero (num))
        (*out_char) ('0');

    /* The number is some other base. */
    digits = NULL;
    bc_init_num (&int_part);
    bc_divide (num, _one_, &int_part, 0);
    bc_init_num (&frac_part);
    bc_init_num (&cur_dig);
    bc_init_num (&base);
    bc_sub (num, int_part, &frac_part, 0);
    /* Make the INT_PART and FRAC_PART positive. */
    int_part->n_sign = PLUS;
    frac_part->n_sign = PLUS;
    bc_int2num (&base, o_base);
    bc_init_num (&max_o_digit);
    bc_int2num (&max_o_digit, o_base-1);

    /* Get the digits of the integer part and push them on a stack. */
    while (!bc_is_zero (int_part))
    {
        bc_modulo (int_part, base, &cur_dig, 0);
        temp = (stk_rec *) malloc (sizeof(stk_rec));
        if (temp == NULL) bc_out_of_memory();
        temp->digit = bc_num2long (cur_dig);
        temp->next = digits;
        digits = temp;
        bc_divide

```



```

(int_part, base, &int_part, 0);
}

/* Print the digits on the stack. */
if (digits != NULL)
{
    /* Output the digits. */
    while (digits != NULL)
    {
        temp = digits;
        digits = digits->next;
        if (o_base <= 16)
            (*out_char) (ref_str[ (int) temp->digit]);
        else
            bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
        free (temp);
    }
}

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
    (*out_char) ('.');
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
        bc_multiply (frac_part, base, &frac_part, num->n_scale);
        fdigit = bc_num2long (frac_part);
        bc_int2num (&int_part, fdigit);
        bc_sub (frac_part, int_part, &frac_part, 0);
        if (o_base <= 16)
            (*out_char) (ref_str[fdigit]);
        else {
            bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
            pre_space = 1;
        }
        bc_multiply (t_num, base, &t_num, 0);
    }

    bc_free_num (&t_num);
}

/* Clean up. */
bc_free_num (&int_part);
bc_free_num (&frac_part);
bc_free_num (&base);
bc_free_num (&cur_dig);
bc_free_num (&max_o_digit);

```



```

    }
}

/* Convert a number NUM to a long. The function returns only the integer
part of the number. For numbers that are too large to represent as
a long, this function returns a zero. This can be detected by checking
the NUM for zero after having a zero returned. */

long
bc_num2long (num)
    bc_num num;
{
    long val;
    char *nptr;
    int index;

    /* Extract the int value, ignore the fraction. */
    val = 0;
    nptr = num->n_value;
    for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
        val = val*BASE + *nptr++;

    /* Check for overflow. If overflow, return zero. */
    if (index>0) val = 0;
    if (val < 0) val = 0;

    /* Return the value. */
    if (num->n_sign == PLUS)
        return (val);
    else
        return (-val);
}

/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num
(num, val)
    bc_num *num;
    int val;
{
    char buffer[30];
    char *bptr, *vptr;
    int ix = 1;
    char neg = 0;

    /* Sign. */
    if (val < 0)

```



```

    {
        neg = 1;
        val = -val;
    }

/* Get things going. */
bptr = buffer;
*bptr++ = val % BASE;
val = val / BASE;

/* Extract remaining digits. */
while (val != 0)
{
    *bptr++ = val % BASE;
    val = val / BASE;
    ix++; /* Count the digits. */
}

/* Make the number. */
bc_free_num (num);
*num = bc_new_num (ix, 0);
if (neg) (*num)->n_sign = MINUS;

/* Assign the digits. */
vptr = (*num)->n_value;
while (ix-- > 0)
    *vptr++ = *--bptr;
}

/* Convert a numbers to a string. Base 10 only.*/

char
*num2str (num)
    bc_num num;
{
    char *str, *sptr;
    char *nptr;
    int index, signch;

/* Allocate the string memory. */
signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
if (num->n_scale > 0)
    str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);

else
    str = (char *) malloc (num->n_len + 1 + signch);
if (str == NULL) bc_out_of_memory();

```



```

/* The negative sign if needed. */
sptr = str;
if (signch) *sptr++ = '-';

/* Load the whole number. */
nptr = num->n_value;
for (index=num->n_len; index>0; index--)
    *sptr++ = BCD_CHAR(*nptr++);

/* Now the fraction. */
if (num->n_scale > 0)
{
    *sptr++ = '.';
    for (index=0; index<num->n_scale; index++)
        *sptr++ = BCD_CHAR(*nptr++);
}

/* Terminate the string and return it! */
*sptr = '\0';
return (str);
}

/* Convert strings to bc numbers. Base 10 only.*/

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

    /* Prepare num. */
    bc_free_num (num);

    /* Check for valid number and count digits. */
    ptr = str;
    digits = 0;
    strscale = 0;
    zero_int = FALSE;
    if ( (*ptr == '+') || (*ptr == '-') ) ptr++; /* Sign */
    while (*ptr == '0') ptr++; /* Skip
    leading zeros. */
    while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
    if (*ptr == '.') ptr++; /* decimal point */
    while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
    if ((*ptr != '\0') || (digits+strscale == 0))

```



```

{
    *num = bc_copy_num (_zero_);
    return;
}

/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
{
    zero_int = TRUE;
    digits = 1;
}
*num = bc_new_num (digits, strscale);

/* Build the whole number. */
ptr = str;
if (*ptr == '-')
{
    (*num)->n_sign = MINUS;
    ptr++;
}
else
{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
    digits = 0;
}
for (; digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);

/* Build the fractional part. */
if (strscale > 0)
{
    ptr++; /*
skip the decimal point! */
    for (; strscale > 0; strscale--)
        *nptr++ = CH_VAL(*ptr++);
}
}

/* pn prints the number NUM in base 10. */

```



```

static void
out_char (int c)
{
    putchar(c);
}

void
pn (num)
    bc_num num;
{
    bc_out_num (num, 10, out_char, 0);
    out_char ('\n');
}

/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
    char *name;
    unsigned char *num;
    int len;
{
    int i;
    printf ("%s=", name);
    for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));
    printf ("\n");
}

```

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Version 2.1, February 1999

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a)

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1.130 m4 1.4.17

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1.134 acl 2.2.51 12.el7

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1.135 pcre 8.40

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1.136 openssl 1.0.2l

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1.137 cpio 2.11-24.el7

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1.138 diffutils 3.3-4.el7

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The

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1.144 libmnl 1.0.4

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1.145 openssl 1.0.2k

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1.146 attr 2.4.46-12.el7

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1.148 libpkit 0.23.5-3.el7

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1.149 cracklib 2.9.0 11.el7

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Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

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

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Lesser
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/usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux
distribution or on the World Wide Web at
<http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

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

EFFECTIVE

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

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

[Cracklib-devel] cracklib license

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

Attachments: Message as HTML

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Nathan Neulinger EMail: nneul@um...

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

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

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

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Attachments: Message as HTML

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

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

From alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:02 -0500

Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000

Received: from smtp1.srv.mst.edu (131.151.1.43)

by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])

by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623

for <nneul@umn.edu>; Mon, 1 Oct 2007 11:59:55 -0500

Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])

by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311

for <nneul@neulinger.org>; Mon, 1 Oct

2007 09:59:50 -0700 (PDT)

Received: from [82.68.43.14] (helo=[192.168.1.3])

by rutherford.zen.co.uk with esmtp (Exim 4.50)

id 1IcOcX-0004Qt-6L

for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000

Mime-Version: 1.0 (Apple Message framework v752.2)

In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

References: <1190922867.3457.147.camel@localhost.localdomain>

<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>

<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

Content-Type: text/plain; charset=US-ASCII; delp=yes; format=flowed

Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>

Content-Transfer-Encoding: 7bit

From: Alec Muffett <alecm@crypticide.com>

Subject: Re: cracklib license

Date: Mon, 1 Oct 2007 17:59:46 +0100

To: Nathan Neulinger <nneul@neulinger.org>

X-Mailer: Apple Mail (2.752.2)

X-Originating-Rutherford-IP: [82.68.43.14]

Return-Path: alecm@crypticide.com

X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]

Status:

RO

Content-Length: 585

Lines: 21

>

> ----- Forwarded message -----

> From: Neulinger, Nathan <nneul@umn.edu>

> Date: Sep 27, 2007 2:58 PM

> Subject: RE: cracklib license

> To: alecm@crypto.dircon.co.uk

>

> Any chance you could write me a self-contained email stating clearly

> that the license is being changed to GPL, so I could include that

> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

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

Discussion thread from mailing list archive, with approval from everyone actively
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Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

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

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Happy now? :-)

-a

1.150 sqlite 3.23.1

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1.151 qemu 2.4.0

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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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```
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```

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

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Version 2.1, February 1999

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Any executables

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

That's all there is to it!

```
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */
```

```
/*
```

```
* System call numbers.
```

```
*
```

```
* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
```

```
*/
```

```
#define TARGET_NETBSD_NR_syscall  0
#define TARGET_NETBSD_NR_exit     1
#define TARGET_NETBSD_NR_fork     2
#define TARGET_NETBSD_NR_read     3
#define TARGET_NETBSD_NR_write    4
#define TARGET_NETBSD_NR_open     5
#define TARGET_NETBSD_NR_close    6
#define TARGET_NETBSD_NR_wait4    7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link     9
```



```

#define TARGET_NETBSD_NR_unlink    10
#define TARGET_NETBSD_NR_chdir     12
#define TARGET_NETBSD_NR_fchdir    13
#define TARGET_NETBSD_NR_mknod     14
#define TARGET_NETBSD_NR_chmod     15
#define TARGET_NETBSD_NR_chown     16
#define TARGET_NETBSD_NR_break     17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek  19
#define TARGET_NETBSD_NR_getpid    20
#define
    TARGET_NETBSD_NR_getpid    20
#define TARGET_NETBSD_NR_compat_40_mount    21
#define TARGET_NETBSD_NR_unmount    22
#define TARGET_NETBSD_NR_setuid     23
#define TARGET_NETBSD_NR_getuid     24
#define TARGET_NETBSD_NR_getuid     24
#define TARGET_NETBSD_NR_geteuid    25
#define TARGET_NETBSD_NR_ptrace     26
#define TARGET_NETBSD_NR_recvmmsg   27
#define TARGET_NETBSD_NR_sendmsg    28
#define TARGET_NETBSD_NR_recvfrom   29
#define TARGET_NETBSD_NR_accept     30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access     33
#define TARGET_NETBSD_NR_chflags    34
#define TARGET_NETBSD_NR_fchflags   35
#define TARGET_NETBSD_NR_sync       36
#define TARGET_NETBSD_NR_kill       37
#define TARGET_NETBSD_NR_compat_43_stat43  38
#define TARGET_NETBSD_NR_getppid    39
#define TARGET_NETBSD_NR_compat_43_lstat43  40
#define TARGET_NETBSD_NR_dup        41
#define TARGET_NETBSD_NR_pipe       42
#define TARGET_NETBSD_NR_getegid
    43
#define TARGET_NETBSD_NR_profil     44
#define TARGET_NETBSD_NR_ktrace     45
#define TARGET_NETBSD_NR_compat_13_sigaction13  46
#define TARGET_NETBSD_NR_getgid     47
#define TARGET_NETBSD_NR_getgid     47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13  48
#define TARGET_NETBSD_NR___getlogin  49
#define TARGET_NETBSD_NR___setlogin  50
#define TARGET_NETBSD_NR_acct       51
#define TARGET_NETBSD_NR_compat_13_sigpending13  52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13  53

```



```

#define TARGET_NETBSD_NR_ioctl    54
#define TARGET_NETBSD_NR_compat_12_oreboot  55
#define TARGET_NETBSD_NR_revoke    56
#define TARGET_NETBSD_NR_symlink   57
#define TARGET_NETBSD_NR_readlink  58
#define TARGET_NETBSD_NR_execve    59
#define TARGET_NETBSD_NR_umask     60
#define TARGET_NETBSD_NR_chroot    61
#define TARGET_NETBSD_NR_compat_43_fstat43  62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo  63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize
    64
#define TARGET_NETBSD_NR_compat_12_msync  65
#define TARGET_NETBSD_NR_vfork    66
#define TARGET_NETBSD_NR_sbrk     69
#define TARGET_NETBSD_NR_sstk     70
#define TARGET_NETBSD_NR_compat_43_ommap  71
#define TARGET_NETBSD_NR_vadvise   72
#define TARGET_NETBSD_NR_munmap    73
#define TARGET_NETBSD_NR_mprotect  74
#define TARGET_NETBSD_NR_madvise   75
#define TARGET_NETBSD_NR_mincore   78
#define TARGET_NETBSD_NR_getgroups  79
#define TARGET_NETBSD_NR_setgroups  80
#define TARGET_NETBSD_NR_getpgrp   81
#define TARGET_NETBSD_NR_setpgid   82
#define TARGET_NETBSD_NR_setitimer  83
#define TARGET_NETBSD_NR_compat_43_owait  84
#define TARGET_NETBSD_NR_compat_12_oswapon  85
#define TARGET_NETBSD_NR_getitimer  86
#define TARGET_NETBSD_NR_compat_43_ogethostname  87
#define TARGET_NETBSD_NR_compat_43_ogethostname  88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize  89
#define TARGET_NETBSD_NR_dup2      90
#define TARGET_NETBSD_NR_fcntl
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#define TARGET_NETBSD_NR_select    93
#define TARGET_NETBSD_NR_fsync     95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket  97
#define TARGET_NETBSD_NR_connect   98
#define TARGET_NETBSD_NR_compat_43_oaccept  99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend   101
#define TARGET_NETBSD_NR_compat_43_orecv   102
#define TARGET_NETBSD_NR_compat_13_sigreturn13  103
#define TARGET_NETBSD_NR_bind       104
#define TARGET_NETBSD_NR_setsockopt 105

```



```

#define TARGET_NETBSD_NR_listen    106
#define TARGET_NETBSD_NR_compat_43_osigvec  108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask    110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13   111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg  113
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#define TARGET_NETBSD_NR_getsockopt 118
#define TARGET_NETBSD_NR_readv    120
#define TARGET_NETBSD_NR_writev   121
#define TARGET_NETBSD_NR_settimeofday    122
#define TARGET_NETBSD_NR_fchown   123
#define TARGET_NETBSD_NR_fchmod    124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid  126
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#define TARGET_NETBSD_NR_mkdir     136
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References

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Licensing and contribution policy of dtc and libfdt

=====

This dtc package contains two pieces of software: dtc itself, and

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As the copyright banners in each source file attest, dtc is licensed under the GNU GPL. The full text of the GPL can be found in the file entitled 'GPL' which should be included in this package. dtc code, therefore, may not be incorporated into works which do not have a GPL compatible license.

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are released under these terms can be merged into the libfdt mainline.

David Gibson <david@gibson.dropbear.id.au>

(principal original author of dtc and libfdt)

2 November 2007

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/*

* System call numbers.

*

* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723

* 2012-01-06 19:29:16Z jhb

*/

```
#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
    /* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
    /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
    /* 19 is old lseek */
```



```

#define TARGET_FREEBSD_NR_getpid  20
#define TARGET_FREEBSD_NR_mount  21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid
    23
#define TARGET_FREEBSD_NR_getuid  24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace  26
#define TARGET_FREEBSD_NR_recvmmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept  30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access  33
#define TARGET_FREEBSD_NR_chflags  34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync  36
#define TARGET_FREEBSD_NR_kill  37
    /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
    /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup  41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
    /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
    /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin
    49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct  51
    /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl  54
#define TARGET_FREEBSD_NR_reboot  55
#define TARGET_FREEBSD_NR_revoke  56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve  59
#define TARGET_FREEBSD_NR_umask  60
#define TARGET_FREEBSD_NR_chroot  61
    /* 62 is old fstat */
    /* 63 is old getkerninfo */
    /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65

```



```

#define TARGET_FREEBSD_NR_vfork 66
    /* 67 is obsolete vread */
    /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
    /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define
    TARGET_FREEBSD_NR_madvise 75
    /* 76 is obsolete vhangup */
    /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
    /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
    /* 87 is old gethostname */
    /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
    /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
    /* 101 is old send */

    /* 102 is old recv */
    /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
    /* 107 is obsolete vtimes */
    /* 108 is old sigvec */
    /* 109 is old sigblock */
    /* 110 is old sigsetmask */
    /* 111 is old sigsuspend */
    /* 112 is old sigstack */
    /* 113 is old recvmsg */

```



```

/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid
127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/*
150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163

```



```

#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsyz 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat
188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget
225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233

```



```

#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio
    257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid
    310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
    /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316

```



```

#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
    /* 322 is obsolete thr_sleep */
    /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define
    TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd
354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362

```



```

#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd 386
#define TARGET_FREEBSD_NR___mac_get_file 387
#define TARGET_FREEBSD_NR___mac_set_fd 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define
TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link 410
#define TARGET_FREEBSD_NR___mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link
414
#define TARGET_FREEBSD_NR___mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425

```



```

#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR__umtx_lock 434
#define TARGET_FREEBSD_NR__umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define
    TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_audition 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name
    464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476

```



```

#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define
    TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter
    516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 522
#define TARGET_FREEBSD_NR_getloginclass 523

```



```

#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct  525
#define TARGET_FREEBSD_NR_rctl_get_rules  526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL  532
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Any executables

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Index: debug.c

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v


```

retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+       if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+           x86emu_dump_xregs();
+       } else {
+           x86emu_dump_regs();
+       }
    }
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
    for (i=0; i< M.x86.enc_pos; i++) {
        sprintf(buf1+2*i, "%02x", fetch_data_byte_abs(s,o+i));
    }
-   printk("%-20s", buf1);
+   printk("%-20s ", buf1);
}

```

static void print_decoded_instruction (void)

Index: ops2.c

=====

RCS file:

/cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3

@@ -149,8 +149,69 @@

```

    target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
+       M.x86.R_IP = (u16)target;
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+}

```



```

+
+ /*****
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+*****/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+ case 0xc8:
+ DECODE_PRINTF("EAX\n");
+ M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+ break;
+ case 0xc9:
+ DECODE_PRINTF("ECX\n");
+ M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+ break;
+ case 0xca:
+ DECODE_PRINTF("EDX\n");
+ M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+ break;
+ case 0xcb:
+ DECODE_PRINTF("EBX\n");
+ M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+ break;
+ case 0xcc:
+ DECODE_PRINTF("ESP\n");
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+ break;
+ case 0xcd:
+ DECODE_PRINTF("EBP\n");
+ M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+ break;
+ case 0xce:

```



```

+   DECODE_PRINTF("ESI\n");
+   M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+   break;
+   case 0xcf:
+   DECODE_PRINTF("EDI\n");
+   M.x86.R_EDI
= x86emu_bswap(M.x86.R_EDI);
+   break;
+   }
+   TRACE_AND_STEP();
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+   }
@@ -1702,14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,

```

```

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,

```

Index:

ops.c

```

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v

```

retrieving revision 1.1

diff -u -u -r1.1 ops.c

--- ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops.c 20 Mar 2008 16:52:00 -0000

```

@@ -1061,7 +1061,11 @@

```

```

+   imm = (s8)fetch_byte_imm();
+   DECODE_PRINTF2("PUSH\t%d\n", imm);
+   TRACE_AND_STEP();

```



```

-   push_word(imm);
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+   } else {
+       push_word(imm);
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
    target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
+       M.x86.R_IP = target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
    {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2559,9 +2569,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {

```



```

/* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode
& SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2574,6 +2586,8 @@
    }
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2598,16 +2612,21 @@

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    val1 = fetch_data_byte(M.x86.R_SI);
    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_byte(val1, val2);
-   M.x86.R_CX -= 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@

```



```

TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES,
M.x86.R_DI);
@@ -2655,11 +2674,16 @@
            val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
        }
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+       if (M.x86.intr & INTR_HALTED)
+       break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /*
+   move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (M.x86.intr & INTR_HALTED)
+       break;
    }
}

```



```

        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2783,9 +2812,11 @@
        count = 1;
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
-           /* move them until CX is ZERO. */
-           count = M.x86.R_CX;
+           /* move them until (E)CX is ZERO. */
+           count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
            M.x86.R_CX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;

        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2795,6 +2826,8 @@
        store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
    }
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-            M.x86.R_CX --;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX --;
+            else
+                M.x86.R_CX --;
            M.x86.R_SI += inc;
+            if (M.x86.intr & INTR_HALTED)
+                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2859,9 +2897,11 @@

```



```

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   count = M.x86.R_CX;
+   /* move them until (E)CX is ZERO. */
+   count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2871,6 +2911,8 @@
    M.x86.R_AX = fetch_data_word(M.x86.R_SI);
}
    M.x86.R_SI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /*
REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
-           M.x86.R_CX -- 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -- 1;
+           else
+               M.x86.R_CX -- 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE */
-       /* move them until CX is ZERO. */

```



```

-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break;      /* zero flag set means equal */
+       if (M.x86.intr & INTR_HALTED)
+       break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX,
val);
@@ -2960,16 +3012,21 @@
                val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word(M.x86.R_AX, (u16)val);
            }
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
+       if (M.x86.intr & INTR_HALTED)
+       break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {

```



```

/* REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX,
val);
@@ -2977,10 +3034,15 @@
        val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word(M.x86.R_AX, (u16)val);
    }
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break; /* zero flag set means equal */
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9 @@
@@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();

```



```

}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))    /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))    /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))    /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;

```



```

+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))    /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0)
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)    /* (E)CX != 0 */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-   if (M.x86.R_CX == 0)
+   if (M.x86.R_CX == 0) {
        M.x86.R_IP = target;
+   }
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs,
M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();

```



```

M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
    case 4:      /* jmp word ptr ... */
        destval = fetch_data_word(destoffset);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        break;
    case 5:      /* jmp far ptr ... */
        destval = fetch_data_word(destoffset);
        destval2 = fetch_data_word(destoffset + 2);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        M.x86.R_CS = destval2;

```

Index: prim_ops.c

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v

retrieving revision

1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3

@@ -1921,7 +1921,7 @@

void imul_long_direct(u32 *res_lo, u32* res_hi, u32 d, u32 s)

{

#ifdef __HAS_LONG_LONG__

- s64 res = (s64)d * (s64)s;

+ s64 res = (s64)(s32)d * (s64)(s32)s;

*res_lo = (u32)res;

*res_hi = (u32)(res >> 32);

@@ -2013,7 +2013,7 @@

void mul_long(u32 s)

{

#ifdef __HAS_LONG_LONG__

- u64 res = (u32)M.x86.R_EAX * (u32)s;

+ u64 res = (u64)M.x86.R_EAX * s;

M.x86.R_EAX = (u32)res;

M.x86.R_EDX = (u32)(res >> 32);

@@ -2312,16 +2312,15 @@

}

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {

/* dont care whether REPE or REPNE */

- /* in until CX is ZERO. */

- u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?

+ /* in until (E)CX is ZERO. */

+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?

M.x86.R_ECX : M.x86.R_CX);

-

while (count--) {

single_in(size);

M.x86.R_DI += inc;

}

M.x86.R_CX = 0;

- if (M.x86.mode & SYSMODE_PREFIX_DATA) {

+ if (M.x86.mode & SYSMODE_32BIT_REP) {

M.x86.R_ECX = 0;

}

M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

@@ -2355,15 +2354,15 @@

}

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {

/* dont care whether REPE or REPNE */

- /* out until CX is ZERO. */


```

-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* out until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--> {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode
    &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c

```

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v

retrieving revision 1.1

retrieving revision 1.2

diff -u -u -r1.1 -r1.2

--- sys.c 7 Sep 2007 10:01:21 -0000 1.1

+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2

@@ -45,11 +45,6 @@

#include <x86emu/regs.h>

#include "debug.h"

#include "prim_ops.h"

+#ifndef LINUXBIOS_VERSION

+#include "io.h"

+#else

+#include <sys/io.h>

+#endif

#ifndef IN_MODULE

#include "xf86_ansi.h"

@@ -220,7 +215,7 @@

{

DB(if (DEBUG_IO_TRACE())

printf("inb %#04x \n", addr);)

- return inb(addr);

+ return 0;

}

/******

@@ -235,7 +230,7 @@

{

DB(if (DEBUG_IO_TRACE())

printf("inw %#04x \n", addr);)


```
- return inw(addr);
+ return 0;
}
```

```
/******
```

```
@ @ -250,7 +245,7 @ @
{
  DB(if (DEBUG_IO_TRACE())
    printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}
```

```
/******
```

```
@ @ -264,7 +259,6 @ @
{
  DB(if (DEBUG_IO_TRACE())
    printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
  return;
}
```

```
@ @ -279,7 +273,6 @ @
{
  DB(if (DEBUG_IO_TRACE())
    printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
  return;
}
```

```
@ @ -295,7 +288,6 @ @
  DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x -> %#04x \n", val, addr);)
```

```
- outl(val, addr);
  return;
}
```

```
@ @ -405,6 +397,6 @ @
```

```
void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
  M.mem_size = size;
}
```

```
Index: include/x86emu/debug.h
```

```
=====
```


RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v

retrieving revision 1.1

retrieving revision 1.4

diff -u -u -r1.1 -r1.4

--- include/x86emu/debug.h 7

Sep 2007 10:01:21 -0000 1.1

+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4

@@ -40,8 +40,6 @@

#ifndef __X86EMU_DEBUG_H

#define __X86EMU_DEBUG_H

-// #define DEBUG 0

-#undef DEBUG

/*----- Macros and type definitions -----*/

/* checks to be enabled for "runtime" */

@@ -78,6 +76,8 @@

define DEBUG_SYSINT() (M.x86.debug & DEBUG_SYSINT_F)

define DEBUG_TRACECALL() (M.x86.debug & DEBUG_TRACECALL_F)

define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)

+# define DEBUG_TRACEJMP() (M.x86.debug & DEBUG_TRACEJMP_F)

+# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)

define DEBUG_SYS() (M.x86.debug & DEBUG_SYS_F)

define DEBUG_MEM_TRACE() (M.x86.debug & DEBUG_MEM_TRACE_F)

define DEBUG_IO_TRACE() (M.x86.debug & DEBUG_IO_TRACE_F)

@@ -96,6 +96,8 @@

define DEBUG_SYSINT() 0

define DEBUG_TRACECALL() 0

define DEBUG_TRACECALLREGS() 0

+# define DEBUG_TRACEJMP()

0

+# define DEBUG_TRACEJMPREGS() 0

define DEBUG_SYS() 0

define DEBUG_MEM_TRACE() 0

define DEBUG_IO_TRACE() 0

@@ -169,14 +171,20 @@

x86emu_dump_regs(); \

if (DEBUG_TRACECALL()) \

printf("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);

-# define RETURN_TRACE(n,u,v) \

+# define RETURN_TRACE(u,v,w,x,s) \

if (DEBUG_TRACECALLREGS()) \

x86emu_dump_regs(); \

if (DEBUG_TRACECALL()) \

- printf("%04x:%04x: %s\n",u,v,n);

+ printf("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);

+# define JMP_TRACE(u,v,w,x,s) \

+ if (DEBUG_TRACEJMPREGS()) \


```

+   x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+       printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
#define CALL_TRACE(u,v,w,x,s)
-#
define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA    0x00000200
#define SYSMODE_PREFIX_ADDR    0x00000400
+//phueper: for REP(E)NE Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP      0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
    SYSMODE_SEGOVR_GS    | \
    SYSMODE_SEGOVR_SS    | \
    SYSMODE_PREFIX_DATA | \
-   SYSMODE_PREFIX_ADDR)
+   SYSMODE_PREFIX_ADDR | \
+   SYSMODE_32BIT_REP)

#define INTR_SYNCH          0x1
#define INTR_ASYNCH          0x2
@@ -274,9 +278,9 @@
    */
    u32                mode;
    volatile int        intr; /* mask of pending interrupts */
-   int                debug;
+   volatile int        debug;
#ifdef DEBUG
-   int                check;

```



```

+ int          check;
+ u16          saved_ip;
+ u16          saved_cs;
+ int          enc_pos;

```

Index: include/x86emu/x86emu.h

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21

-0000 1.1

+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3

@@ -47,6 +47,7 @@

#include <console.h>

#define printk(x...) printk(BIOS_DEBUG, x)

#else

+#include <stdio.h>

#define printk printf

#endif

@@ -189,6 +181,8 @@

#define DEBUG_TRACECALL_REGS_F 0x004000

#define DEBUG_DECODE_NOPRINT_F 0x008000

#define DEBUG_SAVE_IP_CS_F 0x010000

+#define DEBUG_TRACEJMP_F 0x020000

+#define DEBUG_TRACEJMP_REGS_F 0x040000

#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);

@@ -200,5 +194,4 @@

#ifdef __cplusplus

} /* End of "C" linkage for C++ */

#endif

-

#endif /* __X86EMU_X86EMU_H */

GPL License Exception:

Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+, this does **not** cover the so-called "standalone" applications that use U-Boot services by means of the jump table provided by U-Boot exactly for this purpose - this is merely considered normal use of U-Boot, and does **not** fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does

not fall under the heading of "derived work".

-- Wolfgang Denk

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```
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```

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```
# * Contributors:
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```
# *   IBM Corporation - initial implementation
```

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

```
#!/bin/bash
```

```
#set -x
```

```
#set -e
```

```
SVN=`which svn`
```

```
PATCH=`which patch`
```

```
DIFF_FILE=./x86emu_changes.diff
```

```
# check wether svn, patch, ... is available...
```

```
if [ ! -x $SVN ]; then
```

```
    echo "subversion executable not found!"
```

```
    exit -1
```

```
fi
```

```
if [ ! -x $PATCH ]; then
```

```
    echo "patch executable not found!"
```

```
    exit -1
```

```
fi
```

```
if [ ! -r $DIFF_FILE ]; then
```

```
    echo "diff file $DIFF_FILE not found!"
```

```
    exit -1
```

```
fi
```

```
# download the x86emu sources from LinuxBIOS subversion
```



```
#revision known to work...
REV=496

echo "Checking
out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0
```

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Version 3, 29 June 2007

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structure

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```
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```

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Version 2, June 1991

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*
*   @(#)mman.h    8.2 (Berkeley) 1/9/95
* $FreeBSD: src/sys/mman.h,v 1.42 2008/03/28 04:29:27 ps Exp $
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
*/
#define TARGET_FREEBSD_MAP_STACK      0x0400 /* region grows down, like a stack */
#define
TARGET_FREEBSD_MAP_NOSYNC      0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK    0x1ff7

/*   $NetBSD: mman.h,v 1.42 2008/11/18 22:13:49 ad Exp $   */

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*
*   @(#)mman.h    8.2 (Berkeley) 1/9/95
*/

#define TARGET_NETBSD_MAP_INHERIT    0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED   0x0400 /* attempt
hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED      0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK      0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK   0x3ff7

/*   $OpenBSD: mman.h,v 1.18 2003/07/21 22:52:19 tedu Exp $ */
/*   $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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*
* @(#)mman.h 8.1 (Berkeley) 6/2/93
*/

```

```

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

```

```

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

```

```

// XXX

```

```

#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

```

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```
# Default configuration for sparc-bsd-user
/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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 *
 * @(#)errno.h 8.5 (Berkeley) 1/21/94
 */
```

```
#define TARGET_EPERM      1      /* Operation not permitted */
#define TARGET_ENOENT     2      /* No such file or directory */
#define TARGET_ESRCH      3      /* No such process */
#define TARGET_EINTR      4      /* Interrupted system call */
#define TARGET_EIO        5      /* Input/output error */
#define TARGET_ENXIO      6      /* Device not configured */
#define TARGET_E2BIG      7      /* Argument list too long */
```



```

#define TARGET_ENOEXEC      8          /* Exec format error */
#define TARGET_EBADF       9          /* Bad file descriptor */
#define TARGET_ECHILD      10         /* No child processes */
#define TARGET_EDEADLK     11         /* Resource deadlock avoided */
                                     /* 11 was EAGAIN */

#define
TARGET_ENOMEM      12          /* Cannot allocate memory */
#define TARGET_EACCES    13          /* Permission denied */
#define TARGET_EFAULT    14          /* Bad address */
#define TARGET_ENOTBLK   15          /* Block device required */
#define TARGET_EBUSY     16          /* Device busy */
#define TARGET_EEXIST     17          /* File exists */
#define TARGET_EXDEV      18          /* Cross-device link */
#define TARGET_ENODEV     19          /* Operation not supported by device */
#define TARGET_ENOTDIR    20          /* Not a directory */
#define TARGET_EISDIR     21          /* Is a directory */
#define TARGET_EINVAL     22          /* Invalid argument */
#define TARGET_ENFILE     23          /* Too many open files in system */
#define TARGET_EMFILE     24          /* Too many open files */
#define TARGET_ENOTTY     25          /*
Inappropriate ioctl for device */
#define TARGET_ETXTBSY    26          /* Text file busy */
#define TARGET_EFBIG      27          /* File too large */
#define TARGET_ENOSPC     28          /* No space left on device */
#define TARGET_ESPIPE     29          /* Illegal seek */
#define TARGET_EROFS      30          /* Read-only file system */
#define TARGET_EMLINK     31          /* Too many links */
#define TARGET_EPIPE      32          /* Broken pipe */

/* math software */
#define TARGET_EDOM        33          /* Numerical argument out of domain */
#define TARGET_ERANGE     34          /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN      35          /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN     /* Operation would block */
#define TARGET_EINPROGRESS 36          /* Operation now in progress */
#define TARGET_EALREADY
37          /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38          /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39       /* Destination address required */
#define TARGET EMSGSIZE 40          /* Message too long */
#define TARGET_EPROTOTYPE 41        /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42       /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43    /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44    /* Socket type not supported */

```



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#define TARGET_EOPNOTSUPP    45        /* Operation not supported */
#define TARGET_EPFNOSUPPORT  46        /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT  47        /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE    48        /* Address already in use */
#define
TARGET_EADDRNOTAVAIL  49        /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN      50        /* Network is down */
#define TARGET_ENETUNREACH  51        /* Network is unreachable */
#define TARGET_ENETRESET    52        /* Network dropped connection on reset */
#define TARGET_ECONNABORTED  53        /* Software caused connection abort */
#define TARGET_ECONNRESET    54        /* Connection reset by peer */
#define TARGET_ENOBUFS       55        /* No buffer space available */
#define TARGET_EISCONN       56        /* Socket is already connected */
#define TARGET_ENOTCONN      57        /* Socket is not connected */
#define TARGET_ESHUTDOWN     58        /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS  59        /* Too many references: can't splice */
#define TARGET_ETIMEOUT      60        /* Operation timed
out */
#define TARGET_ECONNREFUSED  61        /* Connection refused */

#define TARGET_ELOOP         62        /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG  63        /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN     64        /* Host is down */
#define TARGET_EHOSTUNREACH  65        /* No route to host */
#define TARGET_ENOTEMPTY     66        /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM      67        /* Too many processes */
#define TARGET_EUSERS        68        /* Too many users */
#define TARGET_EDQUOT         69        /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE        70        /* Stale NFS file handle */
#define TARGET_EREMOTE       71        /* Too many levels of remote in path */
#define TARGET_EBADRPC       72        /* RPC struct is bad */
#define TARGET_ERPCMISMATCH
    73        /* RPC version wrong */
#define TARGET_EPROGUNAVAIL  74        /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75        /* Program version wrong */
#define TARGET_EPROCUNAVAIL  76        /* Bad procedure for program */

#define TARGET_ENOLCK        77        /* No locks available */
#define TARGET_ENOSYS        78        /* Function not implemented */

```



```

#define TARGET_EFTYPE      79      /* Inappropriate file type or format */
#define TARGET_EAUTH      80      /* Authentication error */
#define TARGET_ENEEDAUTH   81      /* Need authenticator */
#define TARGET_EIPSEC      82      /* IPsec processing failure */
#define TARGET_ENOATTR     83      /* Attribute not found */
#define TARGET_EILSEQ      84      /* Illegal byte sequence */
#define TARGET_ENOMEDIUM  85      /* No medium found */
#define TARGET_EMEDIUMTYPE 86      /* Wrong Medium Type */
#define TARGET_EOVERFLOW   87      /* Conversion overflow */
#define TARGET_ECANCELED   88      /* Operation canceled */
#define TARGET_EIDRM       89      /* Identifier removed */
#define TARGET_ENOMSG      90      /* No message of desired type */
#define TARGET_ELAST       90      /* Must be equal largest errno */

```

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/*

* FreeBSD strace list

*

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```
{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
},
{ TARGET_FREEBSD_NR__acl_delete_fd,
  "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op,
  "__umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__accept, "accept", "%s(%d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__access, "access", "%s(\"%s\", %#o)", NULL, NULL },
```



```

{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_get_file,
"extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL,
NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },

```



```

{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap,
"freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid,
"getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen,
"listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },

```



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{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL
},
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d,\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\",%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil,
"profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d,%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk,

```



```

"sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid,
"setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending,
"sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },

```



```

{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,
%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)",
NULL, NULL },

```

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```
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```

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

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

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```
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# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# *   IBM Corporation - initial implementation
# * *****/
```

```
ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
```



```

endif
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $$subdir || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $$subdir $@ ; done
# Default configuration for sparc64-bsd-user
# *****
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# * are made available under the terms of the BSD License
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# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# *   IBM Corporation - initial implementation
# *****/

ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS =
ASFLAGS = -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS = -UDEBUG -m64 -I. -I./include -I./include/x86emu \
-I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \
-I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \
-ffreestanding -Wall -Wno-unused

X86EMU_OBJS =

```


debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S

\$(CC) \$(ASFLAGS) -c -o \$@ \$^

%.o: %.c

\$(CC) \$(CFLAGS) -c -o \$@ \$^

all: libx86emu.a

libx86emu.a: \$(X86EMU_OBJS)

\$(AR) -rc \$@ \$^

\$(RANLIB) \$@

clean:

\$(RM) *.o *.i *.s libx86emu.a

distclean: clean

/* \$OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp \$ */

/*

* System call numbers.

*

* created from; \$OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp

*/

#define TARGET_OPENBSD_NR_syscall 0

#define TARGET_OPENBSD_NR_exit 1

#define TARGET_OPENBSD_NR_fork 2

#define TARGET_OPENBSD_NR_read 3

#define TARGET_OPENBSD_NR_write 4

#define TARGET_OPENBSD_NR_open 5

#define TARGET_OPENBSD_NR_close 6

#define TARGET_OPENBSD_NR_wait4 7

#define TARGET_OPENBSD_NR_link 9

#define TARGET_OPENBSD_NR_unlink 10

#define TARGET_OPENBSD_NR_chdir 12

#define TARGET_OPENBSD_NR_fchdir 13

#define TARGET_OPENBSD_NR_mknod 14

#define TARGET_OPENBSD_NR_chmod 15

#define TARGET_OPENBSD_NR_chown 16

#define TARGET_OPENBSD_NR_break 17

#define TARGET_OPENBSD_NR_getpid 20

#define TARGET_OPENBSD_NR_mount 21

#define TARGET_OPENBSD_NR_unmount 22

#define TARGET_OPENBSD_NR_setuid

23

#define TARGET_OPENBSD_NR_getuid 24


```

#define TARGET_OPENBSD_NR_geteuid  25
#define TARGET_OPENBSD_NR_ptrace   26
#define TARGET_OPENBSD_NR_recvmmsg  27
#define TARGET_OPENBSD_NR_sendmsg   28
#define TARGET_OPENBSD_NR_recvfrom  29
#define TARGET_OPENBSD_NR_accept    30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access    33
#define TARGET_OPENBSD_NR_chflags   34
#define TARGET_OPENBSD_NR_fchflags  35
#define TARGET_OPENBSD_NR_sync      36
#define TARGET_OPENBSD_NR_kill      37
#define TARGET_OPENBSD_NR_getppid   39
#define TARGET_OPENBSD_NR_dup        41
#define TARGET_OPENBSD_NR_opipe     42
#define TARGET_OPENBSD_NR_getegid   43
#define TARGET_OPENBSD_NR_profil    44
#define TARGET_OPENBSD_NR_ktrace    45
#define TARGET_OPENBSD_NR_sigaction  46
#define TARGET_OPENBSD_NR_getgid     47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin  49
#define TARGET_OPENBSD_NR_setlogin
    50
#define TARGET_OPENBSD_NR_acct       51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl     54
#define TARGET_OPENBSD_NR_reboot     55
#define TARGET_OPENBSD_NR_revoke     56
#define TARGET_OPENBSD_NR_symlink    57
#define TARGET_OPENBSD_NR_readlink   58
#define TARGET_OPENBSD_NR_execve     59
#define TARGET_OPENBSD_NR_umask      60
#define TARGET_OPENBSD_NR_chroot     61
#define TARGET_OPENBSD_NR_vfork      66
#define TARGET_OPENBSD_NR_sbrk       69
#define TARGET_OPENBSD_NR_sstk       70
#define TARGET_OPENBSD_NR_munmap     73
#define TARGET_OPENBSD_NR_mprotect   74
#define TARGET_OPENBSD_NR_madvise    75
#define TARGET_OPENBSD_NR_mincore    78
#define TARGET_OPENBSD_NR_getgroups  79
#define TARGET_OPENBSD_NR_setgroups  80
#define TARGET_OPENBSD_NR_getpgrp    81
#define TARGET_OPENBSD_NR_setpgid    82
#define TARGET_OPENBSD_NR_setitimer  83

```



```

#define TARGET_OPENBSD_NR_getitimer
    86
#define TARGET_OPENBSD_NR_dup2    90
#define TARGET_OPENBSD_NR_fcntl   92
#define TARGET_OPENBSD_NR_select  93
#define TARGET_OPENBSD_NR_fsync   95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket  97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind    104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen  106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv    120
#define TARGET_OPENBSD_NR_writev   121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown   123
#define TARGET_OPENBSD_NR_fchmod   124
#define TARGET_OPENBSD_NR_setreuid  126
#define TARGET_OPENBSD_NR_setregid  127
#define TARGET_OPENBSD_NR_rename
    128
#define TARGET_OPENBSD_NR_flock    131
#define TARGET_OPENBSD_NR_mkfifo   132
#define TARGET_OPENBSD_NR_sendto   133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir    136
#define TARGET_OPENBSD_NR_rmdir    137
#define TARGET_OPENBSD_NR_utimes   138
#define TARGET_OPENBSD_NR_adjtime  140
#define TARGET_OPENBSD_NR_setsid   147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc   155
#define TARGET_OPENBSD_NR_getfh    161
#define TARGET_OPENBSD_NR_sysarch  165
#define TARGET_OPENBSD_NR_pread    173
#define TARGET_OPENBSD_NR_pwrite   174
#define TARGET_OPENBSD_NR_setgid    181
#define TARGET_OPENBSD_NR_setegid   182
#define TARGET_OPENBSD_NR seteuid   183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185

```



```

#define TARGET_OPENBSD_NR_lfs_segclean      186
#define TARGET_OPENBSD_NR_lfs_segwait
187
#define TARGET_OPENBSD_NR_pathconf    191
#define TARGET_OPENBSD_NR_fpathconf  192
#define TARGET_OPENBSD_NR_swapctl    193
#define TARGET_OPENBSD_NR_getrlimit  194
#define TARGET_OPENBSD_NR_setrlimit  195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap        197
#define TARGET_OPENBSD_NR___syscall  198
#define TARGET_OPENBSD_NR_lseek       199
#define TARGET_OPENBSD_NR_truncate    200
#define TARGET_OPENBSD_NR_ftruncate  201
#define TARGET_OPENBSD_NR___sysctl    202
#define TARGET_OPENBSD_NR_mlock       203
#define TARGET_OPENBSD_NR_munlock     204
#define TARGET_OPENBSD_NR_futimes     206
#define TARGET_OPENBSD_NR_getpgid     207
#define TARGET_OPENBSD_NR_xfspioctl   208
#define TARGET_OPENBSD_NR_semget       221
#define TARGET_OPENBSD_NR_msgget       225
#define TARGET_OPENBSD_NR_msgsnd      226
#define TARGET_OPENBSD_NR_msgrcv      227
#define TARGET_OPENBSD_NR_shmat        228
#define TARGET_OPENBSD_NR_shmdt        230
#define TARGET_OPENBSD_NR_clock_gettime
232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres  234
#define TARGET_OPENBSD_NR_nanosleep    240
#define TARGET_OPENBSD_NR_minherit     250
#define TARGET_OPENBSD_NR_rfork        251
#define TARGET_OPENBSD_NR_poll         252
#define TARGET_OPENBSD_NR_issetugid    253
#define TARGET_OPENBSD_NR_lchown       254
#define TARGET_OPENBSD_NR_getsid       255
#define TARGET_OPENBSD_NR_msync        256
#define TARGET_OPENBSD_NR_pipe         263
#define TARGET_OPENBSD_NR_fhopen       264
#define TARGET_OPENBSD_NR_preadv       267
#define TARGET_OPENBSD_NR_pwritev      268
#define TARGET_OPENBSD_NR_kqueue       269
#define TARGET_OPENBSD_NR_kevent       270
#define TARGET_OPENBSD_NR_mlockall     271
#define TARGET_OPENBSD_NR_munlockall   272
#define TARGET_OPENBSD_NR_getpeereid   273
#define TARGET_OPENBSD_NR_getresuid    281

```



```

#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid
    284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsgdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs
    309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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 *
 */
 #define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400 /* on success, return to %g2 rather than npc */
 #define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800 /* use %g7 as above (deprecated) */

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Version 2, June 1991

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

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1.152 readline 6.2

1.153 libpwquality 1.2.3-4.el7

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1.154 open-ldap 2.4.46

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1.155 ntp 4.2.8p11

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15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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 59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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1.157 htop 2.2.0

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```

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1.158 libtool 2.4.6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.161 libcap-ng 0.7.5 4.el7

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

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1.163 ncurses 6.0

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On Debian systems, the complete text of the GNU General
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-- vile: txtmode file-encoding=utf-8

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

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

Files: *

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Upstream source <http://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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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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1.164 libtasn 4.13

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That's all there is to it!

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

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Upstream-Contact: Andy Cress <arcress@users.sourceforge.net>

Source: <http://ipmiutil.sourceforge.net>

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1.170 python 2.7.15

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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 <https://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 <https://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 <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.6.1	1.6	2001	CNRI	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program
for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
references to Ghostscript; clarified derivation from RFC 1321;
now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The :mod:`xmlrpc.lib` module contains the following notice::

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Select kqueue

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strtod
and dtoa

The file `:file:`Python/dtoa.c``, which supplies C functions `dtoa` and `strtod` for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::


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OpenSSL

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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.

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2.1.1	2.1+2.0.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
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.. _history-and-license:

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-----+	-----+	-----+	-----+
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2.0	1.6	2000	BeOpen.com no
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-----+	-----+	-----+	-----+
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
-----+	-----+	-----+	-----+
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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program
for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
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Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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1.171 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.172 net-snmp 5.8

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1.173 free-type 2.9.1

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#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdfplib.c
src/bdf/module.mk
src/bdf/README
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#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
```



```
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
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```
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```

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```
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From strings/apr_strnatcmp.c,
include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From

strings/apr_snprintf.c:

*

* cvt - IEEE floating point formatting routines.

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*

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- * `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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-->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '
'))"/>

<xsl:text>
</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '
')"/>

<xsl:if test="translate(\$rest, '	 ', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>


```

</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    License, v. 2.0. If a copy of the MPL was not distributed with this
    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of
        select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
 - mode: sgml
 - End:

-->

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1.180 sqlite 3.28.0

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1.182 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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1.183 cpio 2.12

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1.185 dmidecode 3.5

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1.186 e2fsprogs 1.43

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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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```
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```

```
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Theodore Ts'o
23-June-2007

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relink to produce a modified

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That's all there is to it!

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

```

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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This package was put together by Yann Dirson <dirson@debian.org>,
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1.187 zlib 1.2.5

1.187.1 Available under license :

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

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Jean-loup Gailly Mark Adler
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*/

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1.188 zlib 1.2.7

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1.189 coreutils 8.22

1.189.1 Available under license :

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Version 3, 29 June 2007

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1.191 libevent 2.0.21

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1.192 libssh 0.18

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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.

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.. _history-and-license:

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://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 <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from
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the verbatim comments from the
original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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Asynchronous socket services

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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SipHash24

The file :file:`Python/pyhash.c` contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphhash24/little)

djb (supercop/crypto_auth/siphhash24/little2)

Jean-Philippe Aumasson

(<https://131002.net/siphhash/siphhash24.c>)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived

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zlib

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cfuhash

The implementation of the hash table used by the `:mod:`tracemalloc`` is based on the cfuhash project::

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1.196 tcl 8.3.0

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1.198 zlib 1.2.1.2

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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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1.199 zlib 1.2.3.3

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1.200 tcl 8.4.19

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1.201 fuse 2.9.0

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1.203 libevent 2.1.8

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1.204 grub 2.16

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1.205 elfutils 0.148

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1.211 elfutils 0.168-8.el7

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 *
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- *
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- *
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- *
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- * exact copy. The resulting work is called a "modified version" of the
- * earlier work or a work "based on" the earlier work.
- *
- * A "covered work" means either the unmodified Program or a work based
- * on the Program.
- *
- * To "propagate" a work means to do anything with it that, without
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- * computer or modifying a private copy. Propagation includes copying,
- * distribution (with or without modification),
- making available to the
- * public, and in some countries other activities as well.
- *
- * To "convey" a work means any kind of propagation that enables other
- * parties to make or receive copies. Mere interaction with a user through
- * a computer network, with no transfer of a copy, is not conveying.
- *

- * An interactive user interface displays "Appropriate Legal Notices"
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- * work under this License, and how to view a copy of this License. If
- * the interface presents a list of user commands or options, such as a
- * menu, a prominent item in the list meets this criterion.
- *
- * 1. Source Code.
- *
- * The "source code" for a work means the preferred form of the work
- * for making modifications to it. "Object
- * code" means any non-source
- * form of a work.
- *
- * A "Standard Interface" means an interface that either is an official
- * standard defined by a recognized standards body, or, in the case of
- * interfaces specified for a particular programming language, one that
- * is widely used among developers working in that language.
- *
- * The "System Libraries" of an executable work include anything, other
- * than the work as a whole, that (a) is included in the normal form of
- * packaging a Major Component, but which is not part of that Major
- * Component, and (b) serves only to enable use of the work with that
- * Major Component, or to implement a Standard Interface for which an
- * implementation is available to the public in source code form. A
- * "Major Component", in this context, means a major essential component
- * (kernel, window system, and so on) of the specific operating system
- * (if any) on which the executable work runs, or a compiler used to
- * produce the work, or an object
- * code interpreter used to run it.
- *
- * The "Corresponding Source" for a work in object code form means all
- * the source code needed to generate, install, and (for an executable
- * work) run the object code and to modify the work, including scripts to
- * control those activities. However, it does not include the work's
- * System Libraries, or general-purpose tools or generally available free
- * programs which are used unmodified in performing those activities but
- * which are not part of the work. For example, Corresponding Source
- * includes interface definition files associated with source files for
- * the work, and the source code for shared libraries and dynamically
- * linked subprograms that the work is specifically designed to require,
- * such as by intimate data communication or control flow between those
- * subprograms and other parts of the work.
- *
- * The Corresponding Source need not include anything that users
- * can regenerate automatically from other parts of the

Corresponding

* Source.

*

* The Corresponding Source for a work in source code form is that
* same work.

*

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- *
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- *
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- *
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- *
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- * Corresponding Source fixed on a durable physical medium
- * customarily used for software interchange.
- *
- * b) Convey the object code in, or embodied in, a physical product
- * (including a physical distribution medium), accompanied by a
- * written offer, valid for at least three years and valid for as
- * long as you offer spare parts or customer support for that product
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- * product that is covered
- by this License, on a durable physical
- * medium customarily used for software interchange, for a price no
- * more than your reasonable cost of physically performing this
- * conveying of source, or (2) access to copy the
- * Corresponding Source from a network server at no charge.
- *
- * c) Convey individual copies of the object code with a copy of the
- * written offer to provide the Corresponding Source. This
- * alternative is allowed only occasionally and noncommercially, and
- * only if you received the object code with such an offer, in accord
- * with subsection 6b.
- *
- * d) Convey the object code by offering access from a designated
- * place (gratis or for a charge), and offer equivalent access to the
- * Corresponding Source in the same way through the same place at no
- * further charge. You need not require recipients to copy the
- * Corresponding Source along with the object code. If the place to
- * copy the object
- code is a network server, the Corresponding Source
- * may be on a different server (operated by you or a third party)
- * that supports equivalent copying facilities, provided you maintain
- * clear directions next to the object code saying where to find the
- * Corresponding Source. Regardless of what server hosts the

- * Corresponding Source, you remain obligated to ensure that it is
- * available for as long as needed to satisfy these requirements.
- *
- * e) Convey the object code using peer-to-peer transmission, provided
- * you inform other peers where the object code and Corresponding
- * Source of the work are being offered to the general public at no
- * charge under subsection 6d.
- *
- * A separable portion of the object code, whose source code is excluded
- * from the Corresponding Source as a System Library, need not be
- * included in conveying the object code work.
- *
- * A "User Product" is either (1) a "consumer product", which means any
- * tangible personal property which is normally used for personal, family,
- * or household purposes, or (2) anything designed or sold for incorporation
- * into a dwelling. In determining whether a product is a consumer product,
- * doubtful cases shall be resolved in favor of coverage. For a particular
- * product received by a particular user, "normally used" refers to a
- * typical or common use of that class of product, regardless of the status
- * of the particular user or of the way in which the particular user
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- * is a consumer product regardless of whether the product has substantial
- * commercial, industrial or non-consumer uses, unless such uses represent
- * the only significant mode of use of the product.
- *
- * "Installation Information" for a User Product means any methods,
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- * and execute modified versions of a covered work
- in that User Product from
- * a modified version of its Corresponding Source. The information must
- * suffice to ensure that the continued functioning of the modified object
- * code is in no case prevented or interfered with solely because
- * modification has been made.
- *
- * If you convey an object code work under this section in, or with, or
- * specifically for use in, a User Product, and the conveying occurs as
- * part of a transaction in which the right of possession and use of the
- * User Product is transferred to the recipient in perpetuity or for a
- * fixed term (regardless of how the transaction is characterized), the
- * Corresponding Source conveyed under this section must be accompanied
- * by the Installation Information. But this requirement does not apply
- * if neither you nor any third party retains the ability to install
- * modified object code on the User Product (for example, the work has
- * been installed in ROM).
- *
- * The requirement to provide Installation
- Information does not include a
- * requirement to continue to provide support service, warranty, or updates

* for a work that has been modified or installed by the recipient, or for
* the User Product in which it has been modified or installed. Access to a
* network may be denied when the modification itself materially and
* adversely affects the operation of the network or violates the rules and
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*

* Corresponding Source conveyed, and Installation Information provided,
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<meta name="keywords"

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
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<html xmlns="http://www.w3.org/1999/xhtml">
```

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<head>
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<link rel="start" href="index.html" title="Berkeley DB Installation and Build Guide" />
```

```
<link rel="up" href="upgrade_60_toc.html" title="Chapter9. Upgrading Berkeley DB 11.2.5.3 applications to
```


Berkeley DB 12.1.6.0" />

<link rel="prev" href="compare_func.html" title="Comparison Function Signature Change" />

<link rel="next" href="sqlite_ver60.html" title="Updated SQLite Version" />

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<p>Library Version 12.1.6.0</p>

</div>

<table width="100%" summary="Navigation header">

<tr>

<th colspan="3" align="center">License Change</th>

</tr>

<tr>

<td width="20%" align="left">Prev</td>

<th width="60%" align="center">Chapter9.

Upgrading Berkeley DB 11.2.5.3 applications to Berkeley DB 12.1.6.0

</th>

<td width="20%" align="right">Next</td>

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</div>

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<div class="navfooter">

<hr />

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<tr>


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            <a accesskey="u" href="upgrade_60_toc.html">Up</a>
        </td>
        <td width="40%" align="right"><a accesskey="n" href="sqlite_ver60.html">Next</a></td>
    </tr>
</tr>
    <td width="40%"
align="left" valign="top">Comparison Function Signature Change</td>
    <td width="20%" align="center">
        <a accesskey="h" href="index.html">Home</a>
    </td>
    <td width="40%" align="right" valign="top">Updated SQLite Version</td>
</tr>
</table>
</div>
</body>
</html>

```

1.213 tcl 8.6.1

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[illegible]

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1.216 tcl 8.5.14

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  <div class="document">

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      <div class="bodywrapper">
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The implementations of

GSSAPI mechglue in GSSAPI-SPNEGO in

`src/lib/gssapi`, including the following files:

```
lib
gssapi
generic
gssapi_err_generic
et
lib
gssapi
mechglue
g_accept_sec_context
c
lib
gssapi
mechglue
g_acquire_cred
c
lib
```



```

class="n">mglueP</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o">.</span><span class="n">gssapi</span><span
class="o">.</span><span class="n">mechglue</span><span class="o">.</span><span
class="n">oid_ops</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">.</span><span class="n">gssapi</span><span
class="o">.</span><span class="n">spnego</span><span class="o">.</span><span
class="n">gssapiP_spnego</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o">.</span><span
class="n">gssapi</span><span class="o">.</span><span class="n">spnego</span><span
class="o">.</span><span class="n">spnego_mech</span><span class="o">.</span><span class="n">c</span>
</pre></div>

```

</div>

<p>and the initial implementation of incremental propagation, including the following new or changed files:</p>

```

<div class="highlight-default"><div class="highlight"><pre><span></span><span class="n">include</span><span
class="o">.</span><span class="n">iprop_hdr</span><span class="o">.</span><span class="n">h</span>
<span class="n">kadmin</span><span class="o">.</span><span class="n">server</span><span
class="o">.</span><span class="n">ipropd_svc</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">.</span><span class="n">kdb</span><span class="o">.</span><span
class="n">iprop</span><span class="o">.</span><span class="n">x</span>
<span class="n">lib</span><span class="o">.</span><span class="n">kdb</span><span class="o">.</span><span
class="n">kdb_convert</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">.</span><span class="n">kdb</span><span class="o">.</span><span
class="n">kdb_log</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">.</span><span class="n">kdb</span><span class="o">.</span><span
class="n">kdb_log</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o">.</span><span class="n">krb5</span><span
class="o">.</span><span class="n">error_tables</span><span class="o">.</span><span
class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span>
<span class="n">kprop</span><span class="o">.</span><span class="n">kpropd_rpc</span><span
class="o">.</span><span class="n">c</span>
<span class="n">kprop</span><span class="o">.</span><span class="n">kproplog</span><span
class="o">.</span><span class="n">c</span>
</pre></div>

```

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in ``src/lib/gssapi``, including the following files:

.. parsed-literal::

- lib/gssapi/generic/gssapi\_err\_generic.et
- lib/gssapi/mechglue/g\_accept\_sec\_context.c
- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c
- lib/gssapi/mechglue/g\_imp\_name.c
- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c
- lib/gssapi/mechglue/g\_rel\_buffer.c
- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
- lib/gssapi/mechglue/g\_rel\_oid\_set.c
- lib/gssapi/mechglue/g\_seal.c



lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

.. parsed-literal::

include/iprof\_hdr.h  
kadmin/server/iprof\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c



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

and the initial implementation of incremental propagation,  
including  
the following new or changed files:

include/iprof\_hdr.h  
kadmin/server/iprof\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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import os
import sys
import re

def warn(fname, ln, msg):
 print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
 return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

Check a comment for boilerplate violations. Return true if the comment
is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
 text_seen = False
 is_license = False
 for line in comment:
 if not is_license and indicates_license(line):
 is_license = True
 if text_seen:
 warn(fname, ln, 'License begins after first
line of comment')
 elif code_seen:
 warn(fname, ln, 'License after code')
 elif nonlicense_seen:
 warn(fname, ln, 'License after non-license comments')
 break
 # DB2 licenses start with '/*-' and we don't want to change them.
 if line != " and line != '-':
 text_seen = True
 return is_license

def check_file(lines, fname):
 # Skip emacs mode line if present.
 ln = 0
 if ' -*- mode: c;' in lines[ln]:
 ln += 1

 # Check filename comment if present.

```



```

m = re.match(r'^* ([^]*)(- .*)? */', lines[ln])
if m:
 if m.group(1) != fname:
 warn(fname, ln, 'Wrong filename in comment')
 ln += 1

Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
 # Strip out whitespace and comments contained within a line.
 if not in_comment:
 line = re.sub(r'^*.*?*/',
 "", line)
 line = line.strip()

 if not in_comment and '/*' in line:
 (line, sep, comment_part) = line.partition('/*')
 comment = [comment_part.strip()]
 comment_starts_at = ln
 in_comment = True
 elif in_comment and '*/' not in line:
 comment.append(line.lstrip('*').rstrip())
 elif in_comment:
 (comment_part, sep, line) = line.partition('*/')
 comment.append(comment_part.strip())
 is_license = check_comment(comment, fname, comment_starts_at,
 code_seen, nonlicense_seen)
 nonlicense_seen = nonlicense_seen or not is_license
 in_comment = False
 elif line.strip() != "":
 code_seen = True

 ln += 1

for fname in sys.argv[1:]:
 if fname.startswith('.'):
 fname = fname[2:]
 f = open(fname)
 lines = f.readlines()
 f.close()
 check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*

```

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@page

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@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

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and valid for as

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. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

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```
src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp
```

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
```



src/devices/xditview/page.c  
src/devices/xditview/parse.c  
src/devices/xditview/xdit.bm  
src/devices/xditview/xdit\_mask.bm  
src/devices/xditview/xditview.c

src/include/DviChar.h  
src/include/XFontName.h

src/libs/libxutil/DviChar.c  
src/libs/libxutil/XFontName.c

## Macro Packages

-----

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac  
tmac/doc-old.tmac  
tmac/doc-common  
tmac/doc-ditroff  
tmac/doc-nroff  
tmac/doc-syms  
tmac/groff\_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac  
tmac/groff\_me.man  
doc/meintro.me  
doc/meintro\_fr.me  
doc/meref.me

## Hyphenation Patterns

-----

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

<ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex> .

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.



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. The file ``tmac/hyphen.fr'` contains the same patterns as the file ``frhyph.tex'` (for TeX), which can be found at

<http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex> .

The patterns have been converted to a format groff can understand.

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. The file ``tmac/hyphen.sv'` is identical to the file ``svhyph.tex'`, which can be found at

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. The files ``tmac/hyphen.det'` and ``tmac/hyphen.den'` contain the same patterns as the files ``dehyph-t-2017-03-31.pat'` and ``dehyphn-t-2017-03-31.pat'` (for TeX), respectively, which can be found at

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. The file ``tmac/hyphen.cs'` contains the same patterns as the file ``czhyphen.tex'` (for TeX), which can be found in the archive

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## 1.227 glib 2.40.0

## 1.228 sudo 1.8.10

### 1.228.1 Available under license :

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



Campbell, Aaron  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike

G., Daniel Richard  
Gailly, Jean-loup  
Garca-Fontes, Walter  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, YOSHIFUJI  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Juhani, Timo  
KIKUCHI, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai



Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
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Levin, Dmitry V.  
Libby, Kendall  
Lobbess, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung,  
Jan Thomas  
Morris, Charles  
Mueller, Andreas  
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Nikitser, Peter A.  
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Paquet, Eric  
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Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
SATO, Yuichi



Snchez, Wilfredo  
Saucier, Jean-Francois  
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Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
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Spradling, Cloyce D.  
Stier, Matthew  
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Street, Russell  
Stritzky, Tilo  
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Thomas, Matthew  
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Toft, Martin

Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario  
Bogusz, Jakub  
Casagrande, Milo  
Castro, Felipe



Chornoivan, Yuri  
Diguez, Francisco  
Ferreira, Rafael  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hein, Jochen  
Jerovek, Damir  
Karvonen, Jorma  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Qun, Trn Ngc  
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Taniguchi, Yasuaki  
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jloup@gzip.org      madler@alumni.caltech.edu

# 1.229 wget 1.15

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# 1.230 lvm2 2.02.97

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## 1.232 libdaemon 0.14

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# 1.235 gawk 4.1.1

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## 1.237 json-c 0.13.1



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# 1.238 pcre 8.38

## 1.238.1 Available under license :

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### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
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## 1.240 libjpeg 8d

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## DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW        General description of JPEG and the IJG software.  
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REFERENCES     Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
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TO DO           Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt     How to configure and install the IJG software.  
usage.txt       Usage instructions for cjpeg, djpeg, jpegtran,  
                 rdjpgcom, and wrjpgcom.  
\*.1             Unix-style man pages for programs (same info as usage.txt).  
wizard.txt      Advanced usage instructions for JPEG wizards only.  
change.log      Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt     How to use the JPEG library in your own programs.  
example.c       Sample code for calling the JPEG library.  
structure.txt    Overview of the JPEG library's internal structure.  
filelist.txt  
Road map of IJG files.  
coderules.txt   Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.



## OVERVIEW

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This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf.



It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

## REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general.

The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).



Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).

Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library



uses our library to implement TIFF/JPEG per the Note.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org).

The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsrc.v9c.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr9c.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/>

and other news.answers archive sites,

including the official news.answers

archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](http://rtfm.mit.edu:ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/).

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## ACKNOWLEDGMENTS

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Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini  
for inviting me to  
fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel  
for corresponding business development.



Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the [ijg.org](http://ijg.org) site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

## FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

Furthermore,

the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and



are incompatible with formats supported by actual IJG libjpeg distributions.  
One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.  
The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.  
We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.  
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The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.  
IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO  
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Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.  
More features are being prepared for coming releases...



# 1.241 net-tools 1.60

## 1.241.1 Available under license :

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Version 2, June 1991

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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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be a software library.

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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.)

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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is a sample; alter the names:

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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The

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section 10

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## 1.247 linux-kernel 3.10.0



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## TI DSP/Bridge Driver - Contributors File

The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to [omar.ramirez@ti.com](mailto:omar.ramirez@ti.com) or [x095840@ti.com](mailto:x095840@ti.com).

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\*



- \* 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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Version 3, 29 June 2007

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The

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>



for the initial saa7146 driver and its recent overhaul

Christian Theiss

for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>

Ralph Metzler <rjkm@metzlerbros.de>

for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>

for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>

for CyberLogin for Linux which allows logging onto EON

(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>

for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>

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

Steve Brown <sbrown@cortland.com>

for his AFC kernel thread

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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

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Andreas 'randy' Weinberger  
for the support of the Fujitsu-Siemens Activy budget DVB-S

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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.

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## 1.248 gmp 6.1.2

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```
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Version 3, 29 June 2007

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/* hdparm.c - Command line interface to get/set hard disk parameters */
/* - by Mark Lord 1994-2008 -- freely distributable */
```

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# 1.257 libnss-mdns 0.10

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Version 2.1, February 1999

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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



- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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# 1.259 systemd 219-19.el7\_2.13

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

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

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

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

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

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The modified work must itself be a software library.

@item

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

@item

You must  
cause the whole of the work to be licensed at no  
charge to all third parties under the terms of this License.

@item

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

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

@end enumerate

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



themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

@item

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to



distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item

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

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

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

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

Otherwise,  
if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work



during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a

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

@item

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

@item

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

@item

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

@item

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

@end enumerate

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



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

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

@item

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

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@smallexample

@var{one line to give the library's name and an idea of what it does.}

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smallexample

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@smallexample

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

Ty Coon, President of Vice

@end smallexample

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

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

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

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

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

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

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

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

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

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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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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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



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

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

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

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If distribution of object code is made by offering access to copy



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

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

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

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.



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\*

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\*/

/\* OPENBSD ORIGINAL: sys/sys/poll.h \*/

```
#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_
```

```
typedef struct pollfd {
 int fd;
 short events;
 short revents;
} pollfd_t;
```

```
typedef unsigned int nfds_t;
```

```
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
```

```
#define INFTIM (-1) /* not
standard */
```

```
int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/*
```

```
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```



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- \*/

```
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
```

```
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
```

```
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
```

```
/* Prototype */
pid_t waitpid(int,
int *, int);
```

```
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```



```

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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

```

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#
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!include "../plain.sdf"
!include "copyright.sdf"; plain
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## 1.269 gmp 6.0.0

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

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](mailto:dickey@invisible-island.net)>

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

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>



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## 1.281 libnettle6 3.4

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# 1.282 tar 1.30

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# 1.283 coreutils 8.30

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```

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Ty Coon, President of Vice
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The

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@item

You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a

@item

The modified work must itself be a software library.

@item

You

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

@item

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item

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



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

@end enumerate

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

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

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

@item

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

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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



@item

You may copy

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

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

@item

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.



@item

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution

displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a

@item

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

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one

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

@item

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



@item

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

@item

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

@end enumerate

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

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

@item

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

@enumerate a

@item

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate



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@page

@unnumberedsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that



everyone can redistribute  
and change. You can do so by permitting  
redistribution under these terms (or, alternatively, under the terms of the  
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is  
safest to attach them to the start of each source file to most effectively  
convey the exclusion of warranty; and each file should have at least the  
``copyright" line and a pointer to where the full notice is found.

```
@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

This library is free software; you can redistribute it and/or modify it  
under the terms of the GNU Lesser General Public License as published by  
the Free Software Foundation; either version 2.1 of the License, or (at  
your option) any later version.

This library is distributed in the hope that it will be useful, but  
WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR  
PURPOSE. See the GNU  
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You should have received a copy of the GNU Lesser General Public  
License along with this library; if not, write to the Free Software  
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,  
USA.

```
@end smallexample
```

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

You should also get your employer (if you work as a programmer) or your  
school, if any, to sign a ``copyright disclaimer" for the library, if  
necessary. Here is a sample; alter the names:

```
@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

That's all there is to it!  
The gettext-runtime package is partially under the LGPL and partially under  
the GPL.



The following parts are under the LGPL, see file intl/COPYING.LIB:

- the libintl and libasprintf libraries and their header files,
- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel directory:

- the \_programs\_ gettext, ngettext, envsubst,
- the documentation.

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

^L

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

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

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



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

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

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

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

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

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data



prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices



stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,



instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline



functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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



- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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

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

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

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When a "work that uses the Library" uses material from a header file



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

code for the work under the terms of Section 6.

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

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b) Use a suitable shared library mechanism for linking with the



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

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That's all there is to it!

# 1.296 less 530

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Version 3, 29 June 2007

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

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The

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# 1.297 libusb 1.0.22

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

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(Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.  
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.



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

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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: ls-config

Source: <https://github.com/lucas-net-pl/ls-config>

Files: \*

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# different copyright/license attached and list them here.

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@c \input texinfo.tex @c -\*-texinfo-\*-

@c

@c %\*\*start of header

@c All text is ignored before the setfilename.

@setfilename LGPL.info

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@center Version 2.1, February 1999



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@center Preamble

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For example, on rare occasions, there may be a special need to encourage



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

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The modified work must itself be a software library.

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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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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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@page

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@t{

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

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Ty Coon, President of Vice  
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@c @bye

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Version 2.1, February 1999

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# 1.304 iconv 2.28

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## 1.305 tcl 8.6.8

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Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.



Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, YOSHIFUJI  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Pele Jorge, Joel  
Juhani, Timo  
KIKUCHI, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbess, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Marchionna, Michael D.  
Markham, Paul  
Martinian,  
Emin  
Meskes, Michael  
Michael, David



Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
SATO, Yuichi  
Snchez, Wilfredo  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.



Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznicek  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blattermann, Mario  
Bogusz, Jakub  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Ferreira, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Fredric  
Hein, Jochen  
Hufthammer, Karl Ove



Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen,  
Gbor  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Qun, Trn Ngc  
Rogueiro, Leandro  
Sarer, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
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## 1.307 nginx 1.13.1

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## 1.310 python 3.7.4

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History and License

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## 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 <https://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 <https://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 <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes



+-----+-----+-----+-----+-----+				
2.1.3				
2.1.2	2002	PSF	yes	
+-----+-----+-----+-----+-----+				
2.2 and above	2.1.1	2001-now	PSF	yes
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#### Mersenne Twister

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The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`



or `init_by_array(init_key, key_length)`.

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Sockets

-----

The `:mod:`socket``

module uses the functions, `:func:`getaddrinfo``, and

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Asynchronous socket services

-----

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UUencode and UUdecode functions

-----

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

#### XML Remote Procedure Calls

-----

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test\_epoll

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Select kqueue

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cfuhash

-----

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

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copyright = {
 date = "1992-2017";
 owner = "The University of Delaware and Network Time Foundation";
 eaddr = "http://bugs.ntp.org, bugs@ntp.org";
 type = ntp;
};
```

long-opts;



```

config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `
eval VERSION=\`sed -e 's/.*,\\[//' -e 's/\\.*/' < ../sntp/m4/version.m4\`
[-z "${VERSION}"] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION;

```

```

version-value = "; /* Don't use -v as a shortcut for --version */

```

```

/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/

```

```

// doc-sub = {
// sub-name = version;
// sub-text = 's/#VERSION#/<<version>>/g';
// };

```

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<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
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<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
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```



clock driver, Trimble PARSE support</li>

<li><a href="mailto:%20nelson@bolyard.me">Nelson B Bolyard &lt;nelson@bolyard.me></a> update and complete broadcast and crypto features in snpt</li>

<li><a href="mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca">Jean-Francois Boudreault &lt;Jean-Francois.Boudreault@viagenie.qc.ca></a>

IPv6 support</li>

<li><a href="mailto:%20reg@dwf.com">Reg Clemens &lt;reg@dwf.com></a> Oncore driver (Current maintainer)</li>

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<li><a href="mailto:%20casey@csc.co.za">Casey Crellin &lt;casey@csc.co.za></a> vxWorks (Tornado) port and help with target configuration</li>

<li><a href="mailto:%20Sven\_Dietrich@trimble.COM">Sven Dietrich &lt;sven\_dietrich@trimble.com></a>

Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.</li>

<li><a href="mailto:%20dundas@salt.jpl.nasa.gov">John A. Dundas III &lt;dundas@salt.jpl.nasa.gov></a>

Apple A/UX port</li>

<li><a href="mailto:%20duwe@immd4.informatik.uni-erlangen.de">Torsten Duwe

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<li><a href="mailto:%20dennis@mrbill.canet.ca">Dennis Ferguson &lt;dennis@mrbill.canet.ca></a>

foundation

code for NTP Version 2 as specified in RFC-1119</li>

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NeoClock4X clock driver</li>

<li><a href="mailto:%20glenn@herald.usask.ca">Glenn Hollinger &lt;glenn@herald.usask.ca></a> GOES clock driver</li>

<li><a href="mailto:%20iglesias@uci.edu">Mike Iglesias &lt;iglesias@uci.edu></a> DEC Alpha port</li>

<li><a href="mailto:%20jagubox.gsfc.nasa.gov">Jim Jagielski &lt;jim@jagubox.gsfc.nasa.gov></a> A/UX port</li>

<li><a href="mailto:%20bj@chatham.usdesign.com">Jeff Johnson &lt;bj@chatham.usdesign.com></a> massive prototyping overhaul</li>

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Lambermont &lt;Hans.Lambermont@nl.origin-it.com></a> or <a

href="mailto:H.Lambermont@chello.nl">&lt;H.Lambermont@chello.nl></a> ntpsweep</li>

<li><a href="mailto:%20phk@FreeBSD.ORG">Poul-Henning Kamp &lt;phk@FreeBSD.ORG></a> Oncore driver (Original author)</li>

<li><a href="http://www4.informatik.uni-erlangen.de/%7ekardel">Frank Kardel</a> <a

href="mailto:%20kardel%20%28at%29%20ntp%20%28dot%29%20org">&lt;kardel (at) ntp (dot) org></a> PARSE &lt;GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</li>

<li><a href="mailto:kuehn@ntp.org">Johannes Maximilian Kuehn &lt;kuehn@ntp.org></a> Rewrote <tt>snpt</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt></li>

<li><a href="mailto:%20jones@hermes.chpc.utexas.edu">William L. Jones

&lt;jones@hermes.chpc.utexas.edu></a> RS/6000 AIX modifications, HPUX modifications</li>

<li><a href="mailto:%20dkatz@cisco.com">Dave Katz &lt;dkatz@cisco.com></a>



RS/6000 AIX port</li>

<li><a href="mailto:%20leres@ee.lbl.gov">Craig Leres &lt;leres@ee.lbl.gov></a> 4.4BSD port, ppsclock, Magnavox GPS clock driver</li>

<li><a href="mailto:%20lindholm@ucs.ubc.ca">George Lindholm &lt;lindholm@ucs.ubc.ca></a> SunOS 5.1 port</li>

<li><a href="mailto:%20louie@ni.umd.edu">Louis A. Mamakos &lt;louie@ni.umd.edu></a> MD5-based authentication</li>

<li><a href="mailto:%20thorinn@diku.dk">Lars H. Mathiesen &lt;thorinn@diku.dk></a> adaptation of foundation code for Version 3 as specified in RFC-1305</li>

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<li><a href="mailto:%20mills@udel.edu">David L. Mills &lt;mills@udel.edu></a> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36</li>

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<li><a href="mailto:%20neal@ntp.org">Rob Neal &lt;neal@ntp.org></a> Bancomm refclock and config/parse code maintenance</li>

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  13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
  14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
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# 1.314 file 5.34

## 1.314.1 Available under license :

```
-*-makefile-*-
BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

Shared object suffix
SO = so

Non-shared intermediate object suffix
STATIC_O = ao
```



## ## Compilation rules

```
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c)
$(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

## ## Dependency rules

```
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[:]*/1.o $@ : /g" > $@; \
[-s $@] || rm -f $@'
```

```
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[:]*/1.o $@ : /g" > $@; \
[-s $@] || rm -f $@'
```

## ## Versioned libraries rules

```
%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s {<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {*F}. $(SO).$(SO_TARGET_VERSION) $@
```

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# 1.315 gnutls 3.6.4

## 1.315.1 Available under license :

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Version 2.1, February 1999

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#####



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## version 0.1  
##  
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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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# 1.317 inetutils 1.9.2

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```
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# 1.319 Isof 4.87

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# 1.320 less 466

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## 1.321 gnutls 3.3.5

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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



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



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Any executables

containing that work also fall under Section 6,

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Version 3, 29 June 2007

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Constant-time SSSE3 AES core implementation.
version 0.1

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## 1.322 protobuf 3.6.1

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\* VI syntax highlighting tweaks.  
\* Fix compiler to not make output executable.  
Dilip Joseph <dilip.antony.joseph@gmail.com>  
\* Heuristic detection of sub-messages when printing unknown fields in text format.  
Brian Atkinson <nairb774@gmail.com>  
\* Added @Override annotation to generated Java code where appropriate.  
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>  
\* Tru64 support.  
Monty Taylor <monty.taylor@gmail.com>  
\* Solaris 10 + Sun Studio fixes.  
Alek Storm <alek.storm@gmail.com>  
  
\* Slicing support for repeated scalar fields for the Python API.  
Oleg Smolsky <oleg.smolsky@gmail.com>



- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

Brian Olson <brianolson@google.com>

- \* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

- \* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- \* Added generation of field number constants.

Wink Saville <wink@google.com>

- \* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

- \* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- \* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- \* Detect whether zlib is new enough in configure script.
- \* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- \* Optimize Java serialization code when writing a small message to a stream.
- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- \* Clean up some Java warnings.
- \* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- \* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

- \* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

- \* Fixed detection of sched\_yield on Solaris.
- \* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- \* Fixed minor IBM xLC compiler build issues
- \* Added atomicops for AIX (POWER)

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## 1.323 dosfs-tools 2.11

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Version 3, 29 June 2007

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# 1.324 acpid 2.0.30

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```

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## 1.325 elfutils 0.175



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# The original version for gzip was written by Paul Eggert.

# Modified for XZ Utils by Andrew Dudman and Lasse Collin.



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# 1.334 boost 1.68.0

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely



due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems.

Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied

the SunOS dynamic loader

specific code.

Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code.

Al Dosser provided Alpha/OSF/1 code.

He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the

code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the

experimentation that led to the

current typed allocation facility. (His dynamic type inference code hasn't

made it into the released version of the collector, yet.)

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</p>

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</html>

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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
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 <articleinfo>
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<copyright>
 <year>1977</year> <year>1985</year> <holder>Someone else</holder>
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////

[#mpl]

# MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

# 1.335 junit 4.1.jar.pack

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#define _KERBEROS_MIT_COPYRIGHT_H
```

```
/*
#pragma ident "@(#)mit-copyright.h 1.4 93/02/04 SMI" */
```

```
#endif /* _KERBEROS_MIT_COPYRIGHT_H */
/*
```

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```

```
#pragma ident "@(#)mit-sipb-copyright.h 1.5 93/02/04 SMI"
```

```
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```



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# 1.337 libteam 1.17-7.el7\_2

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Version 3, 29 June 2007

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## 1.340 hunspell 1.7.0



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\* <http://www.cs.ucla.edu/ficus-members/geoff/ispell.html>

\* (the home page for ispell)

\*

\* An almost complete rewrite of MySpell for use by

\* the Mozilla project has been developed by David Einstein



- \* (Deinst@world.std.com). David and I are now
- \* working on parallel development tracks to help
- \* our respective projects (Mozilla and OpenOffice.org
- \* and we will maintain full affix file and dictionary
- \* file compatibility and work on merging our versions
- \* of MySpell back into a single tree. David has been
- \* a significant help in improving MySpell.
- \*
- \* Special thanks also go to La'szlo' Ne'meth
- \* <nemethl@gyorsposta.hu> who is the author of the
- \* Hungarian dictionary and who developed and contributed
- \* the code to support compound words in MySpell
- \* and fixed numerous problems with the encoding
- \* case conversion tables.
- \*
- \*/

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# 1.341 udev 3.2.5

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# 1.342 curl 7.18.2

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

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Any executables

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(1)

ExceptionConverter:

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Read [http://www.javaspecialists.co.za/archive/newsletter.do?issue=033&print=yes&locale=en\\_US](http://www.javaspecialists.co.za/archive/newsletter.do?issue=033&print=yes&locale=en_US)

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(2)

SimpleXMLParser:

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<http://www.javaworld.com/javaworld/javatips/jw-javatip128.html>

Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in

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

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# 1.344 python 2.7.17

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

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

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

All

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no



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

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

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

\*

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

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

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

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

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

\* and spelling mistakes.

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

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

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather

lists

\* (skb->atm.iovnt != 0) for Rx skb's passed to vcc->push.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

\* Fix is simple: make large buffers large enough to hold entire

\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

\* Trick is to avoid fragmenting Linux, due to need for a lot of large

\* buffers. This is done by 2 things:

\* 1) skb->destructor / skb->atm.recycle\_buffer

\* combined, allow nicstar\_free\_rx\_skb to be called to

\* recycle large data buffers

\* 2) skb\_clone of received buffers

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation

\* details.



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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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## 1.347 curl 7.56.1

### 1.347.1 Available under license :

License Mixing

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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## libcurl

Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

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# 1.348 rsyslog 8.1908.0

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Version 3, 29 June 2007

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```

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# 1.351 kmod 20 21.el7

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# 1.357 libidn 1.33 1

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Version 3, 29 June 2007

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```

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# 1.366 pam 1.1.8 18.el7

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## 1.372 audit 2.6.5 3.el7

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## 1.373 rsyslog 3.16.1

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## 1.376 glib 2.50.3 3.el7



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\* configure.ac, Makefile.am: The original versions were derived from the  
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino  
<jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were  
derived from the ones in the Monotone project, revision  
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>



\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp:

These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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-->

```

```

<!-- $Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

```

```

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```

```

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
version="1.0">

```

```

<xsl:template name="isc.copyright.format">
 <xsl:param name="text"/>
 <xsl:value-of select="$isc.copyright.leader"/>
 <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
 <xsl:text>
</xsl:text>
 <xsl:variable name="rest" select="substring-after($text, '
')"/>
 <xsl:if test="translate($rest, '	 ','')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="$rest"/>
 </xsl:call-template>
 </xsl:if>
</xsl:template>

```

```

<xsl:variable name="isc.copyright.text">
 <xsl:text>
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 </xsl:text>

```

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```
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
 <xsl:text>
</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--
```

- Local variables:

- mode: sgml

- End:

-->

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# 1.380 dhcp 4.2.5 42.el7.centos

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\$Id: COPYRIGHT,v 1.17.14.2 2012/01/04 23:46:18 tbox Exp \$

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino

<jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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<!-- \$Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"  
version="1.0">

<xsl:template name="isc.copyright.format">



```

<xsl:param name="text"/>
<xsl:value-of select="$isc.copyright.leader"/>
<xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
<xsl:text>
</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '
')"/>
<xsl:if test="translate($rest, '	 ', ' ')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="$rest"/>
 </xsl:call-template>
</xsl:if>
</xsl:template>

```

```

<xsl:variable name="isc.copyright.text">
 <xsl:text>
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 purpose with or without fee is hereby granted, provided that the above
 copyright notice and this permission notice appear in all copies.
 </xsl:text>
</xsl:variable>

```

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```

</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
 <xsl:text>
</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

```



<!--

- Local variables:  
- mode: sgml  
- End:

-->

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pi2k.txt

pi5k.txt

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino

<jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
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<!-- \$Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"  
version="1.0">

<xsl:template name="isc.copyright.format">



```

<xsl:param name="text"/>
<xsl:value-of select="$isc.copyright.leader"/>
<xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
<xsl:text>
</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '
')"/>
<xsl:if test="translate($rest, '	 ', ' ')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="$rest"/>
 </xsl:call-template>
</xsl:if>
</xsl:template>

```

```

<xsl:variable name="isc.copyright.text">
 <xsl:text>
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 copyright notice and this permission notice appear in all copies.
 </xsl:text>
</xsl:variable>

```

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```

</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
 <xsl:text>
</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

```



<!--

- Local variables:  
- mode: sgml  
- End:

-->

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# 1.383 curl 7.28.1

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=====

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## 1.399 linux-kernel 3.4.30

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## The End

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abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build\_requires:

File::Temp: 0.15

Test::Harness: 3.16

Test::More: 0.49

generated\_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Module-Build

resources:

MailingList: <mailto:module-build@perl.org>

license: <http://dev.perl.org/licenses/>

repository: <http://github.com/dagolden/module-build/>

version: 3

-----

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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program `Gnomovision' (a program to direct compilers to make passes  
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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

That's all there is to it!  
#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the



C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

```
use strict;
```

```
use Config;
```

```
BEGIN { require './test.pl' }
```

```
if ($Config{usecrosscompile}) {
```

```
 skip_all("Not all files are available during cross-compilation");
```

```
}
```

```
my ($opt) = @ARGV;
```

```
my $readme_year = readme_year();
```

```
my $v_year = v_year();
```

```
Check that both copyright dates are up-to-date, but only if requested, so
```

```
that tests still pass for people intentionally working on older versions:
```

```
if ($opt eq '--now')
```

```
{
```

```
 my $current_year = (gmtime)[5] + 1900;
```

```
 is $v_year, $current_year, 'perl -v copyright includes current
year';
```

```
 is $readme_year, $current_year, 'README copyright includes current year';
```

```
}
```

```
Otherwise simply check that the two copyright dates match each other:
```

```
else
```

```
{
```

```
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
```

```
}
```

```
done_testing;
```

```
sub readme_year
```

```
returns the latest copyright year from the top-level README file
```

```
{
```

```
 open my $readme, '<', './README' or die "Opening README failed: $!";
```



```
The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /\.*\b(\d{4,})/s
 or die "Year not found in README copyright message '$copyright_msg'";

$year;
}
```

```
sub v_year
returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
 or die "Copyright statement not found in perl -v output '$output'";

$year;
}
```

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object



file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

code for the work under the terms of Section 6.

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

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

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

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

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

c) Accompany the work with a written offer, valid for at least



three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally

distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<one line to give the library's name and a brief idea of what it does.>  
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Ty Coon, President of Vice

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## 1.412 libconfig 1.7.2

### 1.412.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: ls-config

Source: <https://github.com/lucas-net-pl/ls-config>

Files: \*

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Files: debian/\*

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of the GNU General  
Public License version 2 can be found in "/usr/share/common-licenses/GPL-2".

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Please also look if there are files or directories which have a
different copyright/license attached and list them here.
Please avoid to pick license terms that are more restrictive than the
packaged work, as it may make Debian's contributions unacceptable upstream.
@c \input texinfo.tex @c -*-texinfo-*
@c
@c %**start of header
```

```
@c All text is ignored before the setfilename.
@setfilename LGPL.info
```

```
@center GNU LESSER GENERAL PUBLIC LICENSE
@center Version 2.1, February 1999
```

```
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```

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

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

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

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

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

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

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

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

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

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

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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The modified work must itself be a software library.

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

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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

@end enumerate

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



themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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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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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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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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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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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to



apply, and the section as a whole is intended to apply in other circumstances.

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}
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@t{
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

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



@c @bye

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The End

---

abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build\_requires:

File::Temp: 0.15

Test::Harness: 3.16

Test::More: 0.49

generated\_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Module-Build

resources:

MailingList: <mailto:module-build@perl.org>

license: <http://dev.perl.org/licenses/>

repository: <http://github.com/dagolden/module-build/>

version: 3

-----  
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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the  
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match  
reality.

Optionally you can pass the C<--now> option to check they are at the current  
year. This isn't checked by default, so that it doesn't fail for people  
working on older releases. It should be run before making a new release.

=cut

use strict;

use Config;

BEGIN { require './test.pl' }

if ( \$Config{usecrosscompile} ) {

skip\_all( "Not all files are available during cross-compilation" );

}

my (\$opt) = @ARGV;

my \$readme\_year = readme\_year();

my \$v\_year = v\_year();

# Check that both copyright dates are up-to-date, but only if requested, so  
# that tests still pass for people intentionally working on older versions:

if (\$opt eq '--now')

{

my \$current\_year = (gmtime)[5] + 1900;



```

is $v_year, $current_year, 'perl -v copyright includes current
year';
is $readme_year, $current_year, 'README copyright includes current year';
}

```

```

Otherwise simply check that the two copyright dates match each other:
else
{
is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

```

```

done_testing;

```

```

sub readme_year
returns the latest copyright year from the top-level README file
{

open my $readme, '<', '../README' or die "Opening README failed: $!";

The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /\b(\d{4,})/s
 or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

```

```

sub v_year
returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.\b(\d{4,})/i
 or die "Copyright statement not found in perl -v output '$output'";

$year;
}

```

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The End

# 1.414 icu 53

## 1.414.1 Available under license :

```
-makefile--
BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

Shared object suffix
SO = so

Non-shared intermediate object suffix
STATIC_O = ao

Compilation rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c)
$(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
```



```
%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

## Dependency rules

```
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/($*)\.o[:]*/\1.o $@ : /g"' > $@; \
[-s $@] || rm -f $@'
```

```
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/($*)\.o[:]*/\1.o $@ : /g"' > $@; \
[-s $@] || rm -f $@'
```

## Versioned libraries rules

```
%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@
```

## Bind internal references

```
LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

##

```
Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

## End BSD-specific setup

# 1.415 log-rotate 3.14.0

## 1.415.1 Available under license :

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Version 2, June 1991



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Written

by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

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## 1.421 dosfs-tools 4.1

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@end enumerate

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@heading Appendix: How to Apply These Terms to Your New Programs

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@smallexample  
@var{one line to give the program's name  
and a brief idea of what it does.}  
Copyright (C) @var{yyyy} @var{name of author}

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

@smallexample  
Gnomovision version  
69, Copyright (C) @var{year} @var{name of author}  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.  
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commands you use may be called something other than @samp{show w} and  
@samp{show c}; they could even be mouse-clicks or menu items---whatever  
suits your program.

You should also get your employer (if you work as a programmer) or your  
school, if any, to sign a ``copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

@example  
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989



Ty Coon, President of Vice  
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Version 2.1, February 1999

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Version 3, 29 June 2007

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# 1.424 netkit-tftp 1.0

## 1.424.1 Available under license :

```
/* $OpenBSD: main.c,v 1.4 1997/01/17 07:13:30 millert Exp $ */
/* $NetBSD: main.c,v 1.6 1995/05/21 16:54:10 mycroft Exp $ */
```

```
/*
```

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## 1.425 tinyxml-2 3.0.0

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## 1.426 tcpdump 3.8.3

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# 1.427 free-type 2.4.11

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2006-Jan-27

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All lines in this file are patterns, including the comment lines; this
means that e.g. `FTL.TXT' matches all files that have this string in
the file name (including the path relative to the current directory,
always starting with `./').
#
Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdfplib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#

```



```
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
EOF
```

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# 1.430 shim 10.6

## 1.430.1 Available under license :

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## 1.435 cracklib 2.9.5

### 1.435.1 Available under license :

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Version 2.1, February 1999

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file to most

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.



<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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

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

[Cracklib-devel] cracklib license

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

Attachments: Message as HTML

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

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

Re: [Cracklib-devel] cracklib license

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

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

-- Nathan

=20

-----

Nathan Neulinger EMail: nneul@um...

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

UMR Information Technology Fax: (573) 341-4216

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

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

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

> Mike Frysinger

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

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing



> libraries under  
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan

wrote:

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20  
applications are also GPL-2 which imo is just wrong. it isnt the place of =  
a=20  
library to dictact to application writes what license they should be using.=  
=20  
thus LGPL-2.1 enters to fill this void.  
=2Dmike

Re: [Cracklib-devel]

cracklib license

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

Seems like the ideal thing here would be for you and the other distro  
maintainers to get together with Alec in a conversation and come to a  
decision as to what licensing scheme y'all want. I haven't really done  
much other than cleaning up the packaging and patches and a small bit of  
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan  
=20

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

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

UMR Information Technology Fax: (573) 341-4216



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

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

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

> Mike Frysinger

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

> To: Neulinger, Nathan

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

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

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

> > and see if he wants to relicense his code as LGPL... but at this

> point,

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

> it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

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> change until it was mentioned in the latest notes.

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> unlike the old license, GPL-2 prevents people from using cracklib

> unless their

> applications are also GPL-2 which imo is just wrong. it isnt the

> place of a

> library

to dictact to application writes what license they should

> be using.

> thus LGPL-2.1 enters to fill this void.

> -mike

Re: [Cracklib-devel] cracklib license

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

> Seems like the ideal thing here would be for you and the other distro

> maintainers to get together with Alec in a conversation and come to a

> decision as to what licensing scheme y'all want. I haven't really done

> much other than cleaning up the packaging and patches and a small

> bit of

> additional code, so whatever licensing y'all come up with is fine

> by me.

I am sympathetic. Guys, what do you reckon?



What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I

think it is in everyone's

best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

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

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

> > Seems like the ideal thing here would be for you and the other distro  
> > maintainers to get together with Alec in a conversation and come to a  
> > decision as to what licensing scheme y'all want. I haven't really done  
> > much other than cleaning up the packaging and patches and a small  
> > bit of  
> > additional

code, so whatever licensing y'all come up with is fine

> > by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.



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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
> GPLv2 with the option of using

the library under a later version of the

> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

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

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

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

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



>  
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.  
> >  
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
> > make the change now ?  
>  
> yes. go for it. thanks++

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

-----  
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
-----

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

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

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

-----  
From



alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623  
for <nneul@umn.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from  
[82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length:  
585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umn.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk



>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

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

Happy now? :-)

-a

# 1.436 beecrypt 4.2.1

## 1.436.1 Available under license :

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

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

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

Any executables

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That's all there is to it!  
I would like to thank the following people (in alphabetical order):

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired and contributed to many of the changes for version 3.0.0. He also provided the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.



Further thanks go to:

- AMD, for donating a copy of "AMD x86-64 Architecture Programmer's Manual".
- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to test and BeeCrypt on many new platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information, reported bugs, provided feedback, or works on including BeeCrypt in any other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll rectify the situation as quickly as possible.

## 1.437 Im-sensors 3.4.0

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- \* Frodo Looijaard  
Original author of libsensors, sensors-detect, sensors and isadump.
- \* Merlin Hughes  
Original author of sensord.
- \* Bob Schlaermann



Dynamic chip feature detection (a.k.a. generic chip support) in  
libsensors and sensors.

\* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

\* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in

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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>



\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp:  
These files were derived from the file\_handle, systembuf, pipe and pistream  
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh,  
admin/check-style-common.awk,  
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,  
except the first one, were first implemented in the Buildtool project.  
They were later adapted to be part of Boost.Process and, during that  
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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<!-- Id -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
<xsl:param name="text"/>
<xsl:value-of select="$isc.copyright.leader"/>
<xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
<xsl:text>
</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '
')"/>
<xsl:if test="translate($rest, '	 ','')">
<xsl:call-template name="isc.copyright.format">
<xsl:with-param
name="text" select="$rest"/>
</xsl:call-template>
</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
<xsl:text>
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</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
 <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
- mode: sgml
- End:

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## 1.451 rpm 4.14.2

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```
libfreedreno_layout = static_library(
 'freedreno_layout',
 [
 'fd6_layout.c',
 'freedreno_layout.c',
],
 include_directories : [inc_freedreno, inc_common],
 c_args : [c_vis_args, no_override_init_args],
 cpp_args : [cpp_vis_args],
 dependencies : idep_nir_headers,
 build_by_default : false,
)
```

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## 1.459 libxext 1.3.1



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# 1.460 libuv 1.30.1

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<YEAR> = 2010

Component: Array every Method  
Licensor: Mozilla Developer Network  
Website: [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/Array/every#Polyfill](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/every#Polyfill)  
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Component: Array reduceRight Method  
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Website: [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/Array/ReduceRight#Polyfill](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/ReduceRight#Polyfill)  
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Component: blanket.js 1.1.5  
Licensor: Alex Seville  
Website: <http://blanketjs.org/>  
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Component: crossroads.js 0.12.0

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Website: <http://github.com/millermedeiros/crossroads.js/>

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Component: d3 3.4.12

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Website: <http://github.com/mbostock/d3/>

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<YEAR> = 2010-2014

Component: datajs - JavaScript Library for data-centric web applications 1.1.0

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Website: <http://datajs.codeplex.com/>

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<copyright holders> = Microsoft

Component: Element.getAttributeNames Method

Licensors: Mozilla Developer Network

Website: <https://developer.mozilla.org/en-US/docs/Web/API/Element/getAttributeNames#Polyfill>

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Component: es6-promise v4.2.4 - a tiny implementation of Promises/A+.

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Website: <https://github.com/stefanpenner/es6-promise>

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Component: Esprima

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Website: <http://github.com/doctyper/flexie/>



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Component: Function.prototype.bind

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Website: [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/Function/bind](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function/bind)

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Component: google-caja Build 4884

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Website:

<http://code.google.com/p/google-caja/>

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Component: google-code-prettify 20130304

Licensors: Various

Website: <http://code.google.com/p/google-code-prettify/>

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Component: Handlebars 4.0.5

Licensors: Yehuda Katz

Website: <http://handlebarsjs.com/>

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Component: Hasher 1.2.0

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Website: <http://github.com/millermedeiros/hasher>

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Component: iscroll 4.2.5

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Website: <http://github.com/cubiq/iscroll/>

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<copyright holders> = Matteo Spinelli

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Component: jQuery-UI 1.10.4  
Licensor: Paul Bakaus  
Website: <http://github.com/jquery/jquery-ui/>  
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Component: jQuery mobile 1.3.1  
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Licensor: Spencer Tipping  
Website: <https://github.com/spencertipping/jquery.fix.clone>  
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Component: js-signals 1.0.0  
Licensor: Miller Medeiros  
Website: <http://github.com/millermedeiros/js-signals/>  
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Website: <http://www.json.org/js.html>  
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Component: JSZip 2.2.0  
Licensor: Stuart Knightley, David Duponchel, Franz Buchinger, Antnio Afonso  
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Component: JUnit Reporter for QUnit  
Licensor: jQuery Foundation and other contributors  
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Component: klay.js 0.4.1  
Licensor: Ulf Rueegg  
Website: <https://github.com/OpenKieler/klayjs>  
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Component: less.js 1.6.3  
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Website: <http://github.com/cloudhead/less.js/>  
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Component: mobify.js 1.1  
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Website: <http://www.mobify.com/>  
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Component: mobiscroll 2.9.0  
Licensor: Mathias Bynens  
Website: <http://mobiscroll.codeplex.com/>  
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Component: node-lru-cache 2.7.3 - A cache object that deletes the least-recently-used items.  
Licensor: Isaac Z. Schlueter and Contributors  
Website: <https://github.com/isaacs/node-lru-cache/blob/v2.7.3/>



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Component: Object assign Method  
Licensor: Mozilla Developer Network  
Website: [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/Object/assign#Polyfill](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object/assign#Polyfill)  
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Component: punycode.js 1.2.3  
Licensor: Acid Media  
Website: <http://github.com/bestiejs/punycode.js/>  
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Component: qunit 1.18.0  
Licensor: jQuery Foundation and other contributors  
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Component: qunit 2.3.2  
Licensor: jQuery Foundation and other contributors  
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Component: qunit composite 1.0.4  
Licensor: jQuery Foundation and other contributors  
Website: <https://github.com/JamesMGreene/qunit-composite>  
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Component: requirejs 2.1.8  
Licensor: The Dojo Foundation  
Website: <http://github.com/jrburke/requirejs/>  
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Component: sinon-qunit 2.0.0



Licensors: Christian Johansen  
Website: <http://github.com/cjohansen/sinon-qunit/>  
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<OWNER> = Christian Johansen  
<ORGANIZATION> = Christian Johansen  
<YEAR> = 2010-2011

Component: Sinon.JS 1.14.1  
Licensors: Christian Johansen  
Website: <http://github.com/cjohansen/Sinon.JS/>  
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Component: Sinon.JS 4.4.6  
Licensors: Christian Johansen  
Website: <http://github.com/cjohansen/Sinon.JS/>  
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Component: String startsWith Method 0.2.0  
Licensors: Mathias Bynens  
Website: <https://github.com/mathiasbynens/String.prototype.startsWith>  
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<copyright holders> = Mathias Bynens <<https://mathiasbynens.be/>>

Component: String endsWith Method 0.2.0  
Licensors: Mathias Bynens  
Website: <https://github.com/mathiasbynens/String.prototype.endsWith>  
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Component: String includes Method 1.0.0  
Licensors: Mathias Bynens  
Website: <https://github.com/mathiasbynens/String.prototype.includes>  
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Component: String repeat Method 0.2.0  
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Website: <https://github.com/mathiasbynens/String.prototype.repeat>



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Component: String padStart Method 1.0.1

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Component: String padEnd

Method 1.0.1

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Website: <https://github.com/uxitten/polyfill>

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Website: <http://github.com/cubiq/SwipeView/>

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Component: TDOP

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Website: <https://github.com/douglascrockford/TDOP>

License: Apache License 2.0, granted to SAP by Douglas Crockford

Component: Unicode Common Locale Data Repository

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Website: <http://cldr.unicode.org/>

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Component: unorm 1.3.3

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Website: <http://github.com/walling/unorm/>

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Component: URI.js 1.19.1

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Website: <http://github.com/medialize/URI.js/>

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Component: vkBeautify 0.99.00.beta

Licensors: Vadim Kiryukhin

Website: <http://www.eslinstructor.net/vkbeautify/>

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Component: Zynga Scroller 1.2.1-0-g5d43806

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Website: <http://zynga.github.com/scroller/>

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Component: jalaali-js

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Website: <https://github.com/jalaali/jalaali-js/>

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Component: bignumber.js 6.0.0

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Website: <https://github.com/MikeMcl/bignumber.js/>

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Component: lodash 4.17.10

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mnater/Hyphenopoly 2.4.0

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src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdfplib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

src/pcf/pcfread.c

src/pcf/pcfread.h

src/pcf/pcfutil.c

src/pcf/pcfutil.h

src/pcf/README

src/pcf/rules.mk

#

src/gzip/adler32.c

src/gzip/infblock.c

src/gzip/infblock.h

src/gzip/infcodes.c



src/gzip/infcodes.h  
src/gzip/inffixed.h  
src/gzip/inflate.c  
src/gzip/inftrees.c  
src/gzip/inftrees.h  
src/gzip/infutil.c  
src/gzip/infutil.h  
src/gzip/zconf.h  
src/gzip/zlib.h  
src/gzip/zutil.c  
src/gzip/zutil.h  
#  
src/tools/ftandom/ftandom.c  
#  
#  
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-----  
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# 1.468 openssl-fipscanister 1.35-9.el6

## 1.468.1 Available under license :

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

```
#!/usr/bin/env perl
#
=====
Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
project. The module is, however, dual licensed under OpenSSL and
CRYPTOGAMS licenses depending on where you obtain it. For further
details see http://www.openssl.org/~appro/cryptogams/.
=====
#
SHA1 for C64x.
#
November 2016
#
This is fully-unrolled SHA1 implementation. It's 25% faster than
one with compact loops, doesn't use in-memory ring buffer, as
everything is accomodated in registers, and has "perfect" interrupt
agility. Drawback is obviously the code size...

while (($output=shift) && ($output!~/^[w\~]*\.\w+$/)) { }
open STDOUT,">$output";

($CTX,$INP,$NUM) = ("A4","B4","A6"); # arguments

($A,$B,$C,$D,$E, $Arot,$F,$F0,$K) = map("A$_",(16..20, 21..24));
@V = ($A,$B,$C,$D,$E);
@X
= map("B$_",(16..31));
($Actx,$Bctx,$Cctx,$Dctx,$Ectx) = map("A$_",(3,6..9)); # zaps $NUM

sub BODY_00_19 {
my ($i,$a,$b,$c,$d,$e) = @_;
my $j = ($i+1)&15;

$code.=<<<__ if ($i<14);
 ROTL $a,5,$Arot ;; $i
|| AND $c,$b,$F
|| ANDN $d,$b,$F0
|| ADD $K,$e,$e ; E+=K
|| LDNW *${INP}++,@X[$i+2]
 OR $F0,$F,$F ; F_00_19(B,C,D)
```



```

|| ROTL $b,30,$b
|| SWAP2 @X[$i+1],@X[$i+1]
|| ADD @X[$i],$e,$e ; E+=X[i]
ADD $Arot,$e,$e ; E+=rot(A,5)
|| SWAP4 @X[$i+1],@X[$i+1]
ADD $F,$e,$e ; E+=F_00_19(B,C,D)

```

```

$code.=<<<____ if ($i==14);
ROTL $a,5,$Arot ;; $i
|| AND $c,$b,$F
|| ANDN $d,$b,$F0
|| ADD $K,$e,$e ; E+=K
OR $F0,$F,$F ; F_00_19(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i],$e,$e ; E+=X[i]
|| SWAP2 @X[$i+1],@X[$i+1]
ADD $Arot,$e,$e ; E+=rot(A,5)
|| SWAP4 @X[$i+1],@X[$i+1]
ADD $F,$e,$e ; E+=F_00_19(B,C,D)

```

```

$code.=<<<____ if ($i==15);
|| XOR @X[(($j+2)&15],@X[$j],@X[$j]
ROTL $a,5,$Arot ;; $i
|| AND $c,$b,$F
|| ANDN $d,$b,$F0
|| ADD $K,$e,$e ; E+=K
|| XOR @X[(($j+8)&15],@X[$j],@X[$j]
OR $F0,$F,$F ;
F_00_19(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i],$e,$e ; E+=X[i]
|| XOR @X[(($j+13)&15],@X[$j],@X[$j]
ADD $Arot,$e,$e ; E+=rot(A,5)
|| ROTL @X[$j],1,@X[$j]
ADD $F,$e,$e ; E+=F_00_19(B,C,D)

```

```

$code.=<<<____ if ($i>15);
|| XOR @X[(($j+2)&15],@X[$j],@X[$j]
ROTL $a,5,$Arot ;; $i
|| AND $c,$b,$F
|| ANDN $d,$b,$F0
|| ADD $K,$e,$e ; E+=K
|| XOR @X[(($j+8)&15],@X[$j],@X[$j]
OR $F0,$F,$F ; F_00_19(B,C,D)
|| ROTL $b,30,$b
|| ADD @X[$i&15],$e,$e ; E+=X[i]
|| XOR @X[(($j+13)&15],@X[$j],@X[$j]
ADD $Arot,$e,$e ; E+=rot(A,5)

```



```

|| ROTL @X[$j],1,@X[$j]
ADD $F,$e,$e ; E+=F_00_19(B,C,D)

```

```

}

```

```

sub BODY_20_39 {
my ($i,$a,$b,$c,$d,$e) = @_;
my $j = ($i+1)&15;

```

```

$code.=<<____ if ($i<79);
|| XOR @X[($j+2)&15],@X[$j],@X[$j]
ROTl $a,5,$Arot ;; $i
|| XOR $c,$b,$F
|| ADD $K,$e,$e ; E+=K
|| XOR @X[($j+8)&15],@X[$j],@X[$j]
XOR $d,$F,$F ; F_20_39(B,C,D)
|| ROTl $b,30,$b
|| ADD @X[$i&15],$e,$e ; E+=X[i]
|| XOR @X[($j+13)&15],@X[$j],@X[$j]
ADD $Arot,$e,$e ; E+=rot(A,5)
||
ROTl @X[$j],1,@X[$j]
ADD $F,$e,$e ; E+=F_20_39(B,C,D)

```

```

$code.=<<____ if ($i==79);
|| [A0] B loop?
|| [A0] LDNW *${INP}++,@X[0] ; pre-fetch input
ROTl $a,5,$Arot ;; $i
|| XOR $c,$b,$F
|| ADD $K,$e,$e ; E+=K
|| [A0] LDNW *${INP}++,@X[1]
XOR $d,$F,$F ; F_20_39(B,C,D)
|| ROTl $b,30,$b
|| ADD @X[$i&15],$e,$e ; E+=X[i]
ADD $Arot,$e,$e ; E+=rot(A,5)
ADD $F,$e,$e ; E+=F_20_39(B,C,D)
|| ADD $Bctx,$a,$a ; accumulate context
|| ADD $Cctx,$b,$b
ADD $Dctx,$c,$c
|| ADD $Ectx,$d,$d
|| ADD $Actx,$e,$e
;;===== branch to loop? is taken here

}

```

```

sub BODY_40_59 {
my ($i,$a,$b,$c,$d,$e) = @_;
my $j = ($i+1)&15;

```



```

$code.=<<____;
|| XOR @X[$j+2]&15,@X[$j],@X[$j]
 ROTL $a,5,$Arot ;; $i
|| AND $c,$b,$F
|| AND $d,$b,$F0
|| ADD $K,$e,$e ; E+=K
|| XOR @X[$j+8]&15,@X[$j],@X[$j]
 XOR $F0,$F,$F
|| AND $c,$d,$F0
|| ROTL $b,30,$b
|| XOR @X[$j+13]&15,@X[$j],@X[$j]
|| ADD @X[$i+15],$e,$e ; E+=X[i]
 XOR $F0,$F,$F ; F_40_59(B,C,D)
|| ADD $Arot,$e,$e ; E+=rot(A,5)
|| ROTL @X[$j],1,@X[$j]
 ADD $F,$e,$e ;
 E+=F_20_39(B,C,D)

}

```

```

$code=<<____;
.text

.if .ASSEMBLER_VERSION<7000000
.asg 0,__TI_EABI__
.endif
.if __TI_EABI__
.asg sha1_block_data_order,_sha1_block_data_order
.endif

.asg B3,RA
.asg A15,FP
.asg B15,SP

.if .BIG_ENDIAN
.asg MV,SWAP2
.asg MV,SWAP4
.endif

.global _sha1_block_data_order
_sha1_block_data_order:
.asmfnc
MV $NUM,A0 ; reassign $NUM
[!A0] BNOP RA ; if ($NUM==0) return;
|| [A0] LDW *${CTX}[0],$A ; load A-E...
[A0] LDW *${CTX}[1],$B
[A0] LDW *${CTX}[2],$C

```



```

[A0] LDW *${CTX}[3],$D
[A0] LDW *${CTX}[4],$E
[A0] LDNW *${INP}++,@X[0] ; pre-fetch input
[A0] LDNW *${INP}++,@X[1]
NOP 3

loop?:
SUB A0,1,A0
|| MV $A,$Actx
|| MVD $B,$Bctx
|| SWAP2 @X[0],@X[0]
|| MVKL 0x5a827999,$K
MVKH 0x5a827999,$K ; K_00_19
|| MV $C,$Cctx
|| MV $D,$Dctx
|| MVD $E,$Ectx
|| SWAP4 @X[0],@X[0]

——
for ($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
$code.=<<<____;
|| MVKL 0x6ed9eba1,$K
MVKH 0x6ed9eba1,$K ; K_20_39

——
for
(;$i<40;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<<____;
|| MVKL 0x8f1bbcdc,$K
MVKH 0x8f1bbcdc,$K ; K_40_59

——
for (;$i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
$code.=<<<____;
|| MVKL 0xca62c1d6,$K
MVKH 0xca62c1d6,$K ; K_60_79

——
for (;$i<80;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<<____;
BNOP RA ; return
STW $A,*${CTX}[0] ; emit A-E...
STW $B,*${CTX}[1]
STW $C,*${CTX}[2]
STW $D,*${CTX}[3]
STW $E,*${CTX}[4]
.endasmfunc

.sect .const
.cstring "SHA1 block transform for C64x, CRYPTOGRAMS by <appro\@openssl.org>"
.align 4

——

```



```
print $code;
close STDOUT;
```

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```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-c64x-large.pl
```

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/dsa/fips_dsa_lib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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2.0.16/fips/ecdsa/fips_ecdsa_lib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/dh/fips_dh_lib.c

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- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips\_util.h
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- \*
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- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/hmac/fips\_hmactest.c
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- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa\_pss.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn\_x931p.c

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/engine/engine.h

```

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/ec/ec\_curve.c

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```
#define FIPS_AUTH_KEY "etaonrishdlcupfm"
#define FIPS_AUTH_CRYPTOFFICER "7f92562d409c903322c0f94a1188ae8178339a4f"
#define FIPS_AUTH_CRYPTouser "cb6cbdaad26cd210a8b31a5d56a876ee1d51a96c"
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_auth.in
```

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/sha/fips\_sha1\_selftest.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips\_rand\_selftest.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/aes/fips\_aes\_selftest.c



```

*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/rand/fips_rand.h
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```

#!/usr/bin/env perl
#
=====
Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
project. The module is, however, dual licensed under OpenSSL and
CRYPTOGAMS licenses depending on where you obtain it. For further
details see http://www.openssl.org/~appro/cryptogams/.
=====
#
This module implements support for AES instructions as per PowerISA
specification version 2.07, first implemented by POWER8 processor.
The module is endian-agnostic in sense that it supports both big-
and little-endian cases. Data alignment in parallelizable modes is
handled with VSX loads and stores, which implies MSR.VSX flag being
set. It should also be noted that ISA specification doesn't prohibit
alignment exceptions for these instructions on page boundaries.
Initially alignment was
handled in pure AltiVec/VMX way [when data
is aligned programmatically, which in turn guarantees exception-
free execution], but it turned to hamper performance when vcipher
instructions are interleaved. It's reckoned that eventual
misalignment penalties at page boundaries are in average lower
than additional overhead in pure AltiVec approach.
#
May 2016
#
Add XTS subroutine, 9x on little- and 12x improvement on big-endian
systems were measured.
#
#####
Current large-block performance in cycles per byte processed with
128-bit key (less is better).
#
CBC en-/decrypt CTR XTS
POWER8[le] 3.96/0.72 0.74 1.1
POWER8[be] 3.75/0.65 0.66 1.0

$flavour = shift;

if ($flavour =~ /64/) {
 $SIZE_T = 8;

```



```

$LRSAVE =2*$SIZE_T;
$STU ="stdu";
$POP ="ld";
$PUSH ="std";
$UCMP ="cmpld";
$SHL ="sldi";
} elsif ($flavour =~ /32/) {
$SIZE_T =4;
$LRSAVE =$SIZE_T;
$STU ="stwu";
$POP ="lwz";
$PUSH ="stw";
$UCMP ="cmplw";
$SHL ="slwi";
}
else { die "nonsense $flavour"; }

$LITTLE_ENDIAN = ($flavour =~ /le$/) ? $SIZE_T : 0;

$0 =~ m/(.*[\\])[^\\]+$/; $dir=$1;
($xlate="{dir}ppc-xlate.pl" and -f $xlate) or
($xlate="{dir}../perlasm/ppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";

open STDOUT,"|^X $xlate $flavour ".shift || die "can't call $xlate: $!";

$FRAME=8*$SIZE_T;
$prefix="aes_p8";

$sp="r1";
$vrsave="r12";

#####
{{{ # Key setup procedures #
my ($inp,$bits,$out,$ptr,$cnt,$rounds)=map("r$_",(3..8));
my ($zero,$in0,$in1,$key,$rcon,$mask,$tmp)=map("v$_",(0..6));
my ($stage,$outperm,$outmask,$outhead,$outtail)=map("v$_",(7..11));

$code.=<<___.
.machine "any"

.text

.align 7
rcon:
.long 0x01000000, 0x01000000, 0x01000000, 0x01000000 ?rev
.long 0x1b000000, 0x1b000000, 0x1b000000, 0x1b000000 ?rev
.long 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c ?rev

```



```

.long 0,0,0,0 ?asis
Lconsts:
mflr r0
bcl 20,31,\,$+4
mflr $ptr
#vvvvv "distance between . and rcon
addi $ptr,$ptr,-0x48
mtlr r0
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
.asciz "AES for PowerISA 2.07, CRYPTOGAMS by <appro\@openssl.org>"

.globl .${prefix}_set_encrypt_key
.align 5
.${prefix}_set_encrypt_key:
Lset_encrypt_key:
mflr r11
$PUSH r11,$LRSAVE($sp)

li $ptr,-1
${UCMP}i $inp,0
beq- Lenc_key_abort # if ($inp==0) return -1;
${UCMP}i $out,0
beq- Lenc_key_abort # if ($out==0) return -1;
li $ptr,-2
cmpwi $bits,128
blt- Lenc_key_abort
cmpwi $bits,256
bgt- Lenc_key_abort
andi. r0,$bits,0x3f
bne- Lenc_key_abort

lis r0,0xffff0
mfspr $vrsave,256
mtspr 256,r0

bl Lconsts
mtlr r11

neg r9,$inp
lvx $in0,0,$inp
addi $inp,$inp,15 # 15 is not typo
lvsr $key,0,r9 # borrow $key
li r8,0x20
cmpwi $bits,192
lvx $in1,0,$inp
le?vspltisb $mask,0x0f # borrow $mask

```



```

lvx $rcon,0,$ptr
le?vxor $key,$key,$mask # adjust for byte swap
lvx $mask,r8,$ptr
addi $ptr,$ptr,0x10
vperm $in0,$in0,$in1,$key #
align [and byte swap in LE]
li $cnt,8
vxor $zero,$zero,$zero
mtctr $cnt

```

```

?lvsr $outperm,0,$out
vspltisb $outmask,-1
lvx $outhead,0,$out
?vperm $outmask,$zero,$outmask,$outperm

```

```

blt Loop128
addi $inp,$inp,8
beq L192
addi $inp,$inp,8
b L256

```

```

.align 4
Loop128:
vperm $key,$in0,$in0,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$outhead,$outtail,$outmask
vmr $outhead,$outtail
vcipherlast $key,$key,$rcon
stvx $stage,0,$out
addi $out,$out,16

```

```

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vadduwm $rcon,$rcon,$rcon
vxor $in0,$in0,$key
bdnz Loop128

```

```

lvx $rcon,0,$ptr # last two round keys

```

```

vperm $key,$in0,$in0,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$outhead,$outtail,$outmask
vmr $outhead,$outtail

```



```

vcipherlast $key,$key,$rcon

stvx $stage,0,$out
addi $out,$out,16

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vadduwm $rcon,$rcon,$rcon
vxor $in0,$in0,$key

vperm $key,$in0,$in0,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
vcipherlast $key,$key,$rcon
stvx $stage,0,$out
addi $out,$out,16

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vxor $in0,$in0,$key
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
stvx $stage,0,$out

addi $inp,$out,15 # 15 is not typo
addi $out,$out,0x50

li $rounds,10
b Ldone

.align 4
L192:
lvx $tmp,0,$inp
li $cnt,4
vperm $outtail,$in0,$in0,$outperm #
rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
stvx $stage,0,$out

```



```

addi $out,$out,16
vperm $in1,$in1,$tmp,$key # align [and byte swap in LE]
vspltisb $key,8 # borrow $key
mtctr $cnt
vsububm $mask,$mask,$key # adjust the mask

```

Loop192:

```

vperm $key,$in1,$in1,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vcipherlast $key,$key,$rcon

```

```

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp

```

```

vsldoi $stage,$zero,$in1,8
vspltw $tmp,$in0,3
vxor $tmp,$tmp,$in1
vsldoi $in1,$zero,$in1,12 # >>32
vadduwm $rcon,$rcon,$rcon
vxor $in1,$in1,$tmp
vxor $in0,$in0,$key
vxor $in1,$in1,$key
vsldoi $stage,$stage,$in0,8

```

```

vperm $key,$in1,$in1,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$stage,$stage,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
vcipherlast $key,$key,$rcon
stvx $stage,0,$out

```

```

addi $out,$out,16

```

```

vsldoi $stage,$in0,$in1,8
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vperm $outtail,$stage,$stage,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
stvx $stage,0,$out
addi $out,$out,16

```



```

vspltw $tmp,$in0,3
vxor $tmp,$tmp,$in1
vsldoi $in1,$zero,$in1,12 # >>32
vadduwm $rcon,$rcon,$rcon
vxor $in1,$in1,$tmp
vxor $in0,$in0,$key
vxor $in1,$in1,$key
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
stvx $stage,0,$out
addi $inp,$out,15 # 15 is not typo
addi $out,$out,16
bdnz Loop192

```

```

li $rounds,12
addi $out,$out,0x20
b Ldone

```

```

.align 4
L256:
lvx $tmp,0,$inp
li $cnt,7
li $rounds,14
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
stvx $stage,0,$out
addi $out,$out,16
vperm $in1,$in1,$tmp,$key #
align [and byte swap in LE]
mtctr $cnt

```

```

Loop256:
vperm $key,$in1,$in1,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$in1,$in1,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
vcipherlast $key,$key,$rcon
stvx $stage,0,$out
addi $out,$out,16

```

```

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32

```



```

vxor $in0,$in0,$tmp
vadduwm $rcon,$rcon,$rcon
vxor $in0,$in0,$key
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
stvx $stage,0,$out
addi $inp,$out,15 # 15 is not typo
addi $out,$out,16
bdz Ldone

vspltw $key,$in0,3 # just splat
vsldoi $tmp,$zero,$in1,12 # >>32
vsbox $key,$key

vxor $in1,$in1,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in1,$in1,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in1,$in1,$tmp

vxor $in1,$in1,$key
b Loop256

.align 4
Ldone:
lvx $in1,0,$inp #
redundant in aligned case
vsel $in1,$southead,$in1,$outmask
stvx $in1,0,$inp
li $ptr,0
mtspr 256,$vrsave
stw $rounds,0($out)

Lenc_key_abort:
mr r3,$ptr
blr
.long 0
.byte 0,12,0x14,1,0,0,3,0
.long 0
.size ${prefix}_set_encrypt_key,.-.${prefix}_set_encrypt_key

.globl ${prefix}_set_decrypt_key
.align 5
${prefix}_set_decrypt_key:
$STU $sp,-$FRAME($sp)
mflr r10
$PUSH r10,$FRAME+$LRSAVE($sp)

```



```

bl Lset_encrypt_key
mtlr r10

cmpwi r3,0
bne- Ldec_key_abort

slwi $cnt,$rounds,4
subi $inp,$out,240 # first round key
srwi $rounds,$rounds,1
add $out,$inp,$cnt # last round key
mtctr $rounds

Ldeckey:
lwz r0, 0($inp)
lwz r6, 4($inp)
lwz r7, 8($inp)
lwz r8, 12($inp)
addi $inp,$inp,16
lwz r9, 0($out)
lwz r10,4($out)
lwz r11,8($out)
lwz r12,12($out)
stw r0, 0($out)
stw r6, 4($out)
stw r7, 8($out)
stw r8, 12($out)
subi $out,$out,16
stw r9, -16($inp)
stw r10,-12($inp)
stw r11,-8($inp)
stw r12,-4($inp)
bdnz Ldeckey

xor r3,r3,r3 #
return value
Ldec_key_abort:
addi $sp,$sp,$FRAME
blr
.long 0
.byte 0,12,4,1,0x80,0,3,0
.long 0
.size ${prefix}_set_decrypt_key,-.${prefix}_set_decrypt_key

}}}
#####
{{{ # Single block en- and decrypt procedures #
sub gen_block () {
my $dir = shift;

```



```
my $n = $dir eq "de" ? "n" : "";
my ($inp,$out,$key,$rounds,$idx)=map("r$_",(3..7));
```

```
$code.=<<____;
.globl .${prefix}_${dir}crypt
.align 5
.${prefix}_${dir}crypt:
 lwz $rounds,240($key)
 lis r0,0xfc00
 mfspr $vrsave,256
 li $idx,15 # 15 is not typo
 mtspr 256,r0
```

```
 lvx v0,0,$inp
 neg r11,$out
 lvx v1,$idx,$inp
 lvsl v2,0,$inp # inpperm
 le?vspltisb v4,0x0f
 ?lvsl v3,0,r11 # outperm
 le?vxor v2,v2,v4
 li $idx,16
 vperm v0,v0,v1,v2 # align [and byte swap in LE]
 lvx v1,0,$key
 ?lvsl v5,0,$key # keyperm
 srwi $rounds,$rounds,1
 lvx v2,$idx,$key
 addi $idx,$idx,16
 subi $rounds,$rounds,1
 ?vperm v1,v1,v2,v5 #
 align round key
```

```
 vxor v0,v0,v1
 lvx v1,$idx,$key
 addi $idx,$idx,16
 mtctr $rounds
```

```
Loop_${dir}c:
 ?vperm v2,v2,v1,v5
 v${n}cipher v0,v0,v2
 lvx v2,$idx,$key
 addi $idx,$idx,16
 ?vperm v1,v1,v2,v5
 v${n}cipher v0,v0,v1
 lvx v1,$idx,$key
 addi $idx,$idx,16
 bdnz Loop_${dir}c
```

```
 ?vperm v2,v2,v1,v5
```



```

v${n}cipher v0,v0,v2
lvx v2,$idx,$key
?vperm v1,v1,v2,v5
v${n}cipherlast v0,v0,v1

vspltisb v2,-1
vxor v1,v1,v1
li $idx,15 # 15 is not typo
?vperm v2,v1,v2,v3 # outmask
le?vxor v3,v3,v4
lvx v1,0,$out # outhead
vperm v0,v0,v0,v3 # rotate [and byte swap in LE]
vsel v1,v1,v0,v2
lvx v4,$idx,$out
stvx v1,0,$out
vsel v0,v0,v4,v2
stvx v0,$idx,$out

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,3,0
.long 0
.size ${prefix}_${dir}crypt,.-.${prefix}_${dir}crypt

}
&gen_block("en");
&gen_block("de");
}}}
#####
{{{ # CBC en- and decrypt procedures #
my
($inp,$out,$len,$key,$ivp,$enc,$rounds,$idx)=map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout,$tmp)= map("v$_",(0..3));
my ($ivec,$inptail,$inpperm,$outhead,$outperm,$outmask,$keyperm)=
 map("v$_",(4..10));
$code.=<<___;
.globl ${prefix}_cbc_encrypt
.align 5
${prefix}_cbc_encrypt:
 ${UCMP}i $len,16
 bltlr-

cmpwi $enc,0 # test direction
lis r0,0xffe0
mfspr $vrsave,256
mtspr 256,r0

```



```

li $idx,15
vxor $rndkey0,$rndkey0,$rndkey0
le?vspltisb $tmp,0x0f

lvx $ivec,0,$ivp # load [unaligned] iv
lvsl $inpperm,0,$ivp
lvx $inptail,$idx,$ivp
le?vxor $inpperm,$inpperm,$tmp
vperm $ivec,$ivec,$inptail,$inpperm

neg r11,$inp
?lvsl $keyperm,0,$key # prepare for unaligned key
lwz $rounds,240($key)

lvsl $inpperm,0,r11 # prepare for unaligned load
lvx $inptail,0,$inp
addi $inp,$inp,15 # 15 is not typo
le?vxor $inpperm,$inpperm,$tmp

?lvsl $outperm,0,$out # prepare for unaligned store
vspltisb $outmask,-1
lvx $outhead,0,$out
?vperm $outmask,$rndkey0,$outmask,$outperm
le?vxor $outperm,$outperm,$tmp

srwi $rounds,$rounds,1
li $idx,16
subi $rounds,$rounds,1
beq Lcbc_dec

Lcbc_enc:
vmr $inout,$inptail
lvx $inptail,0,$inp
addi $inp,$inp,16
mtctr $rounds
subi $len,$len,16 #
len-=16

lvx $rndkey0,0,$key
vperm $inout,$inout,$inptail,$inpperm
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
vxor $inout,$inout,$ivec

```



```

Loop_cbc_enc:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
bdnz Loop_cbc_enc

```

```

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipherlast $ivec,$inout,$rndkey0
${UCMP}i $len,16

```

```

vperm $tmp,$ivec,$ivec,$outperm
vsel $inout,$outhead,$tmp,$outmask
vmr $outhead,$tmp
stvx $inout,0,$out
addi $out,$out,16
bge Lcbc_enc

```

```

b Lcbc_done

```

```

.align 4

```

```

Lcbc_dec:
${UCMP}i $len,128
bge _aesp8_cbc_decrypt8x
vmr $tmp,$inptail
lvx $inptail,0,$inp
addi $inp,$inp,16
mtctr $rounds
subi $len,$len,16 #
len-=16

```

```

lvx $rndkey0,0,$key
vperm $tmp,$tmp,$inptail,$inpperm
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$tmp,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16

```



```

Loop_cbc_dec:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
bdnz Loop_cbc_dec

```

```

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vncipherlast $inout,$inout,$rndkey0
${UCMP}i $len,16

```

```

vxor $inout,$inout,$ivec
vmr $ivec,$tmp
vperm $tmp,$inout,$inout,$outperm
vsel $inout,$outhead,$tmp,$outmask
vmr $outhead,$tmp
stvx $inout,0,$out
addi $out,$out,16
bge Lcbc_dec

```

```

Lcbc_done:
addi $out,$out,-1
lvx $inout,0,$out #
redundant in aligned case
vsel $inout,$outhead,$inout,$outmask
stvx $inout,0,$out

```

```

neg $enc,$ivp # write [unaligned] iv
li $idx,15 # 15 is not typo
vxor $rndkey0,$rndkey0,$rndkey0
vspltisb $outmask,-1
le?vspltisb $tmp,0x0f
?lvs1 $outperm,0,$enc
?vperm $outmask,$rndkey0,$outmask,$outperm
le?vxor $outperm,$outperm,$tmp
lvx $outhead,0,$ivp
vperm $ivec,$ivec,$ivec,$outperm
vsel $inout,$outhead,$ivec,$outmask
lvx $inptail,$idx,$ivp
stvx $inout,0,$ivp

```



```
vsel $inout,$ivec,$inptail,$outmask
```

```
stvx $inout,$idx,$ivp
```

```
mtspr 256,$vrsave
```

```
blr
```

```
.long 0
```

```
.byte 0,12,0x14,0,0,0,6,0
```

```
.long 0
```

```
#####
```

```
{ { #
```

```
Optimized CBC decrypt procedure #
```

```
my $key_="r11";
```

```
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
```

```
$x00=0 if ($flavour =~ /osx/);
```

```
my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7)=map("v$_",(0..3,10..13));
```

```
my ($out0,$out1,$out2,$out3,$out4,$out5,$out6,$out7)=map("v$_",(14..21));
```

```
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
```

```
v26-v31 last 6 round keys
```

```
my ($tmp,$keyperm)=$($in3,$in4); # aliases with "caller", redundant assignment
```

```
$code.=<<____;
```

```
.align 5
```

```
_aes8_cbc_decrypt8x:
```

```
$STU $sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
```

```
li r10,`$FRAME+8*16+15`
```

```
li r11,`$FRAME+8*16+31`
```

```
stvx v20,r10,$sp # ABI says so
```

```
addi r10,r10,32
```

```
stvx v21,r11,$sp
```

```
addi r11,r11,32
```

```
stvx v22,r10,$sp
```

```
addi r10,r10,32
```

```
stvx v23,r11,$sp
```

```
addi r11,r11,32
```

```
stvx v24,r10,$sp
```

```
addi r10,r10,32
```

```
stvx v25,r11,$sp
```

```
addi r11,r11,32
```

```
stvx v26,r10,$sp
```

```
addi r10,r10,32
```

```
stvx v27,r11,$sp
```

```
addi r11,r11,32
```

```
stvx v28,r10,$sp
```

```
addi r10,r10,32
```

```
stvx v29,r11,$sp
```

```
addi r11,r11,32
```

```
stvx v30,r10,$sp
```



```

stvx v31,r11,$sp
li r0,-1
stw $vrsave,`$FRAME+21*16-4`($sp) #
save vrsave
li $x10,0x10
$PUSH r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li $x20,0x20
$PUSH r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li $x30,0x30
$PUSH r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li $x40,0x40
$PUSH r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li $x50,0x50
$PUSH r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li $x60,0x60
$PUSH r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li $x70,0x70
mtspr 256,r0

```

```

subi $rounds,$rounds,3 # -4 in total
subi $len,$len,128 # bias

```

```

lvx $rndkey0,$x00,$key # load key schedule
lvx v30,$x10,$key
addi $key,$key,0x20
lvx v31,$x00,$key
?vperm $rndkey0,$rndkey0,v30,$keyperm
addi $key_,$sp,$FRAME+15
mtctr $rounds

```

```

Load_cbc_dec_key:
?vperm v24,v30,v31,$keyperm
lvx v30,$x10,$key
addi $key,$key,0x20
stvx v24,$x00,$key_ # off-load round[1]
?vperm v25,v31,v30,$keyperm
lvx v31,$x00,$key
stvx v25,$x10,$key_ # off-load round[2]
addi $key_,$key_,0x20
bdnz Load_cbc_dec_key

```

```

lvx v26,$x10,$key
?vperm v24,v30,v31,$keyperm
lvx v27,$x20,$key
stvx v24,$x00,$key_ #
off-load round[3]
?vperm v25,v31,v26,$keyperm
lvx v28,$x30,$key

```



```

stvx v25,$x10,$key_ # off-load round[4]
addi $key_,$sp,$FRAME+15 # rewind $key_
?vperm v26,v26,v27,$keyperm
lvx v29,$x40,$key
?vperm v27,v27,v28,$keyperm
lvx v30,$x50,$key
?vperm v28,v28,v29,$keyperm
lvx v31,$x60,$key
?vperm v29,v29,v30,$keyperm
lvx $out0,$x70,$key # borrow $out0
?vperm v30,v30,v31,$keyperm
lvx v24,$x00,$key_ # pre-load round[1]
?vperm v31,v31,$out0,$keyperm
lvx v25,$x10,$key_ # pre-load round[2]

#lvx $sinptail,0,$inp # "caller" already did this
#addi $inp,$inp,15 # 15 is not typo
subi $inp,$inp,15 # undo "caller"

le?li $idx,8
lvx_u $in0,$x00,$inp # load first 8 "words"
le?lvsl $inpperm,0,$idx
le?vspltisb $tmp,0x0f
lvx_u $in1,$x10,$inp
le?vxor $inpperm,$inpperm,$tmp # transform for lvx_u/stvx_u
lvx_u $in2,$x20,$inp

le?vperm $in0,$in0,$in0,$inpperm
lvx_u $in3,$x30,$inp
le?vperm $in1,$in1,$in1,$inpperm
lvx_u $in4,$x40,$inp
le?vperm $in2,$in2,$in2,$inpperm
vxor $out0,$in0,$rndkey0
lvx_u $in5,$x50,$inp
le?vperm $in3,$in3,$in3,$inpperm
vxor $out1,$in1,$rndkey0
lvx_u $in6,$x60,$inp
le?vperm $in4,$in4,$in4,$inpperm
vxor $out2,$in2,$rndkey0
lvx_u $in7,$x70,$inp
addi $inp,$inp,0x80
le?vperm $in5,$in5,$in5,$inpperm
vxor $out3,$in3,$rndkey0
le?vperm $in6,$in6,$in6,$inpperm
vxor $out4,$in4,$rndkey0
le?vperm $in7,$in7,$in7,$inpperm
vxor $out5,$in5,$rndkey0
vxor $out6,$in6,$rndkey0

```



```
vxor $out7,$in7,$rndkey0
```

```
mtctr $rounds
```

```
b Loop_cbc_dec8x
```

```
.align 5
```

```
Loop_cbc_dec8x:
```

```
vncipher $out0,$out0,v24
```

```
vncipher $out1,$out1,v24
```

```
vncipher $out2,$out2,v24
```

```
vncipher $out3,$out3,v24
```

```
vncipher $out4,$out4,v24
```

```
vncipher $out5,$out5,v24
```

```
vncipher $out6,$out6,v24
```

```
vncipher $out7,$out7,v24
```

```
lvx v24,$x20,$key_ # round[3]
```

```
addi $key_,$key_,0x20
```

```
vncipher $out0,$out0,v25
```

```
vncipher $out1,$out1,v25
```

```
vncipher $out2,$out2,v25
```

```
vncipher $out3,$out3,v25
```

```
vncipher $out4,$out4,v25
```

```
vncipher $out5,$out5,v25
```

```
vncipher $out6,$out6,v25
```

```
vncipher $out7,$out7,v25
```

```
lvx v25,$x10,$key_ #
```

```
round[4]
```

```
bdnz Loop_cbc_dec8x
```

```
subic $len,$len,128 # $len-=128
```

```
vncipher $out0,$out0,v24
```

```
vncipher $out1,$out1,v24
```

```
vncipher $out2,$out2,v24
```

```
vncipher $out3,$out3,v24
```

```
vncipher $out4,$out4,v24
```

```
vncipher $out5,$out5,v24
```

```
vncipher $out6,$out6,v24
```

```
vncipher $out7,$out7,v24
```

```
subfe. r0,r0,r0 # borrow?-1:0
```

```
vncipher $out0,$out0,v25
```

```
vncipher $out1,$out1,v25
```

```
vncipher $out2,$out2,v25
```

```
vncipher $out3,$out3,v25
```

```
vncipher $out4,$out4,v25
```

```
vncipher $out5,$out5,v25
```

```
vncipher $out6,$out6,v25
```

```
vncipher $out7,$out7,v25
```



```

and r0,r0,$len
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vncipher $out4,$out4,v26
vncipher $out5,$out5,v26
vncipher $out6,$out6,v26
vncipher $out7,$out7,v26

add $inp,$inp,r0 # $inp is adjusted in such
way
that at exit from the
loop inX-in7 are loaded
with last "words"
vncipher $out0,$out0,v27
vncipher $out1,$out1,v27
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27
vncipher $out6,$out6,v27
vncipher $out7,$out7,v27

addi $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
vncipher $out6,$out6,v28
vncipher $out7,$out7,v28
lvx v24,$x00,$key_ # re-pre-load round[1]

vncipher $out0,$out0,v29
vncipher $out1,$out1,v29
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
vncipher $out6,$out6,v29
vncipher $out7,$out7,v29
lvx v25,$x10,$key_ # re-pre-load round[2]

vncipher $out0,$out0,v30
vxor $ivec,$ivec,v31 # xor with last round key

```



```

vncipher $out1,$out1,v30
vxor $in0,$in0,v31
vncipher $out2,$out2,v30
vxor $in1,$in1,v31
vncipher $out3,$out3,v30

vxor $in2,$in2,v31
vncipher $out4,$out4,v30
vxor $in3,$in3,v31
vncipher $out5,$out5,v30
vxor $in4,$in4,v31
vncipher $out6,$out6,v30
vxor $in5,$in5,v31
vncipher $out7,$out7,v30
vxor $in6,$in6,v31

vncipherlast $out0,$out0,$ivec
vncipherlast $out1,$out1,$in0
lvx_u $in0,$x00,$inp # load next input block
vncipherlast $out2,$out2,$in1
lvx_u $in1,$x10,$inp
vncipherlast $out3,$out3,$in2
le?vperm $in0,$in0,$in0,$inpperm
lvx_u $in2,$x20,$inp
vncipherlast $out4,$out4,$in3
le?vperm $in1,$in1,$in1,$inpperm
lvx_u $in3,$x30,$inp
vncipherlast $out5,$out5,$in4
le?vperm $in2,$in2,$in2,$inpperm
lvx_u $in4,$x40,$inp
vncipherlast $out6,$out6,$in5
le?vperm $in3,$in3,$in3,$inpperm
lvx_u $in5,$x50,$inp
vncipherlast $out7,$out7,$in6
le?vperm $in4,$in4,$in4,$inpperm
lvx_u $in6,$x60,$inp
vmr $ivec,$in7
le?vperm $in5,$in5,$in5,$inpperm
lvx_u $in7,$x70,$inp
addi $inp,$inp,0x80

le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out

le?vperm $in6,$in6,$in6,$inpperm
vxor $out0,$in0,$rndkey0
le?vperm $out2,$out2,$out2,$inpperm

```



```

stvx_u $out1,$x10,$out
le?vperm $in7,$in7,$in7,$inpperm
vxor $out1,$in1,$rndkey0
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
vxor $out2,$in2,$rndkey0
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
vxor $out3,$in3,$rndkey0
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x40,$out
vxor $out4,$in4,$rndkey0
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x50,$out
vxor $out5,$in5,$rndkey0
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x60,$out
vxor $out6,$in6,$rndkey0
stvx_u $out7,$x70,$out
addi $out,$out,0x80
vxor $out7,$in7,$rndkey0

mtctr $rounds
beq Loop_cbc_dec8x # did $len-=128 borrow?

addic $len,$len,128
beq Lcbc_dec8x_done
nop
nop

Loop_cbc_dec8x_tail: # up to 7 "words" tail...
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24
lvx v24,$x20,$key_ #
round[3]
addi $key_,$key_,0x20

vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
vncipher $out6,$out6,v25

```



```
vncipher $out7,$out7,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_cbc_dec8x_tail
```

```
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24
```

```
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
vncipher $out6,$out6,v25
vncipher $out7,$out7,v25
```

```
vncipher $out1,$out1,v26
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vncipher $out4,$out4,v26
vncipher $out5,$out5,v26
vncipher $out6,$out6,v26
vncipher $out7,$out7,v26
```

```
vncipher $out1,$out1,v27
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27
vncipher $out6,$out6,v27
vncipher $out7,$out7,v27
```

```
vncipher $out1,$out1,v28
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
vncipher $out6,$out6,v28
vncipher $out7,$out7,v28
```

```
vncipher $out1,$out1,v29
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vncipher $out4,$out4,v29
```



```

vncipher $out5,$out5,v29
vncipher $out6,$out6,v29
vncipher $out7,$out7,v29

vncipher $out1,$out1,v30

vxor $ivec,$ivec,v31 # last round key
vncipher $out2,$out2,v30
vxor $in1,$in1,v31
vncipher $out3,$out3,v30
vxor $in2,$in2,v31
vncipher $out4,$out4,v30
vxor $in3,$in3,v31
vncipher $out5,$out5,v30
vxor $in4,$in4,v31
vncipher $out6,$out6,v30
vxor $in5,$in5,v31
vncipher $out7,$out7,v30
vxor $in6,$in6,v31

cmplwi $len,32 # switch($len)
blt Lcbc_dec8x_one
nop
beq Lcbc_dec8x_two
cmplwi $len,64
blt Lcbc_dec8x_three
nop
beq Lcbc_dec8x_four
cmplwi $len,96
blt Lcbc_dec8x_five
nop
beq Lcbc_dec8x_six

Lcbc_dec8x_seven:
vncipherlast $out1,$out1,$ivec
vncipherlast $out2,$out2,$in1
vncipherlast $out3,$out3,$in2
vncipherlast $out4,$out4,$in3
vncipherlast $out5,$out5,$in4
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7

le?vperm $out1,$out1,$out1,$inpperm
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x00,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x10,$out

```



```

le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x20,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x30,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x40,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x50,$out
stvx_u $out7,$x60,$out
addi $out,$out,0x70
b Lcbc_dec8x_done

```

.align 5

Lcbc\_dec8x\_six:

```

vncipherlast $out2,$out2,$ivec
vncipherlast $out3,$out3,$in2
vncipherlast $out4,$out4,$in3
vncipherlast $out5,$out5,$in4
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7

```

```

le?vperm $out2,$out2,$out2,$inpperm
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x00,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x10,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x20,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x30,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x40,$out
stvx_u $out7,$x50,$out
addi $out,$out,0x60
b Lcbc_dec8x_done

```

.align 5

Lcbc\_dec8x\_five:

```

vncipherlast $out3,$out3,$ivec
vncipherlast $out4,$out4,$in3
vncipherlast $out5,$out5,$in4
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7

```

```

le?vperm $out3,$out3,$out3,$inpperm
le?vperm $out4,$out4,$out4,$inpperm

```



```

stvx_u $out3,$x00,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x10,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x20,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x30,$out
stvx_u $out7,$x40,$out
addi $out,$out,0x50
b Lcbc_dec8x_done

```

```

.align 5
Lcbc_dec8x_four:
vncipherlast $out4,$out4,$ivec
vncipherlast $out5,$out5,$in4
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7

```

```

le?vperm $out4,$out4,$out4,$inpperm
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x00,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x10,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x20,$out
stvx_u $out7,$x30,$out
addi $out,$out,0x40
b Lcbc_dec8x_done

```

```

.align 5
Lcbc_dec8x_three:
vncipherlast $out5,$out5,$ivec
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7

```

```

le?vperm $out5,$out5,$out5,$inpperm
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x00,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x10,$out
stvx_u $out7,$x20,$out
addi $out,$out,0x30
b Lcbc_dec8x_done

```

```

.align 5
Lcbc_dec8x_two:

```



```

vncipherlast $out6,$out6,$ivec
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7

le?vperm $out6,$out6,$out6,$inpperm
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x00,$out
stvx_u $out7,$x10,$out
addi $out,$out,0x20
b Lcbc_dec8x_done

.align 5
Lcbc_dec8x_one:
vncipherlast $out7,$out7,$ivec
vmr $ivec,$in7

le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out7,0,$out
addi $out,$out,0x10

Lcbc_dec8x_done:
le?vperm $ivec,$ivec,$ivec,$inpperm
stvx_u $ivec,0,$ivp #
write [unaligned] iv

li r10,`$FRAME+15`
li r11,`$FRAME+31`
stvx $inpperm,r10,$sp # wipe copies of round keys
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32
stvx $inpperm,r10,$sp
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32
stvx $inpperm,r10,$sp
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32
stvx $inpperm,r10,$sp
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32

mtspr 256,$vrsave
lvx v20,r10,$sp # ABI says so
addi r10,r10,32
lvx v21,r11,$sp

```



```

addi r11,r11,32
lvx v22,r10,$sp
addi r10,r10,32
lvx v23,r11,$sp
addi r11,r11,32
lvx v24,r10,$sp
addi r10,r10,32
lvx v25,r11,$sp
addi r11,r11,32
lvx v26,r10,$sp
addi r10,r10,32
lvx v27,r11,$sp
addi r11,r11,32
lvx v28,r10,$sp
addi r10,r10,32
lvx v29,r11,$sp
addi r11,r11,32
lvx v30,r10,$sp
lvx v31,r11,$sp
$POP r26,`$FRAME+21*16+0*$SIZE_T`($sp)
$POP r27,`$FRAME+21*16+1*$SIZE_T`($sp)
$POP r28,`$FRAME+21*16+2*$SIZE_T`($sp)
$POP r29,`$FRAME+21*16+3*$SIZE_T`($sp)
$POP r30,`$FRAME+21*16+4*$SIZE_T`($sp)
$POP r31,`$FRAME+21*16+5*$SIZE_T`($sp)
addi $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
blr
.long 0
.byte 0,12,0x04,0,0x80,6,6,0
.long 0
.size ${prefix}_cbc_encrypt,.-${prefix}_cbc_encrypt

}} }}

#####
{{{ #
CTR procedure[s] #
my ($inp,$out,$len,$key,$ivp,$x10,$rounds,$idx)=map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout,$tmp)= map("v$_",(0..3));
my ($ivec,$sinptail,$sinpperm,$southead,$soutperm,$soutmask,$keyperm,$sone)=
 map("v$_",(4..11));
my $dat=$tmp;

$code.=<<<____;
.globl ${prefix}_ctr32_encrypt_blocks
.align 5
${prefix}_ctr32_encrypt_blocks:
${UCMP}i $len,1

```



```

bltlr-

lis r0,0xfff0
mfspr $vrsave,256
mtspr 256,r0

li $idx,15
vxor $rndkey0,$rndkey0,$rndkey0
le?vspltisb $tmp,0x0f

lvx $ivec,0,$ivp #
load [unaligned] iv
lvsl $inpperm,0,$ivp
lvx $inptail,$idx,$ivp
vspltisb $one,1
le?vxor $inpperm,$inpperm,$tmp
vperm $ivec,$ivec,$inptail,$inpperm
vsldoi $one,$rndkey0,$one,1

neg r11,$inp
?lvsl $keyperm,0,$key # prepare for unaligned key
lwz $rounds,240($key)

lvsl $inpperm,0,r11 # prepare for unaligned load
lvx $inptail,0,$inp
addi $inp,$inp,15 # 15 is not typo
le?vxor $inpperm,$inpperm,$tmp

srwi $rounds,$rounds,1
li $idx,16
subi $rounds,$rounds,1

${UCMP}i $len,8
bge _aesp8_ctr32_encrypt8x

?lvsl $outperm,0,$out # prepare for unaligned store
vspltisb $outmask,-1
lvx $outhead,0,$out
?vperm $outmask,$rndkey0,$outmask,$outperm
le?vxor $outperm,$outperm,$tmp

lvx $rndkey0,0,$key
mtctr $rounds
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$ivec,$rndkey0
lvx $rndkey0,$idx,$key

```



```

addi $idx,$idx,16
b Loop_ctr32_enc

.align 5
Loop_ctr32_enc:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
bdnz Loop_ctr32_enc

vadduwm $ivec,$ivec,$one

vmr $dat,$inptail
lvx $inptail,0,$inp
addi $inp,$inp,16
subic. $len,$len,1 # blocks--

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
vperm $dat,$dat,$inptail,$inpperm
li $idx,16
?vperm $rndkey1,$rndkey0,$rndkey1,$keyperm
lvx $rndkey0,0,$key
vxor $dat,$dat,$rndkey1 # last round key
vcipherlast $inout,$inout,$dat

lvx $rndkey1,$idx,$key
addi $idx,$idx,16
vperm $inout,$inout,$inout,$outperm
vsel $dat,$southead,$inout,$outmask

mtctr $rounds
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vmr $southead,$inout
vxor $inout,$ivec,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
stvx $dat,0,$out
addi $out,$out,16
bne Loop_ctr32_enc

addi $out,$out,-1

```



```

lvx $inout,0,$out # redundant in aligned case
vsel $inout,$outhead,$inout,$outmask
stvx $inout,0,$out

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,6,0
.long 0

#####
{{ # Optimized CTR procedure #
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
 $x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7)=map("v$_",(0..3,10,12..14));
my ($out0,$out1,$out2,$out3,$out4,$out5,$out6,$out7)=map("v$_",(15..22));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
 # v26-v31 last 6 round keys
my ($tmp,$keyperm)=$($in3,$in4); # aliases with "caller", redundant
assignment
my ($two,$three,$four)=$($outhead,$outperm,$outmask);

$code.=<<<____;
.align 5
_esp8_ctr32_encrypt8x:
$STU $sp,-($FRAME+21*16+6*$SIZE_T)`($sp)
li r10,`$FRAME+8*16+15`
li r11,`$FRAME+8*16+31`
stvx v20,r10,$sp # ABI says so
addi r10,r10,32
stvx v21,r11,$sp
addi r11,r11,32
stvx v22,r10,$sp
addi r10,r10,32
stvx v23,r11,$sp
addi r11,r11,32
stvx v24,r10,$sp
addi r10,r10,32
stvx v25,r11,$sp
addi r11,r11,32
stvx v26,r10,$sp
addi r10,r10,32
stvx v27,r11,$sp
addi r11,r11,32
stvx v28,r10,$sp
addi r10,r10,32
stvx v29,r11,$sp

```



```

addi r11,r11,32
stvx v30,r10,$sp
stvx v31,r11,$sp
li r0,-1
stw $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
li $x10,0x10
$PUSH r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li $x20,0x20
$PUSH r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li $x30,0x30
$PUSH r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li $x40,0x40
$PUSH r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li $x50,0x50
$PUSH r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li $x60,0x60
$PUSH r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li $x70,0x70
mtspr 256,r0

```

```

subi $rounds,$rounds,3 #
-4 in total

```

```

lvx $rndkey0,$x00,$key # load key schedule
lvx v30,$x10,$key
addi $key,$key,0x20
lvx v31,$x00,$key
?vperm $rndkey0,$rndkey0,v30,$keyperm
addi $key_,$sp,$FRAME+15
mtctr $rounds

```

```

Load_ctr32_enc_key:
?vperm v24,v30,v31,$keyperm
lvx v30,$x10,$key
addi $key,$key,0x20
stvx v24,$x00,$key_ # off-load round[1]
?vperm v25,v31,v30,$keyperm
lvx v31,$x00,$key
stvx v25,$x10,$key_ # off-load round[2]
addi $key_,$key_,0x20
bdnz Load_ctr32_enc_key

```

```

lvx v26,$x10,$key
?vperm v24,v30,v31,$keyperm
lvx v27,$x20,$key
stvx v24,$x00,$key_ # off-load round[3]
?vperm v25,v31,v26,$keyperm
lvx v28,$x30,$key

```



```

stvx v25,$x10,$key_ # off-load round[4]
addi $key_,$sp,$FRAME+15 # rewind $key_
?vperm v26,v26,v27,$keyperm
lvx v29,$x40,$key
?vperm v27,v27,v28,$keyperm
lvx v30,$x50,$key
?vperm v28,v28,v29,$keyperm
lvx v31,$x60,$key
?vperm v29,v29,v30,$keyperm
lvx $out0,$x70,$key #
borrow $out0
?vperm v30,v30,v31,$keyperm
lvx v24,$x00,$key_ # pre-load round[1]
?vperm v31,v31,$out0,$keyperm
lvx v25,$x10,$key_ # pre-load round[2]

vadduwm $two,$one,$one
subi $inp,$inp,15 # undo "caller"
$SHL $len,$len,4

vadduwm $out1,$ivec,$one # counter values ...
vadduwm $out2,$ivec,$two
vxor $out0,$ivec,$rndkey0 # ... xored with rndkey[0]
le?li $idx,8
vadduwm $out3,$out1,$two
vxor $out1,$out1,$rndkey0
le?lvs $inpperm,0,$idx
vadduwm $out4,$out2,$two
vxor $out2,$out2,$rndkey0
le?vspltisb $tmp,0x0f
vadduwm $out5,$out3,$two
vxor $out3,$out3,$rndkey0
le?vxor $inpperm,$inpperm,$tmp # transform for lvx_u/stvx_u
vadduwm $out6,$out4,$two
vxor $out4,$out4,$rndkey0
vadduwm $out7,$out5,$two
vxor $out5,$out5,$rndkey0
vadduwm $ivec,$out6,$two # next counter value
vxor $out6,$out6,$rndkey0
vxor $out7,$out7,$rndkey0

mtctr $rounds
b Loop_ctr32_enc8x
.align 5
Loop_ctr32_enc8x:
vcipher $out0,$out0,v24
vcipher

```



```

 $out1,$out1,v24
 vcipher $out2,$out2,v24
 vcipher $out3,$out3,v24
 vcipher $out4,$out4,v24
 vcipher $out5,$out5,v24
 vcipher $out6,$out6,v24
 vcipher $out7,$out7,v24
 Loop_ctr32_enc8x_middle:
 lvx v24,$x20,$key_ # round[3]
 addi $key_,$key_,0x20

 vcipher $out0,$out0,v25
 vcipher $out1,$out1,v25
 vcipher $out2,$out2,v25
 vcipher $out3,$out3,v25
 vcipher $out4,$out4,v25
 vcipher $out5,$out5,v25
 vcipher $out6,$out6,v25
 vcipher $out7,$out7,v25
 lvx v25,$x10,$key_ # round[4]
 bdnz Loop_ctr32_enc8x

 subic r11,$len,256 # $len-256, borrow $key_
 vcipher $out0,$out0,v24
 vcipher $out1,$out1,v24
 vcipher $out2,$out2,v24
 vcipher $out3,$out3,v24
 vcipher $out4,$out4,v24
 vcipher $out5,$out5,v24
 vcipher $out6,$out6,v24
 vcipher $out7,$out7,v24

 subfe r0,r0,r0 # borrow?-1:0
 vcipher $out0,$out0,v25
 vcipher $out1,$out1,v25
 vcipher $out2,$out2,v25
 vcipher $out3,$out3,v25
 vcipher $out4,$out4,v25
 vcipher $out5,$out5,v25
 vcipher $out6,$out6,v25
 vcipher $out7,$out7,v25

 and r0,r0,r11
 addi $key_,$sp,$FRAME+15 #
 rewind $key_
 vcipher $out0,$out0,v26
 vcipher $out1,$out1,v26
 vcipher $out2,$out2,v26

```



```

vcipher $out3,$out3,v26
vcipher $out4,$out4,v26
vcipher $out5,$out5,v26
vcipher $out6,$out6,v26
vcipher $out7,$out7,v26
lvx v24,$x00,$key_ # re-pre-load round[1]

```

```

subic $len,$len,129 # $len-=129
vcipher $out0,$out0,v27
addi $len,$len,1 # $len-=128 really
vcipher $out1,$out1,v27
vcipher $out2,$out2,v27
vcipher $out3,$out3,v27
vcipher $out4,$out4,v27
vcipher $out5,$out5,v27
vcipher $out6,$out6,v27
vcipher $out7,$out7,v27
lvx v25,$x10,$key_ # re-pre-load round[2]

```

```

vcipher $out0,$out0,v28
lvx_u $in0,$x00,$inp # load input
vcipher $out1,$out1,v28
lvx_u $in1,$x10,$inp
vcipher $out2,$out2,v28
lvx_u $in2,$x20,$inp
vcipher $out3,$out3,v28
lvx_u $in3,$x30,$inp
vcipher $out4,$out4,v28
lvx_u $in4,$x40,$inp
vcipher $out5,$out5,v28
lvx_u $in5,$x50,$inp
vcipher $out6,$out6,v28

```

```

lvx_u $in6,$x60,$inp
vcipher $out7,$out7,v28
lvx_u $in7,$x70,$inp
addi $inp,$inp,0x80

```

```

vcipher $out0,$out0,v29
le?vperm $in0,$in0,$in0,$inpperm
vcipher $out1,$out1,v29
le?vperm $in1,$in1,$in1,$inpperm
vcipher $out2,$out2,v29
le?vperm $in2,$in2,$in2,$inpperm
vcipher $out3,$out3,v29
le?vperm $in3,$in3,$in3,$inpperm
vcipher $out4,$out4,v29
le?vperm $in4,$in4,$in4,$inpperm

```



```

vcipher $out5,$out5,v29
le?vperm $in5,$in5,$in5,$inpperm
vcipher $out6,$out6,v29
le?vperm $in6,$in6,$in6,$inpperm
vcipher $out7,$out7,v29
le?vperm $in7,$in7,$in7,$inpperm

add $inp,$inp,r0 # $inp is adjusted in such
 # way that at exit from the
 # loop inX-in7 are loaded
 # with last "words"
subfe. r0,r0,r0 # borrow?-1:0
vcipher $out0,$out0,v30
vxor $in0,$in0,v31 # xor with last round key
vcipher $out1,$out1,v30
vxor $in1,$in1,v31
vcipher $out2,$out2,v30
vxor $in2,$in2,v31
vcipher $out3,$out3,v30
vxor $in3,$in3,v31
vcipher $out4,$out4,v30

vxor $in4,$in4,v31
vcipher $out5,$out5,v30
vxor $in5,$in5,v31
vcipher $out6,$out6,v30
vxor $in6,$in6,v31
vcipher $out7,$out7,v30
vxor $in7,$in7,v31

bne Lctr32_enc8x_break # did $len-129 borrow?

vcipherlast $in0,$out0,$in0
vcipherlast $in1,$out1,$in1
vadduwm $out1,$ivec,$sone # counter values ...
vcipherlast $in2,$out2,$in2
vadduwm $out2,$ivec,$stwo
vxor $out0,$ivec,$rndkey0 # ... xored with rndkey[0]
vcipherlast $in3,$out3,$in3
vadduwm $out3,$out1,$stwo
vxor $out1,$out1,$rndkey0
vcipherlast $in4,$out4,$in4
vadduwm $out4,$out2,$stwo
vxor $out2,$out2,$rndkey0
vcipherlast $in5,$out5,$in5
vadduwm $out5,$out3,$stwo
vxor $out3,$out3,$rndkey0
vcipherlast $in6,$out6,$in6

```



```

vadduwm $out6,$out4,$two
vxor $out4,$out4,$rndkey0
vcipherlast $in7,$out7,$in7
vadduwm $out7,$out5,$two
vxor $out5,$out5,$rndkey0
le?vperm $in0,$in0,$in0,$inpperm
vadduwm $ivec,$out6,$two # next counter value
vxor $out6,$out6,$rndkey0
le?vperm $in1,$in1,$in1,$inpperm

```

```

vxor $out7,$out7,$rndkey0
mtctr $rounds

```

```

vcipher $out0,$out0,v24
stvx_u $in0,$x00,$out
le?vperm $in2,$in2,$in2,$inpperm
vcipher $out1,$out1,v24
stvx_u $in1,$x10,$out
le?vperm $in3,$in3,$in3,$inpperm
vcipher $out2,$out2,v24
stvx_u $in2,$x20,$out
le?vperm $in4,$in4,$in4,$inpperm
vcipher $out3,$out3,v24
stvx_u $in3,$x30,$out
le?vperm $in5,$in5,$in5,$inpperm
vcipher $out4,$out4,v24
stvx_u $in4,$x40,$out
le?vperm $in6,$in6,$in6,$inpperm
vcipher $out5,$out5,v24
stvx_u $in5,$x50,$out
le?vperm $in7,$in7,$in7,$inpperm
vcipher $out6,$out6,v24
stvx_u $in6,$x60,$out
vcipher $out7,$out7,v24
stvx_u $in7,$x70,$out
addi $out,$out,0x80

```

b Loop\_ctr32\_enc8x\_middle

```

.align 5
Lctr32_enc8x_break:
cmpwi $len,-0x60
blt Lctr32_enc8x_one
nop
beq Lctr32_enc8x_two
cmpwi $len,-0x40
blt Lctr32_enc8x_three
nop

```



```

beq Lctr32_enc8x_four
cmpwi $len,-0x20
blt Lctr32_enc8x_five
nop
beq Lctr32_enc8x_six
cmpwi $len,0x00
blt Lctr32_enc8x_seven

```

```

Lctr32_enc8x_eight:
vcipherlast $out0,$out0,$in0
vcipherlast $out1,$out1,$in1
vcipherlast $out2,$out2,$in2
vcipherlast $out3,$out3,$in3
vcipherlast $out4,$out4,$in4
vcipherlast $out5,$out5,$in5
vcipherlast $out6,$out6,$in6
vcipherlast $out7,$out7,$in7

```

```

le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x40,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x50,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x60,$out
stvx_u $out7,$x70,$out
addi $out,$out,0x80
b Lctr32_enc8x_done

```

```

.align 5
Lctr32_enc8x_seven:
vcipherlast $out0,$out0,$in1
vcipherlast $out1,$out1,$in2
vcipherlast $out2,$out2,$in3
vcipherlast $out3,$out3,$in4
vcipherlast $out4,$out4,$in5
vcipherlast $out5,$out5,$in6
vcipherlast $out6,$out6,$in7

```

```

le?vperm $out0,$out0,$out0,$inpperm

```



```

le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x40,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x50,$out
stvx_u $out6,$x60,$out
addi $out,$out,0x70
b Lctr32_enc8x_done

```

.align 5

Lctr32\_enc8x\_six:

```

vcipherlast $out0,$out0,$in2
vcipherlast $out1,$out1,$in3
vcipherlast $out2,$out2,$in4
vcipherlast $out3,$out3,$in5
vcipherlast $out4,$out4,$in6
vcipherlast $out5,$out5,$in7

```

```

le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x40,$out
stvx_u $out5,$x50,$out
addi $out,$out,0x60
b Lctr32_enc8x_done

```

.align 5

Lctr32\_enc8x\_five:

```

vcipherlast $out0,$out0,$in3
vcipherlast $out1,$out1,$in4
vcipherlast $out2,$out2,$in5
vcipherlast $out3,$out3,$in6
vcipherlast $out4,$out4,$in7

```



```

le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
stvx_u $out4,$x40,$out
addi $out,$out,0x50
b Lctr32_enc8x_done

```

```

.align 5
Lctr32_enc8x_four:
vcipherlast $out0,$out0,$in4
vcipherlast $out1,$out1,$in5
vcipherlast $out2,$out2,$in6
vcipherlast $out3,$out3,$in7

```

```

le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
stvx_u $out3,$x30,$out
addi $out,$out,0x40
b Lctr32_enc8x_done

```

```

.align 5
Lctr32_enc8x_three:
vcipherlast $out0,$out0,$in5
vcipherlast $out1,$out1,$in6
vcipherlast $out2,$out2,$in7

```

```

le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
stvx_u $out2,$x20,$out
addi $out,$out,0x30
b Lcbc_dec8x_done

```

```

.align 5
Lctr32_enc8x_two:

```



```
vcipherlast $out0,$out0,$in6
vcipherlast $out1,$out1,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
stvx_u $out1,$x10,$out
addi $out,$out,0x20
b Lcbc_dec8x_done
```

```
.align 5
Lctr32_enc8x_one:
vcipherlast $out0,$out0,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm
stvx_u $out0,0,$out
addi $out,$out,0x10
```

```
Lctr32_enc8x_done:
li r10,`$FRAME+15`
li r11,`$FRAME+31`
stvx $inpperm,r10,$sp #
wipe copies of round keys
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32
stvx $inpperm,r10,$sp
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32
stvx $inpperm,r10,$sp
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32
stvx $inpperm,r10,$sp
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32
```

```
mtspr 256,$vrsave
lvx v20,r10,$sp #
ABI says so
addi r10,r10,32
lvx v21,r11,$sp
addi r11,r11,32
lvx v22,r10,$sp
addi r10,r10,32
lvx v23,r11,$sp
```



```

addi r11,r11,32
lvx v24,r10,$sp
addi r10,r10,32
lvx v25,r11,$sp
addi r11,r11,32
lvx v26,r10,$sp
addi r10,r10,32
lvx v27,r11,$sp
addi r11,r11,32
lvx v28,r10,$sp
addi r10,r10,32
lvx v29,r11,$sp
addi r11,r11,32
lvx v30,r10,$sp
lvx v31,r11,$sp
$POP r26,`$FRAME+21*16+0*$SIZE_T`($sp)
$POP r27,`$FRAME+21*16+1*$SIZE_T`($sp)
$POP r28,`$FRAME+21*16+2*$SIZE_T`($sp)
$POP r29,`$FRAME+21*16+3*$SIZE_T`($sp)
$POP r30,`$FRAME+21*16+4*$SIZE_T`($sp)
$POP r31,`$FRAME+21*16+5*$SIZE_T`($sp)
addi $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
blr
.long 0
.byte 0,12,0x04,0,0x80,6,6,0
.long 0
.size ${prefix}_ctr32_encrypt_blocks,.-${prefix}_ctr32_encrypt_blocks

}} }}

#####
{{{ #
XTS procedures #
my ($inp,$out,$len,$key1,$key2,$ivp,$rounds,$idx) = map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout) = map("v$_",(0..2));
my ($output,$inptail,$inpperm,$leperm,$keyperm) = map("v$_",(3..7));
my ($tweak,$seven,$eighty7,$tmp,$tweak1) = map("v$_",(8..12));
my $taillen = $key2;

($inp,$idx) = ($idx,$inp); # reassign

$code.=<<____;
.globl ${prefix}_xts_encrypt
.align 5
${prefix}_xts_encrypt:
mr $inp,r3 # reassign
li r3,-1
${UCMP}i $len,16

```



bltlr-

```
lis r0,0xffff0
mfspr r12,256 # save vrsave
li r11,0
mtspr 256,r0
```

```
vspltisb $seven,0x07 # 0x070707..07
le?lvsl $leperm,r11,r11
le?vspltisb $tmp,0x0f
le?vxor $leperm,$leperm,$seven
```

```
li $idx,15
lvx $tweak,0,$ivp # load [unaligned] iv
lvsl $inpperm,0,$ivp
lvx $sintail,$idx,$ivp
le?vxor $inpperm,$inpperm,$tmp
vperm $tweak,$tweak,$sintail,$inpperm
```

```
?lvsl $keyperm,0,$key2 #
prepare for unaligned key
lwz $rounds,240($key2)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16
```

```
neg r11,$inp
lvsr $inpperm,0,r11 # prepare for unaligned load
lvx $sinout,0,$inp
addi $inp,$inp,15 # 15 is not typo
le?vxor $inpperm,$inpperm,$tmp
```

```
lvx $rndkey0,0,$key2
lvx $rndkey1,$idx,$key2
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $tweak,$tweak,$rndkey0
lvx $rndkey0,$idx,$key2
addi $idx,$idx,16
mtctr $rounds
```

```
Ltweak_xts_enc:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $tweak,$tweak,$rndkey1
lvx $rndkey1,$idx,$key2
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $tweak,$tweak,$rndkey0
```



```

lvx $rndkey0,$idx,$key2
addi $idx,$idx,16
bdnz Ltweak_xts_enc

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $tweak,$tweak,$rndkey1
lvx $rndkey1,$idx,$key2
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipherlast $tweak,$tweak,$rndkey0

lvx $sinptail,0,$sinp
addi $sinp,$sinp,16

?lvs1 $keyperm,0,$key1 #
prepare for unaligned key
lwz $rounds,240($key1)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16

vslb $eighty7,$seven,$seven # 0x808080..80
vor $eighty7,$eighty7,$seven # 0x878787..87
vspltisb $tmp,1 # 0x010101..01
vsldoi $eighty7,$eighty7,$tmp,15 # 0x870101..01

${UCMP}i $len,96
bge _aesp8_xts_encrypt6x

andi. $taillen,$len,15
subic r0,$len,32
subi $taillen,$taillen,16
subfe r0,r0,r0
and r0,r0,$taillen
add $inp,$inp,r0

lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
vperm $sinout,$sinout,$sinptail,$sinpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $sinout,$sinout,$tweak
vxor $sinout,$sinout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
mtctr $rounds
b Loop_xts_enc

```



```
.align 5
Loop_xts_enc:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
bdnz Loop_xts_enc
```

```
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $rndkey0,$rndkey0,$tweak
vcipherlast $output,$inout,$rndkey0
```

```
le?vperm $tmp,$output,$output,$leperm
be?nop
le?stvx_u $tmp,0,$out
be?stvx_u $output,0,$out
addi $out,$out,16
```

```
subic. $len,$len,16
beq Lxts_enc_done
```

```
vmr $inout,$inptail
lvx $inptail,0,$inp
addi $inp,$inp,16
lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
```

```
subic r0,$len,32
subfe r0,r0,r0
and r0,r0,$taillen
add $inp,$inp,r0
```

```
vsrab $tmp,$tweak,$seven #
next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $tweak,$tweak,$tmp
```



```

vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$tweak
vxor $output,$output,$rndkey0 #
just in case $len<16
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16

mtctr $rounds
${UCMP}i $len,16
bge Loop_xts_enc

vxor $output,$output,$tweak
lvsr $inpperm,0,$len # $inpperm is no longer needed
vxor $inptail,$inptail,$inptail # $inptail is no longer needed
vspltisb $tmp,-1
vperm $inptail,$inptail,$tmp,$inpperm
vsel $inout,$inout,$output,$inptail

subi r11,$out,17
subi $out,$out,16
mtctr $len
li $len,16
Loop_xts_enc_steal:
lbzu r0,1(r11)
stb r0,16(r11)
bdnz Loop_xts_enc_steal

mtctr $rounds
b Loop_xts_enc # one more time...

Lxts_enc_done:
mtspr 256,r12 # restore vrsave
li r3,0
blr
.long 0
.byte 0,12,0x04,0,0x80,6,6,0
.long 0
.size ${prefix}_xts_encrypt,.-.${prefix}_xts_encrypt

.globl ${prefix}_xts_decrypt
.align 5
${prefix}_xts_decrypt:
mr $inp,r3 # reassign
li r3,-1
${UCMP}i $len,16
bltlr-

```



```

lis r0,0xfff8
mfspr r12,256 #
save vrsave
li r11,0
mtspr 256,r0

andi. r0,$len,15
neg r0,r0
andi. r0,r0,16
sub $len,$len,r0

vspltisb $seven,0x07 # 0x070707..07
le?lvsl $leperm,r11,r11
le?vspltisb $tmp,0x0f
le?vxor $leperm,$leperm,$seven

li $idx,15
lvx $tweak,0,$ivp # load [unaligned] iv
lvsl $inpperm,0,$ivp
lvx $inptail,$idx,$ivp
le?vxor $inpperm,$inpperm,$tmp
vperm $tweak,$tweak,$inptail,$inpperm

?lvsl $keyperm,0,$key2 # prepare for unaligned key
lwz $rounds,240($key2)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16

neg r11,$inp
lvsl $inpperm,0,r11 # prepare for unaligned load
lvx $inout,0,$inp
addi $inp,$inp,15 # 15 is not typo
le?vxor $inpperm,$inpperm,$tmp

lvx $rndkey0,0,$key2
lvx $rndkey1,$idx,$key2
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $tweak,$tweak,$rndkey0
lvx $rndkey0,$idx,$key2
addi $idx,$idx,16
mtctr $rounds

Ltweak_xts_dec:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $tweak,$tweak,$rndkey1

```



```

lvx $rndkey1,$idx,$key2
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $tweak,$tweak,$rndkey0
lvx $rndkey0,$idx,$key2
addi $idx,$idx,16
bdnz Ltweak_xts_dec

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $tweak,$tweak,$rndkey1
lvx $rndkey1,$idx,$key2
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipherlast $tweak,$tweak,$rndkey0

lvx $inptail,0,$inp
addi $inp,$inp,16

?lvs1 $keyperm,0,$key1 #
prepare for unaligned key
lwz $rounds,240($key1)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16

vslb $eighty7,$seven,$seven # 0x808080..80
vor $eighty7,$eighty7,$seven # 0x878787..87
vspltisb $tmp,1 # 0x010101..01
vsldoi $eighty7,$eighty7,$tmp,15 # 0x870101..01

${UCMP}i $len,96
bge _aesp8_xts_decrypt6x

lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$tweak
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
mtctr $rounds

${UCMP}i $len,16
blt Ltail_xts_dec
be?b Loop_xts_dec

```



```
.align 5
Loop_xts_dec:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
bdnz Loop_xts_dec
```

```
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $rndkey0,$rndkey0,$tweak
vncipherlast $output,$inout,$rndkey0
```

```
le?vperm $tmp,$output,$output,$leperm
be?nop
le?stvx_u $tmp,0,$out
be?stvx_u $output,0,$out
addi $out,$out,16
```

```
subic. $len,$len,16
beq Lxts_dec_done
```

```
vmr $inout,$inptail
lvx $inptail,0,$inp
addi $inp,$inp,16
lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
```

```
vsrab $tmp,$tweak,$seven #
next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $tweak,$tweak,$tmp
```

```
vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$tweak
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
```



```

addi $idx,$idx,16

mtctr $rounds
${UCMP}i $len,16
bge Loop_xts_dec

Ltail_xts_dec:
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak1,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $tweak1,$tweak1,$tmp

subi $inp,$inp,16
add $inp,$inp,$len

vxor $inout,$inout,$tweak # :-(
vxor $inout,$inout,$tweak1 # :-)

Loop_xts_dec_short:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
bdnz Loop_xts_dec_short

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $rndkey0,$rndkey0,$tweak1
vncipherlast $output,$inout,$rndkey0

le?vperm $tmp,$output,$output,$leperm
be?nop
le?stvx_u $tmp,0,$out
be?stvx_u $output,0,$out

vmr $inout,$inptail
lvx $inptail,0,$inp
#addi $inp,$inp,16
lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1

```



```

addi $idx,$idx,16
vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm

lvsr $inpperm,0,$len #
$inpperm is no longer needed
vxor $inptail,$inptail,$inptail # $inptail is no longer needed
vspltisb $tmp,-1
vperm $inptail,$inptail,$tmp,$inpperm
vsel $inout,$inout,$output,$inptail

vxor $rndkey0,$rndkey0,$tweak
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16

subi r11,$out,1
mtctr $len
li $len,16
Loop_xts_dec_steal:
lbzu r0,1(r11)
stb r0,16(r11)
bdnz Loop_xts_dec_steal

mtctr $rounds
b Loop_xts_dec #
one more time...

Lxts_dec_done:
mtspr 256,r12 # restore vrsave
li r3,0
blr
.long 0
.byte 0,12,0x04,0,0x80,6,6,0
.long 0
.size ${prefix}_xts_decrypt,.-.${prefix}_xts_decrypt

#####
{{ # Optimized XTS procedures #
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
 $x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5)=map("v$_",(0..5));
my ($out0, $out1, $out2, $out3, $out4, $out5)=map("v$_",(7,12..16));
my ($twk0, $twk1, $twk2, $twk3, $twk4, $twk5)=map("v$_",(17..22));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
 # v26-v31 last 6 round keys
my ($keyperm)=$out0; # aliases with "caller", redundant assignment

```



```

my $taillen=$x70;

$code.=<<____;
.align 5
_esp8_xts_encrypt6x:
$STU $sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
mflr r0
li r7,`$FRAME+8*16+15`
li r8,`$FRAME+8*16+31`
$PUSH r0,`$FRAME+21*16+6*$SIZE_T+$LRSAVE`($sp)
stvx v20,r7,$sp #
ABI says so
addi r7,r7,32
stvx v21,r8,$sp
addi r8,r8,32
stvx v22,r7,$sp
addi r7,r7,32
stvx v23,r8,$sp
addi r8,r8,32
stvx v24,r7,$sp
addi r7,r7,32
stvx v25,r8,$sp
addi r8,r8,32
stvx v26,r7,$sp
addi r7,r7,32
stvx v27,r8,$sp
addi r8,r8,32
stvx v28,r7,$sp
addi r7,r7,32
stvx v29,r8,$sp
addi r8,r8,32
stvx v30,r7,$sp
stvx v31,r8,$sp
mr r7,r0
li r0,-1
stw $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
li $x10,0x10
$PUSH r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li $x20,0x20
$PUSH r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li $x30,0x30
$PUSH r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li $x40,0x40
$PUSH r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li $x50,0x50
$PUSH r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li $x60,0x60
$PUSH r31,`$FRAME+21*16+5*$SIZE_T`($sp)

```



```

li $x70,0x70
mtspr 256,r0

subi $rounds,$rounds,3 # -4 in total

lvx $rndkey0,$x00,$key1 # load key schedule
lvx v30,$x10,$key1
addi $key1,$key1,0x20
lvx v31,$x00,$key1
?vperm $rndkey0,$rndkey0,v30,$keyperm
addi $key_,$sp,$FRAME+15
mtctr $rounds

```

Load\_xts\_enc\_key:

```

?vperm v24,v30,v31,$keyperm
lvx v30,$x10,$key1
addi $key1,$key1,0x20
stvx v24,$x00,$key_ #
off-load round[1]
?vperm v25,v31,v30,$keyperm
lvx v31,$x00,$key1
stvx v25,$x10,$key_ # off-load round[2]
addi $key_,$key_,0x20
bdnz Load_xts_enc_key

lvx v26,$x10,$key1
?vperm v24,v30,v31,$keyperm
lvx v27,$x20,$key1
stvx v24,$x00,$key_ # off-load round[3]
?vperm v25,v31,v26,$keyperm
lvx v28,$x30,$key1
stvx v25,$x10,$key_ # off-load round[4]
addi $key_,$sp,$FRAME+15 # rewind $key_
?vperm v26,v26,v27,$keyperm
lvx v29,$x40,$key1
?vperm v27,v27,v28,$keyperm
lvx v30,$x50,$key1
?vperm v28,v28,v29,$keyperm
lvx v31,$x60,$key1
?vperm v29,v29,v30,$keyperm
lvx $twk5,$x70,$key1 # borrow $twk5
?vperm v30,v30,v31,$keyperm
lvx v24,$x00,$key_ # pre-load round[1]
?vperm v31,v31,$twk5,$keyperm
lvx v25,$x10,$key_ #
pre-load round[2]

```

```

vperm $in0,$inout,$inptail,$inpperm

```



```

subi $inp,$inp,31 # undo "caller"
vxor $twk0,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $out0,$in0,$twk0
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in1,$x10,$inp
vxor $twk1,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in1,$in1,$in1,$leperm
vand $tmp,$tmp,$eighty7
vxor $out1,$in1,$twk1
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in2,$x20,$inp
andi. $taillen,$len,15
vxor $twk2,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in2,$in2,$in2,$leperm
vand $tmp,$tmp,$eighty7
vxor $out2,$in2,$twk2
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in3,$x30,$inp
sub $len,$len,$taillen
vxor $twk3,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven #
next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in3,$in3,$in3,$leperm
vand $tmp,$tmp,$eighty7
vxor $out3,$in3,$twk3
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in4,$x40,$inp
subi $len,$len,0x60
vxor $twk4,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15

```



```

le?vperm $in4,$in4,$in4,$leperm
vand $tmp,$tmp,$eighty7
vxor $out4,$in4,$twk4
vxor $tweak,$tweak,$tmp

lvx_u $in5,$x50,$inp
addi $inp,$inp,0x60
vxor $twk5,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in5,$in5,$in5,$leperm
vand $tmp,$tmp,$eighty7
vxor $out5,$in5,$twk5
vxor $tweak,$tweak,$tmp

vxor v31,v31,$rndkey0
mtctr $rounds
b Loop_xts_enc6x

.align 5
Loop_xts_enc6x:
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vcipher $out4,$out4,v24
vcipher $out5,$out5,v24
lvx v24,$x20,$key_ #
round[3]
addi $key_,$key_,0x20

vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vcipher $out4,$out4,v25
vcipher $out5,$out5,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_xts_enc6x

subic $len,$len,96 # $len-=96
vxor $in0,$twk0,v31 # xor with last round key
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk0,$tweak,$rndkey0
vaddubm $tweak,$tweak,$tweak

```



```

vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vslldoi $tmp,$tmp,$tmp,15
vcipher $out4,$out4,v24
vcipher $out5,$out5,v24

subfe. r0,r0,r0 # borrow?-1:0
vand $tmp,$tmp,$eighty7
vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vxor $tweak,$tweak,$tmp
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vxor $in1,$twk1,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk1,$tweak,$rndkey0
vcipher $out4,$out4,v25
vcipher $out5,$out5,v25

and r0,r0,$len

vaddubm $tweak,$tweak,$tweak
vslldoi $tmp,$tmp,$tmp,15
vcipher $out0,$out0,v26
vcipher $out1,$out1,v26
vand $tmp,$tmp,$eighty7
vcipher $out2,$out2,v26
vcipher $out3,$out3,v26
vxor $tweak,$tweak,$tmp
vcipher $out4,$out4,v26
vcipher $out5,$out5,v26

add $inp,$inp,r0 # $inp is adjusted in such
way that at exit from the
loop inX-in5 are loaded
with last "words"
vxor $in2,$twk2,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk2,$tweak,$rndkey0
vaddubm $tweak,$tweak,$tweak
vcipher $out0,$out0,v27
vcipher $out1,$out1,v27
vslldoi $tmp,$tmp,$tmp,15
vcipher $out2,$out2,v27
vcipher $out3,$out3,v27
vand $tmp,$tmp,$eighty7
vcipher $out4,$out4,v27
vcipher $out5,$out5,v27

```



```

addi $key_,$sp,$FRAME+15 # rewind $key_
vxor $tweak,$tweak,$tmp
vcipher $out0,$out0,v28
vcipher $out1,$out1,v28
vxor $in3,$twk3,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk3,$tweak,$rndkey0
vcipher $out2,$out2,v28
vcipher $out3,$out3,v28

vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vcipher $out4,$out4,v28
vcipher $out5,$out5,v28
lvx v24,$x00,$key_ # re-pre-load round[1]
vand $tmp,$tmp,$eighty7

vcipher $out0,$out0,v29
vcipher $out1,$out1,v29
vxor $tweak,$tweak,$tmp
vcipher $out2,$out2,v29
vcipher $out3,$out3,v29
vxor $in4,$twk4,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk4,$tweak,$rndkey0
vcipher $out4,$out4,v29
vcipher $out5,$out5,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15

vcipher $out0,$out0,v30
vcipher $out1,$out1,v30
vand $tmp,$tmp,$eighty7
vcipher $out2,$out2,v30
vcipher $out3,$out3,v30
vxor $tweak,$tweak,$tmp
vcipher $out4,$out4,v30
vcipher $out5,$out5,v30
vxor $in5,$twk5,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk5,$tweak,$rndkey0

vcipherlast $out0,$out0,$in0
lvx_u $in0,$x00,$inp # load next input
block
vaddubm $tweak,$tweak,$tweak

```



```

vsldoi $tmp,$tmp,$tmp,15
vcipherlast $out1,$out1,$in1
lvx_u $in1,$x10,$inp
vcipherlast $out2,$out2,$in2
le?vperm $in0,$in0,$in0,$leperm
lvx_u $in2,$x20,$inp
vand $tmp,$tmp,$eighty7
vcipherlast $out3,$out3,$in3
le?vperm $in1,$in1,$in1,$leperm
lvx_u $in3,$x30,$inp
vcipherlast $out4,$out4,$in4
le?vperm $in2,$in2,$in2,$leperm
lvx_u $in4,$x40,$inp
vxor $tweak,$tweak,$tmp
vcipherlast $tmp,$out5,$in5 # last block might be needed
 # in stealing mode
le?vperm $in3,$in3,$in3,$leperm
lvx_u $in5,$x50,$inp
addi $inp,$inp,0x60
le?vperm $in4,$in4,$in4,$leperm
le?vperm $in5,$in5,$in5,$leperm

le?vperm $out0,$out0,$out0,$leperm
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk0
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
vxor $out1,$in1,$twk1
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
vxor $out2,$in2,$twk2
le?vperm $out4,$out4,$out4,$leperm
stvx_u $out3,$x30,$out

vxor $out3,$in3,$twk3
le?vperm $out5,$tmp,$tmp,$leperm
stvx_u $out4,$x40,$out
vxor $out4,$in4,$twk4
le?stvx_u $out5,$x50,$out
be?stvx_u $tmp,$x50,$out
vxor $out5,$in5,$twk5
addi $out,$out,0x60

mtctr $rounds
beq Loop_xts_enc6x # did $len==96 borrow?

addic $len,$len,0x60

```



```

beq Lxts_enc6x_zero
cmpwi $len,0x20
blt Lxts_enc6x_one
nop
beq Lxts_enc6x_two
cmpwi $len,0x40
blt Lxts_enc6x_three
nop
beq Lxts_enc6x_four

```

Lxts\_enc6x\_five:

```

vxor $out0,$in1,$twk0
vxor $out1,$in2,$twk1
vxor $out2,$in3,$twk2
vxor $out3,$in4,$twk3
vxor $out4,$in5,$twk4

```

bl \_aesp8\_xts\_enc5x

```

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk5 # unused tweak
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
vxor $tmp,$out4,$twk5 # last block prep for stealing
le?vperm $out4,$out4,$out4,$leperm
stvx_u $out3,$x30,$out
stvx_u $out4,$x40,$out
addi $out,$out,0x50
bne Lxts_enc6x_steal
b Lxts_enc6x_done

```

.align 4

Lxts\_enc6x\_four:

```

vxor $out0,$in2,$twk0
vxor $out1,$in3,$twk1
vxor $out2,$in4,$twk2
vxor $out3,$in5,$twk3
vxor $out4,$out4,$out4

```

bl \_aesp8\_xts\_enc5x

```

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk4 #

```



```

unused tweak
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
vxor $tmp,$out3,$twk4 # last block prep for stealing
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
stvx_u $out3,$x30,$out
addi $out,$out,0x40
bne Lxts_enc6x_steal
b Lxts_enc6x_done

```

```

.align 4

```

```

Lxts_enc6x_three:

```

```

vxor $out0,$in3,$twk0
vxor $out1,$in4,$twk1
vxor $out2,$in5,$twk2
vxor $out3,$out3,$out3
vxor $out4,$out4,$out4

```

```

bl _aesp8_xts_enc5x

```

```

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk3 # unused tweak
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out #
store output
vxor $tmp,$out2,$twk3 # last block prep for stealing
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
stvx_u $out2,$x20,$out
addi $out,$out,0x30
bne Lxts_enc6x_steal
b Lxts_enc6x_done

```

```

.align 4

```

```

Lxts_enc6x_two:

```

```

vxor $out0,$in4,$twk0
vxor $out1,$in5,$twk1
vxor $out2,$out2,$out2
vxor $out3,$out3,$out3
vxor $out4,$out4,$out4

```

```

bl _aesp8_xts_enc5x

```

```

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk2 # unused tweak

```



```

vxor $tmp,$out1,$twk2 # last block prep for stealing
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
stvx_u $out1,$x10,$out
addi $out,$out,0x20
bne Lxts_enc6x_steal
b Lxts_enc6x_done

```

```

.align 4

```

```

Lxts_enc6x_one:

```

```

vxor $out0,$in5,$twk0
nop

```

```

Loop_xts_enc1x:

```

```

vcipher $out0,$out0,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

```

```

vcipher $out0,$out0,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_xts_enc1x

```

```

add $inp,$inp,$taillen
cmpwi $taillen,0
vcipher $out0,$out0,v24

```

```

subi $inp,$inp,16
vcipher $out0,$out0,v25

```

```

lvsr $inpperm,0,$taillen
vcipher $out0,$out0,v26

```

```

lvx_u $in0,0,$inp
vcipher $out0,$out0,v27

```

```

addi $key_,$sp,$FRAME+15 #
rewind $key_
vcipher $out0,$out0,v28
lvx v24,$x00,$key_ # re-pre-load round[1]

```

```

vcipher $out0,$out0,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vxor $twk0,$twk0,v31

```

```

le?vperm $in0,$in0,$in0,$leperm
vcipher $out0,$out0,v30

```

```

vperm $in0,$in0,$in0,$inpperm
vcipherlast $out0,$out0,$twk0

```



```

vmr $twk0,$twk1 # unused tweak
vxor $tmp,$out0,$twk1 # last block prep for stealing
le?vperm $out0,$out0,$out0,$leperm
stvx_u $out0,$x00,$out # store output
addi $out,$out,0x10
bne Lxts_enc6x_steal
b Lxts_enc6x_done

```

```

.align 4
Lxts_enc6x_zero:
cmpwi $taillen,0
beq Lxts_enc6x_done

```

```

add $inp,$inp,$taillen
subi $inp,$inp,16
lvx_u $in0,0,$inp
lvsr $inpperm,0,$taillen # $in5 is no more
le?vperm $in0,$in0,$in0,$leperm
vperm $in0,$in0,$in0,$inpperm
vxor $tmp,$tmp,$twk0
Lxts_enc6x_steal:
vxor $in0,$in0,$twk0
vxor $out0,$out0,$out0
vspltisb $out1,-1
vperm $out0,$out0,$out1,$inpperm
vsel $out0,$in0,$tmp,$out0 #
$tmp is last block, remember?

```

```

subi r3,$out,17
subi $out,$out,16
mtctr $taillen
Loop_xts_enc6x_steal:
lbzu r0,1(r3)
stb r0,16(r3)
bdnz Loop_xts_enc6x_steal

```

```

li $taillen,0
mtctr $rounds
b Loop_xts_enc1x # one more time...

```

```

.align 4
Lxts_enc6x_done:
mtlr r7
li r10,`$FRAME+15`
li r11,`$FRAME+31`
stvx $seven,r10,$sp # wipe copies of round keys
addi r10,r10,32

```



```

stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32

mtspr 256,$vrsave
lvx v20,r10,$sp # ABI says so
addi r10,r10,32
lvx v21,r11,$sp
addi r11,r11,32
lvx v22,r10,$sp
addi r10,r10,32
lvx v23,r11,$sp
addi r11,r11,32
lvx v24,r10,$sp
addi r10,r10,32
lvx v25,r11,$sp
addi r11,r11,32
lvx v26,r10,$sp
addi r10,r10,32
lvx v27,r11,$sp
addi r11,r11,32
lvx v28,r10,$sp
addi r10,r10,32
lvx v29,r11,$sp
addi r11,r11,32
lvx v30,r10,$sp
lvx v31,r11,$sp
$POP r26,`$FRAME+21*16+0*$SIZE_T`($sp)
$POP r27,`$FRAME+21*16+1*$SIZE_T`($sp)
$POP r28,`$FRAME+21*16+2*$SIZE_T`($sp)
$POP r29,`$FRAME+21*16+3*$SIZE_T`($sp)
$POP r30,`$FRAME+21*16+4*$SIZE_T`($sp)
$POP r31,`$FRAME+21*16+5*$SIZE_T`($sp)
addi $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
blr
.long 0
.byte 0,12,0x04,1,0x80,6,6,0

```



```

.long 0

.align 5
_esp8_xts_enc5x:
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vcipher $out4,$out4,v24
lvx v24,$x20,$key_ #
round[3]
addi $key_,$key_,0x20

vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vcipher $out4,$out4,v25
lvx v25,$x10,$key_ # round[4]
bdnz _esp8_xts_enc5x

add $inp,$inp,$taillen
cmpwi $taillen,0
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vcipher $out4,$out4,v24

subi $inp,$inp,16
vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vcipher $out4,$out4,v25

vxor $twk0,$twk0,v31

vcipher $out0,$out0,v26
lvsr $inpperm,r0,$taillen # $in5 is no more
vcipher $out1,$out1,v26
vcipher $out2,$out2,v26
vcipher $out3,$out3,v26
vcipher $out4,$out4,v26
vxor $in1,$twk1,v31

vcipher $out0,$out0,v27
lvx_u $in0,0,$inp

```



```

vcipher $out1,$out1,v27
vcipher $out2,$out2,v27
vcipher $out3,$out3,v27
vcipher $out4,$out4,v27
vxor $in2,$twk2,v31

addi $key_,$sp,$FRAME+15 # rewind $key_
vcipher $out0,$out0,v28
vcipher $out1,$out1,v28
vcipher $out2,$out2,v28
vcipher $out3,$out3,v28
vcipher $out4,$out4,v28
lvx v24,$x00,$key_ # re-pre-load round[1]
vxor $in3,$twk3,v31

vcipher $out0,$out0,v29
le?vperm $in0,$in0,$in0,$leperm
vcipher $out1,$out1,v29
vcipher $out2,$out2,v29
vcipher $out3,$out3,v29
vcipher $out4,$out4,v29
lvx v25,$x10,$key_ #
re-pre-load round[2]
vxor $in4,$twk4,v31

vcipher $out0,$out0,v30
vperm $in0,$in0,$in0,$inpperm
vcipher $out1,$out1,v30
vcipher $out2,$out2,v30
vcipher $out3,$out3,v30
vcipher $out4,$out4,v30

vcipherlast $out0,$out0,$twk0
vcipherlast $out1,$out1,$in1
vcipherlast $out2,$out2,$in2
vcipherlast $out3,$out3,$in3
vcipherlast $out4,$out4,$in4
blr
 .long 0
 .byte 0,12,0x14,0,0,0,0,0

.align 5
_aesp8_xts_decrypt6x:
$STU $sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
mflr r0
li r7,`$FRAME+8*16+15`
li r8,`$FRAME+8*16+31`
$PUSH r0,`$FRAME+21*16+6*$SIZE_T+$LRSAVE`($sp)

```



```

stvx v20,r7,$sp # ABI says so
addi r7,r7,32
stvx v21,r8,$sp
addi r8,r8,32
stvx v22,r7,$sp
addi r7,r7,32
stvx v23,r8,$sp
addi r8,r8,32
stvx v24,r7,$sp
addi r7,r7,32
stvx v25,r8,$sp
addi r8,r8,32
stvx v26,r7,$sp
addi r7,r7,32
stvx v27,r8,$sp
addi r8,r8,32
stvx v28,r7,$sp
addi r7,r7,32
stvx v29,r8,$sp
addi r8,r8,32
stvx v30,r7,$sp
stvx v31,r8,$sp
mr r7,r0
li r0,-1
stw $vrsave,`$FRAME+21*16-4`($sp) #
save vrsave
li $x10,0x10
$PUSH r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li $x20,0x20
$PUSH r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li $x30,0x30
$PUSH r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li $x40,0x40
$PUSH r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li $x50,0x50
$PUSH r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li $x60,0x60
$PUSH r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li $x70,0x70
mtspr 256,r0

subi $rounds,$rounds,3 # -4 in total

lvx $rndkey0,$x00,$key1 # load key schedule
lvx v30,$x10,$key1
addi $key1,$key1,0x20
lvx v31,$x00,$key1
?vperm $rndkey0,$rndkey0,v30,$keyperm

```



addi \$key\_,\$sp,\$FRAME+15

mtctr \$rounds

Load\_xts\_dec\_key:

?vperm v24,v30,v31,\$keyperm

lvx v30,\$x10,\$key1

addi \$key1,\$key1,0x20

stvx v24,\$x00,\$key\_ # off-load round[1]

?vperm v25,v31,v30,\$keyperm

lvx v31,\$x00,\$key1

stvx v25,\$x10,\$key\_ #

off-load round[2]

addi \$key\_,\$key\_,0x20

bdnz Load\_xts\_dec\_key

lvx v26,\$x10,\$key1

?vperm v24,v30,v31,\$keyperm

lvx v27,\$x20,\$key1

stvx v24,\$x00,\$key\_ # off-load round[3]

?vperm v25,v31,v26,\$keyperm

lvx v28,\$x30,\$key1

stvx v25,\$x10,\$key\_ # off-load round[4]

addi \$key\_,\$sp,\$FRAME+15 # rewind \$key\_

?vperm v26,v26,v27,\$keyperm

lvx v29,\$x40,\$key1

?vperm v27,v27,v28,\$keyperm

lvx v30,\$x50,\$key1

?vperm v28,v28,v29,\$keyperm

lvx v31,\$x60,\$key1

?vperm v29,v29,v30,\$keyperm

lvx \$twk5,\$x70,\$key1 # borrow \$twk5

?vperm v30,v30,v31,\$keyperm

lvx v24,\$x00,\$key\_ # pre-load round[1]

?vperm v31,v31,\$twk5,\$keyperm

lvx v25,\$x10,\$key\_ # pre-load round[2]

vperm \$in0,\$inout,\$inptail,\$inpperm

subi \$inp,\$inp,31 # undo "caller"

vxor \$twk0,\$tweak,\$rndkey0

vsrab \$tmp,\$tweak,\$seven # next tweak value

vaddubm \$tweak,\$tweak,\$tweak

vsldoi \$tmp,\$tmp,\$tmp,15

vand \$tmp,\$tmp,\$eighty7

vxor \$out0,\$in0,\$twk0

vxor \$tweak,\$tweak,\$tmp



```

lvx_u $in1,$x10,$inp
v xor $twk1,$tweak,$rndkey0
v srab $tmp,$tweak,$seven # next tweak value
v addubm $tweak,$tweak,$tweak
v sldoi $tmp,$tmp,$tmp,15
le?vperm $in1,$in1,$in1,$leperm
v and $tmp,$tmp,$eighty7
v xor $out1,$in1,$twk1
v xor $tweak,$tweak,$tmp

```

```

lvx_u $in2,$x20,$inp
andi. $taillen,$len,15
v xor $twk2,$tweak,$rndkey0
v srab $tmp,$tweak,$seven # next tweak value
v addubm $tweak,$tweak,$tweak
v sldoi $tmp,$tmp,$tmp,15
le?vperm $in2,$in2,$in2,$leperm
v and $tmp,$tmp,$eighty7
v xor $out2,$in2,$twk2
v xor $tweak,$tweak,$tmp

```

```

lvx_u $in3,$x30,$inp
sub $len,$len,$taillen
v xor $twk3,$tweak,$rndkey0
v srab $tmp,$tweak,$seven # next tweak value
v addubm $tweak,$tweak,$tweak
v sldoi $tmp,$tmp,$tmp,15
le?vperm $in3,$in3,$in3,$leperm
v and $tmp,$tmp,$eighty7
v xor $out3,$in3,$twk3
v xor $tweak,$tweak,$tmp

```

```

lvx_u $in4,$x40,$inp
subi $len,$len,0x60
v xor $twk4,$tweak,$rndkey0
v srab $tmp,$tweak,$seven # next tweak value
v addubm $tweak,$tweak,$tweak
v sldoi $tmp,$tmp,$tmp,15

```

```

le?vperm $in4,$in4,$in4,$leperm
v and $tmp,$tmp,$eighty7
v xor $out4,$in4,$twk4
v xor $tweak,$tweak,$tmp

```

```

lvx_u $in5,$x50,$inp
addi $inp,$inp,0x60
v xor $twk5,$tweak,$rndkey0
v srab $tmp,$tweak,$seven # next tweak value

```



```

vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in5,$in5,$in5,$leperm
vand $tmp,$tmp,$eighty7
vxor $out5,$in5,$twk5
vxor $tweak,$tweak,$tmp

vxor v31,v31,$rndkey0
mtctr $rounds
b Loop_xts_dec6x

.align 5
Loop_xts_dec6x:
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_xts_dec6x

subic $len,$len,96 # $len-=96

vxor $in0,$twk0,v31 # xor with last round key
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk0,$tweak,$rndkey0
vaddubm $tweak,$tweak,$tweak
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vsldoi $tmp,$tmp,$tmp,15
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24

subfe. r0,r0,r0 # borrow?-1:0
vand $tmp,$tmp,$eighty7
vncipher $out0,$out0,v25

```



```

vncipher $out1,$out1,v25
v xor $tweak,$tweak,$tmp
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
v xor $in1,$twk1,v31
vsrab $tmp,$tweak,$seven # next tweak value
v xor $twk1,$tweak,$rndkey0
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25

```

```

and r0,r0,$len
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
vand $tmp,$tmp,$eighty7
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
v xor $tweak,$tweak,$tmp
vncipher $out4,$out4,v26
vncipher $out5,$out5,v26

```

```

add $inp,$inp,r0 # $inp
is adjusted in such
 # way that at exit from the
 # loop inX-in5 are loaded
 # with last "words"
v xor $in2,$twk2,v31
vsrab $tmp,$tweak,$seven # next tweak value
v xor $twk2,$tweak,$rndkey0
vaddubm $tweak,$tweak,$tweak
vncipher $out0,$out0,v27
vncipher $out1,$out1,v27
vsldoi $tmp,$tmp,$tmp,15
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vand $tmp,$tmp,$eighty7
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27

```

```

addi $key_,$sp,$FRAME+15 # rewind $key_
v xor $tweak,$tweak,$tmp
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
v xor $in3,$twk3,v31
vsrab $tmp,$tweak,$seven # next tweak value
v xor $twk3,$tweak,$rndkey0
vncipher $out2,$out2,v28

```



```

vncipher $out3,$out3,v28
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
lvx v24,$x00,$key_ # re-pre-load round[1]
vand $tmp,$tmp,$eighty7

vncipher $out0,$out0,v29
vncipher $out1,$out1,v29
vxor $tweak,$tweak,$tmp
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29

vxor $in4,$twk4,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk4,$tweak,$rndkey0
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15

vncipher $out0,$out0,v30
vncipher $out1,$out1,v30
vand $tmp,$tmp,$eighty7
vncipher $out2,$out2,v30
vncipher $out3,$out3,v30
vxor $tweak,$tweak,$tmp
vncipher $out4,$out4,v30
vncipher $out5,$out5,v30
vxor $in5,$twk5,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk5,$tweak,$rndkey0

vncipherlast $out0,$out0,$in0
lvx_u $in0,$x00,$inp # load next input block
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vncipherlast $out1,$out1,$in1
lvx_u $in1,$x10,$inp
vncipherlast $out2,$out2,$in2
le?vperm $in0,$in0,$in0,$leperm
lvx_u $in2,$x20,$inp
vand $tmp,$tmp,$eighty7
vncipherlast $out3,$out3,$in3
le?vperm $in1,$in1,$in1,$leperm
lvx_u $in3,$x30,$inp

```



```
vncipherlast $out4,$out4,$in4
```

```
le?vperm $in2,$in2,$in2,$leperm
lvx_u $in4,$x40,$inp
vxor $tweak,$tweak,$tmp
vncipherlast $out5,$out5,$in5
le?vperm $in3,$in3,$in3,$leperm
lvx_u $in5,$x50,$inp
addi $inp,$inp,0x60
le?vperm $in4,$in4,$in4,$leperm
le?vperm $in5,$in5,$in5,$leperm
```

```
le?vperm $out0,$out0,$out0,$leperm
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk0
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
vxor $out1,$in1,$twk1
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
vxor $out2,$in2,$twk2
le?vperm $out4,$out4,$out4,$leperm
stvx_u $out3,$x30,$out
vxor $out3,$in3,$twk3
le?vperm $out5,$out5,$out5,$leperm
stvx_u $out4,$x40,$out
vxor $out4,$in4,$twk4
stvx_u $out5,$x50,$out
vxor $out5,$in5,$twk5
addi $out,$out,0x60
```

```
mtctr $rounds
beq Loop_xts_dec6x # did $len==96 borrow?
```

```
addic $len,$len,0x60
beq Lxts_dec6x_zero
cmpwi $len,0x20
blt Lxts_dec6x_one
nop
beq Lxts_dec6x_two
cmpwi $len,0x40
blt Lxts_dec6x_three
nop
beq Lxts_dec6x_four
```

```
Lxts_dec6x_five:
vxor $out0,$in1,$twk0
```



```

vxor $out1,$in2,$twk1
vxor $out2,$in3,$twk2
vxor $out3,$in4,$twk3
vxor $out4,$in5,$twk4

bl _aesp8_xts_dec5x

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk5 #
unused tweak
vxor $twk1,$tweak,$rndkey0
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk1
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$leperm
stvx_u $out3,$x30,$out
stvx_u $out4,$x40,$out
addi $out,$out,0x50
bne Lxts_dec6x_steal
b Lxts_dec6x_done

```

```

.align 4
Lxts_dec6x_four:
vxor $out0,$in2,$twk0
vxor $out1,$in3,$twk1
vxor $out2,$in4,$twk2
vxor $out3,$in5,$twk3
vxor $out4,$out4,$out4

```

```

bl _aesp8_xts_dec5x

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk4 # unused tweak
vmr $twk1,$twk5
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out #
store output
vxor $out0,$in0,$twk5
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
stvx_u $out3,$x30,$out
addi $out,$out,0x40

```



```

bne Lxts_dec6x_steal
b Lxts_dec6x_done

.align 4
Lxts_dec6x_three:
vxor $out0,$in3,$twk0
vxor $out1,$in4,$twk1
vxor $out2,$in5,$twk2
vxor $out3,$out3,$out3
vxor $out4,$out4,$out4

bl _aesp8_xts_dec5x

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk3 # unused tweak
vmr $twk1,$twk4
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk4
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
stvx_u $out2,$x20,$out
addi $out,$out,0x30
bne Lxts_dec6x_steal
b Lxts_dec6x_done

.align 4
Lxts_dec6x_two:
vxor $out0,$in4,$twk0
vxor $out1,$in5,$twk1
vxor $out2,$out2,$out2
vxor $out3,$out3,$out3
vxor $out4,$out4,$out4

bl _aesp8_xts_dec5x

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk2 #
unused tweak
vmr $twk1,$twk3
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk3
stvx_u $out1,$x10,$out
addi $out,$out,0x20
bne Lxts_dec6x_steal
b Lxts_dec6x_done

```



```

.align 4
Lxts_dec6x_one:
 vxor $out0,$in5,$twk0
 nop
Loop_xts_dec1x:
 vncipher $out0,$out0,v24
 lvx v24,$x20,$key_ # round[3]
 addi $key_,$key_,0x20

 vncipher $out0,$out0,v25
 lvx v25,$x10,$key_ # round[4]
 bdnz Loop_xts_dec1x

 subi r0,$taillen,1
 vncipher $out0,$out0,v24

 andi r0,r0,16
 cmpwi $taillen,0
 vncipher $out0,$out0,v25

 sub $inp,$inp,r0
 vncipher $out0,$out0,v26

 lvx_u $in0,0,$inp
 vncipher $out0,$out0,v27

 addi $key_,$sp,$FRAME+15 # rewind $key_
 vncipher $out0,$out0,v28
 lvx v24,$x00,$key_ # re-pre-load round[1]

 vncipher $out0,$out0,v29
 lvx v25,$x10,$key_ # re-pre-load round[2]
 vxor $twk0,$twk0,v31

 le?vperm $in0,$in0,$in0,$leperm
 vncipher $out0,$out0,v30

 mtctr $rounds
 vncipherlast $out0,$out0,$twk0

 vmr $twk0,$twk1 #
 unused tweak
 vmr $twk1,$twk2
 le?vperm $out0,$out0,$out0,$leperm
 stvx_u $out0,$x00,$out # store output
 addi $out,$out,0x10
 vxor $out0,$in0,$twk2
 bne Lxts_dec6x_steal

```



```

b Lxts_dec6x_done

.align 4
Lxts_dec6x_zero:
cmpwi $taillen,0
beq Lxts_dec6x_done

lvx_u $in0,0,$inp
le?vperm $in0,$in0,$in0,$leperm
vxor $out0,$in0,$twk1
Lxts_dec6x_steal:
vncipher $out0,$out0,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vncipher $out0,$out0,v25
lvx v25,$x10,$key_ # round[4]
bdnz Lxts_dec6x_steal

add $inp,$inp,$taillen
vncipher $out0,$out0,v24

cmpwi $taillen,0
vncipher $out0,$out0,v25

lvx_u $in0,0,$inp
vncipher $out0,$out0,v26

lvsr $inpperm,0,$taillen # $in5 is no more
vncipher $out0,$out0,v27

addi $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
lvx v24,$x00,$key_ # re-pre-load round[1]

vncipher $out0,$out0,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vxor $twk1,$twk1,v31

le?vperm $in0,$in0,$in0,$leperm
vncipher $out0,$out0,v30

vperm $in0,$in0,$in0,$inpperm
vncipherlast $tmp,$out0,$twk1

le?vperm $out0,$tmp,$tmp,$leperm
le?stvx_u $out0,0,$out
be?stvx_u $tmp,0,$out

```



```

vxor $out0,$out0,$out0
vspltisb $out1,-1
vperm $out0,$out0,$out1,$inpperm
vsel $out0,$in0,$tmp,$out0
vxor $out0,$out0,$twk0

subi r3,$out,1
mtctr $taillen
Loop_xts_dec6x_steal:
lbzu r0,1(r3)
stb r0,16(r3)
bdnz Loop_xts_dec6x_steal

li $taillen,0
mtctr $rounds
b Loop_xts_dec1x #
one more time...

.align 4
Lxts_dec6x_done:
mtlr r7
li r10,`$FRAME+15`
li r11,`$FRAME+31`
stvx $seven,r10,$sp # wipe copies of round keys
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32

mtspr 256,$vrsave
lvx v20,r10,$sp #
ABI says so
addi r10,r10,32
lvx v21,r11,$sp
addi r11,r11,32
lvx v22,r10,$sp

```



```

addi r10,r10,32
lvx v23,r11,$sp
addi r11,r11,32
lvx v24,r10,$sp
addi r10,r10,32
lvx v25,r11,$sp
addi r11,r11,32
lvx v26,r10,$sp
addi r10,r10,32
lvx v27,r11,$sp
addi r11,r11,32
lvx v28,r10,$sp
addi r10,r10,32
lvx v29,r11,$sp
addi r11,r11,32
lvx v30,r10,$sp
lvx v31,r11,$sp
$POP r26,`$FRAME+21*16+0*$SIZE_T`($sp)
$POP r27,`$FRAME+21*16+1*$SIZE_T`($sp)
$POP r28,`$FRAME+21*16+2*$SIZE_T`($sp)
$POP r29,`$FRAME+21*16+3*$SIZE_T`($sp)
$POP r30,`$FRAME+21*16+4*$SIZE_T`($sp)
$POP r31,`$FRAME+21*16+5*$SIZE_T`($sp)
addi $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
blr
.long 0
.byte 0,12,0x04,1,0x80,6,6,0
.long 0

.align 5
_aesp8_xts_dec5x:
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
lvx v25,$x10,$key_ #
round[4]
bdnz _aesp8_xts_dec5x

```



```

subi r0,$taillen,1
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24

```

```

andi r0,r0,16
cmpwi $taillen,0
vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vxor $twk0,$twk0,v31

```

```

sub $inp,$inp,r0
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vncipher $out4,$out4,v26
vxor $in1,$twk1,v31

```

```

vncipher $out0,$out0,v27
lvx_u $in0,0,$inp
vncipher $out1,$out1,v27
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
vxor $in2,$twk2,v31

```

```

addi $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vncipher $out4,$out4,v28
lvx v24,$x00,$key_ #
re-pre-load round[1]
vxor $in3,$twk3,v31

```

```

vncipher $out0,$out0,v29
le?vperm $in0,$in0,$in0,$leperm
vncipher $out1,$out1,v29
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vncipher $out4,$out4,v29

```



```

lvx v25,$x10,$key_ # re-pre-load round[2]
vxor $in4,$twk4,v31

vncipher $out0,$out0,v30
vncipher $out1,$out1,v30
vncipher $out2,$out2,v30
vncipher $out3,$out3,v30
vncipher $out4,$out4,v30

vncipherlast $out0,$out0,$twk0
vncipherlast $out1,$out1,$in1
vncipherlast $out2,$out2,$in2
vncipherlast $out3,$out3,$in3
vncipherlast $out4,$out4,$in4
mtctr $rounds
blr
 .long 0
 .byte 0,12,0x14,0,0,0,0,0
—
}} }}

my $consts=1;
foreach(split("\n",$code)) {
 s/\`([^\`]*)\`/eval($1)/geo;

constants table endian-specific conversion
if ($consts && m/\.(long|byte)\s+(.+)\s+(\?[a-z]*)$/o) {
 my $conv=$3;
 my @bytes=();

 # convert to endian-agnostic format
 if ($1 eq "long") {
 foreach (split(/,\s*/,$2))
 {
 my $l = /^0/?oct:int;
 push @bytes,($l>>24)&0xff,($l>>16)&0xff,($l>>8)&0xff,$l&0xff;
 }
 } else {
 @bytes = map(/^0/?oct:int,split(/,\s*/,$2));
 }

 # little-endian conversion
 if ($flavour =~ /le$/o) {
 SWITCH: for($conv) {
 /\?inv/ && do { @bytes=map($_^0xf,@bytes); last; };
 /\?rev/ && do { @bytes=reverse(@bytes); last; };
 }
 }
}

```



```

#emit
print ".byte\t",join(',',map (sprintf("0x%02x",$_),@bytes)), "\n";
next;
}
$consts=0 if (m/Lconsts:/o); # end of table

instructions prefixed with '?' are endian-specific and need
to be adjusted accordingly...
if ($flavour =~ /le$/o) { # little-endian
 s/le\?//o or
 s/be\?/#be#/o or
 s/\?lvsl/lvsl/o or
 s/\?lvsl/lvsl/o or
 s/\?(vperm\s+v[0-9]+\,s*)(v[0-9]+\,s*)(v[0-9]+\,s*)(v[0-9]+)/$1$3$2$4/o or
 s/\?(vsldoi\s+v[0-9]+\,s*)(v[0-9]+\,s*)(v[0-9]+\,s*)([0-9]+)/$1$3$2 16-$4/o or
 s/\?(vspltw\s+v[0-9]+\,s*)(v[0-9]+\,s*)([0-9]+)/$1$2 3-$3/o;
}
else { # big-endian
 s/le\?/#le#/o or
 s/be\?//o or
 s/\?([a-z]+)/$1/o;
}

 print $_, "\n";
}

```

close STDOUT;

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesp8-ppc.pl

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2.0.16/crypto/rand/rand\_lcl.h

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#!/usr/bin/env perl

#

# =====

# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL  
# project. The module is, however, dual licensed under OpenSSL and  
# CRYPTOGAMS licenses depending on where you obtain it. For further  
# details see <http://www.openssl.org/~appro/cryptogams/>.

# =====

#

# GHASH for for PowerISA v2.07.

#

# July 2014

#

# Accurate performance measurements are problematic, because it's  
# always virtualized setup with possibly throttled processor.  
# Relative comparison is therefore more informative. This initial  
# version is ~2.1x slower than hardware-assisted AES-128-CTR, ~12x  
# faster than "4-bit" integer-only compiler-generated 64-bit code.  
# "Initial version" means that there is room for futher improvement.

# May 2016

#

# 2x aggregated reduction improves performance by  
50% (resulting  
# performance on POWER8 is 1 cycle per processed byte), and 4x  
# aggregated reduction - by 170% or 2.7x (resulting in 0.55 cpb).

\$flavour=shift;

\$output =shift;

```
if ($flavour =~ /64/) {
 $SIZE_T=8;
 $LRSIZE=2*$SIZE_T;
 $STU="stdu";
 $POP="ld";
 $PUSH="std";
 $UCMP="cmpld";
 $SHRI="srdi";
} elsif ($flavour =~ /32/) {
```



```

$SIZE_T=4;
$LRSAVE=$SIZE_T;
$STU="stwu";
$POP="lwz";
$PUSH="stw";
$UCMP="cmplw";
$SHRI="srwi";
} else { die "nonsense $flavour"; }

$sp="r1";
$FRAME=6*$SIZE_T+13*16; # 13*16 is for v20-v31 offload

$0 =~ m/(.*[\\])(^\\|)+$/; $dir=$1;
($xlate="{dir}ppc-xlate.pl" and -f $xlate) or
($xlate="{dir}../perlasm/ppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";

open STDOUT,"| $^X $xlate $flavour $output" || die "can't call $xlate: $!";

my ($Xip,$Htbl,$Inp,$len)=map("r$_",(3..6)); # argument block

my ($Xl,$Xm,$Xh,$IN)=map("v$_",(0..3));
my ($zero,$t0,$t1,$t2,$xC2,$H,$Hh,$Hl,$lemask)=map("v$_",(4..12));
my ($Xl1,$Xm1,$Xh1,$IN1,$H2,$H2h,$H2l)=map("v$_",(13..19));
my
$vrsave="r12";

$code=<<___.
.machine "any"

.text

.globl .gcm_init_p8
.align 5
.gcm_init_p8:
li r0,-4096
li r8,0x10
mfspr $vrsave,256
li r9,0x20
mtspr 256,r0
li r10,0x30
lvx_u $H,0,r4 # load H

vspltisb $xC2,-16 # 0xf0
vspltisb $t0,1 # one
vaddubm $xC2,$xC2,$xC2 # 0xe0
vxor $zero,$zero,$zero
vor $xC2,$xC2,$t0 # 0xe1

```



```

vsldoi $xC2,$xC2,$zero,15 # 0xe1...
vsldoi $t1,$zero,$t0,1 # ...1
vaddubm $xC2,$xC2,$xC2 # 0xc2...
vspltisb $t2,7
vor $xC2,$xC2,$t1 # 0xc2....01
vspltb $t1,$H,0 # most significant byte
vsl $H,$H,$t0 # H<=<=1
vsrab $t1,$t1,$t2 # broadcast carry bit
vand $t1,$t1,$xC2
vxor $IN,$H,$t1 # twisted H

vsldoi $H,$IN,$IN,8 # twist even more ...
vsldoi $xC2,$zero,$xC2,8 # 0xc2.0
vsldoi $Hl,$zero,$H,8 # ... and split
vsldoi $Hh,$H,$zero,8

stvx_u $xC2,0,r3 # save pre-computed table
stvx_u $Hl,r8,r3
li r8,0x40
stvx_u $H, r9,r3
li r9,0x50
stvx_u $Hh,r10,r3
li r10,0x60

vpmsumd $Xl,$IN,$Hl #
H.loH.lo
vpmsumd $Xm,$IN,$H # H.hiH.lo+H.loH.hi
vpmsumd $Xh,$IN,$Hh # H.hiH.hi

vpmsumd $t2,$Xl,$xC2 # 1st reduction phase

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $Xl,$Xl,$t0
vxor $Xh,$Xh,$t1

vsldoi $Xl,$Xl,$Xl,8
vxor $Xl,$Xl,$t2

vsldoi $t1,$Xl,$Xl,8 # 2nd reduction phase
vpmsumd $Xl,$Xl,$xC2
vxor $t1,$t1,$Xh
vxor $IN1,$Xl,$t1

vsldoi $H2,$IN1,$IN1,8
vsldoi $H2l,$zero,$H2,8
vsldoi $H2h,$H2,$zero,8

```



```

stvx_u $H2l,r8,r3 # save H^2
li r8,0x70
stvx_u $H2,r9,r3
li r9,0x80
stvx_u $H2h,r10,r3
li r10,0x90

{
my ($t4,$t5,$t6) = ($Hl,$H,$Hh);
$code.=<<____;
vpmsumd $Xl,$IN,$H2l # H.loH^2.lo
vpmsumd $Xl1,$IN1,$H2l # H^2.loH^2.lo
vpmsumd $Xm,$IN,$H2 # H.hiH^2.lo+H.loH^2.hi
vpmsumd $Xm1,$IN1,$H2 # H^2.hiH^2.lo+H^2.loH^2.hi
vpmsumd $Xh,$IN,$H2h # H.hiH^2.hi
vpmsumd $Xh1,$IN1,$H2h # H^2.hiH^2.hi

vpmsumd $t2,$Xl,$xC2 # 1st reduction phase
vpmsumd $t6,$Xl1,$xC2 # 1st reduction
phase

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vsldoi $t4,$Xm1,$zero,8
vsldoi $t5,$zero,$Xm1,8
vxor $Xl,$Xl,$t0
vxor $Xh,$Xh,$t1
vxor $Xl1,$Xl1,$t4
vxor $Xh1,$Xh1,$t5

vsldoi $Xl,$Xl,$Xl,8
vsldoi $Xl1,$Xl1,$Xl1,8
vxor $Xl,$Xl,$t2
vxor $Xl1,$Xl1,$t6

vsldoi $t1,$Xl,$Xl,8 # 2nd reduction phase
vsldoi $t5,$Xl1,$Xl1,8 # 2nd reduction phase
vpmsumd $Xl,$Xl,$xC2
vpmsumd $Xl1,$Xl1,$xC2
vxor $t1,$t1,$Xh
vxor $t5,$t5,$Xh1
vxor $Xl,$Xl,$t1
vxor $Xl1,$Xl1,$t5

vsldoi $H,$Xl,$Xl,8
vsldoi $H2,$Xl1,$Xl1,8
vsldoi $Hl,$zero,$H,8
vsldoi $Hh,$H,$zero,8

```



```

vsldoi $H2l,$zero,$H2,8
vsldoi $H2h,$H2,$zero,8

stvx_u $Hl,r8,r3 # save H^3
li r8,0xa0
stvx_u $H,r9,r3
li r9,0xb0
stvx_u $Hh,r10,r3
li r10,0xc0
stvx_u $H2l,r8,r3 # save H^4
stvx_u $H2,r9,r3
stvx_u $H2h,r10,r3

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,2,0
.long 0
.size .gcm_init_p8,-.gcm_init_p8

}
$code.=<<____;
.globl .gcm_gmult_p8
.align 5
.gcm_gmult_p8:
lis r0,0xffff8
li r8,0x10
mfspr $vrsave,256
li r9,0x20
mtspr 256,r0
li r10,0x30
lvx_u $IN,0,$Xip #
load Xi

lvx_u $Hl,r8,$Htbl # load pre-computed table
le?lvs $lemask,r0,r0
lvx_u $H, r9,$Htbl
le?vspltisb $t0,0x07
lvx_u $Hh,r10,$Htbl
le?vxor $lemask,$lemask,$t0
lvx_u $xC2,0,$Htbl
le?vperm $IN,$IN,$IN,$lemask
vxor $zero,$zero,$zero

vpmsumd $Xl,$IN,$Hl # H.loXi.lo
vpmsumd $Xm,$IN,$H # H.hiXi.lo+H.loXi.hi
vpmsumd $Xh,$IN,$Hh # H.hiXi.hi

```



vpmsumd \$t2,\$X1,\$xC2 # 1st reduction phase

vsldoi \$t0,\$Xm,\$zero,8  
vsldoi \$t1,\$zero,\$Xm,8  
vxor \$X1,\$X1,\$t0  
vxor \$Xh,\$Xh,\$t1

vsldoi \$X1,\$X1,\$X1,8  
vxor \$X1,\$X1,\$t2

vsldoi \$t1,\$X1,\$X1,8 # 2nd reduction phase  
vpmsumd \$X1,\$X1,\$xC2  
vxor \$t1,\$t1,\$Xh  
vxor \$X1,\$X1,\$t1

le?vperm \$X1,\$X1,\$X1,\$lemask  
stvx\_u \$X1,0,\$Xip # write out Xi

mtspr 256,\$vrsave  
blr  
.long 0  
.byte 0,12,0x14,0,0,0,2,0  
.long 0  
.size .gcm\_gmult\_p8,-.gcm\_gmult\_p8

.globl .gcm\_ghash\_p8  
.align 5  
.gcm\_ghash\_p8:  
li r0,-4096  
li r8,0x10  
mfspr \$vrsave,256  
li r9,0x20  
mtspr 256,r0  
li r10,0x30  
lvx\_u \$X1,0,\$Xip #  
load Xi

lvx\_u \$H1,r8,\$Htbl # load pre-computed table  
li r8,0x40  
le?lvs1 \$lemask,r0,r0  
lvx\_u \$H, r9,\$Htbl  
li r9,0x50  
le?vspltisb \$t0,0x07  
lvx\_u \$Hh,r10,\$Htbl  
li r10,0x60  
le?vxor \$lemask,\$lemask,\$t0  
lvx\_u \$xC2,0,\$Htbl  
le?vperm \$X1,\$X1,\$X1,\$lemask



```

vxor $zero,$zero,$zero

${UCMP}i $len,64
bge Lgcm_ghash_p8_4x

lvx_u $IN,0,$inp
addi $inp,$inp,16
subic $len,$len,16
le?vperm $IN,$IN,$IN,$lemask
vxor $IN,$IN,$Xl
beq Lshort

lvx_u $H2l,r8,$Htbl # load H^2
li r8,16
lvx_u $H2, r9,$Htbl
add r9,$inp,$len # end of input
lvx_u $H2h,r10,$Htbl
be?b Loop_2x

.align 5
Loop_2x:
lvx_u $IN1,0,$inp
le?vperm $IN1,$IN1,$IN1,$lemask

subic $len,$len,32
vpmsumd $Xl,$IN,$H2l # H^2.loXi.lo
vpmsumd $Xl1,$IN1,$Hl # H.loXi+1.lo
subfe r0,r0,r0 # borrow?-1:0
vpmsumd $Xm,$IN,$H2 # H^2.hiXi.lo+H^2.loXi.hi

vpmsumd $Xm1,$IN1,$H # H.hiXi+1.lo+H.loXi+1.hi
and r0,r0,$len
vpmsumd $Xh,$IN,$H2h # H^2.hiXi.hi
vpmsumd $Xh1,$IN1,$Hh # H.hiXi+1.hi
add $inp,$inp,r0

vxor $Xl,$Xl,$Xl1
vxor $Xm,$Xm,$Xm1

vpmsumd $t2,$Xl,$xC2 # 1st reduction phase

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $Xh,$Xh,$Xh1
vxor $Xl,$Xl,$t0
vxor $Xh,$Xh,$t1

vsldoi $Xl,$Xl,$Xl,8

```



```

vxor $X1,$X1,$t2
lvx_u $IN,r8,$inp
addi $inp,$inp,32

vsldoi $t1,$X1,$X1,8 # 2nd reduction phase
vpmsumd $X1,$X1,$xC2
le?vperm $IN,$IN,$IN,$lemask
vxor $t1,$t1,$Xh
vxor $IN,$IN,$t1
vxor $IN,$IN,$X1
$UCMP r9,$inp
bgt Loop_2x # done yet?

cmplwi $len,0
bne Leven

Lshort:
vpmsumd $X1,$IN,$Hl # H.loXi.lo
vpmsumd $Xm,$IN,$H # H.hiXi.lo+H.loXi.hi
vpmsumd $Xh,$IN,$Hh # H.hiXi.hi

vpmsumd $t2,$X1,$xC2 # 1st reduction phase

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $X1,$X1,$t0
vxor $Xh,$Xh,$t1

vsldoi $X1,$X1,$X1,8
vxor $X1,$X1,$t2

vsldoi $t1,$X1,$X1,8 #
2nd reduction phase
vpmsumd $X1,$X1,$xC2
vxor $t1,$t1,$Xh

Leven:
vxor $X1,$X1,$t1
le?vperm $X1,$X1,$X1,$lemask
stvx_u $X1,0,$Xip # write out Xi

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,4,0
.long 0

```

---

```

{

```



```

my ($Xl3,$Xm2,$IN2,$H3l,$H3,$H3h,
 $Xh3,$Xm3,$IN3,$H4l,$H4,$H4h) = map("v$_",(20..31));
my $IN0=$IN;
my ($H2l1,$H2l1h,$loperm,$hiperm) = ($Hl,$Hh,$H2l,$H2h);

```

```

$code.=<<____;
.align 5
.gcm_ghash_p8_4x:
Lgcm_ghash_p8_4x:
 $STU $sp,-$FRAME($sp)
 li r10,`15+6*$SIZE_T`
 li r11,`31+6*$SIZE_T`
 stvx v20,r10,$sp
 addi r10,r10,32
 stvx v21,r11,$sp
 addi r11,r11,32
 stvx v22,r10,$sp
 addi r10,r10,32
 stvx v23,r11,$sp
 addi r11,r11,32
 stvx v24,r10,$sp
 addi r10,r10,32
 stvx v25,r11,$sp
 addi r11,r11,32
 stvx v26,r10,$sp
 addi r10,r10,32
 stvx v27,r11,$sp
 addi r11,r11,32
 stvx v28,r10,$sp
 addi r10,r10,32
 stvx v29,r11,$sp
 addi r11,r11,32
 stvx v30,r10,$sp
 li r10,0x60
 stvx v31,r11,$sp
 li r0,-1
 stw $vrsave,`$FRAME-4`($sp) #
 save vrsave
 mtspr 256,r0 # preserve all AltiVec registers

```

```

lvsl $t0,0,r8 # 0x0001..0e0f
#lvx_u $H2l,r8,$Htbl # load H^2
li r8,0x70
lvx_u $H2, r9,$Htbl
li r9,0x80
vspltisb $t1,8 # 0x0808..0808
#lvx_u $H2h,r10,$Htbl
li r10,0x90

```



```

lvx_u $H3l,r8,$Htbl # load H^3
li r8,0xa0
lvx_u $H3, r9,$Htbl
li r9,0xb0
lvx_u $H3h,r10,$Htbl
li r10,0xc0
lvx_u $H4l,r8,$Htbl # load H^4
li r8,0x10
lvx_u $H4, r9,$Htbl
li r9,0x20
lvx_u $H4h,r10,$Htbl
li r10,0x30

vsldoi $t2,$zero,$t1,8 # 0x0000..0808
vaddubm $hiperm,$t0,$t2 # 0x0001..1617
vaddubm $loperm,$t1,$hiperm # 0x0809..1e1f

$SHRI $len,$len,4 # this allows to use sign bit
as carry
lvx_u $IN0,0,$inp # load input
lvx_u $IN1,r8,$inp
subic. $len,$len,8
lvx_u $IN2,r9,$inp
lvx_u $IN3,r10,$inp
addi $inp,$inp,0x40
le?vperm $IN0,$IN0,$IN0,$lemask
le?vperm $IN1,$IN1,$IN1,$lemask
le?vperm $IN2,$IN2,$IN2,$lemask
le?vperm $IN3,$IN3,$IN3,$lemask

vxor $Xh,$IN0,$Xl

vpmsumd $Xl1,$IN1,$H3l

vpmsumd $Xm1,$IN1,$H3
vpmsumd $Xh1,$IN1,$H3h

vperm $H2l1,$H2,$H,$hiperm
vperm $t0,$IN2,$IN3,$loperm
vperm $H21h,$H2,$H,$loperm
vperm $t1,$IN2,$IN3,$hiperm
vpmsumd $Xm2,$IN2,$H2 # $H^{2.loXi+2.hi} + H^{2.hiXi+2.lo}$
vpmsumd $Xl3,$t0,$H2l1 # $H^{2.loXi+2.lo} + H.loXi+3.lo$
vpmsumd $Xm3,$IN3,$H # $H.hiXi+3.lo + H.loXi+3.hi$
vpmsumd $Xh3,$t1,$H21h # $H^{2.hiXi+2.hi} + H.hiXi+3.hi$

vxor $Xm2,$Xm2,$Xm1
vxor $Xl3,$Xl3,$Xl1

```



```
vxor $Xm3,$Xm3,$Xm2
```

```
vxor $Xh3,$Xh3,$Xh1
```

```
blt Ltail_4x
```

```
Loop_4x:
```

```
lvx_u $IN0,0,$inp
```

```
lvx_u $IN1,r8,$inp
```

```
subic. $len,$len,4
```

```
lvx_u $IN2,r9,$inp
```

```
lvx_u $IN3,r10,$inp
```

```
addi $inp,$inp,0x40
```

```
le?vperm $IN1,$IN1,$IN1,$lemask
```

```
le?vperm $IN2,$IN2,$IN2,$lemask
```

```
le?vperm $IN3,$IN3,$IN3,$lemask
```

```
le?vperm $IN0,$IN0,$IN0,$lemask
```

```
vpmsumd $Xl,$Xh,$H4l # $H^4.loXi.lo$
```

```
vpmsumd $Xm,$Xh,$H4 # $H^4.hiXi.lo+H^4.loXi.hi$
```

```
vpmsumd $Xh,$Xh,$H4h # $H^4.hiXi.hi$
```

```
vpmsumd $Xl1,$IN1,$H3l
```

```
vpmsumd $Xm1,$IN1,$H3
```

```
vpmsumd $Xh1,$IN1,$H3h
```

```
vxor $Xl,$Xl,$Xl3
```

```
vxor $Xm,$Xm,$Xm3
```

```
vxor $Xh,$Xh,$Xh3
```

```
vperm $t0,$IN2,$IN3,$loperm
```

```
vperm $t1,$IN2,$IN3,$hiperm
```

```
vpmsumd $t2,$Xl,$xC2 # 1st reduction phase
```

```
vpmsumd $Xl3,$t0,$H2l1 # $H.loXi+3.lo + H^2.loXi+2.lo$
```

```
vpmsumd $Xh3,$t1,$H2h1 # $H.hiXi+3.hi + H^2.hiXi+2.hi$
```

```
vsldoi $t0,$Xm,$zero,8
```

```
vsldoi $t1,$zero,$Xm,8
```

```
vxor $Xl,$Xl,$t0
```

```
vxor $Xh,$Xh,$t1
```

```
vsldoi $Xl,$Xl,$Xl,8
```

```
vxor $Xl,$Xl,$t2
```

```
vsldoi $t1,$Xl,$Xl,8 # 2nd reduction phase
```

```
vpmsumd $Xm2,$IN2,$H2 # $H^2.hiXi+2.lo+H^2.loXi+2.hi$
```

```
vpmsumd $Xm3,$IN3,$H # $H.hiXi+3.lo + H.loXi+3.hi$
```

```
vpmsumd $Xl,$Xl,$xC2
```



```

vxor $Xl3,$Xl3,$Xl1
vxor $Xh3,$Xh3,$Xh1
vxor $Xh,$Xh,$IN0
vxor $Xm2,$Xm2,$Xm1
vxor $Xh,$Xh,$t1
vxor $Xm3,$Xm3,$Xm2
vxor $Xh,$Xh,$Xl
bge Loop_4x

```

Ltail\_4x:

```

vpmsumd $Xl,$Xh,$H4l # H^4.loXi.lo
vpmsumd $Xm,$Xh,$H4 # H^4.hiXi.lo+H^4.loXi.hi
vpmsumd $Xh,$Xh,$H4h # H^4.hiXi.hi

```

```

vxor $Xl,$Xl,$Xl3
vxor $Xm,$Xm,$Xm3

```

```

vpmsumd $t2,$Xl,$xC2 # 1st reduction
phase

```

```

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $Xh,$Xh,$Xh3
vxor $Xl,$Xl,$t0
vxor $Xh,$Xh,$t1

```

```

vsldoi $Xl,$Xl,$Xl,8
vxor $Xl,$Xl,$t2

```

```

vsldoi $t1,$Xl,$Xl,8 # 2nd reduction phase
vpmsumd $Xl,$Xl,$xC2
vxor $t1,$t1,$Xh
vxor $Xl,$Xl,$t1

```

```

addic $len,$len,4
beq Ldone_4x

```

```

lvx_u $IN0,0,$inp
${UCMP}i $len,2
li $len,-4
blt Lone
lvx_u $IN1,r8,$inp
beq Ltwo

```

Lthree:

```

lvx_u $IN2,r9,$inp
le?vperm $IN0,$IN0,$IN0,$lemask
le?vperm $IN1,$IN1,$IN1,$lemask

```



le?vperm \$IN2,\$IN2,\$IN2,\$lemask

vxor \$Xh,\$IN0,\$Xl

vmr \$H4l,\$H3l

vmr \$H4, \$H3

vmr \$H4h,\$H3h

vperm \$t0,\$IN1,\$IN2,\$loperm

vperm \$t1,\$IN1,\$IN2,\$hiperm

vpmsumd \$Xm2,\$IN1,\$H2 #  $H^2.loXi+1.hi + H^2.hiXi+1.lo$

vpmsumd \$Xm3,\$IN2,\$H #  $H.hiXi+2.lo + H.loXi+2.hi$

vpmsumd \$Xl3,\$t0,\$H2l1 #  $H^2.loXi+1.lo + H.loXi+2.lo$

vpmsumd \$Xh3,\$t1,\$H2lh #  $H^2.hiXi+1.hi + H.hiXi+2.hi$

vxor \$Xm3,\$Xm3,\$Xm2

b Ltail\_4x

.align 4

Ltwo:

le?vperm \$IN0,\$IN0,\$IN0,\$lemask

le?vperm \$IN1,\$IN1,\$IN1,\$lemask

vxor \$Xh,\$IN0,\$Xl

vperm \$t0,\$zero,\$IN1,\$loperm

vperm \$t1,\$zero,\$IN1,\$hiperm

vsldoi \$H4l,\$zero,\$H2,8

vmr \$H4,

\$H2

vsldoi \$H4h,\$H2,\$zero,8

vpmsumd \$Xl3,\$t0, \$H2l1 #  $H.loXi+1.lo$

vpmsumd \$Xm3,\$IN1,\$H #  $H.hiXi+1.lo + H.loXi+2.hi$

vpmsumd \$Xh3,\$t1, \$H2lh #  $H.hiXi+1.hi$

b Ltail\_4x

.align 4

Lone:

le?vperm \$IN0,\$IN0,\$IN0,\$lemask

vsldoi \$H4l,\$zero,\$H,8

vmr \$H4, \$H

vsldoi \$H4h,\$H,\$zero,8

vxor \$Xh,\$IN0,\$Xl

vxor \$Xl3,\$Xl3,\$Xl3

vxor \$Xm3,\$Xm3,\$Xm3



```
vxor $Xh3,$Xh3,$Xh3
```

```
b Ltail_4x
```

```
Ldone_4x:
```

```
le?vperm $Xl,$Xl,$Xl,$lemask
```

```
stvx_u $Xl,0,$Xip # write out Xi
```

```
li r10,`15+6*$SIZE_T`
```

```
li r11,`31+6*$SIZE_T`
```

```
mtspr 256,$vrsave
```

```
lvx v20,r10,$sp
```

```
addi r10,r10,32
```

```
lvx v21,r11,$sp
```

```
addi r11,r11,32
```

```
lvx v22,r10,$sp
```

```
addi r10,r10,32
```

```
lvx v23,r11,$sp
```

```
addi r11,r11,32
```

```
lvx v24,r10,$sp
```

```
addi r10,r10,32
```

```
lvx v25,r11,$sp
```

```
addi r11,r11,32
```

```
lvx v26,r10,$sp
```

```
addi r10,r10,32
```

```
lvx v27,r11,$sp
```

```
addi r11,r11,32
```

```
lvx v28,r10,$sp
```

```
addi r10,r10,32
```

```
lvx v29,r11,$sp
```

```
addi r11,r11,32
```

```
lvx v30,r10,$sp
```

```
lvx v31,r11,$sp
```

```
addi $sp,$sp,$FRAME
```

```
blr
```

```
.long 0
```

```
.byte 0,12,0x04,0,0x80,0,4,0
```

```
.long 0
```

```

```

```
}
```

```
$code.=<<____;
```

```
.size .gcm_ghash_p8,-.gcm_ghash_p8
```

```
.asciz
```

```
"GHASH for PowerISA 2.07, CRYPTOGRAMS by <appro\@openssl.org>"
```

```
.align 2
```

```

```



```
foreach (split("\n",$code)) {
 s/^\([^`]*\)\/eval $1/geo;
```

```
 if ($flavour =~ /le$/o) { # little-endian
 s/le\?//o or
 s/be\?/#be#/o;
 } else {
 s/le\?/#le#/o or
 s/be\?//o;
 }
 print $_, "\n";
}
```

```
close STDOUT; # enforce flush
```

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```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/modes/asm/ghashp8-ppc.pl
```

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- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/aes/fips\_aesavs.c

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2.0.16/crypto/aes/aes_cfb.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/aes_ofb.c

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips\_randtest.c

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- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/cbc128.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/cfb128.c
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/ctr128.c

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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```

```
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```

```
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```

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```



```

=====
#
SHA512 for C64x.
#
November 2016
#
Performance is ~19 cycles per processed byte. Compared to block
transform function from sha512.c compiled with cl6x with -mv6400+
-o2 -DOPENSSL_SMALL_FOOTPRINT it's almost 7x faster and 2x smaller.
Loop unroll won't make it, this implementation, any faster, because
it's effectively dominated by SHRU||SHL pairs and you can't schedule
more of them.
#
!!! Note that this module uses AMR, which means that all interrupt
service routines are expected to preserve
it and for own well-being
zero it upon entry.

while (($output=shift) && ($output!~/\w[\w\~]*\.\w+$/)) { }
open STDOUT,">$output";

($CTXA,$INP,$NUM) = ("A4","B4","A6"); # arguments
$K512="A3";

($Ahi,$Actxhi,$Bhi,$Bctxhi,$Chi,$Cctxhi,$Dhi,$Dctxhi,
$Ehi,$Ectxhi,$Fhi,$Fctxhi,$Ghi,$Gctxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Clo,$Cctxlo,$Dlo,$Dctxlo,
$Elo,$Ectxlo,$Flo,$Fctxlo,$Glo,$Gctxlo,$Hlo,$Hctxlo)=map("B$_",(16..31));

($S1hi,$CHhi,$S0hi,$t0hi)=map("A$_",(10..13));
($S1lo,$CHlo,$S0lo,$t0lo)=map("B$_",(10..13));
($T1hi, $T2hi)= ("A6","A7");
($T1lo,$T1carry,$T2lo,$T2carry)=("B6","B7","B8","B9");
($Khi,$Klo)=("A9","A8");
($MAJhi,$MAJlo)=($T2hi,$T2lo);
($t1hi,$t1lo)=($Khi,"B2");
$CTXB=$t1lo;

($Xihi,$Xilo)=("A5","B5"); # circular/ring buffer

$code.<<<__;;
.text

.if .ASSEMBLER_VERSION<7000000
.asg 0,__TI_EABI__
.endif
.if __TI_EABI__
.nocmp

```



```

.asg sha512_block_data_order,_sha512_block_data_order
.endif

.asg B3,RA
.asg A15,FP
.asg B15,SP

.if .BIG_ENDIAN
.asg $Khi,KHI
.asg $Klo,KLO
.else
.asg $Khi,KLO
.asg $Klo,KHI
.endif

.global _sha512_block_data_order
_sha512_block_data_order:
__sha512_block:
.asmfunc
stack_usage(40+128)
MV $NUM,A0 ; reassign $NUM
|| MVK -128,B0
[!A0] BNOP RA ; if ($NUM==0) return;
|| [A0] STW FP,*SP--(40) ; save frame pointer
|| [A0] MV SP,FP
[A0] STDW B13:B12,*SP[4]
|| [A0] MVK 0x00404,B1
[A0] STDW B11:B10,*SP[3]
|| [A0] STDW A13:A12,*FP[-3]
|| [A0] MVKH 0x60000,B1
[A0] STDW A11:A10,*SP[1]
|| [A0] MVC B1,AMR ; setup circular addressing
|| [A0] ADD B0,SP,SP ; alloca(128)
.if __TI_EABI__
[A0] AND B0,SP,SP ; align stack at 128 bytes
|| [A0] ADDKPC __sha512_block,B1
|| [A0] MVKL \$_PCR_OFFSET(K512,__sha512_block),$K512
[A0] MVKH \$_PCR_OFFSET(K512,__sha512_block),$K512
|| [A0] SUBAW SP,2,SP ; reserve two words above buffer
.else
[A0] AND B0,SP,SP ; align stack at 128 bytes
|| [A0] ADDKPC __sha512_block,B1
|| [A0] MVKL (K512-__sha512_block),$K512
[A0] MVKH (K512-__sha512_block),$K512
|| [A0] SUBAW SP,2,SP ; reserve two words above buffer
.endif
ADDAW SP,3,$Xilo
ADD SP,4*2,$Xihi ; ADDAW SP,2,$Xihi

```



```

|| MV $CTXA,$CTXB
LDW *${CTXA}[0^.LITTLE_ENDIAN],$Ahi ; load ctx
|| LDW *${CTXB}[1^.LITTLE_ENDIAN],$Alo
|| ADD B1,$K512,$K512
LDW *${CTXA}[2^.LITTLE_ENDIAN],$Bhi
|| LDW *${CTXB}[3^.LITTLE_ENDIAN],$Blo
LDW *${CTXA}[4^.LITTLE_ENDIAN],$Chi
|| LDW *${CTXB}[5^.LITTLE_ENDIAN],$Clo
LDW *${CTXA}[6^.LITTLE_ENDIAN],$Dhi
|| LDW *${CTXB}[7^.LITTLE_ENDIAN],$Dlo
LDW *${CTXA}[8^.LITTLE_ENDIAN],$Ehi
|| LDW *${CTXB}[9^.LITTLE_ENDIAN],$Elo
LDW *${CTXA}[10^.LITTLE_ENDIAN],$Fhi
|| LDW *${CTXB}[11^.LITTLE_ENDIAN],$Flo
LDW *${CTXA}[12^.LITTLE_ENDIAN],$Ghi
|| LDW *${CTXB}[13^.LITTLE_ENDIAN],$Glo
LDW *${CTXA}[14^.LITTLE_ENDIAN],$Hhi
|| LDW *${CTXB}[15^.LITTLE_ENDIAN],$Hlo

```

```

LDNDW *$INP++,B11:B10 ; pre-fetch input
LDDW *$K512++,$Khi:$Klo ; pre-fetch K512[0]

```

outerloop?:

```

MVK 15,B0 ; loop counters

```

```

|| MVK 64,B1
|| SUB A0,1,A0
MV $Ahi,$Actxhi
|| MV $Alo,$Actxlo
|| MV $Bhi,$Bctxhi
|| MV $Blo,$Bctxlo
|| MV $Chi,$Cctxhi
|| MV $Clo,$Cctxlo
|| MVD $Dhi,$Dctxhi
|| MVD $Dlo,$Dctxlo
MV $Ehi,$Ectxhi
|| MV $Elo,$Ectxlo
|| MV $Fhi,$Fctxhi
|| MV $Flo,$Fctxlo
|| MV $Ghi,$Gctxhi
|| MV $Glo,$Gctxlo
|| MVD $Hhi,$Hctxhi
|| MVD $Hlo,$Hctxlo

```

loop0\_15?:

```

.if .BIG_ENDIAN
MV B11,$T1hi
|| MV B10,$T1lo
.else
SWAP4 B10,$T1hi

```



```

|| SWAP4 B11,$T1lo
SWAP2 $T1hi,$T1hi
|| SWAP2 $T1lo,$T1lo
.endif
STW $T1hi,*$Xihi++[2] ;
original loop16_79?
|| STW $T1lo,*$Xilo++[2] ; X[i] = T1
|| ADD $Hhi,$T1hi,$T1hi
|| ADDU $Hlo,$T1lo,$T1carry:$T1lo ; T1 += h
|| SHRU $Ehi,14,$S1hi
|| SHL $Ehi,32-14,$S1lo
loop16_79?:
XOR $Fhi,$Ghi,$CHhi
|| XOR $Flo,$Glo,$CHlo
|| ADD KHI,$T1hi,$T1hi
|| ADDU KLO,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += K512[i]
|| SHRU $Elo,14,$t0lo
|| SHL $Elo,32-14,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Ehi,$CHhi,$CHhi
|| AND $Elo,$CHlo,$CHlo
|| ROTL $Ghi,0,$Hhi
|| ROTL $Glo,0,$Hlo ; h = g
|| SHRU $Ehi,18,$t0hi
|| SHL $Ehi,32-18,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| XOR $Ghi,$CHhi,$CHhi
|| XOR $Glo,$CHlo,$CHlo ;
Ch(e,f,g) = ((f^g)&e)^g
|| ROTL $Fhi,0,$Ghi
|| ROTL $Flo,0,$Glo ; g = f
|| SHRU $Elo,18,$t0lo
|| SHL $Elo,32-18,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| OR $Ahi,$Bhi,$MAJhi
|| OR $Alo,$Blo,$MAJlo
|| ROTL $Ehi,0,$Fhi
|| ROTL $Elo,0,$Flo ; f = e
|| SHRU $Ehi,41-32,$t0lo
|| SHL $Ehi,64-41,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Chi,$MAJhi,$MAJhi
|| AND $Clo,$MAJlo,$MAJlo
|| ROTL $Dhi,0,$Ehi

```



```

|| ROTL $Dlo,0,$Elo ; e = d
|| SHRU $Elo,41-32,$t0hi
|| SHL $Elo,64-41,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo ; Sigma1(e)
|| AND $Ahi,$Bhi,$t1hi
|| AND $Alo,$Blo,$t1lo
|| ROTL $Chi,0,$Dhi
|| ROTL $Clo,0,$Dlo ; d = c
|| SHRU $Ahi,28,$S0hi
|| SHL $Ahi,32-28,$S0lo
OR $t1hi,$MAJhi,$MAJhi
|| OR $t1lo,$MAJlo,$MAJlo ; Maj(a,b,c) = ((a|b)&c)|(a&b)
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ;
T1 += Ch(e,f,g)
|| ROTL $Bhi,0,$Chi
|| ROTL $Blo,0,$Clo ; c = b
|| SHRU $Alo,28,$t0lo
|| SHL $Alo,32-28,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Sigma1(e)
|| ROTL $Ahi,0,$Bhi
|| ROTL $Alo,0,$Blo ; b = a
|| SHRU $Ahi,34-32,$t0lo
|| SHL $Ahi,64-34,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $MAJhi,$T1hi,$T2hi
|| ADDU $MAJlo,$T1carry:$T1lo,$T2carry:$T2lo ; T2 = T1+Maj(a,b,c)
|| SHRU $Alo,34-32,$t0hi
|| SHL $Alo,64-34,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $Ehi,$T1hi,$T1hi
|| ADDU $Elo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += e
|| SHRU $Ahi,39-32,$t0lo
|| SHL $Ahi,64-39,$t0hi
[B0] BNOP loop0_15?
|| [B0] LDNDW *$INP++,B11:B10 ; pre-fetch input
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $Alo,39-32,$t0hi
|| SHL $Alo,64-39,$t0lo
||[!B0] LDW *$ {Xihi}[28],$T1hi
||[!B0] LDW *$ {Xilo}[28],$T1lo ; X[i+14]

```



```

XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo ;
Sigma0(a)
|| ADD $T1carry,$T1hi,$Ehi
|| ROTL $T1lo,0,$Elo ; e = T1, "ghost" value
||[!B1] BNOP break?
ADD $S0hi,$T2hi,$T2hi
|| ADDU $S0lo,$T2carry:$T2lo,$T2carry:$T2lo ; T2 += Sigma0(a)
|| [B1] LDDW *$K512+,$Khi:$Klo ; pre-fetch K512[i]
NOP ; avoid cross-path stall
ADD $T2carry,$T2hi,$Ahi
|| MV $T2lo,$Alo ; a = T2
|| [B0] SUB B0,1,B0
;;===== branch to loop00_15? is taken here
[B1] LDW *${Xihi}[2],$T2hi
|| [B1] LDW *${Xilo}[2],$T2lo ; X[i+1]
|| [B1] SHRU $T1hi,19,$S1hi
|| [B1] SHL $T1hi,32-19,$S1lo
[B1] SHRU $T1lo,19,$t0lo
|| [B1] SHL $T1lo,32-19,$t0hi
;;===== branch to break? is taken here
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,61-32,$t0lo
|| SHL $T1hi,64-61,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,61-32,$t0hi
|| SHL $T1lo,64-61,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,6,$t0hi
|| SHL $T1hi,32-6,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,6,$t0lo
|| LDW *${Xihi}[18],$T1hi
|| LDW *${Xilo}[18],$T1lo ;
X[i+9]
XOR $t0lo,$S1lo,$S1lo ; sigma1(Xi[i+14])

|| LDW *${Xihi}[0],$CHhi
|| LDW *${Xilo}[0],$CHlo ; X[i]
|| SHRU $T2hi,1,$S0hi
|| SHL $T2hi,32-1,$S0lo
SHRU $T2lo,1,$t0lo
|| SHL $T2lo,32-1,$t0hi
XOR $t0hi,$S0hi,$S0hi

```



```

|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2hi,8,$t0hi
|| SHL $T2hi,32-8,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2lo,8,$t0lo
|| SHL $T2lo,32-8,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1lo,$T1carry:$T1lo ; T1 = X[i+9]+sigma1()
|| SHRU $T2hi,7,$t0hi
|| SHL $T2hi,32-7,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += X[i]
|| SHRU $T2lo,7,$t0lo
|| [B1] BNOP loop16_79?
XOR $t0lo,$S0lo,$S0lo ; sigma0(Xi[i+1])

ADD $S0hi,$T1hi,$T1hi
|| ADDU $S0lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += sigma0()
|| [B1] SUB B1,1,B1
NOP ; avoid cross-path stall
ADD $T1carry,$T1hi,$T1hi

STW $T1hi,*$Xihi++[2] ; copied "top" bundle
|| STW $T1lo,*$Xilo++[2] ; X[i] = T1
|| ADD $Hhi,$T1hi,$T1hi
|| ADDU $Hlo,$T1lo,$T1carry:$T1lo ; T1 += h
|| SHRU $Ehi,14,$S1hi
|| SHL $Ehi,32-14,$S1lo
;;===== branch to loop16_79? is taken here

break?:
ADD $Ahi,$Actxhi,$Ahi ; accumulate ctx
|| ADDU $Alo,$Actxlo,$Actxlo:$Alo
|| [A0] LDNDW *$INP++,B11:B10 ; pre-fetch input
|| [A0] ADDK -640,$K512 ; rewind pointer to K512
ADD $Bhi,$Bctxhi,$Bhi
|| ADDU $Blo,$Bctxlo,$Bctxlo:$Blo
|| [A0] LDDW *$K512+,$Khi:$Klo ; pre-fetch K512[0]
ADD $Chi,$Cctxhi,$Chi
|| ADDU $Clo,$Cctxlo,$Cctxlo:$Clo
|| ADD $Actxlo,$Ahi,$Ahi
||[!A0] MV $CTXA,$CTXB
ADD $Dhi,$Dctxhi,$Dhi

```



```

|| ADDU $Dlo,$Dctxlo,$Dctxlo:$Dlo
|| ADD $Bctxlo,$Bhi,$Bhi
||[!A0] STW $Ahi,*${CTXA}[0^.LITTLE_ENDIAN] ; save ctx
||[!A0] STW $Alo,*${CTXB}[1^.LITTLE_ENDIAN]
 ADD $Ehi,$Ectxhi,$Ehi
|| ADDU $Elo,$Ectxlo,$Ectxlo:$Elo
|| ADD $Cctxlo,$Chi,$Chi
|| [A0] BNOP outerloop?
||[!A0] STW $Bhi,*${CTXA}[2^.LITTLE_ENDIAN]
||[!A0] STW $Blo,*${CTXB}[3^.LITTLE_ENDIAN]
 ADD $Fhi,$Fctxhi,$Fhi
|| ADDU $Flo,$Fctxlo,$Fctxlo:$Flo
|| ADD $Dctxlo,$Dhi,$Dhi
||[!A0] STW $Chi,*${CTXA}[4^.LITTLE_ENDIAN]
||[!A0] STW $Clo,*${CTXB}[5^.LITTLE_ENDIAN]
 ADD $Ghi,$Gctxhi,$Ghi
|| ADDU $Glo,$Gctxlo,$Gctxlo:$Glo
|| ADD $Ectxlo,$Ehi,$Ehi
||[!A0] STW $Dhi,*${CTXA}[6^.LITTLE_ENDIAN]
||[!A0] STW $Dlo,*${CTXB}[7^.LITTLE_ENDIAN]
 ADD $Hhi,$Hctxhi,$Hhi
|| ADDU $Hlo,$Hctxlo,$Hctxlo:$Hlo
|| ADD $Fctxlo,$Fhi,$Fhi
||[!A0] STW $Ehi,*${CTXA}[8^.LITTLE_ENDIAN]
||[!A0] STW $Elo,*${CTXB}[9^.LITTLE_ENDIAN]
 ADD $Gctxlo,$Ghi,$Ghi
||[!A0] STW $Fhi,*${CTXA}[10^.LITTLE_ENDIAN]
||[!A0] STW $Flo,*${CTXB}[11^.LITTLE_ENDIAN]
 ADD $Hctxlo,$Hhi,$Hhi
||[!A0] STW $Ghi,*${CTXA}[12^.LITTLE_ENDIAN]
||[!A0] STW $Glo,*${CTXB}[13^.LITTLE_ENDIAN]
;;=====
branch to outerloop? is taken here

```

```

STW $Hhi,*${CTXA}[14^.LITTLE_ENDIAN]
|| STW $Hlo,*${CTXB}[15^.LITTLE_ENDIAN]
|| MVK -40,B0
 ADD FP,B0,SP ; destroy circular buffer
|| LDDW *FP[-4],A11:A10
 LDDW *SP[2],A13:A12
|| LDDW *FP[-2],B11:B10
 LDDW *SP[4],B13:B12
|| BNOP RA
 LDW *++SP(40),FP ;
restore frame pointer
 MVK 0,B0
 MVC B0,AMR ; clear AMR
 NOP 2 ; wait till FP is committed

```



```

.endasmfunc

.if __TI_EABI__
.sect ".text:sha_asm.const"
.else
.sect ".const:sha_asm"
.endif
.align 128
K512:
.uword 0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
.uword 0xb5c0fbcf,0xec4d3b2f, 0xe9b5dba5,0x8189dbbc
.uword 0x3956c25b,0xf348b538, 0x59f111f1,0xb605d019
.uword 0x923f82a4,0xaf194f9b, 0xab1c5ed5,0xda6d8118
.uword 0xd807aa98,0xa3030242, 0x12835b01,0x45706fbe
.uword 0x243185be,0x4ee4b28c, 0x550c7dc3,0xd5ffb4e2
.uword 0x72be5d74,0xf27b896f, 0x80deb1fe,0x3b1696b1
.uword 0x9bdc06a7,0x25c71235, 0xc19bf174,0xcf692694
.uword 0xe49b69c1,0x9ef14ad2, 0xefbe4786,0x384f25e3
.uword 0x0fc19dc6,0x8b8cd5b5, 0x240ca1cc,0x77ac9c65
.uword 0x2de92c6f,0x592b0275, 0x4a7484aa,0x6ea6e483
.uword 0x5cb0a9dc,0xbd41fbd4, 0x76f988da,0x831153b5
.uword 0x983e5152,0xee66dfab, 0xa831c66d,0x2db43210
.uword 0xb00327c8,0x98fb213f,
0xbf597fc7,0xbeef0ee4
.uword 0xc6e00bf3,0x3da88fc2, 0xd5a79147,0x930aa725
.uword 0x06ca6351,0xe003826f, 0x14292967,0x0a0e6e70
.uword 0x27b70a85,0x46d22ffc, 0x2e1b2138,0x5c26c926
.uword 0x4d2c6dfc,0x5ac42aed, 0x53380d13,0x9d95b3df
.uword 0x650a7354,0x8baf63de, 0x766a0abb,0x3c77b2a8
.uword 0x81c2c92e,0x47edaae6, 0x92722c85,0x1482353b
.uword 0xa2bfe8a1,0x4cf10364, 0xa81a664b,0xbc423001
.uword 0xc24b8b70,0xd0f89791, 0xc76c51a3,0x0654be30
.uword 0xd192e819,0xd6ef5218, 0xd6990624,0x5565a910
.uword 0xf40e3585,0x5771202a, 0x106aa070,0x32bdbl1b8
.uword 0x19a4c116,0xb8d2d0c8, 0x1e376c08,0x5141ab53
.uword 0x2748774c,0xdf8eeb99, 0x34b0bcb5,0xe19b48a8
.uword 0x391c0cb3,0xc5c95a63, 0x4ed8aa4a,0xe3418acb
.uword 0x5b9cca4f,0x7763e373, 0x682e6ff3,0xd6b2b8a3
.uword 0x748f82ee,0x5defb2fc, 0x78a5636f,0x43172f60
.uword 0x84c87814,0xa1f0ab72, 0x8cc70208,0x1a6439ec
.uword 0x90befffa,0x23631e28, 0xa4506ceb,0xde82bde9
.uword 0xbef9a3f7,0xb2c67915, 0xc67178f2,0xe372532b
.uword 0xca273ece,0xea26619c,
0xd186b8c7,0x21c0c207
.uword 0xeadada7dd6,0xcde0eb1e, 0xf57d4f7f,0xee6ed178
.uword 0x06f067aa,0x72176fba, 0x0a637dc5,0xa2c898a6
.uword 0x113f9804,0xbef90dae, 0x1b710b35,0x131c471b
.uword 0x28db77f5,0x23047d84, 0x32caab7b,0x40c72493

```



```
.uword 0x3c9ebe0a,0x15c9bebc, 0x431d67c4,0x9c100d4c
.uword 0x4cc5d4be,0xcb3e42b6, 0x597f299c,0xfc657e2a
.uword 0x5fcb6fab,0x3ad6faec, 0x6c44198c,0x4a475817
.cstring "SHA512 block transform for C64x, CRYPTOGRAMS by <appro\@openssl.org>"
.align 4
```

---

```
print $code;
close STDOUT;
```

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 2.0.16/crypto/ec/ecp\_mont.c

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\* rijndael-alg-fst.c

\*

\* @version 3.0 (December 2000)

\*

\* Optimised ANSI C code for the Rijndael cipher (now AES)

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

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 2.0.16/crypto/md32\_common.h

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#!/usr/bin/env perl

#

# =====

# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL  
 # project. The module is, however, dual licensed under OpenSSL and  
 # CRYPTOGAMS licenses depending on where you obtain it. For further  
 # details see <http://www.openssl.org/~appro/cryptogams/>.

# =====

#

# December 2011

#

# The module implements GCM GHASH function and underlying single  
 # multiplication operation in GF(2^128). Even though subroutines  
 # have \_4bit suffix, they are not using any tables, but rely on  
 # hardware Galois Field Multiply support. Streamed GHASH processes  
 # byte in ~7 cycles, which is >6x faster than "4-bit" table-driven  
 # code compiled with TI's cl6x 6.0 with -mv6400+ -o2 flags. We are  
 # comparing apples vs. oranges, but compiler surely could have done  
 # better, because theoretical  
 [though not necessarily achievable]  
 # estimate for "4-bit" table-driven implementation is ~12 cycles.

while ((\$output=shift) && (\$output!~/\w[\w-]\*\.\w+\$/)) { }  
 open STDOUT,">\$output";

(\$Xip,\$Htable,\$inp,\$len)=("A4","B4","A6","B6"); # arguments



```

($Z0,$Z1,$Z2,$Z3, $H0, $H1, $H2, $H3,
 $H0x,$H1x,$H2x,$H3x)=map("A$_",(16..27));
($H01u,$H01y,$H2u,$H3u, $H0y,$H1y,$H2y,$H3y,
 $H0z,$H1z,$H2z,$H3z)=map("B$_",(16..27));
($FF000000,$E10000)=("B30","B31");
($xip,$x0,$x1,$xib)=map("B$_",(6..9)); # $xip zaps $len
$xia="A9";
($rem,$res)=("B4","B5"); # $rem zaps $Htable

```

```

$code.=<<<____;

```

```

.text

```

```

.asg B3,RA

```

```

.if 0

```

```

.global _gcm_gmult_1bit

```

```

_gcm_gmult_1bit:

```

```

ADDAD $Htable,2,$Htable

```

```

.endif

```

```

.global _gcm_gmult_4bit

```

```

_gcm_gmult_4bit:

```

```

.asmfunc

```

```

LDDW *${Htable}[-1],$H1:$H0 ; H.lo

```

```

LDDW *${Htable}[-2],$H3:$H2 ; H.hi

```

```

|| MV $Xip,{xip} ; reassign Xi

```

```

|| MVK 15,B1 ; SPLOOPD constant

```

```

MVK 0xE1,$E10000

```

```

|| LDBU *++${xip}[15],$x1 ; Xi[15]

```

```

MVK 0xFF,$FF000000

```

```

|| LDBU *--${xip},$x0 ; Xi[14]

```

```

SHL $E10000,16,$E10000 ;

```

```

[pre-shifted] reduction polynomial

```

```

SHL $FF000000,24,$FF000000 ; upper byte mask

```

```

|| BNOP ghash_loop?

```

```

|| MVK 1,B0 ; take a single spin

```

```

PACKH2 $H0,$H1,$xia ; pack H0' and H1's upper bytes

```

```

AND $H2,$FF000000,$H2u ; H2's upper byte

```

```

AND $H3,$FF000000,$H3u ; H3's upper byte

```

```

|| SHRU $H2u,8,$H2u

```

```

SHRU $H3u,8,$H3u

```

```

|| ZERO $Z1:$Z0

```

```

SHRU2 $xia,8,$H01u

```

```

|| ZERO $Z3:$Z2

```

```

.endasmfunc

```

```

.global _gcm_ghash_4bit

```



```

_gcm_ghash_4bit:
.asmfunc
LDDW *${Htable}[-1],$H1:$H0 ; H.lo
|| SHRU $len,4,B0 ; reassign len
LDDW *${Htable}[-2],$H3:$H2 ; H.hi
|| MV $Xip,{xip} ; reassign Xi
|| MVK 15,B1 ; SPLOOPD constant

MVK 0xE1,$E10000
|| [B0] LDNDW *${inp}[1],$H1x:$H0x
MVK 0xFF,$FF000000
|| [B0] LDNDW *${inp}++[2],$H3x:$H2x
SHL $E10000,16,$E10000 ; [pre-shifted] reduction polynomial
|| LDDW *${xip}[1],$Z1:$Z0
SHL $FF000000,24,$FF000000 ; upper byte mask
|| LDDW *${xip}[0],$Z3:$Z2

PACKH2 $H0,$H1,$xia ; pack H0' and H1's upper bytes
AND $H2,$FF000000,$H2u ; H2's upper byte
AND $H3,$FF000000,$H3u ;
H3's upper byte
|| SHRU $H2u,8,$H2u
SHRU $H3u,8,$H3u
SHRU2 $xia,8,$H01u

|| [B0] XOR $H0x,$Z0,$Z0 ; Xi^=inp
|| [B0] XOR $H1x,$Z1,$Z1
.if .LITTLE_ENDIAN
[B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
|| [B0] SHRU $Z1,24,$xia ; Xi[15], avoid cross-path stall
STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z1,16,$x0 ; Xi[14]
|| [B0] ZERO $Z1:$Z0
.else
[B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
|| [B0] MV $Z0,$xia ; Xi[15], avoid cross-path stall
STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z0,8,$x0 ; Xi[14]
|| [B0] ZERO $Z1:$Z0
.endif
STDW $Z3:$Z2,*${xip}[0]
|| [B0] ZERO $Z3:$Z2
|| [B0] MV $xia,$x1
[B0] ADDK 14,{xip}

ghash_loop?:

```



SPLOOPD 6 ; 6\*16+7

|| MVC B1,ILC

|| [B0] SUB B0,1,B0

|| ZERO A0

|| ADD \$x1,\$x1,\$xib ; SHL \$x1,1,\$xib

|| SHL \$x1,1,\$xia

#####

# 0 D2. M1 M2 |

# 1 M1 |

# 2 M1 M2 |

# 3 D1. M1 M2 |

# 4 S1. L1

|

# 5 S2 S1x L1 D2 L2 |

# 6/0 L1 S1 L2 S2x | D2. M1 M2 |

# 7/1 L1 S1 D1x S2 M2 | M1 |

# 8/2 S1 L1x S2 | M1 M2 |

# 9/3 S1 L1x | D1. M1 M2 |

# 10/4 D1x | S1. L1 |

# 11/5 | S2 S1x L1 D2 L2 |

# 12/6/0 D1x | L1 S1 L2 S2x | D2. ....

# 7/1 L1 S1 D1x S2 M2 | ....

# 8/2 S1 L1x S2 | ....

#####.....|.....

\$code.=<<\_\_;

XORMPY \$H0,\$xia,\$H0x ; 0 ; HXi[i]

|| XORMPY \$H01u,\$xib,\$H01y

|| [A0] LDBU \*--\${xip},\$x0

XORMPY \$H1,\$xia,\$H1x ; 1

XORMPY \$H2,\$xia,\$H2x ; 2

|| XORMPY \$H2u,\$xib,\$H2y

XORMPY \$H3,\$xia,\$H3x ;

3

|| XORMPY \$H3u,\$xib,\$H3y

||[!A0] MVK.D 15,A0 ; \*--\${xip} counter

XOR.L \$H0x,\$Z0,\$Z0 ; 4 ; Z^=HXi[i]

|| [A0] SUB.S A0,1,A0

XOR.L \$H1x,\$Z1,\$Z1 ; 5

|| AND.D \$H01y,\$FF000000,\$H0z

|| SWAP2.L \$H01y,\$H1y ; ; SHL \$H01y,16,\$H1y

|| SHL \$x0,1,\$xib

|| SHL \$x0,1,\$xia

XOR.L \$H2x,\$Z2,\$Z2 ; 6/0 ; [0,0] in epilogue

|| SHL \$Z0,1,\$rem ; ; rem=Z<<1

|| SHRMB.S \$Z1,\$Z0,\$Z0 ; ; Z>>=8



```

|| AND.L $H1y,$FF000000,$H1z
XOR.L $H3x,$Z3,$Z3 ; 7/1
|| SHRMB.S $Z2,$Z1,$Z1
|| XOR.D $H0z,$Z0,$Z0 ; merge upper byte products
|| AND.S $H2y,$FF000000,$H2z
|| XORMPY $E10000,$rem,$res ; ; implicit rem&0x1FE
XOR.L $H1z,$Z1,$Z1 ; 8/2
|| SHRMB.S $Z3,$Z2,$Z2
|| AND.S $H3y,$FF000000,$H3z
XOR.L $H2z,$Z2,$Z2 ; 9/3
|| SHRU $Z3,8,$Z3
XOR.D $H3z,$Z3,$Z3 ; 10/4
NOP ; 11/5

```

SPKERNEL 0,2

```

|| XOR.D $res,$Z3,$Z3 ; 12/6/0; Z^=res

```

; input pre-fetch is possible where D1 slot is available...

```

[B0] LDNDW *${inp}[1],$H1x:$H0x ; 8/-

```

```

[B0] LDNDW *${inp}++[2],$H3x:$H2x ; 9/-

```

```

NOP ; 10/-

```

```

.if .LITTLE_ENDIAN

```

```

SWAP2 $Z0,$Z1 ;

```

```

11/-

```

```

|| SWAP4 $Z1,$Z0

```

```

SWAP4 $Z1,$Z1 ; 12/-

```

```

|| SWAP2 $Z0,$Z0

```

```

SWAP2 $Z2,$Z3

```

```

|| SWAP4 $Z3,$Z2

```

```

||[!B0] BNOP RA

```

```

SWAP4 $Z3,$Z3

```

```

|| SWAP2 $Z2,$Z2

```

```

|| [B0] BNOP ghash_loop?

```

```

[B0] XOR $H0x,$Z0,$Z0 ; Xi^=inp

```

```

|| [B0] XOR $H1x,$Z1,$Z1

```

```

[B0] XOR $H2x,$Z2,$Z2

```

```

|| [B0] XOR $H3x,$Z3,$Z3

```

```

|| [B0] SHRU $Z1,24,$xia ; Xi[15], avoid cross-path stall

```

```

STDW $Z1:$Z0,*${xip}[1]

```

```

|| [B0] SHRU $Z1,16,$x0 ; Xi[14]

```

```

|| [B0] ZERO $Z1:$Z0

```

```

.else

```

```

[!B0] BNOP RA ; 11/-

```

```

[B0] BNOP ghash_loop? ; 12/-

```

```

[B0] XOR $H0x,$Z0,$Z0 ; Xi^=inp

```

```

|| [B0] XOR $H1x,$Z1,$Z1

```

```

[B0] XOR $H2x,$Z2,$Z2

```

```

|| [B0] XOR $H3x,$Z3,$Z3

```



```

|| [B0] MV $Z0,$xia ; Xi[15], avoid cross-path stall
STDW $Z1:$Z0,*${xip}[1]
|| [B0] SHRU $Z0,8,$x0 ; Xi[14]
|| [B0] ZERO $Z1:$Z0
.endif
STDW $Z3:$Z2,*${xip}[0]
|| [B0] ZERO $Z3:$Z2
|| [B0] MV $xia,$x1
[B0] ADDK 14,${xip}
.endasmfunc

.sect .const
.cstring "GHASH for C64x+, CRYPTOGRAMS by <appro\@openssl.org>"
.align 4

```

```

print $code;
close STDOUT;

```

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path(s):

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-c64xplus.pl

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```

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```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/rand/fips_drbg_lib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/utl/fips_lck.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/aes/fips_gcmtest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/rand/fips_drbg_hmac.c
*
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/rand/fips_drbg_ctr.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/rand/fips_rand_lcl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/rand/fips_drbg_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/rand/fips_drbgvs.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/ecdh/fips_ecdhvs.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/ecdsa/fips_ecdsavs.c

```



```
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/rand/fips_drbg_hash.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/dh/fips_dhvs.c
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/rand/fips_drbg_rand.c
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2.0.16/crypto/ecdsa/ecdsa.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/ecdh/ech_locl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/ecdsa/ecs_locl.h
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/asn1/asn1t.h

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/o\_str.h

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/\*.\*.c>, <crypto/\*.\*.c>, <ssl/\*.\*.c>, <apps/\*.\*.c>)

When this option is NOT specified, the filelist is taken from  
the commandline instead. Here, wildcards may be embedded. (Be  
sure to escape those to prevent the shell from expanding them  
for you when you wish mkerr.pl to do so instead.)

Default: take file list to scan from the command line.

-reindex Discard the numeric values previously assigned to the error  
and function codes as extracted from the scanned header files;  
instead renumber all of them starting from 100. (Note that  
the numbers assigned through 'R' records in the config file  
remain intact.)

Default: keep previously assigned numbers. (You are warned  
when collisions are detected.)

-nostatic Generates a different source  
code, where these additional

functions are generated for each library specified in the  
config file:

```
void ERR_load_<LIB>_strings(void);
void ERR_unload_<LIB>_strings(void);
void ERR_<LIB>_error(int f, int r, char *fn, int ln);
#define <LIB>err(f,r) ERR_<LIB>_error(f,r,__FILE__,__LINE__)
```

while the code facilitates the use of these in an environment  
where the error support routines are dynamically loaded at  
runtime.

Default: 'static' code generation.

-staticloader Prefix generated functions with the 'static' scope modifier.  
Default: don't write any scope modifier prefix.

-write Actually (over)write the generated code to the header and C  
source files as assigned to each library through the config



file.

Default: don't write.

-help / -h / -?

/ --help        Show this help text.

...        Additional arguments are added to the file list to scan,  
          assuming '-recurse' was NOT specified on the command line.

EOF

```
exit 1;
} else {
last;
}
}
```

```
if($recurse) {
@source = (<crypto/*.*c>, <crypto/*/*.*c>, <ssl/*.*c>,
<fips/*.*c>, <fips/*/*.*c>);
} else {
@source = @ARGV;
}
```

# Read in the config file

```
open(IN, "<$config") || die "Can't open config file $config";
```

# Parse config file

```
while(<IN>)
{
if(/^L\s+(\S+)\s+(\S+)\s+(\S+)/) {
$hinc{$1} = $2;
$libinc{$2} = $1;
$cskip{$3} = $1;
if($3 ne "NONE") {
$src{$1} = $3;
$fmax{$1} = 100;
$rmax{$1} = 100;
$fassigned{$1} = ":";
$rassigned{$1} = ":";
$fnew{$1} = 0;
$rnew{$1} = 0;
}
} elsif (/^F\s+(\S+)/) {
Add extra function with $1
} elsif (/^R\s+(\S+)\s+(\S+)/) {
$rextra{$1} = $2;
```



```

$rcodes{$1} = $2;
}
}

close IN;

Scan each header file in turn and make a list of error codes
and function names

while (($hdr, $lib) =
each %libinc)
{
next if($hdr eq "NONE");
print STDERR "Scanning header file $hdr\n" if $debug;
my $line = "", $def= "", $linenr = 0, $gotfile = 0;
if (open(IN, "<$hdr")) {
 $gotfile = 1;
 while(<IN>) {
$linenr++;
print STDERR "line: $linenr\r" if $debug;

last if(/BEGIN\s+ERROR\s+CODES/);
if ($line ne "") {
 $_ = $line . $_;
 $line = "";
}

if (/\\$/) {
 $line = $_;
 next;
}

if (/\\$/) {
 if (not /^*\\/) { # multiline comment...
$line = $_; # ... just accumulate
next;
 } else {
s/^*.*?*///gs; # wipe it
 }
}

if ($cpp) {
 $cpp++ if /^#\s*if/;
 $cpp-- if /^#\s*endif/;
 next;
}
$cpp = 1 if /^#.*ifdef.*cplusplus/; # skip "C" declaration

```



```

next if (/^\#/); # skip preprocessor directives

s/{[{}]*} //gs; # ignore {} blocks

if (/^\|\/) { # Add a } so editor works...
 $line = $_;
} else {
 $def .= $_;
}
}
}

print STDERR
" \r" if $debug;

 $defnr = 0;
Delete any DECLARE_ macros
$def =~ s/DECLARE_\w+([w,s]+) //gs;
foreach (split /\./, $def) {
 $defnr++;
 print STDERR "def: $defnr\r" if $debug;

 # The goal is to collect function names from function declarations.

 s/^[n\s]* //g;
 s/[n\s]*$ //g;

 # Skip over recognized non-function declarations
 next if (/typedefW/ or /DECLARE_STACK_OF/ or /TYPEDEF_.*_OF/);

 # Remove STACK_OF(foo)
 s/STACK_OF(\w+)/void/;

 # Reduce argument lists to empty ()
 # fold round brackets recursively: (t(*v)(t),t) -> (t{}{}),t) -> {}
 while(/(.*)/) {
 s/([^\(\)]+)\|/{} /gs;
 s/([s*]*\s*(\w+)\s*\{\}\s*)/$1/g; #(*f{}) -> f
 }
 # pretend as we didn't use curly braces: {} -> ()
 s/{\}\|/ /gs;

 if (/(\w+)\s*(\|).*/s) { # first token prior [first] () is
my $name = $1; # a function name!
$name =~ tr/[a-z]/[A-Z]/;
$ftrans{$name} = $1;
 } elsif (/(\|)/
and not (/=/)) {
 print STDERR "Header $hdr: cannot parse: $_;\n";

```



```

 }
}

print STDERR " \r" if $debug;

next if $reindex;

Scan function and reason codes and store them: keep a note of the
maximum code used.

if ($gotfile) {
 while(<IN>) {
 if(/^#define\s+(\S+)\s+(\S+)/) {
 $name = $1;
 $code = $2;
 next if $name =~ /^${lib}err/;
 unless($name =~ /^${lib}_[RF]_(\w+)/) {
 print STDERR "Invalid error code $name\n";
 next;
 }
 if($1 eq "R") {
 $rcodes{$name} = $code;
 if ($rassigned{$lib} =~ /:$code:/) {
 print STDERR "!! ERROR: $lib reason code $code assigned twice (collision at $name)\n";
 ++$errcount;
 }
 $rassigned{$lib} .= "$code:";
 if(!(exists $rextra{$name})) &&
 ($code > $rmax{$lib})) {
 $rmax{$lib} = $code;
 }
 } else {
 if ($fassigned{$lib} =~ /:$code:/) {
 print STDERR "!! ERROR: $lib function code $code assigned twice (collision at $name)\n";
 ++$errcount;
 }
 $fassigned{$lib}
 .= "$code:";
 if($code > $fmax{$lib}) {
 $fmax{$lib} = $code;
 }
 $fcodes{$name} = $code;
 }
 }
 }
}

if ($debug) {

```



```

if (defined($fmax{$lib})) {
 print STDERR "Max function code fmax" . "{" . "$lib" . " } = $fmax{$lib}\n";
 $fassigned{$lib} =~ m/^(.*):$/;
 @fassigned = sort {$a <=> $b} split(":", $1);
 print STDERR " @fassigned\n";
}
if (defined($rmax{$lib})) {
 print STDERR "Max reason code rmax" . "{" . "$lib" . " } = $rmax{$lib}\n";
 $rassigned{$lib} =~ m/^(.*):$/;
 @rassigned = sort {$a <=> $b} split(":", $1);
 print STDERR " @rassigned\n";
}
}

```

```

if ($lib eq "SSL") {
 if ($rmax{$lib} >= 1000) {
 print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\n";
 print STDERR "!! Any new alerts must be added to $config.\n";
 ++$serrcount;
 print STDERR "\n";
 }
}
close IN;
}

```

```

Scan each C source file and look for function and reason codes
This is done by looking for strings that
"look like" function or
reason codes: basically anything consisting of all upper case and
numerics which has _F_ or _R_ in it and which has the name of an
error library at the start. This seems to work fine except for the
oddly named structure BIO_F_CTX which needs to be ignored.
If a code doesn't exist in list compiled from headers then mark it
with the value "X" as a place holder to give it a value later.
Store all function and reason codes found in %ufcodes and %urcodes
so all those unreferenced can be printed out.

```

```

foreach $file (@source) {
 # Don't parse the error source file.
 next if exists $cskip{$file};
 print STDERR "File loaded: ".$file."\r" if $debug;
 open(IN, "<$file") || die "Can't open source file $file\n";
 while(<IN>) {
 # skip obsoleted source files entirely!
 last if (/^#error\s+obsolete/);

 if (/((([A-Z0-9]+)_F_([A-Z0-9_]+))/) {

```



```

next unless exists $csrc{$2};
next if($1 eq "BIO_F_BUFFER_CTX");
$ufcodes{$1} = 1;
if(!exists $fcodes{$1})
{
 $fcodes{$1} = "X";
 $fnew{$2}++;
}
$notrans{$1} = 1 unless exists $ftrans{$3};
print STDERR "Function: $1\t= $fcodes{$1} (lib: $2, name: $3)\n" if $debug;
}
if(/((([A-Z0-9]+)_R_[A-Z0-9_]+)/) {
 next unless exists $csrc{$2};
 $urcodes{$1} = 1;
 if(!exists $rcodes{$1}) {
 $rcodes{$1} = "X";
 $rnew{$2}++;
 }
 print STDERR "Reason: $1\t= $rcodes{$1} (lib: $2)\n" if $debug;
}
}
close IN;
}
print STDERR " \n" if $debug;

```

# Now process each library in turn.

```

foreach $lib (keys %csrc)
{
 my $hfile = $hinc{$lib};
 my $cfile = $csrc{$lib};
 if(!$fnew{$lib} && !$rnew{$lib}) {
 print STDERR "$lib:\t\tNo new error codes\n";
 next unless $rebuild;
 } else {
 print STDERR "$lib:\t\t$fnew{$lib} New Functions,";
 print STDERR " $rnew{$lib} New Reasons.\n";
 next unless $dowrite;
 }
}

```

# If we get here then we have some new error codes so we  
 # need to rebuild the header file and C file.

# Make a sorted list of error and  
 reason codes for later use.

```

my @function = sort grep(/^{$lib}_/,keys %fcodes);
my @reasons = sort grep(/^{$lib}_/,keys %rcodes);

```



# Rewrite the header file

```
if (open(IN, "<$hfile")) {
 # Copy across the old file
 while(<IN>) {
 push @out, $_;
 }
 last if (/BEGIN ERROR CODES/);
 close IN;
} else {
 push @out,
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```

```

" *\n",
" */\n",
"\n",
"#ifndef HEADER_${lib}_ERR_H\n",
"#define HEADER_${lib}_ERR_H\n",
"\n",
#ifdef __cplusplus\n",
"extern \"C\" {\n",
"#endif\n",
"\n",
"/* BEGIN ERROR CODES *\n",
}

```

```

open (OUT, ">$hfile") || die "Can't Open File $hfile for writing\n";

```

```

print OUT @out;
undef @out;
print OUT <<"EOF";
/* The following lines are auto generated by the script mkerr.pl. Any changes
* made after this point may be overwritten when the script is next run.
*/

```

```

EOF
if($static) {
 print OUT <<"EOF";
 ${staticloader}void ERR_load_${lib}_strings(void);

```

```

EOF
} else {
 print OUT <<"EOF";
 ${staticloader}void ERR_load_${lib}_strings(void);
 ${staticloader}void ERR_unload_${lib}_strings(void);

```



```

${staticloader}void ERR_${lib}_error(int function, int reason, char
*file, int line);
#define ${lib}err(f,r) ERR_${lib}_error((f),(r),__FILE__,__LINE__)

```

```
EOF
```

```
}
```

```
print OUT <<"EOF";
```

```
/* Error codes for the $lib functions. */
```

```
/* Function codes. */
```

```
EOF
```

```
foreach $i (@function) {
```

```
 $z=6-int(length($i)/8);
```

```
 if($fcodes{$i} eq "X") {
```

```
 $fassigned{$lib} =~ m/^([:^:]*):/;
```

```
 $findcode = $1;
```

```
 if (!defined($findcode)) {
```

```
 $findcode = $fmax{$lib};
```

```
 }
```

```
 while ($fassigned{$lib} =~ m/:$findcode:/) {
```

```
 $findcode++;
```

```
 }
```

```
 $fcodes{$i} = $findcode;
```

```
 $fassigned{$lib} .= "$findcode:";
```

```
 print STDERR "New Function code $i\n" if $debug;
```

```
 }
```

```
 printf OUT "#define $i%s $fcodes{$i}\n", "\t" x $z;
```

```
}
```

```
print OUT "\n/* Reason codes. */\n";
```

```
foreach $i (@reasons) {
```

```
 $z=6-int(length($i)/8);
```

```
 if($rcodes{$i} eq "X") {
```

```
 $rassigned{$lib} =~ m/^([:^:]*):/;
```

```
 $findcode = $1;
```

```
 if (!defined($findcode)) {
```

```
 $findcode = $rmax{$lib};
```

```
 }
```

```
 while ($rassigned{$lib} =~ m/:$findcode:/) {
```

```
 $findcode++;
```

```
 }
```

```
 $rcodes{$i} = $findcode;
```

```
 $rassigned{$lib} .= "$findcode:";
```

```
 print
```

```
STDERR "New Reason code $i\n" if $debug;
```

```
 }
```



```

printf OUT "#define $i%s $rcodes{$i}\n", "\t" x $z;
}
print OUT <<"EOF";

#ifdef __cplusplus
}
#endif
#endif
EOF
close OUT;

Rewrite the C source file containing the error details.

First, read any existing reason string definitions:
my %err_reason_strings;
if (open(IN,"<$file")) {
 while (<IN>) {
 if (/^b${lib}_R_\w*)b.*\(".*"\)/) {
 $err_reason_strings{$1} = $2;
 }
 if (/^b${lib}_F_\w*)b.*\(".*"\)/) {
 if (!exists $ftrans{$1} && ($1 ne $2)) {
 print STDERR "WARNING: Mismatched function string $2\n";
 $ftrans{$1} = $2;
 }
 }
 }
 close(IN);
}

my $hincf;
if($static) {
 $hfile =~ /^([^\+]+)/;
 $hincf = "<${hprefix}$1>";
} else {
 $hincf = "\"$hfile\"";
}

If static we know the error code at compile time so use it
in error definitions.

if ($static)
{
 $pack_errcode = "ERR_LIB_${lib}";
 $load_errcode = "0";
}
else

```



```

{
$pack_errcode = "0";
$load_errcode = "ERR_LIB_${lib}";
}

open
(OUT,">$file") || die "Can't open $file for writing";

print OUT <<"EOF";
/* $file */
/* =====
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/\* NOTE: this file was auto generated by the mkerr.pl script: any changes  
 \* made to it will be overwritten when the script next updates this file,  
 \* only reason strings will be preserved.  
 \*/

```
#include <stdio.h>
#include <openssl/err.h>
#include
$hincf
```

```
/* BEGIN ERROR CODES */
#ifndef OPENSSL_NO_ERR
```

```
#define ERR_FUNC(func) ERR_PACK($pack_errcode,func,0)
#define ERR_REASON(reason) ERR_PACK($pack_errcode,0,reason)
```

```
static ERR_STRING_DATA ${lib}_str_functs[]=
{
EOF
Add each function code: if a function name is found then use it.
foreach $i (@function) {
 my $fn;
 $i =~ /^${lib}_F_(\S+)/;
 $fn = $1;
 if(exists $ftrans{$fn}) {
 $fn = $ftrans{$fn};
 }
print OUT "{ERR_PACK($pack_errcode,$i,0),\t"$fn"\},\n";
print OUT "{ERR_FUNC($i),\t"$fn"\},\n";
```



```

}
print OUT <<"EOF";
{0,NULL}
};

static ERR_STRING_DATA ${lib}_str_reasons[]=
{
EOF
Add each reason code.
foreach $i (@reasons) {
my $rn;
my $rstr = "ERR_REASON($i)";
my $nspc = 0;
if (exists $err_reason_strings{$i}) {
$rn = $err_reason_strings{$i};
} else {
$i =~ /^${lib}_R_(\S+)/;
$rn = $1;
$rn =~ tr/_[A-Z]/[a-z]/;
}
$nspc = 40 - length($rstr) unless length($rstr) > 40;
$nspc = " " x $nspc;
print OUT "${rstr}${nspc},\"$rn\",\\n";
}
if($static)
{
print OUT <<"EOF";
{0,NULL}
};

#endif

${staticloader}void ERR_load_${lib}_strings(void)
{
#ifdef OPENSSSL_NO_ERR

if (ERR_func_error_string(${lib}_str_funcs[0].error) == NULL)
{
ERR_load_strings($load_errcode,${lib}_str_funcs);
ERR_load_strings($load_errcode,${lib}_str_reasons);
}
#endif
}
EOF
} else {
print OUT <<"EOF";
{0,NULL}
};

```



```

#endif

#ifdef ${lib}_LIB_NAME
static ERR_STRING_DATA ${lib}_lib_name[]=
{
{0,${lib}_LIB_NAME},
{0,NULL}
};
#endif

static int ${lib}_lib_error_code=0;
static int ${lib}_error_init=1;

${staticloader}void ERR_load_${lib}_strings(void)
{
if (${lib}_lib_error_code == 0)
${lib}_lib_error_code=ERR_get_next_error_library();

if (${lib}_error_init)
{
${lib}_error_init=0;
#ifdef OPENSSSL_NO_ERR
ERR_load_strings(${lib}_lib_error_code,${lib}_str_functs);
ERR_load_strings(${lib}_lib_error_code,${lib}_str_reasons);
#endif
}

#ifdef ${lib}_LIB_NAME
${lib}_lib_name->error = ERR_PACK(${lib}_lib_error_code,0,0);
ERR_load_strings(0,${lib}_lib_name);
#endif
}

${staticloader}void
ERR_unload_${lib}_strings(void)
{
if (${lib}_error_init == 0)
{
#ifdef OPENSSSL_NO_ERR
ERR_unload_strings(${lib}_lib_error_code,${lib}_str_functs);
ERR_unload_strings(${lib}_lib_error_code,${lib}_str_reasons);
#endif
}

#ifdef ${lib}_LIB_NAME
ERR_unload_strings(0,${lib}_lib_name);
#endif
}

```



```

 ${lib}_error_init=1;
}
}

${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line)
{
 if (${lib}_lib_error_code == 0)
 ${lib}_lib_error_code=ERR_get_next_error_library();
 ERR_PUT_error(${lib}_lib_error_code,function,reason,file,line);
}
EOF

}

close OUT;
undef %err_reason_strings;
}

if($debug && defined(%notrans)) {
 print STDERR "The following function codes were not translated:\n";
 foreach(sort keys %notrans)
 {
 print STDERR "$_\n";
 }
}

Make a list of unreferenced function and reason codes

foreach (keys %fcodes) {
 push (@funref, $_) unless exists $ufcodes{$_};
}

foreach
 (keys %rcodes) {
 push (@runref, $_) unless exists $urcodes{$_};
}

if($debug && defined(@funref)) {
 print STDERR "The following function codes were not referenced:\n";
 foreach(sort @funref)
 {
 print STDERR "$_\n";
 }
}

if($debug && defined(@runref)) {
 print STDERR "The following reason codes were not referenced:\n";
 foreach(sort @runref)

```



```
{
 print STDERR "$_\n";
}
}
```

```
if($errcount) {
 print STDERR "There were errors, failing...\n\n";
 exit $errcount;
}
```

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/util/mkerr.pl

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\*

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips\_dsatest.c

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn\_lib.c

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/e\_os.h

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/buffer/buffer.h

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/sha.h



```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/ncbc_enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/rsa/rsa.h
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/set_key.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/cfb_enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/asn1/asn1.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_mul.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/hmac/hmac.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/des_enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/ofb64ede.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_shift.c
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/des_ver.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/dh/dh_check.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_asm.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/hmac/hmac.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_div.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/rsa/rsa_x931g.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/util/add_cr.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_prime.h
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/rsa/rsa_crpt.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/utl/fips_enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/evp/m_dss.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/asn1/asn1_mac.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-

```



```

2.0.16/crypto/objects/objects.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/cfb64enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/dsa/dsa_gen.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bio/bio.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/dh/dh.h
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_word.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/cfb64ede.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/dh/dh_key.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/evp/e_des3.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/buffer/buf_str.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/ecb3_enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/dsa/dsa_ossl.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/rsa/rsa_gen.c
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/spr.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/des/fcrypt_b.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/evp/e_null.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/evp/evp.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/sha1dgst.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/rand/rand.h
No license file was found, but licenses were detected in source scan.

```

```

#!/usr/bin/env perl
#
=====
Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
project. The module is, however, dual licensed under OpenSSL and
CRYPTOGAMS licenses depending on where you obtain it. For further
details see http://www.openssl.org/~appro/cryptogams/.

```



```

=====
#
SHA512 for C64x+.
#
January 2012
#
Performance is 19 cycles per processed byte. Compared to block
transform function from sha512.c compiled with cl6x with -mv6400+
-o2 -DOPENSSL_SMALL_FOOTPRINT it's almost 7x faster and 2x smaller.
Loop unroll won't make it, this implementation, any faster, because
it's effectively dominated by SHRU||SHL pairs and you can't schedule
more of them.
#
!!! Note that this module uses AMR, which means that all interrupt
service routines are expected to preserve
it and for own well-being
zero it upon entry.

while (($output=shift) && ($output!~/\w[\w-]*\.\w+$/)) { }
open STDOUT,">$output";

($CTXA,$INP,$NUM) = ("A4","B4","A6"); # arguments
$K512="A3";

($Ahi,$Actxhi,$Bhi,$Bctxhi,$Chi,$Cctxhi,$Dhi,$Dctxhi,
$Ehi,$Ectxhi,$Fhi,$Fctxhi,$Ghi,$Gctxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Clo,$Cctxlo,$Dlo,$Dctxlo,
$Elo,$Ectxlo,$Flo,$Fctxlo,$Glo,$Gctxlo,$Hlo,$Hctxlo)=map("B$_",(16..31));

($S1hi,$CHhi,$S0hi,$t0hi)=map("A$_",(10..13));
($S1lo,$CHlo,$S0lo,$t0lo)=map("B$_",(10..13));
($T1hi, $T2hi)= ("A6","A7");
($T1lo,$T1carry,$T2lo,$T2carry)=("B6","B7","B8","B9");
($Khi,$Klo)=("A9","A8");
($MAJhi,$MAJlo)=($T2hi,$T2lo);
($t1hi,$t1lo)=($Khi,"B2");
$CTXB=$t1lo;

($Xihi,$Xilo)=("A5","B5"); # circular/ring buffer

$code.<<<___.text

.asg B3,RA
.asg A15,FP
.asg B15,SP

.if .BIG_ENDIAN

```



```

.asg $Khi,KHI
.asg $Klo,KLO
.else
.asg $Khi,KLO
.asg $Klo,KHI
.endif

.global _sha512_block_data_order
_sha512_block_data_order:
.asmfunc
stack_usage(40+128)
MV $NUM,A0 ; reassign $NUM
|| MVK -128,B0
[!A0] BNOP RA ; if ($NUM==0) return;
|| [A0] STW FP,*SP--(40) ; save frame pointer
|| [A0] MV SP,FP
[A0] STDW B13:B12,*SP[4]
|| [A0] MVK 0x00404,B1
[A0] STDW B11:B10,*SP[3]
|| [A0] STDW A13:A12,*FP[-3]
|| [A0] MVKH 0x60000,B1
[A0] STDW A11:A10,*SP[1]
|| [A0] MVC B1,AMR ; setup circular addressing
|| [A0] ADD B0,SP,SP ; alloca(128)
[A0] AND B0,SP,SP ; align stack at 128 bytes
|| [A0] ADDKPC _sha512_block_data_order,B1
|| [A0] MVKL (K512-_sha512_block_data_order),$K512
[A0] MVKH (K512-_sha512_block_data_order),$K512
|| [A0] SUBAW SP,2,SP ; reserve two words above buffer
ADDAW SP,3,$Xilo
ADDAW SP,2,$Xihi

|| MV $CTXA,$CTXB
LDW *${CTXA}[0^.LITTLE_ENDIAN],$Ahi ; load ctx
|| LDW *${CTXB}[1^.LITTLE_ENDIAN],$Alo
|| ADD B1,$K512,$K512
LDW *${CTXA}[2^.LITTLE_ENDIAN],$Bhi
|| LDW *${CTXB}[3^.LITTLE_ENDIAN],$Blo
LDW *${CTXA}[4^.LITTLE_ENDIAN],$Chi
|| LDW *${CTXB}[5^.LITTLE_ENDIAN],$Clo
LDW *${CTXA}[6^.LITTLE_ENDIAN],$Dhi
|| LDW *${CTXB}[7^.LITTLE_ENDIAN],$Dlo
LDW *${CTXA}[8^.LITTLE_ENDIAN],$Ehi
|| LDW *${CTXB}[9^.LITTLE_ENDIAN],$Elo
LDW *${CTXA}[10^.LITTLE_ENDIAN],$Fhi
|| LDW *${CTXB}[11^.LITTLE_ENDIAN],$Flo
LDW *${CTXA}[12^.LITTLE_ENDIAN],$Ghi
|| LDW *${CTXB}[13^.LITTLE_ENDIAN],$Glo

```



```

LDW *${CTXA}[14^.LITTLE_ENDIAN],$Hhi
|| LDW *${CTXB}[15^.LITTLE_ENDIAN],$Hlo

LDNDW *$INP++,B11:B10 ;
pre-fetch input
LDDW *$K512++,$Khi:$Klo ; pre-fetch K512[0]
outerloop?:
MVK 15,B0 ; loop counters
|| MVK 64,B1
|| SUB A0,1,A0
MV $Ahi,$Actxhi
|| MV $Alo,$Actxlo
|| MV $Bhi,$Bctxhi
|| MV $Blo,$Bctxlo
|| MV $Chi,$Cctxhi
|| MV $Clo,$Cctxlo
|| MVD $Dhi,$Dctxhi
|| MVD $Dlo,$Dctxlo
MV $Ehi,$Ectxhi
|| MV $Elo,$Ectxlo
|| MV $Fhi,$Fctxhi
|| MV $Flo,$Fctxlo
|| MV $Ghi,$Gctxhi
|| MV $Glo,$Gctxlo
|| MVD $Hhi,$Hctxhi
|| MVD $Hlo,$Hctxlo
loop0_15?:
.if .BIG_ENDIAN
MV B11,$T1hi
|| MV B10,$T1lo
.else
SWAP4 B10,$T1hi
|| SWAP4 B11,$T1lo
SWAP2 $T1hi,$T1hi
|| SWAP2 $T1lo,$T1lo
.endif
loop16_79?:
STW $T1hi,*$Xihi++[2]
|| STW $T1lo,*$Xilo++[2] ;
X[i] = T1
|| ADD $Hhi,$T1hi,$T1hi
|| ADDU $Hlo,$T1lo,$T1carry:$T1lo ; T1 += h
|| SHRU $Ehi,14,$S1hi
|| SHL $Ehi,32-14,$S1lo
XOR $Fhi,$Ghi,$CHhi
|| XOR $Flo,$Glo,$CHlo
|| ADD KHI,$T1hi,$T1hi
|| ADDU KLO,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += K512[i]

```



```

|| SHRU $Elo,14,$t0lo
|| SHL $Elo,32-14,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Ehi,$CHhi,$CHhi
|| AND $Elo,$CHlo,$CHlo
|| ROTL $Ghi,0,$Hhi
|| ROTL $Glo,0,$Hlo ; h = g
|| SHRU $Ehi,18,$t0hi
|| SHL $Ehi,32-18,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| XOR $Ghi,$CHhi,$CHhi
|| XOR $Glo,$CHlo,$CHlo ; Ch(e,f,g) = ((f^g)&e)^g
|| ROTL $Fhi,0,$Ghi
|| ROTL $Flo,0,$Glo ; g = f
|| SHRU $Elo,18,$t0lo
|| SHL $Elo,32-18,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| OR $Ahi,$Bhi,$MAJhi
|| OR $Alo,$Blo,$MAJlo
|| ROTL $Ehi,0,$Fhi
|| ROTL $Elo,0,$Flo ; f = e
|| SHRU $Ehi,41-32,$t0lo
|| SHL $Ehi,64-41,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Chi,$MAJhi,$MAJhi
|| AND $Clo,$MAJlo,$MAJlo
|| ROTL $Dhi,0,$Ehi
|| ROTL $Dlo,0,$Elo ;
e = d
|| SHRU $Elo,41-32,$t0hi
|| SHL $Elo,64-41,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo ; Sigma1(e)
|| AND $Ahi,$Bhi,$t1hi
|| AND $Alo,$Blo,$t1lo
|| ROTL $Chi,0,$Dhi
|| ROTL $Clo,0,$Dlo ; d = c
|| SHRU $Ahi,28,$S0hi
|| SHL $Ahi,32-28,$S0lo
OR $t1hi,$MAJhi,$MAJhi
|| OR $t1lo,$MAJlo,$MAJlo ; Maj(a,b,c) = ((a|b)&c)|(a&b)
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Ch(e,f,g)
|| ROTL $Bhi,0,$Chi

```



```

|| ROTL $B1o,0,$C1o ; c = b
|| SHRU $A1o,28,$t0lo
|| SHL $A1o,32-28,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Sigma1(e)
|| ROTL $Ahi,0,$Bhi
|| ROTL $A1o,0,$B1o ; b = a
|| SHRU $Ahi,34-32,$t0lo
|| SHL $Ahi,64-34,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $MAJhi,$T1hi,$T2hi
|| ADDU $MAJlo,$T1carry:$T1lo,$T2carry:$T2lo ;
T2 = T1+Maj(a,b,c)
|| SHRU $A1o,34-32,$t0hi
|| SHL $A1o,64-34,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $Ehi,$T1hi,$T1hi
|| ADDU $Elo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += e
|| [B0] BNOP loop0_15?
|| SHRU $Ahi,39-32,$t0lo
|| SHL $Ahi,64-39,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| [B0] LDNDW *$INP++,B11:B10 ; pre-fetch input
||[!B1] BNOP break?
|| SHRU $A1o,39-32,$t0hi
|| SHL $A1o,64-39,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo ; Sigma0(a)
|| ADD $T1carry,$T1hi,$Ehi
|| MV $T1lo,$Elo ; e = T1
||[!B0] LDW *${Xihi}[28],$T1hi
||[!B0] LDW *${Xilo}[28],$T1lo ; X[i+14]
ADD $S0hi,$T2hi,$T2hi
|| ADDU $S0lo,$T2carry:$T2lo,$T2carry:$T2lo ; T2 += Sigma0(a)
|| [B1] LDDW *$K512+,$Khi:$Klo ; pre-fetch K512[i]
NOP ; avoid cross-path stall
ADD $T2carry,$T2hi,$Ahi
|| MV $T2lo,$A1o ; a = T2
|| [B0] SUB B0,1,B0
;;===== branch to loop00_15? is taken here
NOP
;;===== branch to break? is taken here
LDW *${Xihi}[2],$T2hi

```



```

|| LDW *${Xilo}[2],$T2lo ;
X[i+1]
|| SHRU $T1hi,19,$S1hi
|| SHL $T1hi,32-19,$S1lo
SHRU $T1lo,19,$t0lo
|| SHL $T1lo,32-19,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,61-32,$t0lo
|| SHL $T1hi,64-61,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,61-32,$t0hi
|| SHL $T1lo,64-61,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,6,$t0hi
|| SHL $T1hi,32-6,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,6,$t0lo
|| LDW *${Xihi}[18],$T1hi
|| LDW *${Xilo}[18],$T1lo ; X[i+9]
XOR $t0lo,$S1lo,$S1lo ; sigma1(Xi[i+14])

```

```

|| LDW *${Xihi}[0],$CHhi
|| LDW *${Xilo}[0],$CHlo ; X[i]
|| SHRU $T2hi,1,$S0hi
|| SHL $T2hi,32-1,$S0lo
SHRU $T2lo,1,$t0lo
|| SHL $T2lo,32-1,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2hi,8,$t0hi
|| SHL $T2hi,32-8,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2lo,8,$t0lo
|| SHL $T2lo,32-8,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1lo,$T1carry:$T1lo ;
T1 = X[i+9]+sigma1()
|| [B1] BNOP loop16_79?
|| SHRU $T2hi,7,$t0hi
|| SHL $T2hi,32-7,$t0lo
XOR $t0hi,$S0hi,$S0hi

```



```

|| XOR $t0lo,$S0lo,$S0lo
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += X[i]
|| SHRU $T2lo,7,$t0lo
XOR $t0lo,$S0lo,$S0lo ; sigma0(Xi[i+1])

ADD $S0hi,$T1hi,$T1hi
|| ADDU $S0lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += sigma0()
|| [B1] SUB B1,1,B1
NOP ; avoid cross-path stall
ADD $T1carry,$T1hi,$T1hi
;;===== branch to loop16_79? is taken here

```

break?:

```

ADD $Ahi,$Actxhi,$Ahi ; accumulate ctx
|| ADDU $Alo,$Actxlo,$Actxlo:$Alo
|| [A0] LDNDW *$INP++,B11:B10 ; pre-fetch input
|| [A0] ADDK -640,$K512 ; rewind pointer to K512
ADD $Bhi,$Bctxhi,$Bhi
|| ADDU $Blo,$Bctxlo,$Bctxlo:$Blo
|| [A0] LDDW *$K512+,$Khi:$Klo ; pre-fetch K512[0]
ADD $Chi,$Cctxhi,$Chi
|| ADDU $Clo,$Cctxlo,$Cctxlo:$Clo
|| ADD $Actxlo,$Ahi,$Ahi
||[!A0] MV $CTXA,$CTXB
ADD $Dhi,$Dctxhi,$Dhi
|| ADDU $Dlo,$Dctxlo,$Dctxlo:$Dlo
|| ADD $Bctxlo,$Bhi,$Bhi
||[!A0] STW $Ahi,*${CTXA}[0^.LITTLE_ENDIAN] ;
save ctx
||[!A0] STW $Alo,*${CTXB}[1^.LITTLE_ENDIAN]
ADD $Ehi,$Ectxhi,$Ehi
|| ADDU $Elo,$Ectxlo,$Ectxlo:$Elo
|| ADD $Cctxlo,$Chi,$Chi
|| [A0] BNOP outerloop?
||[!A0] STW $Bhi,*${CTXA}[2^.LITTLE_ENDIAN]
||[!A0] STW $Blo,*${CTXB}[3^.LITTLE_ENDIAN]
ADD $Fhi,$Fctxhi,$Fhi
|| ADDU $Flo,$Fctxlo,$Fctxlo:$Flo
|| ADD $Dctxlo,$Dhi,$Dhi
||[!A0] STW $Chi,*${CTXA}[4^.LITTLE_ENDIAN]
||[!A0] STW $Clo,*${CTXB}[5^.LITTLE_ENDIAN]
ADD $Ghi,$Gctxhi,$Ghi
|| ADDU $Glo,$Gctxlo,$Gctxlo:$Glo
|| ADD $Ectxlo,$Ehi,$Ehi
||[!A0] STW $Dhi,*${CTXA}[6^.LITTLE_ENDIAN]
||[!A0] STW $Dlo,*${CTXB}[7^.LITTLE_ENDIAN]
ADD $Hhi,$Hctxhi,$Hhi

```



```

|| ADDU $Hlo,$Hctxlo,$Hctxlo:$Hlo
|| ADD $Fctxlo,$Fhi,$Fhi
||[!A0] STW $Ehi,*${CTXA}[8^.LITTLE_ENDIAN]
||[!A0] STW $Elo,*${CTXB}[9^.LITTLE_ENDIAN]
ADD $Gctxlo,$Ghi,$Ghi
||[!A0] STW $Fhi,*${CTXA}[10^.LITTLE_ENDIAN]
||[!A0] STW $Flo,*${CTXB}[11^.LITTLE_ENDIAN]
ADD $Hctxlo,$Hhi,$Hhi
||[!A0] STW $Ghi,*${CTXA}[12^.LITTLE_ENDIAN]
||[!A0] STW $Glo,*${CTXB}[13^.LITTLE_ENDIAN]
;;=====
branch to outerloop? is taken here

```

```

STW $Hhi,*${CTXA}[14^.LITTLE_ENDIAN]
|| STW $Hlo,*${CTXB}[15^.LITTLE_ENDIAN]
|| MVK -40,B0
ADD FP,B0,SP ; destroy circular buffer
|| LDDW *FP[-4],A11:A10
LDDW *SP[2],A13:A12
|| LDDW *FP[-2],B11:B10
LDDW *SP[4],B13:B12
|| BNOP RA
LDW *++SP(40),FP ; restore frame pointer
MVK 0,B0
MVC B0,AMR ; clear AMR
NOP 2 ; wait till FP is committed
.endasmfunc

```

```

.sect ".const:sha_asm"
.align 128
K512:
.uword 0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
.uword 0xb5c0fbcf,0xec4d3b2f, 0xe9b5dba5,0x8189dbbc
.uword 0x3956c25b,0xf348b538, 0x59f111f1,0xb605d019
.uword 0x923f82a4,0xaf194f9b, 0xab1c5ed5,0xda6d8118
.uword 0xd807aa98,0xa3030242, 0x12835b01,0x45706fbe
.uword 0x243185be,0x4ee4b28c, 0x550c7dc3,0xd5ffb4e2
.uword 0x72be5d74,0xf27b896f, 0x80deb1fe,0x3b1696b1
.uword 0x9bdc06a7,0x25c71235, 0xc19bf174,0xcf692694
.uword 0xe49b69c1,0x9ef14ad2, 0xefbe4786,0x384f25e3
.uword 0x0fc19dc6,0x8b8cd5b5,
0x240ca1cc,0x77ac9c65
.uword 0x2de92c6f,0x592b0275, 0x4a7484aa,0x6ea6e483
.uword 0x5cb0a9dc,0xbd41fbd4, 0x76f988da,0x831153b5
.uword 0x983e5152,0xee66dfab, 0xa831c66d,0x2db43210
.uword 0xb00327c8,0x98fb213f, 0xbf597fc7,0xbeef0ee4
.uword 0xc6e00bf3,0x3da88fc2, 0xd5a79147,0x930aa725
.uword 0x06ca6351,0xe003826f, 0x14292967,0x0a0e6e70

```



```

.uword 0x27b70a85,0x46d22ffc, 0x2e1b2138,0x5c26c926
.uword 0x4d2c6dfc,0x5ac42aed, 0x53380d13,0x9d95b3df
.uword 0x650a7354,0x8baf63de, 0x766a0abb,0x3c77b2a8
.uword 0x81c2c92e,0x47edae6, 0x92722c85,0x1482353b
.uword 0xa2bfe8a1,0x4cf10364, 0xa81a664b,0xbc423001
.uword 0xc24b8b70,0xd0f89791, 0xc76c51a3,0x0654be30
.uword 0xd192e819,0xd6ef5218, 0xd6990624,0x5565a910
.uword 0xf40e3585,0x5771202a, 0x106aa070,0x32bbd1b8
.uword 0x19a4c116,0xb8d2d0c8, 0x1e376c08,0x5141ab53
.uword 0x2748774c,0xdf8eeb99, 0x34b0bcb5,0xe19b48a8
.uword 0x391c0cb3,0xc5c95a63, 0xed8aa4a,0xe3418acb
.uword 0x5b9cca4f,0x7763e373, 0x682e6ff3,0xd6b2b8a3
.uword 0x748f82ee,0x5defb2fc,
0x78a5636f,0x43172f60
.uword 0x84c87814,0xa1f0ab72, 0x8cc70208,0x1a6439ec
.uword 0x90befffa,0x23631e28, 0xa4506ceb,0xde82bde9
.uword 0xbef9a3f7,0xb2c67915, 0xc67178f2,0xe372532b
.uword 0xca273ece,0xea26619c, 0xd186b8c7,0x21c0c207
.uword 0xeadada7dd6,0xcde0eb1e, 0xf57d4f7f,0xee6ed178
.uword 0x06f067aa,0x72176fba, 0x0a637dc5,0xa2c898a6
.uword 0x113f9804,0xbef90dae, 0x1b710b35,0x131c471b
.uword 0x28db77f5,0x23047d84, 0x32caab7b,0x40c72493
.uword 0x3c9ebe0a,0x15c9bebc, 0x431d67c4,0x9c100d4c
.uword 0x4cc5d4be,0xcb3e42b6, 0x597f299c,0xfc657e2a
.uword 0x5fcb6fab,0x3ad6faec, 0x6c44198c,0x4a475817
.cstring "SHA512 block transform for C64x+, CRYPTOGAMS by <appro\@openssl.org>"
.align 4

```

```

print $code;
close STDOUT;

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha512-c64xplus.pl

```

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```
#!/usr/bin/env perl
```

```

=====
Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
project. The module is, however, dual licensed under OpenSSL and
CRYPTOGAMS licenses depending on where you obtain it. For further
details see http://www.openssl.org/~appro/cryptogams/.
=====

```

```
I let hardware handle unaligned input(*), except on page boundaries
```

```
(see below for details). Otherwise straightforward implementation
```



```

with X vector in register bank. The module is big-endian [which is
not big deal as there're no little-endian targets left around].
#
(*) this means that this module is inappropriate for PPC403? Does
anybody know if pre-POWER3 can sustain unaligned load?

-m64 -m32

PPC970,gcc-4.0.0 +76% +59%
Power6,xlc-7 +68% +33%

$flavour
= shift;

if ($flavour =~ /64/) {
 $SIZE_T=8;
 $LRSIZE=2*$SIZE_T;
 $UCMP="cmpld";
 $STU="stdu";
 $POP="ld";
 $PUSH="std";
} elsif ($flavour =~ /32/) {
 $SIZE_T=4;
 $LRSIZE=$SIZE_T;
 $UCMP="cmplw";
 $STU="stwu";
 $POP="lwz";
 $PUSH="stw";
} else { die "nonsense $flavour"; }

$0 =~ m/(.*[\\\/])(^\\\/)+$/; $dir=$1;
($xlate="$dir/ppc-xlate.pl" and -f $xlate) or
($xlate="$dir/../perlasm/ppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";

open STDOUT,"|^X $xlate $flavour ".shift || die "can't call $xlate: $!";

$FRAME=24*$SIZE_T+64;
$LOCALS=6*$SIZE_T;

$K ="r0";
$sp ="r1";
$toC ="r2";
$ctx ="r3";
$inp ="r4";
$num ="r5";
$t0 ="r15";
$t1 ="r6";

```



```

$A ="r7";
$B ="r8";
$C ="r9";
$D ="r10";
$E ="r11";
$T ="r12";

@V=($A,$B,$C,$D,$E,$T);
@X=("r16","r17","r18","r19","r20","r21","r22","r23",
 "r24","r25","r26","r27","r28","r29","r30","r31");

sub BODY_00_19 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<<___ if ($i==0);
lwz @X[$i],`$i*4`($inp)

$code.=<<<___
if ($i<15);
lwz @X[$j],`$j*4`($inp)
add $f,$K,$e
rotlwi $e,$a,5
add $f,$f,@X[$i]
and $t0,$c,$b
add $f,$f,$e
andc $t1,$d,$b
rotlwi $b,$b,30
or $t0,$t0,$t1
add $f,$f,$t0

$code.=<<<___ if ($i>=15);
add $f,$K,$e
rotlwi $e,$a,5
xor @X[$j%16],@X[$j%16],@X[(($j+2)%16)]
add $f,$f,@X[$i%16]
and $t0,$c,$b
xor @X[$j%16],@X[$j%16],@X[(($j+8)%16)]
add $f,$f,$e
andc $t1,$d,$b
rotlwi $b,$b,30
or $t0,$t0,$t1
xor @X[$j%16],@X[$j%16],@X[(($j+13)%16)]
add $f,$f,$t0
rotlwi @X[$j%16],@X[$j%16],1

}

```



```

sub BODY_20_39 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<___ if ($i<79);
add $f,$K,$e
rotlwi $e,$a,5
xor @X[$j%16],@X[$j%16],@X[(($j+2)%16)]
add $f,$f,@X[$i%16]
xor $t0,$b,$c
xor @X[$j%16],@X[$j%16],@X[(($j+8)%16)]
add $f,$f,$e
rotlwi $b,$b,30
xor $t0,$t0,$d
xor @X[$j%16],@X[$j%16],@X[(($j+13)%16)]
add $f,$f,$t0
rotlwi @X[$j%16],@X[$j%16],1

$code.=<<___ if ($i==79);
add $f,$K,$e
rotlwi $e,$a,5
lwz r16,0($ctx)
add $f,$f,@X[$i%16]
xor $t0,$b,$c
lwz r17,4($ctx)
add $f,$f,$e
rotlwi $b,$b,30
lwz r18,8($ctx)
xor $t0,$t0,$d
lwz r19,12($ctx)
add $f,$f,$t0
lwz r20,16($ctx)

}

```

```

sub
 BODY_40_59 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<___;
add $f,$K,$e
rotlwi $e,$a,5
xor @X[$j%16],@X[$j%16],@X[(($j+2)%16)]
add $f,$f,@X[$i%16]
and $t0,$b,$c
xor @X[$j%16],@X[$j%16],@X[(($j+8)%16)]
add $f,$f,$e
or $t1,$b,$c
rotlwi $b,$b,30

```



```

xor @X[$j%16],@X[$j%16],@X[(j+13)%16]
and $t1,$t1,$d
or $t0,$t0,$t1
rotlwi @X[$j%16],@X[$j%16],1
add $f,$f,$t0

```

```

}

```

```

$code=<<____;
.machine "any"
.text

```

```

.globl .sha1_block_data_order
.align 4
.sha1_block_data_order:
$STU $sp,-$FRAME($sp)
mflr r0
$PUSH r15,`$FRAME-$SIZE_T*17`($sp)
$PUSH r16,`$FRAME-$SIZE_T*16`($sp)
$PUSH r17,`$FRAME-$SIZE_T*15`($sp)
$PUSH r18,`$FRAME-$SIZE_T*14`($sp)
$PUSH r19,`$FRAME-$SIZE_T*13`($sp)
$PUSH r20,`$FRAME-$SIZE_T*12`($sp)
$PUSH r21,`$FRAME-$SIZE_T*11`($sp)
$PUSH r22,`$FRAME-$SIZE_T*10`($sp)
$PUSH r23,`$FRAME-$SIZE_T*9`($sp)
$PUSH r24,`$FRAME-$SIZE_T*8`($sp)
$PUSH r25,`$FRAME-$SIZE_T*7`($sp)
$PUSH r26,`$FRAME-$SIZE_T*6`($sp)
$PUSH r27,`$FRAME-$SIZE_T*5`($sp)
$PUSH r28,`$FRAME-$SIZE_T*4`($sp)
$PUSH r29,`$FRAME-$SIZE_T*3`($sp)
$PUSH r30,`$FRAME-$SIZE_T*2`($sp)
$PUSH r31,`$FRAME-$SIZE_T*1`($sp)
$PUSH r0,`$FRAME+$LRSAVE`($sp)
lwz $A,0($ctx)
lwz $B,4($ctx)
lwz $C,8($ctx)
lwz $D,12($ctx)
lwz $E,16($ctx)
andi. r0,$inp,3
bne Lunaligned
Laligned:
mtctr $num
bl Lsha1_block_private
b Ldone

```

```

;

```



PowerPC specification allows an implementation to be ill-behaved  
; upon unaligned access which crosses page boundary. "Better safe  
; than sorry" principle makes me treat it specially. But I don't  
; look for particular offending word, but rather for 64-byte input  
; block which crosses the boundary. Once found that block is aligned  
; and hashed separately...

.align 4

Lunaligned:

```
subfic $t1,$inp,4096
andi. $t1,$t1,4095 ; distance to closest page boundary
srwi. $t1,$t1,6 ; t1/=64
beq Lcross_page
$UCMP $num,$t1
ble Laligned ; didn't
cross the page boundary
mtctr $t1
subfc $num,$t1,$num
bl Lsha1_block_private
```

Lcross\_page:

```
li $t1,16
mtctr $t1
addi r20,$sp,$LOCALS ; spot within the frame
```

Lmemcpy:

```
lbz r16,0($inp)
lbz r17,1($inp)
lbz r18,2($inp)
lbz r19,3($inp)
addi $inp,$inp,4
stb r16,0(r20)
stb r17,1(r20)
stb r18,2(r20)
stb r19,3(r20)
addi r20,r20,4
bdnz Lmemcpy
```

\$PUSH \$inp,`\$FRAME-\$SIZE\_T\*18`(\$sp)

li \$t1,1

addi \$inp,\$sp,\$LOCALS

mtctr \$t1

bl Lsha1\_block\_private

\$POP \$inp,`\$FRAME-\$SIZE\_T\*18`(\$sp)

addic. \$num,\$num,-1

bne Lunaligned

Ldone:

\$POP r0,`\$FRAME+\$LRSAVE`(\$sp)

\$POP r15,`\$FRAME-\$SIZE\_T\*17`(\$sp)

\$POP r16,`\$FRAME-\$SIZE\_T\*16`(\$sp)



```

$POP r17,`$FRAME-$SIZE_T*15`($sp)
$POP r18,`$FRAME-$SIZE_T*14`($sp)
$POP r19,`$FRAME-$SIZE_T*13`($sp)
$POP r20,`$FRAME-$SIZE_T*12`($sp)
$POP r21,`$FRAME-$SIZE_T*11`($sp)
$POP r22,`$FRAME-$SIZE_T*10`($sp)
$POP r23,`$FRAME-$SIZE_T*9`($sp)
$POP r24,`$FRAME-$SIZE_T*8`($sp)
$POP r25,`$FRAME-$SIZE_T*7`($sp)
$POP r26,`$FRAME-$SIZE_T*6`($sp)
$POP r27,`$FRAME-$SIZE_T*5`($sp)
$POP r28,`$FRAME-$SIZE_T*4`($sp)
$POP r29,`$FRAME-$SIZE_T*3`($sp)
$POP r30,`$FRAME-$SIZE_T*2`($sp)
$POP r31,`$FRAME-$SIZE_T*1`($sp)
mtlr r0
addi $sp,$sp,$FRAME
blr
.long 0
.byte 0,12,4,1,0x80,18,3,0
.long 0
—

#
This is private block function, which uses tailored calling
interface, namely upon entry SHA_CTX is pre-loaded to given
registers and counter register contains amount of chunks to
digest...
$code.=<<<___;
.align 4
Lshal_block_private:
—
$code.=<<<___; # load K_00_19
lis $K,0x5a82
ori $K,$K,0x7999
—
for($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
$code.=<<<___; # load K_20_39
lis $K,0x6ed9
ori $K,$K,0xeba1
—
for($i<40;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<<___; # load K_40_59
lis $K,0x8f1b
ori $K,$K,0xbcdc
—
for($i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
$code.=<<<___; # load K_60_79

```



```

lis $K,0xca62
ori $K,$K,0xc1d6

—
for(;$i<80;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V));
}
$code.=<<____;
add r16,r16,$E
add r17,r17,$T
add r18,r18,$A
add r19,r19,$B
add r20,r20,$C
stw r16,0($ctx)
mr $A,r16
stw r17,4($ctx)
mr $B,r17
stw r18,8($ctx)
mr $C,r18
stw r19,12($ctx)
mr $D,r19
stw r20,16($ctx)
mr $E,r20
addi $inp,$inp,`16*4`
bdnz Lsha1_block_private
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0

—
$code.=<<____;
.asciz "SHA1 block transform for PPC, CRYPTOGAMS by <appro\@fy.chalmers.se>"

—

$code =~ s/\`([^\`]*)\`/eval $1/gem;
print $code;
close STDOUT;

```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-ppc.pl

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Found in path(s):



\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/fips\_err.h

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_gcd.c
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_prime.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_rand.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/utl/fips_md.c

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- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/aes\_locl.h
- \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/aes.h
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```



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tlhelp32.h - Include file for Tool help functions.

Written by Mumit Khan <khan@nanotech.wisc.edu>

This file is part of a free library for the Win32 API.

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```

```
while (($output=shift) && ($output!~/\w[\w-]*\.\w+$/)) { }
open STDOUT,">$output";
```

```
$code.=<<____;
.text
```

```
.if .ASSEMBLER_VERSION<7000000
.asg 0,__TI_EABI__
.endif
.if __TI_EABI__
.asg _OPENSSL_rdtsc,_OPENSSL_rdtsc
.asg _OPENSSL_cleanse,_OPENSSL_cleanse
.asg _CRYPTO_memcmp,_CRYPTO_memcmp
.asg _OPENSSL_atomic_add,_OPENSSL_atomic_add
.asg _OPENSSL_wipe_cpu,_OPENSSL_wipe_cpu
.asg _OPENSSL_instrument_bus,_OPENSSL_instrument_bus
.asg _OPENSSL_instrument_bus2,_OPENSSL_instrument_bus2
.endif
```

```
.asg B3,RA
.asg 0x01AC0000,TIMER_BASE ; Timer 2
```

```
.global _OPENSSL_rdtsc
_OPENSSL_rdtsc:
.asmfnc
MVKL TIMER_BASE,A5
MVKH TIMER_BASE,A5
LDW *A5[0],A2 ;
load CTL
LDW *A5[2],A4 ; load CTN
NOP 2
.if .BIG_ENDIAN
MVK 0x2c0,A7 ; internal clock source, don't hold, go
|| MVK -1,A6 ; maximum period
.else
MVK 0x2c0,A6 ; internal clock source, don't hold, go
|| MVK -1,A7 ; maximum period
.endif
```



```

[!A2] STDW A7:A6,*A5[0] ; fire it up
|| BNOP RA,5
.endasmfunc

.global _OPENSSL_cleanse
_OPENSSL_cleanse:
.asmfunc
ZERO A3:A2
|| ZERO B2
|| SHRU B4,3,B0 ; is length >= 8
|| ADD 1,A4,B6
[!B0] BNOP RA
|| [B0] SUB B0,1,B2
|| ZERO A1
|| ZERO B1
[B2] BDEC cleanse_loop?,B2
||[!B0] CMPLT 0,B4,A1
||[!B0] CMPLT 1,B4,B1
|| ZERO B5
[A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B2] BDEC cleanse_loop?,B2
||[!B0] CMPLT 2,B4,A1
||[!B0] CMPLT 3,B4,B1
[A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B2] BDEC cleanse_loop?,B2
||[!B0] CMPLT 4,B4,A1
||[!B0] CMPLT 5,B4,B1
[A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B2] BDEC cleanse_loop?,B2
||[!B0] CMPLT 6,B4,A1
[A1] STB A2,*A4++[2]
||
[B2] BDEC cleanse_loop?,B2

cleanse_loop?:
STNDW A3:A2,*A4++
|| SUB B4,8,B4
|| [B2] BDEC cleanse_loop?,B2

MV B4,B0 ; remaining bytes
|| ADD 1,A4,B6
|| BNOP RA
[B0] CMPLT 0,B0,A1
|| [B0] CMPLT 1,B0,B1
[A1] STB A2,*A4++[2]

```



```

|| [B1] STB B5,*B6++[2]
|| [B0] CMPLT 2,B0,A1
|| [B0] CMPLT 3,B0,B1
 [A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B0] CMPLT 4,B0,A1
|| [B0] CMPLT 5,B0,B1
 [A1] STB A2,*A4++[2]
|| [B1] STB B5,*B6++[2]
|| [B0] CMPLT 6,B0,A1
 [A1] STB A2,*A4++[2]
.endasmfunc

```

```

.if 0
.global _CRYPTO_memcmp
_CRYPTO_memcmp:
.asmfunc
MV A6,B0
[!B0] BNOP RA
||[!B0] ZERO A4
|| [B0] ZERO A1:A0
 [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
 [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
 [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
 [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
 [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0
 XOR A5,B5,A1
||
 [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0

```

```

memcmp_loop?:
 OR A1,A0,A0
|| XOR A5,B5,A1
|| [B0] LDBU *A4++,A5
|| [B0] LDBU *B4++,B5
|| [B0] BDEC memcmp_loop?,B0

```



```

BNOP RA,3
ZERO A4
[A0] MVK 1,A4
.endasmfunc
.endif

.global _OPENSSL_atomic_add
_OPENSSL_atomic_add:
.asmfunc
BNOP atomic_store? ; pre-C64x+ systems are uni-processor, it's
|| LDW *A4,B5 ; enough to hold interrupts off through
; the load-update-store cycle to achieve
; atomicity
NOP
BNOP RA,3 ; and this branch stretches even over store
ADD B4,B5,B5
atomic_store?:
STW B5,*A4
|| MV B5,A4
.endasmfunc

.global _OPENSSL_wipe_cpu
_OPENSSL_wipe_cpu:
.asmfunc
ZERO A0
|| ZERO B0
|| ZERO A1
|| ZERO B1
ZERO A3:A2
|| MVD B0,B2
|| ZERO A4
|| ZERO B4
|| ZERO A5
|| ZERO B5
|| BNOP RA
ZERO A7:A6
|| ZERO B7:B6
|| ZERO A8
|| ZERO B8
|| ZERO A9
|| ZERO B9
ZERO A17:A16
|| ZERO B17:B16
|| ZERO A18
|| ZERO B18
|| ZERO A19
|| ZERO B19

```



```

ZERO A21:A20
|| ZERO B21:B20
|| ZERO A22
|| ZERO B22
|| ZERO A23
|| ZERO B23
ZERO A25:A24
|| ZERO B25:B24
|| ZERO A26
|| ZERO B26
|| ZERO A27
|| ZERO B27
ZERO A29:A28
|| ZERO B29:B28
|| ZERO A30
|| ZERO B30
|| ZERO A31
|| ZERO B31
.endasmfunc

```

```

CLFLUSH .macro CONTROL,ADDR,LEN
B passthrough?
|| STW ADDR,*CONTROL[0]
STW LEN,*CONTROL[1]
spinlock?:
LDW *CONTROL[1],A0
NOP 3
passthrough?:
NOP
[A0] BNOP spinlock?,5
.endm

```

```

.global _OPENSSL_instrument_bus
_OPENSSL_instrument_bus:
.asmfunc
MV B4,B0 ; reassign sizeof(output)
|| MV A4,B4 ; reassign output
|| MVK 0x00004030,A3
|| MVKL TIMER_BASE,B16
MV B0,A4 ; return value
|| MVK 1,A1
|| MVKH 0x01840000,A3 ; L1DWIBAR
|| MVKH TIMER_BASE,B16
LDW *B16[2],B8 ; collect 1st tick
|| MVK 0x00004010,A5
NOP 4
MV B8,B9 ; lasttick = tick
|| MVK 0,B7 ; lastdiff = 0

```



```

|| MVKH 0x01840000,A5 ; L2WIBAR
CLFLUSH A3,B4,A1 ; write-back and invalidate L1D line
CLFLUSH A5,B4,A1 ; write-back and invalidate L2 line
LDW *B4,B5
NOP 4
ADD B7,B5,B5
STW B5,*B4
bus_loop1?:
LDW *B16[2],B8
||
[B0] SUB B0,1,B0
NOP 4
SUB B8,B9,B7 ; lastdiff = tick - lasttick
|| MV B8,B9 ; lasttick = tick
CLFLUSH A3,B4,A1 ; write-back and invalidate L1D line
CLFLUSH A5,B4,A1 ; write-back and invalidate L2 line
LDW *B4,B5
NOP 4
ADD B7,B5,B5
STW B5,*B4 ; [!B1] is removed to flatten samples
|| ADDK 4,B4
|| [B0] BNOP bus_loop1?,5

BNOP RA,5
.endasmfunc

.global _OPENSSL_instrument_bus2
_OPENSSL_instrument_bus2:
.asmfnc
MV A6,B0 ; reassign max
|| MV B4,A6 ; reassign sizeof(output)
|| MVK 0x00004030,A3
|| MVKL TIMER_BASE,B16
MV A4,B4 ; reassign output
|| MVK 0,A4 ; return value
|| MVK 1,A1
|| MVKH 0x01840000,A3 ; L1DWIBAR
|| MVKH TIMER_BASE,B16

LDW *B16[2],B8 ; collect 1st tick
|| MVK 0x00004010,A5
NOP 4
MV B8,B9 ; lasttick = tick
|| MVK 0,B7 ; lastdiff = 0
|| MVKH 0x01840000,A5 ; L2WIBAR
CLFLUSH A3,B4,A1 ; write-back and invalidate L1D line
CLFLUSH A5,B4,A1 ; write-back and invalidate L2 line
LDW *B4,B5

```



```

NOP 4
ADD B7,B5,B5
STW B5,*B4

LDW *B16[2],B8 ;
collect 1st diff
NOP 4
SUB B8,B9,B7 ; lastdiff = tick - lasttick
|| MV B8,B9 ; lasttick = tick
|| SUB B0,1,B0
bus_loop2?:
CLFLUSH A3,B4,A1 ; write-back and invalidate L1D line
CLFLUSH A5,B4,A1 ; write-back and invalidate L2 line
LDW *B4,B5
NOP 4
ADD B7,B5,B5
STW B5,*B4 ; [!B1] is removed to flatten samples
||[!B0] BNOP bus_loop2_done?,2
|| SUB B0,1,B0
LDW *B16[2],B8
NOP 4
SUB B8,B9,B8
|| MV B8,B9
CMPEQ B8,B7,B2
|| MV B8,B7
[!B2] ADDAW B4,1,B4
||[!B2] ADDK 1,A4
CMPEQ A4,A6,A2
[!A2] BNOP bus_loop2?,5

```

```

bus_loop2_done?:

```

```

BNOP RA,5
.endasmfunc

```

```

.if __TI_EABI__
.sect ".init_array"
.else
.sect ".pinit"
.endif
.align 4
.long _OPENSSL_rdtsc ; auto-start timer

```

```

print $code;
close STDOUT;

```

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/modexp512-x86\_64.pl

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2.0.16/fips/utl/fips_mem.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/cmac/cmac.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/fips/utl/fips_err.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/cmac/cmac.c

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/armv4-gf2m.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/modes/asm/ghashv8-armx.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/x86_64-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha256-586.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha512-armv8.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/modes/asm/ghash-parisc.pl

```



```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/modes/asm/ghash-x86_64.pl
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/sparcv9-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/x86-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/ppc-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-alpha.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-sparcv9a.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aesni-sha1-x86_64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha512-586.pl
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aesni-x86_64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-thumb.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha512-parisc.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha512-sparcv9.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha512p8-ppc.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha256-armv4.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/s390x-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-armv8.pl
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/modes/asm/ghash-x86.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-sparcv9.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha512-armv4.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/modes/asm/ghash-sparcv9.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aes-c64xplus.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-c64x.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-

```



2.0.16/crypto/bn/asm/x86\_64-gf2m.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aes-armv4.pl

\*

/opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-ppc.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesni-x86.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/mips-mont.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-mips.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/parisc-mont.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-c64xplus.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aes-c64x.pl

\*

/opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-s390x.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-ia64.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86\_64-mont5.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aes-s390x.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-s390x.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86-gf2m.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/s390x-gf2m.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-c64x.pl

\*

/opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-alpha.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aes-mips.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-586.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/sparcv9a-mont.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-ia64.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/via-mont.pl



```

* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aes-586.pl
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-parisc.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha512-s390x.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/alpha-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/ia64-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-x86_64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/armv4-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-mips.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aesv8-armx.pl
*
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aes-ppc.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/asm/ppc64-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/modes/asm/ghash-ia64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aes-parisc.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-c64xplus.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/sha/asm/sha1-armv4-large.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/aes/asm/aes-x86_64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/modes/asm/ghash-armv4.pl

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* This command is intended as a test driver for the FIPS-140 testing
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```

```

*

```



\* Contributed by Steve Marquess.

\*

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\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/sha256.c

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\* The software is originally written by Sheueling Chang Shantz and

\* Douglas Stebila of Sun Microsystems Laboratories.

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- \*
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#!/usr/bin/env perl

#

# =====

# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL  
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# =====

#

# February 2012

#

# The module implements bn\_GF2m\_mul\_2x2 polynomial multiplication  
 # used in bn\_gf2m.c. It's kind of low-hanging mechanical port from  
 # C for the time being... The subroutine runs in 37 cycles, which is  
 # 4.5x faster than compiler-generated code. Though comparison is  
 # totally unfair, because this module utilizes Galois Field Multiply  
 # instruction.

while ((\$output=shift) && (\$output!~/^[w\~]\*\.[w+\$/)) { }  
 open STDOUT,">\$output";

(\$rp,\$a1,\$a0,\$b1,\$b0)=("A4","B4","A6","B6","A8"); # argument  
 vector

(\$Alo,\$Alox0,\$Alox1,\$Alox2,\$Alox3)=map("A\$\_",(16..20));  
 (\$Ahi,\$Ahix0,\$Ahix1,\$Ahix2,\$Ahix3)=map("B\$\_",(16..20));  
 (\$B\_0,\$B\_1,\$B\_2,\$B\_3)=("B5","A5","A7","B7");  
 (\$A,\$B)=(\$Alo,\$B\_1);  
 \$xFF="B1";

sub mul\_1x1\_upper {  
 my (\$A,\$B)=@\_;  
 \$code.=<<\_\_;  
 EXTU \$B,8,24,\$B\_2 ; smash \$B to 4 bytes



```

|| AND $B,$xFF,$B_0
|| SHRU $B,24,$B_3
SHRU $A,16, $Ahi ; smash $A to two halfwords
|| EXTU $A,16,16,$Alo

```

```

XORMPY $Alo,$B_2,$Alox2 ; 16x8 bits muliplication
|| XORMPY $Ahi,$B_2,$Ahix2
|| EXTU $B,16,24,$B_1
XORMPY $Alo,$B_0,$Alox0
|| XORMPY $Ahi,$B_0,$Ahix0
XORMPY $Alo,$B_3,$Alox3
|| XORMPY $Ahi,$B_3,$Ahix3
XORMPY $Alo,$B_1,$Alox1
|| XORMPY $Ahi,$B_1,$Ahix1

```

```

}
sub mul_1x1_merged {
my ($OUTlo,$OUThi,$A,$B)=@_;
$code.=<<____;
EXTU $B,8,24,$B_2 ; smash $B to 4 bytes
|| AND $B,$xFF,$B_0
|| SHRU $B,24,$B_3
SHRU $A,16, $Ahi ; smash $A to two halfwords
|| EXTU $A,16,16,$Alo

```

```

XOR $Ahix0,$Alox2,$Ahix0
|| MV $Ahix2,$OUThi
|| XORMPY $Alo,$B_2,$Alox2
XORMPY $Ahi,$B_2,$Ahix2
|| EXTU $B,16,24,$B_1
||
XORMPY $Alo,$B_0,$A1 ; $Alox0
XOR $Ahix1,$Alox3,$Ahix1
|| SHL $Ahix0,16,$OUTlo
|| SHRU $Ahix0,16,$Ahix0
XOR $Alox0,$OUTlo,$OUTlo
|| XOR $Ahix0,$OUThi,$OUThi
|| XORMPY $Ahi,$B_0,$Ahix0
|| XORMPY $Alo,$B_3,$Alox3
|| SHL $Alox1,8,$Alox1
|| SHL $Ahix3,8,$Ahix3
XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix3,$OUThi,$OUThi
|| XORMPY $Ahi,$B_3,$Ahix3
|| SHL $Ahix1,24,$Alox1
|| SHRU $Ahix1,8, $Ahix1
XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix1,$OUThi,$OUThi

```



```

|| XORMPY $Alo,$B_1,$Alox1
|| XORMPY $Ahi,$B_1,$Ahix1
|| MV A1,$Alox0

}
sub mul_1x1_lower {
my ($OUTlo,$OUThi)=@_;
$code.=<<<____;
;NOP
XOR $Ahix0,$Alox2,$Ahix0
|| MV $Ahix2,$OUTHi
NOP
XOR $Ahix1,$Alox3,$Ahix1
|| SHL $Ahix0,16,$OUTlo
|| SHRU $Ahix0,16,$Ahix0
XOR $Alox0,$OUTlo,$OUTlo
|| XOR $Ahix0,$OUTHi,$OUTHi
|| SHL $Alox1,8,$Alox1
|| SHL $Ahix3,8,$Ahix3
XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix3,$OUTHi,$OUTHi
|| SHL $Ahix1,24,$Alox1
|| SHRU $Ahix1,8,$Ahix1
XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix1,$OUTHi,$OUTHi

}
$code.=<<<____;
.text

.global _bn_GF2m_mul_2x2
_bn_GF2m_mul_2x2:
.asmfunc
MVK 0xFF,$xFF

&mul_1x1_upper($a0,$b0); #
a0b0
$code.=<<<____;
|| MV $b1,$B
MV $a1,$A

&mul_1x1_merged("A28","B28",$A,$B); # a0b0/a1b1
$code.=<<<____;
|| XOR $b0,$b1,$B
XOR $a0,$a1,$A

&mul_1x1_merged("A31","B31",$A,$B); # a1b1/(a0+a1)(b0+b1)
$code.=<<<____;

```



```

XOR A28,A31,A29
|| XOR B28,B31,B29 ; a0b0+a1b1

&mul_1x1_lower("A30","B30"); # (a0+a1)(b0+b1)
$code.=<<____;
|| BNOP B3
XOR A29,A30,A30
|| XOR B29,B30,B30 ; (a0+a1)(b0+b1)-a0b0-a1b1
XOR B28,A30,A30
|| STW A28,*${rp}[0]
XOR B30,A31,A31
|| STW A30,*${rp}[1]
STW A31,*${rp}[2]
STW B31,*${rp}[3]
.endasmfunc

```

```

print $code;
close STDOUT;

```

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```

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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2.0.16/crypto/objects/obj\_dat.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/des/des.h

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/des/des\_locl.h

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/objects/objects.pl

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
2.0.16/crypto/objects/obj\_dat.h

\* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
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 2.0.16/test/fips\_algs.c  
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 2.0.16/fips/ecdsa/fips\_ecdsa\_sign.c  
 \* /opt/ws\_local/PERMITS\_SQL/1031101564\_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-  
 2.0.16/fips/dsa/fips\_dsa\_sign.c

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- \* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

- \* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision



3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp:

These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh,

admin/check-style-common.awk,

admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,

except the first one, were first implemented in the Buildtool project.

They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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-->
```

```
<!-- Id -->
```

```
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
```

```
<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
 <xsl:param name="text"/>
 <xsl:value-of select="$isc.copyright.leader"/>
 <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
 <xsl:text>
</xsl:text>
 <xsl:variable name="rest" select="substring-after($text, '
')"/>
 <xsl:if test="translate($rest, '	 ', ' ')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param
name="text" select="$rest"/>
 </xsl:call-template>
 </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
 <xsl:text>
```



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```
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
 <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:

- mode: sgml

- End:

-->

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The development of Dynamically Loadable Zones



(DLZ) for Bind 9 was  
conceived and contributed by Rob Butler.

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# 1.480 openssl 1.1.1d

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include/bsd/unistd.h  
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src/fgetln.c  
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include/bsd/sys/bitstring.h  
include/bsd/sys/queue.h  
include/bsd/sys/time.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
man/nlist.3bsd  
man/queue.3bsd



man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd  
man/setmode.3bsd  
man/strmode.3bsd  
man/strnstr.3bsd  
man/strtoi.3bsd  
man/strtou.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcslcpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
src/radixsort.c  
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man/fmtcheck.3bsd

man/humanize\_number.3bsd

man/stringlist.3bsd

man/timeval.3bsd

src/fmtcheck.c

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man/closefrom.3bsd  
man/expand\_number.3bsd  
man/flopen.3bsd  
man/getpeereid.3bsd  
man/pidfile.3bsd  
src/expand\_number.c  
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man/readpassphrase.3bsd

man/strncpy.3bsd

man/strtonum.3bsd

src/arc4random.c

src/arc4random\_linux.h

src/arc4random\_openbsd.h

src/arc4random\_uniform.c

src/arc4random\_unix.h

src/arc4random\_win.h

src/closefrom.c

src/getentropy\_aix.c

src/getentropy\_bsd.c

src/getentropy\_hpux.c

src/getentropy\_hurd.c

src/getentropy\_linux.c

src/getentropy\_osx.c

src/getentropy\_solaris.c

src/getentropy\_win.c

src/readpassphrase.c

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# 1.483 lvm2 2.02.180

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# 1.485 xz 5.1.3alpha

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## 1.486 netperf 2.6.0



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- Zlib is now external, in a library

- The make-ssh-known-hosts script is no longer included

- TSS has been removed

- MD5 is now external, in the OpenSSL library

- RC4 support has been replaced with ARC4 support from OpenSSL

- Blowfish is now external, in the OpenSSL library

[The licence continues]



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```
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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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# 1.488 icu 62

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```

```
Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
```

```
Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

```
Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,
```

```
Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

```
Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic
```

```
Shared object suffix
SO = so
Non-shared intermediate object suffix
STATIC_O = ao
```

```
Compilation
rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
```



```
%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

## ## Dependency rules

```
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/^(.*)\.o[:]*/1.o $@ : /g"' > $@; \
[-s $@] || rm -f $@'
```

```
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/^(.*)\.o[:]*/1.o $@ : /g"' > $@; \
[-s $@] || rm -f $@'
```

## ## Versioned libraries rules

```
%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@
```

## ## Bind internal references

```
LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
End BSD-specific setup
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```

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src/preproc/grn/gprint.h  
src/preproc/grn/hdb.cpp  
src/preproc/grn/hgraph.cpp  
src/preproc/grn/hpoint.cpp  
src/preproc/grn/main.cpp



. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c
```

```
src/include/DviChar.h
src/include/XFontName.h
```

```
src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c
```

## Macro Packages

-----

. The -mdoc macro set, using the BSD license.

```
tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
```



tmac/doc-syms  
tmac/groff\_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac  
tmac/groff\_me.man  
doc/meintro.me  
doc/meintro\_fr.me  
doc/meref.me

## Hyphenation Patterns

-----  
The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

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It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyph-t-2017-03-31.pat' and `dehyphn-t-2017-03-31.pat' (for TeX), respectively, which can be found at



<http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl>

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. The file `tmac/hyphen.cs' contains the same patterns as the file  
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```
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```

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```
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```

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

# 1.491 sg3-utils 1.37-12.el7

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Douglas Gilbert

10th April 2012

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It was downloaded from <URL:<http://sg.danny.cz/sg/>>

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## 1.492.1 Available under license :

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card  
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```
#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

all:: image

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

image: \$(BSD\_LIB)

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))
```

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

install-strip: install

install-shlibs-strip:: install-shlibs



uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

clean::

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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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.
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- 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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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:

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# 1.493 dtc 1.4.7

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base64.cpp and base64.h

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L. Peter Deutsch  
ghost@aladdin.com

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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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Michael Hunold <m.hunold@gmx.de>  
for the initial saa7146 driver and its recent overhaul

Christian Theiss  
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>  
Ralph Metzler <rjkm@metzlerbros.de>  
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>  
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>  
for CyberLogin for Linux which allows logging onto EON  
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>



for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>

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

Steve Brown <sbrown@cortland.com>

for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>

for his LIRC infrared handler

Andreas Oberritter

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Dennis Noermann <dennis.noermann@noernet.de>

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Florian Schirmer <jolt@tuxbox.org>

Ronny Strutz <3des@elitedvb.de>

Wolfram Joost <dbox2@frokaschwei.de>

...and all the other dbox2 people

for many bugfixes in the generic DVB Core, frontend drivers and  
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.

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## 1.504 libnl3 1.1.4-3.el7

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Version 2.1, February 1999

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# 1.506 libn13 3.2.25

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Version 2.1, February 1999

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\* /opt/ws\_local/PERMITS\_SQL/1050086594\_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/setuptools.egg-info/PKG-INFO

\* /opt/ws\_local/PERMITS\_SQL/1050086594\_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/PKG-INFO

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```
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-
20.10.1/pkg_resources/_vendor/packaging/requirements.py
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-
20.10.1/pkg_resources/_vendor/packaging/_about_.py
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-
20.10.1/pkg_resources/_vendor/packaging/specifiers.py
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-
20.10.1/pkg_resources/_vendor/packaging/_compat.py
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-
20.10.1/pkg_resources/_vendor/packaging/markers.py
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-
20.10.1/pkg_resources/_vendor/packaging/utils.py
*
```

```
/opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-
20.10.1/pkg_resources/_vendor/packaging/_structures.py
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-
20.10.1/pkg_resources/_vendor/packaging/version.py
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-
20.10.1/pkg_resources/_vendor/packaging/_init_.py
```

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```
=====
Building and Distributing Packages with Setuptools
=====
```

``Setuptools`` is a collection of enhancements to the Python ``distutils`` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using ``setuptools`` look to the user like ordinary Python packages based on the ``distutils``. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By including just a single ``bootstrap module`` (a 12K .py file), your package will automatically download and install ``setuptools`` if the user is building your package from source and doesn't have a suitable version already installed.

```
.. _bootstrap
module: https://bootstrap.pypa.io/easy_install.py
```

#### Feature Highlights:

- \* Automatically find/download/install/upgrade dependencies at build time using the ``EasyInstall`` tool <easy\_install.html>, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)



\* Create `Python Eggs <<http://peak.telecommunity.com/DevCenter/PythonEggs>>` - a single-file importable distribution format

\* Enhanced support for accessing data files hosted in zipped packages.

\* Automatically include all packages in your source tree, without listing them individually in setup.py

\* Automatically include all relevant files in your source distributions, without needing to create a ``MANIFEST.in`` file, and without having to force regeneration of the ``MANIFEST`` file when your source tree changes.

\* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

\* Transparent Pyrex support, so that your setup.py can list ``.pyx`` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

\* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

\* PyPI upload support - upload your source distributions and eggs to PyPI

\* Deploy your project in "development mode", such that it's available on ``sys.path``, yet can still be edited directly from its source checkout.

\* Easily extend the distutils with new commands or ``setup()`` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

\* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of ``setuptools`` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. 0.6 branch: <http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06>

.. Python SVN sandbox: <http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev>

.. contents:: **Table of Contents**

.. ez\_setup.py: `bootstrap module`



## Developer's Guide

### Installing ``setuptools``

Please follow the `EasyInstall Installation Instructions`\_ to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations`\_ if you are installing anywhere other than Python's ``site-packages`` directory.

.. \_EasyInstall Installation Instructions: [easy\\_install.html#installation-instructions](http://easy_install.html#installation-instructions)

..  
\_Custom Installation Locations: [easy\\_install.html#custom-installation-locations](http://easy_install.html#custom-installation-locations)

If you want the current in-development version of setuptools, you should first install a stable version, and then run::

```
ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

### Basic Use

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools::

```
from setuptools import setup, find_packages
setup(
 name = "HelloWorld",
 version = "0.1",
 packages = find_packages(),
)
```

As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.

Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the



setup.py lives. See the ``Command Reference`_` section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke::

```
python setup.py sdist
```

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts::

```
from setuptools import setup, find_packages

setup(
 name = "HelloWorld",
 version = "0.1",
 packages = find_packages(),
 scripts = ['say_hello.py'],

 # Project uses reStructuredText, so ensure that the docutils get
 # installed or upgraded on the target machine
 install_requires = ['docutils>=0.3'],

 package_data = {
 # If any package contains *.txt or *.rst files, include them:
 '': ['*.txt', '*.rst'],
 # And include any *.msg
 'hello': ['*.msg'],
 },

 # metadata for upload to PyPI
 author = "Me",
 author_email = "me@example.com",
 description = "This is an Example Package",
 license = "PSF",
 keywords = "hello world example examples",
 url = "http://example.com/HelloWorld/", # project home page, if any

 # could also include long_description, download_url, classifiers, etc.
)
```

In the sections that follow, we'll explain what most of these ```setup()``` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

## Specifying Your Project's Version



-----

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as ``2.4`` or ``0.5``. Each series of digits is treated numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the same release number, denoting the first subrelease of release 2. But ``2.10`` is the \*tenth\* subrelease of release 2, and so is a different and newer release from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered \*older\* than the version they are appended to. So, revision ``2.4`` is \*newer\* than revision ``2.4c1``, which in turn is newer than ``2.4b1`` or ``2.4a1``. Postrelease tags make a version be considered \*newer\* than the version they are appended to. So, revisions like ``2.4-1`` and ``2.4pl3`` are newer than ``2.4``, but are \*older\* than ``2.4.1`` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include ``alpha``, ``beta``, ``a``, ``c``, ``dev``, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, ``2.4c1`` and ``2.4.c1`` and ``2.4-c1`` all represent release candidate 1 of version ``2.4``, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter ``c``: ``pre``, ``preview``, and ``rc``. So, version ``2.4rc1``, ``2.4pre1`` and ``2.4preview1`` are all the exact same version as ``2.4c1``, and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (``-``). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped post-release.



Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, ``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that ``dev`` is a pre-release tag, so this version is a *lower* version number than ``0.6a9``, which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the

most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

- \* Don't stick adjoining pre-release tags together without a dot or number between them. Version ``1.9adev`` is the ``adev`` prerelease of ``1.9``, *not* a development pre-release of ``1.9a``. Use ``.dev`` instead, as in ``1.9a.dev``, or separate the prerelease tags with a number, as in ``1.9a0dev``. ``1.9a.dev``, ``1.9a0dev``, and even ``1.9.a.dev`` are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

- \* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the ``pkg\_resources.parse\_version()`` function to compare different version numbers::

```
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True
```

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

- \* ``Tagging and "Daily Build" or "Snapshot" Releases`_`
- \* ``Managing "Continuous Releases" Using Subversion`_`
- \* The ``egg_info`_` command

New and Changed ``setup()`` Keywords

=====

The following keyword arguments to ``setup()`` are added or changed by ``setuptools``. All of them are optional; you do not have to supply them unless you need the associated ``setuptools`` feature.



#### ```include_package_data```

If set to ```True```, this tells ```setuptools``` to automatically include any data files it finds inside your package directories that are specified by your ```MANIFEST.in``` file. For more information, see the section below on ```Including Data Files```.

#### ```exclude_package_data```

A dictionary mapping package names to lists of glob patterns that should be *\*excluded\** from your package directories. You can use this to trim back any excess files included by ```include_package_data```. For a complete description and examples, see the section below on ```Including Data Files```.

#### ```package_data```

A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on ```Including Data Files```. You do not need to use this option if you are using ```include_package_data```, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

#### ```zip_safe```

A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the ```bdist_egg``` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

#### ```install_requires```

A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on ```Declaring Dependencies``` for details and examples of the format of this argument.

#### ```entry_points```

A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See ```Dynamic Discovery of Services and Plugins``` for details and examples of the format of this argument. In addition, this keyword is used to support ```Automatic Script Creation```.

#### ```extras_require```

A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on ```Declaring Dependencies``` for details and examples of the format of this argument.



```setup_requires```

A string or list of strings specifying what other distributions need to be present in order for the `*setup script*` to run. ```setuptools``` will attempt to obtain these (even going so far as to download them using ```EasyInstall```) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process `setup()` arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in ```setup_requires``` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the `./eggs` directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script

is run, you should add them to ```install_requires```

`**and** ``setup_requires```.)

```dependency_links```

A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by ```setup_requires``` or ```tests_require```. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an ```.egg``` file.

```namespace_packages```

A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's ```zope``` package is a namespace package, because subpackages like ```zope.interface``` and ```zope.publisher``` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace

package, and as long as the namespace package's ```__init__.py```

does not contain any code other than a namespace declaration. See the section below on ```Namespace Packages``` for more information.

```test_suite```

A string naming a ```unittest.TestCase``` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a ```unittest.TestSuite```. If the named suite is a module, and the module has an ```additional_tests()``` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the ```test``` command to run the



specified test suite, e.g. via ``setup.py test``. See the section on the ``test`` command below for more details.

#### ``tests\_require``

If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the ``test`` command, ``setuptools`` will attempt to obtain these (even going so far as to download them using ``EasyInstall``). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

#### .. \_test\_loader:

#### ``test\_loader``

If you would like to use a different way of finding tests to run than what setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the ``loadTestsFromNames()`` method as defined in the Python ``unittest`` module's ``TestLoader``

class. Setuptools will pass only one test "name" in the ``names`` argument: the value supplied for the ``test\_suite`` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a ``test\_suite`` string.

The module name and class name must be separated by a ``:``. The default value of this argument is ``"setuptools.command.test:ScanningLoader"``. If you want to use the default ``unittest`` behavior, you can specify ``"unittest:TestLoader"`` as your ``test\_loader`` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the ``tests\_require`` option to ensure that the package containing the loader class is available when the ``test`` command is run.

#### ``eager\_resources``

A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be `/`-separated paths, relative to the source root, so to list a resource `foo.png` in package `bar.baz`, you would include the string



```bar/baz/foo.png``` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on ``Automatic Resource Extraction`_`.

```use_2to3```

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See `:doc:`python3`` for more details.

```convert_2to3_doctests```

List of doctest source files that need to be converted with 2to3. See `:doc:`python3`` for more details.

```use_2to3_fixers```

A list of modules to search for additional fixers to be used during the 2to3 conversion. See `:doc:`python3`` for more details.

Using ```find_packages()```

-----

For simple projects, it's usually easy enough to manually add packages to the ```packages``` argument of ```setup()```. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what ```setuptools.find_packages()``` is for.

```find_packages()``` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same

directory as the setup script. Some projects use a ```src``` or ```lib``` directory as the root of their source tree, and those projects would of course use ```"src"``` or

```"lib"``` as the first argument to ```find_packages()```. (And such projects also need something like ```package_dir = {'': 'src'}``` in their ```setup()``` arguments, but that's just a normal distutils thing.)

Anyway, ```find_packages()``` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an ```__init__.py``` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, ```find_packages(exclude=["*.tests"])``` will exclude all packages whose



last name part is `tests`. Or, `find_packages(exclude=["*.tests", "*.tests.*"])` will also exclude any subpackages of packages named `tests`, but it still won't exclude a top-level `tests` package or the children thereof. In fact, if you really want no `tests` packages at all, you'll need something like this::

```
find_packages(exclude=["*.tests", "*.tests.*", "tests.*", "tests"])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

#### Automatic Script Creation

=====

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main"

is a function in a module somewhere. And even in Python 2.4, using the `-m` option only works for actual `.py` files that aren't installed in a package.

`setuptools` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an `.exe` file so that users don't have to change their `PATHEXT` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called `foo` and `bar`, and a GUI script called `baz`, you might do something like this::

```
setup(
 # other arguments here...
 entry_points={
 'console_scripts': [
 'foo = my_package.some_module:main_func',
 'bar = other_module:some_func',
],
 'gui_scripts': [
 'baz = my_package_gui:start_func',
```



```
]
 }
)
```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of ``foo``, ``bar``, and ``baz`` scripts will be installed that import ``main\_func`` and ``some\_func`` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to ``sys.exit()``, so you can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The ``.exe`` wrappers find and execute the right version of Python to run the ``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to ``sys.path`` when the script is run. For more information on "extras", see the section below on `Declaring Extras`\_.

For more information on "entry points" in general, see the section below on `Dynamic Discovery of Services and Plugins`\_.

## "Eggsecutable" Scripts

-----

Occasionally, there are situations where it's desirable to make an ``.egg`` file directly executable. You can do this by including an entry point such as the following::

```
setup(
 # other arguments here...
 entry_points = {
 'setuptools.installation': [
 'eggsecutable = my_package.some_module:main_func',
]
 }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls ``main\_func()`` from ``my\_package.some\_module``. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with ``/bin/sh``, or by enabling execute permissions on the ``.egg`` file. For the executable prelude to run, the appropriate version of Python must be available via the ``PATH`` environment variable,



under its  
"long" name. That is, if the egg is built for Python 2.3, there must be a  
``python2.3`` executable present in a directory on ``PATH``.

This feature is primarily intended to support ez\_setup the installation of  
setuptools itself on non-Windows platforms, but may also be useful for other  
projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or  
invoked via symlinks. They *must* be invoked using their original filename, in  
order to ensure that, once running, ``pkg\_resources`` will know what project  
and version is in use. The header script will check this and exit with an  
error if the ``.egg`` file has been renamed or is invoked via a symlink that  
changes its base name.

## Declaring Dependencies

=====

``setuptools`` supports automatically installing dependencies when a package is  
installed, and including information about dependencies in Python Eggs (so that  
package management tools like EasyInstall can use the information).

``setuptools``  
and ``pkg\_resources`` use a common syntax for specifying a  
project's required dependencies. This syntax consists of a project's PyPI  
name, optionally followed by a comma-separated list of "extras" in square  
brackets, optionally followed by a comma-separated list of version  
specifiers. A version specifier is one of the operators ``<``, ``>``, ``<=``,  
``>=``, ``==`` or ``!=``, followed by a version identifier. Tokens may be  
separated by whitespace, but any whitespace or nonstandard characters within a  
project name or version identifier must be replaced with ``-``.

Version specifiers for a given project are internally sorted into ascending  
version order, and used to establish what ranges of versions are acceptable.  
Adjacent redundant conditions are also consolidated (e.g. ``">1, >2"`` becomes  
``">1"``), and ``"<2, <3"`` becomes ``"<3"``). ``"!="`` versions are excised from  
the ranges they fall within. A project's version is then checked for  
membership in the resulting  
ranges. (Note that providing conflicting conditions  
for the same version (e.g. "<2, >=2" or "==2, !=2") is meaningless and may  
therefore produce bizarre results.)

Here are some example requirement specifiers::

```
docutils >= 0.3
```

```
comment lines and \ continuations are allowed in requirement strings
```



```
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
==1.6, ==1.7 # and so are line-end comments
```

```
PEAK[FastCGI, reST]>=0.5a4
```

```
setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the `install_requires` argument to `setup()`. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, `setup.py install`, or `setup.py develop`, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.
2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).
3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as long as you either install the project or use `setup.py develop` to do development work on it. (See "Development Mode" below for more details on using `setup.py develop`.)

#### Dependencies that aren't in PyPI

-----

If your project depends on packages that aren't registered in PyPI, you may still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils `sdist` format,
- a single `.py` file,
- or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to `setup()`.



The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `.py` file, you must include an `#egg=project-version` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single `.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version` in order to identify for what package that checkout should be used. You can append `@REV` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:

```
vcsvs+proto://host/path@revision#egg=project-version
```

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the `requires` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg`.

The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed::

```
setup(
```



```

...
dependency_links = [
 "http://peak.telecommunity.com/snapshots/"
],
)

```

.. \_Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

-----

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their ``install\_requires``.

For example, let's say that Project A offers optional PDF and reST support::

```

setup(
 name="Project-A",

 ...
 extras_require = {
 'PDF': ["ReportLab>=1.2", "RXP"],
 'reST': ["docutils>=0.3"],
 }
)

```

As you can see, the ``extras\_require`` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *\*not\** be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points`\_ to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```

setup(
 name="Project-A",

```



```

...
entry_points = {
 'console_scripts': [
 'rst2pdf = project_a.tools.pdfgen
[PDF]',
 'rst2html = project_a.tools.htmlgen',
 # more script entry points ...
],
}
)

```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```

setup(
 name="Project-B",
 install_requires = ["Project-A[PDF]"],
 ...
)

```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its ``extras\_require`` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```

setup(
 name="Project-A",
 ...
 extras_require = {
 'PDF': [],
 'reST': ["docutils>=0.3"],
 }
)

```

so that Package B doesn't have to remove the ``[PDF]`` from its requirement



specifier.

## Including Data Files

=====

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the ``include\_package\_data`` keyword, e.g.::

```
from setuptools import setup, find_packages
setup(
 ...
 include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils' ``MANIFEST.in`` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems`\_ for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the ``package\_data`` keyword, e.g.::

```
from setuptools import setup, find_packages
setup(
 ...
 package_data = {
 # If any package contains *.txt or *.rst files, include them:
 '': ['*.txt', '*.rst'],
 # And include any *.msg files found in the 'hello' package, too:
 'hello': ['*.msg'],
 }
)
```

The ``package\_data`` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the



package tree looks like this::

```
setup.py
src/
 mypkg/
 __init__.py
 mypkg.txt
 data/
 somefile.dat
 otherdata.dat
```

The setuptools setup file might look like this::

```
from setuptools import setup, find_packages
setup(
 ...
 packages = find_packages('src'), # include all packages under src
 package_dir = {'': 'src'}, # tell distutils packages are under src

 package_data = {

If any package contains *.txt files, include them:
 '': ['*.txt'],
 # And include any *.dat files found in the 'data' subdirectory
 # of the 'mypkg' package, also:
 'mypkg': ['data/*.dat'],
 }
)
```

Notice that if you list patterns in ``package\_data`` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (``/``) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the ``package\_data`` argument was previously only available in ``setuptools``, it was also added to the Python ``distutils`` package as of Python 2.4; there is [some documentation for the feature](http://docs.python.org/dist/node11.html) <sup>\_\_</sup> available on the [python.org](http://docs.python.org/dist/node11.html) website. If using the setuptools-specific ``include\_package\_data`` argument, files specified by ``package\_data`` will *not* be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

<sup>\_\_</sup> <http://docs.python.org/dist/node11.html>



Sometimes, the ``include\_package\_data`` or ``package\_data`` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an ``exclude\_package\_data`` option as well, that allows you to do things like this::

```
from setuptools import setup, find_packages
setup(
 ...
 packages = find_packages('src'), # include all packages under src
 package_dir = {'': 'src'}, # tell distutils packages are under src

 include_package_data = True, # include everything in source control

 # ...but exclude README.txt from all packages
 exclude_package_data = { '': ['README.txt'] },
)
```

The ``exclude\_package\_data`` option is a dictionary mapping package names to lists of wildcard patterns, just like the ``package\_data`` option. And, just as with that option, a key of ``''`` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in ``package\_data`` or were included as a result of using ``include\_package\_data``.

In summary, the three options allow you to:

``include\_package\_data``

Accept all data files and directories matched by ``MANIFEST.in``.

``package\_data``

Specify additional patterns to match files and directories that may or may not be matched by ``MANIFEST.in`` or found in source control.

``exclude\_package\_data``

Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run ``setup.py clean --all`` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run ``setup.py clean --all``.



## Accessing Data Files at Runtime

-----

Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource`

Management API of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of `setuptools`, so if you're using `setuptools` to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

.. `_Resource Management API`: <http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management>

.. `_Accessing Package Resources`: <http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources>

## Non-Package Data Files

-----

The `distutils` normally install general "data files" to a platform-specific location (e.g. `usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`, by specifying a `Requirement` instead of a package name::

```
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"), "sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the `shutil` module. (Even if your package



is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

#### Automatic Resource Extraction

-----

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `eager_resources` argument to `setup()`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries \*other\* than distutils-built C extensions, and those shared libraries use file extensions other than `.dll`, `.so`, or `.dylib`, which are the extensions that `setuptools` 0.6a8 and higher automatically detects as shared libraries and adds to the `native_libs.txt` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `eager_resources`, because they need to be present in the filesystem when the C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract \*all\* C extensions and `eager_resources` at the same time, whenever \*any\* C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in `eager_resources` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of `eager_resources` being relevant to your project.



## Extensible Applications and Frameworks

=====

.. \_Entry Points:

### Dynamic Discovery of Services and Plugins

-----

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called ``blogtool.parsers``, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an ``.rst`` file parser entry point in the ``blogtool.parsers`` entry point group, for our hypothetical blogging tool::

```
setup(
 # ...
 entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```
setup(
 # ...
 entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
```



```

)

setup(
 # ...
 entry_points = """
 [blogtool.parsers]
 .rst = some.nested.module:SomeClass.some_classmethod [reST]
 """,
 extras_require = dict(reST = "Docutils>=0.3.5")
)

```

The ``entry\_points`` argument to ``setup()`` accepts either a string with ``.ini``-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an ``=`` sign. The value consists of a dotted module name, optionally followed by a ``:`` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to ``pkg\_resources.require()`` , so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

## Defining Additional Metadata

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the ``pkg\_resources`` metadata APIs.

Ordinarily, this is done by having plugin developers include additional files in their ``ProjectName.egg-info`` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to ``setup()`` , in much the same way that ``setuptools`` does for many of the ``setup()`` arguments it adds. See the section below on ``Creating distutils Extensions`_` for more details, especially the subsection on ``Adding new EGG-INFO Files`_`.

## "Development Mode"

Under normal circumstances, the ``distutils`` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt"



form. If you were to use the ``distutils`` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the ``distutils`` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the ``setup.py develop`` command. It works very similarly to ``setup.py install`` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special ``.egg-link`` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's ``site-packages`` directory, it will also update the ``easy-install.pth`` file to include your project's source code, thereby making it available on ``sys.path`` for all programs using that Python installation.

If you have enabled the ``use\_2to3`` flag, then of course the ``.egg-link`` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the ``setup.py develop`` will build Python 3 code under the ``build`` directory, and link there. This means that after doing code changes you will have to run ``setup.py build`` before these changes are picked up by your Python 3 installation.

In addition, the ``develop`` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your ``install\_requires`` packages are available on ``sys.path``.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using ``setup.py develop --uninstall``, specifying the desired staging area if it's not the default.



There are several options to control the precise behavior of the ``develop`` command; see the section on the ``develop``\_ command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this::

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a ``setuptools``-based project

=====

Using ``setuptools``... Without bundling it!

-----

Your users might not have ``setuptools`` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download ``ez\_setup.py``, and put it in the same directory as your ``setup.py`` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

```
.. code-block:: python
```

```
import ez_setup
ez_setup.use_setuptools()
```

That's it. The ``ez\_setup`` module will automatically download a matching version of ``setuptools`` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' ``ez\_setup.py`` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use ``setup.py sdist upload`` or ``setup.py bdist\_egg upload`` to upload your source or egg distributions respectively. Your project's current version must be registered

with PyPI first, of course; you can use ``setup.py register`` to do that. Or you can do it all in one step, e.g. ``setup.py register sdist bdist\_egg upload`` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.



(By the way, if you need to distribute a specific version of `setuptools`, you can specify the exact version and base download URL as parameters to the `use_setuptools()` function. See the function's docstring for details.)

## What Your Users Should Know

-----

In general, a `setuptools`-based project looks just like any `distutils`-based project -- as long as your users have an internet connection and are installing to `site-packages`, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a `setuptools`-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with `setuptools` and `easy_install`.

### Network Access

If your project is using `ez_setup`, you should inform users of the need to either have network access, or to preinstall the correct version of `setuptools` using the `EasyInstall` installation instructions\_. Those instructions also have tips for dealing with firewalls as well as how to manually download and install `setuptools`.

### Custom Installation Locations

You should inform your users that if they are installing your project to somewhere other than the main `site-packages` directory, they should first install `setuptools` using the instructions for `Custom Installation Locations`\_, before installing your project.

### Your Project's Dependencies

If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the `-f` option of `easy_install` to specify the directory



to find eggs in. Users who have full network access can just use `--find-links` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

#### Revision Control System Users and Co-Developers

Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to

run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

#### Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't `easy_install`! Setuptools currently supports `bdist_rpm`, `bdist_wininst`, and `bdist_dumb` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils `install` command, it should be able to work with `setuptools`. Some examples of "bdist" formats that this should work with include the `bdist_nsi` and `bdist_msi` formats for Windows.

However, packaging tools that build binary distributions by running `setup.py install` on the command line or as a subprocess will require modification to work with setuptools. They should use the `--single-version-externally-managed` option to the `install` command, combined with the standard `--root` or `--record` options. See the `install command` documentation below for more details. The `bdist_deb` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.



## Setting the ``zip\_safe`` flag

-----

For some use cases (such as bundling as part of a larger application), Python packages may be run directly from a zip file.

Not all packages, however, are capable of running in compressed form, because they may expect to be able to access

either source code or data files as

normal operating system files. So, ``setuptools`` can install your project as a zipfile or a directory, and its default choice is determined by the project's ``zip\_safe`` flag.

You can pass a True or False value for the ``zip\_safe`` argument to the ``setup()`` function, or you can omit it. If you omit it, the ``bdist\_egg`` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the ``bdist\_egg`` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no ``\_\_file\_\_`` or ``\_\_path\_\_`` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses ``pkg\_resources`` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime`\_ section above for more information.)

However, if ``bdist\_egg`` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set ``zip\_safe`` to ``True`` in your ``setup()`` call. If it turns out that it doesn't work, you can always change it to ``False``, which will force ``setuptools`` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run ``setup.py easy\_install --zip-ok`` or ``setup.py easy\_install --always-unzip`` in your project directory. to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the ``pkg\_resources`` runtime, the



"zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `True` or `False` for the `zip_safe` flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

## Namespace Packages

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location.

"Namespace packages"

are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its `__init__.py`, and that it is merely a container for modules and subpackages.

The `pkg_resources` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The `namespace_packages` argument to `setup()` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this::

```
setup(
 # ...
 namespace_packages = ['zope']
)
```

because it contains a `zope.interface` package that lives in the `zope` namespace package. Similarly, a project for a standalone `zope.publisher` would also declare the `zope` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" `zope` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's `zope.app` package is a namespace package, and in the future PEAK's `peak.util` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' `__init__.py` files (and the `__init__.py` of any parent packages), in a normal Python package layout. These `__init__.py` files *must* contain the line::



```
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's `__init__.py`. Even though it may appear to work during development, or when projects are installed as `.egg` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the `__init__.py` files will not be installed, let alone executed.

You must include the `declare_namespace()` line in the `__init__.py` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of `__init__.py` is loaded first. If the first loaded `__init__.py` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

#### TRANSITIONAL NOTE

~~~~~

Setuptools automatically calls `declare_namespace()` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the `pkg_resources` runtime, and also the need for `pkg_resources` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing `declare_namespace()` calls in your `__init__.py` files, and you should correct these as soon as possible before the compatibility support is removed.

Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases

-----



When a set of related projects are under development, it may be important to track finer-grained version increments than you would

normally use for e.g.

"stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, ``setuptools`` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

- \* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (`--tag-build=STRING, -bSTRING`)

- \* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (`--tag-svn-revision, -r`)

- \* An 8-character representation of the build date (`--tag-date, -d`), as a postrelease tag

You can add these tags by adding `egg_info` and the desired options to the command line ahead of the `sdist` or `bdist` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info` command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version` for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like::

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three



that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the ``alias`_` command, which would let each package define an alias like ``daily`` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run ``setup.py daily`` in each project directory. (And, you could also define sitewide or per-user default versions of the ``daily`` alias, so that projects that didn't define their own would use the appropriate defaults.)

## Generating Source Distributions

-----

``setuptools``

enhances the distutils' default algorithm for source file selection with pluggable endpoints for looking up files to include. If you are using a revision control system, and your source distributions only need to include files that you're tracking in revision control, use a corresponding plugin instead of writing a ``MANIFEST.in`` file. See the section below on ``Adding Support for Revision Control Systems`_` for information on plugins.

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a ``MANIFEST.in`` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with ``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's ``.egg-info`` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its ``sdist`` command omits nearly all of the options that the distutils' more complex ``sdist`` process requires. For all practical purposes, you'll probably use only the ``--formats`` option, if you use any option at all.

## Making your package available for EasyInstall

-----



If you use the `register` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the `docs` for the register command for more details.)

.. `_docs` for the register command: <http://docs.python.org/dist/package-index.html>

If

you also use the `upload` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

`url` and `download_url`

These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links

`long_description`

EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary

link" if it is a link to a .tar.gz, .tgz, .zip,

.egg, .egg.zip, .tar.bz2, or .exe file, or if it has an `#egg=project` or

`#egg=project-version` fragment identifier attached to it. EasyInstall

attempts to determine a project name and optional version number from the text of a primary link \*without\* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your `url` or `download_url` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either `#egg=project` or `#egg=project-version` added to the URL. You should replace `project` and `version` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)



Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the ``#egg=`` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ``#egg=projectname-dev``), so that users can do something like this::

```
easy_install --editable projectname==dev
```

in order to check out the in-development version of ``projectname``.

### Managing "Continuous Releases" Using Subversion

-----

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's ``setup.cfg`` file:

.. code-block:: ini

```
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell ``setuptools`` to generate package version numbers like ``1.0a1.dev-r1263``, which will be considered to be an *older* release than ``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg infrastructure (including ``setuptools``, ``pkg\_resources`` and EasyInstall) will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be the *next* version of your software, not the last released version.

Alternately, you can leave out the ``tag\_build=.dev``, and always use the *last* release as a version number, so that your post-1.0 builds are labelled ``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)



Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an ```#egg=projectname-dev``` suffix. This allows users to request EasyInstall to download ```projectname==dev``` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your ```install_requires``` (or other requirements) to include ```==dev```, e.g.:

```
.. code-block:: python
```

```
install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]
```

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an ```#egg=OtherProject-dev``` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run ```setup.py develop``` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ```develop``` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run ```setup.py develop``` after every update in order to keep their checkout completely in sync.

## Making "Official" (Non-Snapshot) Releases

~~~~~

When

you make an official release, creating source or binary distributions, you will need to override the tag settings from ```setup.cfg```, so that you don't end up registering versions like ```foobar-0.7a1.dev-r34832```. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to ```setup.cfg``` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```



The first part of this command (``egg_info -RDb ""``) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your ``setup.py``, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

```
python setup.py alias -u release egg_info -RDb ""
```

You can then use it like this::

```
python setup.py release sdist bdist_egg register upload
```

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the ``egg_info`` and ``alias`` commands for more ideas.

## Distributing Extensions compiled with Pyrex

-----

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, *\*not\** ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list ``*.pyx`` files as the source of your ``Extension`` objects in the setup script. ``setuptools`` will detect at build time whether Pyrex is installed or not. If it is, then ``setuptools`` will use it. If not, then ``setuptools`` will silently change the ``Extension`` objects to refer to the ``*.c`` counterparts of the ``*.pyx`` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original ``*.pyx`` files. This means that you will probably want to include current ``*.c`` files in your revision control system, rebuilding them whenever you check changes in for the ``*.pyx`` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

-----



-----

.. \_alias:

``alias`` - Define shortcuts for commonly used commands

=====

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different ``egg\_info`` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using ``setup.py alias aliasname expansion``, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various ``egg\_info`` tagging options::

```
setup.py alias --global-config daily egg_info --tag-svn-revision \
 --tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.::

```
setup.py daily bdist_egg # generate a daily-build .egg file
setup.py daily sdist # generate a daily-build source distro
setup.py daily sdist bdist_egg # generate both
```

The above commands are interpreted as if the word ``daily`` were replaced with ``egg\_info --tag-svn-revision --tag-build=development``.

Note that setuptools will expand each alias \*at most once\* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the ``bdist\_egg`` command so that it always runs the ``rotate`` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on ``bdist\_egg`` because the alias is only expanded once when



used.

You

can remove a defined alias with the `--remove` (or `-r`) option, e.g.:

```
setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options` (listed under the `saveopts` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the `alias` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

`bdist_egg` - Create a Python Egg for the project

=====

This command generates a Python Egg (`.egg` file) for the project.

Python

Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (`.egg-info`) directory. If you have added any extra metadata files to the `.egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may be occasionally useful:

```
--dist-dir=DIR,
-d DIR
```

Set the directory where the `.egg` file will be placed. If you don't supply this, then the `--dist-dir` setting of the `bdist` command



will be used, which is usually a directory named ``dist`` in the project directory.

`--plat-name=PLATFORM, -p PLATFORM`

Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

`--exclude-source-files`

Don't include any modules' ``.py`` files in the egg, just compiled Python,

C, and data files. (Note that this doesn't affect any ``.py`` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a ``.py`` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's ``traceback`` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar ``bdist`` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

`--keep-temp, -k`

Keep the contents of the ``--bdist-dir`` tree around after creating the ``.egg`` file.

`--bdist-dir=DIR, -b DIR`

Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the ``.egg`` file, after running various installation commands to copy the package's modules, data, and extensions here.

`--skip-build`

Skip doing any "build" commands; just go straight to the install-and-compress phases.



.. \_develop:

```develop``` - Deploy the project source in "Development Mode"

=====

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The ```develop``` command works by creating an ```.egg-link``` file (named for the project) in the given staging area. If the staging area is Python's ```site-packages``` directory, it also updates an ```easy-install.pth``` file so that the project is on ```sys.path``` by default for all programs run using that Python installation.

The ```develop``` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on ```sys.path``` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the ```develop``` command invokes the ```build_ext -i``` command to ensure any C extensions in the project have been built and are up-to-date, and the ```egg_info``` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the ```develop``` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning ```develop```, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the ```develop``` or ```test``` commands to keep the distribution updated.

Here are some of the options that the ```develop``` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use ```--exclude-scripts``` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the ```develop``` command, if you need finer control over the installation options for dependencies.

```--uninstall, -u```



Un-deploy the current project. You may use the `--install-dir` or `-d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `-x`) option when you run `develop` to deploy the project.

`--multi-version, -m`

"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or EasyInstall. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `-d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

`--install-dir=DIR, -d DIR`

Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the `site-packages` directory, but if you are using distutils configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

`--script-dir=DIR, -s DIR`

Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an `--install-dir` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.



`--exclude-scripts, -x`

Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

`--always-copy, -a`

Copy all needed distributions to the staging area, even if they are already present in another directory on `sys.path`. By default, if a requirement can be met using a distribution that is already available in a directory on `sys.path`, it will not be copied to the staging area.

`--egg-path=DIR`

Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the `develop` command also accepts all of the same options accepted by `easy_install`. If you've configured any `easy_install` settings in your `setup.cfg` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `[develop]` section or on the command line.

`easy_install` - Find and install packages

=====

This command runs the `EasyInstall` tool `<easy_install.html>` for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the `EasyInstall` documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

- \* create command aliases that use it,
- \* create distutils extensions that invoke it as a subcommand, and
- \* configure options for it in your `setup.cfg` or other distutils config files.



.. \_egg\_info:

```egg_info``` - Create egg metadata and set build tags

=====

This command performs two operations: it updates a project's ```.egg-info``` metadata directory (used by the ```bdist_egg```, ```develop```, and ```test``` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the ```sdist```, ```bdist_egg```, ```develop```, ```register```, and ```test``` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while executing other commands. (It also generates the ```.egg-info/SOURCES.txt``` manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by ```setuptools``` and required by ```pkg_resources```, this command can be extended to write other metadata files as well, by defining entry points in the ```egg_info.writers``` group. See the section on `Adding new EGG-INFO Files`_` below for more details. Note that using additional metadata writers may require you to include a ```setup_requires``` argument to ```setup()``` in order to ensure that the desired writers are available on ```sys.path```.

Release Tagging Options

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:

```--tag-build=NAME, -b NAME```

Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off ```--tag-build``` and then use one or both of the following options.)

If you have a default build tag set in your ```setup.cfg```, you can suppress it on the command line using ```-b ""``` or ```--tag-build=""``` as an argument to the ```egg_info``` command.



`--tag-svn-revision, -r`

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form `-rNNNN` to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a `-rNNNN` string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with `-r` and a number, then `-r0` is used.

`--no-svn-revision, -R`

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

`--tag-date, -d`

Add a date stamp of the form `-YYYYMMDD` (e.g. `-20050528`) to the project's version number.

`--no-date, -D`

Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other `egg_info` Options

-----



`--egg-base=SOURCEDIR, -e SOURCEDIR`

Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a `src` or `lib` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `package_dir` argument to the `setup()` function, if any. If there is no `package_dir` set, this option defaults to the current directory.

## `egg_info` Examples

-----

Creating a dated "nightly build" snapshot egg::

```
python setup.py egg_info --tag-date --tag-build=DEV bdist_egg
```

Creating and uploading a release with no version tags, even if some default tags are specified in `setup.cfg`::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

(Notice that `egg_info` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. `_install` command:

`install` - Run `easy_install` or old-style installation

=====

The `setuptools install` command is basically a shortcut to run the `easy_install` command on the current project. However, for convenience in creating "system packages" of `setuptools`-based projects, you can also use this option:

`--single-version-externally-managed`

This boolean option tells the `install` command to perform an "old style" installation, with the addition of an `.egg-info` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the `--root` or `--record` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when `install` is invoked by another `distutils` command, so that commands like `bdist_wininst` and `bdist_rpm`



will create system packages of eggs. It is also automatically in effect if you specify the ``--root`` option.

``install\_egg\_info`` - Install an ``.egg-info`` directory in ``site-packages``

=====

#### Setuptools

runs this command as part of ``install`` operations that use the ``--single-version-externally-managed`` options. You should not invoke it directly; it is documented here for completeness and so that distutils extensions such as system package builders can make use of it. This command has only one option:

``--install-dir=DIR, -d DIR``

The parent directory where the ``.egg-info`` directory will be placed. Defaults to the same as the ``--install-dir`` option specified for the ``install\_lib`` command, which is usually the system ``site-packages`` directory.

This command assumes that the ``egg\_info`` command has been given valid options via the command line or ``setup.cfg``, as it will invoke the ``egg\_info`` command and use its options to locate the project's source ``.egg-info`` directory.

.. \_rotate:

``rotate`` - Delete outdated distribution files

=====

As you develop new versions of your project, your distribution (``dist``) directory will gradually fill up with older source and/or binary distribution files. The ``rotate`` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``

Comma-separated list of glob patterns to match. This option is *\*required\**. The project name and ``-\*`` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like ``.zip`` or ``.egg`` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``

Number of matching distributions to keep. For each group of files



identified by a pattern specified with the ``--match`` option, delete all but the COUNT most-recently-modified files in that group. This option is *\*required\**.

``--dist-dir=DIR, -d DIR``

Directory where the distributions are. This defaults to the value of the ``bdist`` command's ``--dist-dir`` option, which will usually be the project's ``dist`` subdirectory.

**\*\*Example 1\*\*:** Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::

```
setup.py rotate --match=.tar.gz --keep=3
```

**\*\*Example 2\*\*:** Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

```
setup.py rotate --match=py2.3*.egg,py2.4*.egg --keep=1
```

.. \_saveopts:

``saveopts`` - Save used options to a configuration file

=====

Finding and editing ``distutils`` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form

to the proper configuration file format. You can avoid these hassles by using the ``saveopts`` command. Just add it to the command line to save the options you used. For example, this command builds the project using the ``mingw32`` C compiler, then saves the ``--compiler`` setting as the default for future builds (even those run implicitly by the ``install`` command)::

```
setup.py build --compiler=mingw32 saveopts
```

The ``saveopts`` command saves all options for every command specified on the command line to the project's local ``setup.cfg`` file, unless you use one of the ``configuration file options`_` to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration::

```
setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the ``saveopts`` command on the command line; it will still save all the options specified for all commands. For



example, this is another valid way to spell the last example::

```
setup.py saveopts -g build --compiler=mingw32
```

Note, however, that all of the commands specified are always run, regardless of where ``saveopts`` is placed on the command line.

## Configuration File Options

-----

Normally, settings such as options and aliases are saved to the project's local ``setup.cfg`` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

`--global-config, -g`

Save settings to the global ``distutils.cfg`` file inside the ``distutils`` package directory. You must have write access to that directory to use this option. You also can't combine this option with ``-u`` or ``-f``.

`--user-config, -u`

Save settings to the current user's ``~/pydistutils.cfg`` (POSIX) or ``\$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option with ``-g`` or ``-f``.

`--filename=FILENAME,`

`-f FILENAME`

Save settings to the specified configuration file to use. You can't combine this option with ``-g`` or ``-u``. Note that if you specify a non-standard filename, the ``distutils`` and ``setuptools`` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other ``setuptools`` commands that modify configuration files, such as the ``alias``\_ and ``setopt``\_ commands.

.. \_setopt:

`--setopt` - Set a distutils or setuptools option in a config file

=====

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**\*\*Example 1\*\*.** Set the default C compiler to ``mingw32`` (using long option names)::



```
setup.py setopt --command=build --option=compiler --set-value=mingw32
```

**\*\*Example**

**2\*\*.** Remove any setting for the distutils default package installation directory (short option names)::

```
setup.py setopt -c install -o install_lib -r
```

Options for the ``setopt`` command:

``--command=COMMAND, -c COMMAND``

Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``

The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``

The value to set the option to. Not needed if ``-r`` or ``--remove`` is set.

``--remove, -r``

Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options`\_ (listed under the `saveopts`\_ command, above) to determine which distutils configuration file the option will be added to (or removed from).

.. \_test:

``test`` - Build package and run a unittest suite

=====

When doing test-driven development, or running automated builds that need testing

before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the ``develop`` command. The ``test`` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on ``sys.path``, after first running ``build\_ext -i`` and ``egg\_info`` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a ``unittest`` test suite by either a function, a ``TestCase`` class or method, or a module or package containing ``TestCase`` classes. If the named suite is a module,



and the module has an `additional_tests()` function, it is called and the result (which must be a `unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `test_loader`, the rules for processing the chosen `test_suite` may differ; see the `test_loader` documentation for more details.)

Note that many test systems including `doctest` support wrapping their non-`unittest` tests in `TestSuite` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the `unittest` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the `-q` or `--quiet` option, either as a global option to the setup script (e.g. `setup.py -q test`) or as an option for the `test` command itself (e.g. `setup.py test -q`). There is one other option available:

`--test-suite=NAME, -s NAME`

Specify the test suite (or module, class, or method) to be run (e.g.

`some_module.test_suite`). The default for this option can be set by giving a `test_suite` argument to the `setup()` function, e.g.:

```
setup(
 # ...
 test_suite = "my_package.tests.test_all"
)
```

If you did not set a `test_suite` in your `setup()` call, and do not provide a `--test-suite` option, an error will occur.

.. `_upload`:

`_upload` - Upload source and/or egg distributions to PyPI

=====

The `_upload` command is implemented and documented <<https://docs.python.org/3.1/distutils/uploading.html>> in `distutils`.

Setuptools augments the `_upload` command with support for `keyring` <<https://pypi.python.org/pypi/keyring>>, allowing the password to be stored in a secure



location and not in plaintext in the .pypirc file. To use keyring, first install keyring and set the password for the relevant repository, e.g.::

```
python -m keyring set <repository> <username>
Password for '<username>' in '<repository>': *****
```

Then, in .pypirc, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the keyring.

New in 20.1: Added keyring support.

.. \_upload\_docs:

`upload_docs` - Upload package documentation to PyPI

PyPI now supports uploading project documentation to the dedicated URL <https://pythonhosted.org/<project>/>.

The `upload_docs` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils `register` command -- just like the `upload` command.

Assuming there is an `Example` project with documentation in the subdirectory `docs`, e.g.::

```
Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
| |-- build
| |
| |-- html
| | |-- index.html
| | |-- tips_tricks.html
| |-- conf.py
| |-- index.txt
| |-- tips_tricks.txt
```

You can simply pass the documentation directory path to the `upload_docs` command::



```
python setup.py upload_docs --upload-dir=docs/build/html
```

If no ``--upload-dir`` is given, ``upload\_docs`` will attempt to run the ``build\_sphinx`` command to generate uploadable documentation. For the command to become available, `Sphinx`\_ <<http://sphinx.pocoo.org/>>\_ must be installed in the same environment as distribute.

As with other ``setuptools``-based commands, you can define useful defaults in the ``setup.cfg`` of your Python project, e.g.:

```
.. code-block:: ini
```

```
[upload_docs]
upload-dir = docs/build/html
```

The ``upload\_docs`` command has the following options:

```
--upload-dir``
```

The directory to be uploaded to the repository.

```
--show-response``
```

Display the full response text from server; this is useful for debugging PyPI problems.

```
--repository=URL,
```

```
-r URL``
```

The URL of the repository to upload to. Defaults to <https://pypi.python.org/pypi> (i.e., the main PyPI installation).

## ----- Extending and Reusing Setuptools -----

### Creating ``distutils`` Extensions

=====  
It can be hard to add new commands or setup arguments to the distutils. But the ``setuptools`` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their ``setup\_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new commands and ``setup()`` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins`\_ above for some more background on entry points.)



## Adding Commands

-----

You

can add new ``setup`` commands by defining entry points in the ``distutils.commands`` group. For example, if you wanted to add a ``foo`` command, you might add something like this to your distutils extension project's setup script::

```
setup(
 # ...
 entry_points = {
 "distutils.commands": [
 "foo = mypackage.some_module:foo",
],
 },
)
```

(Assuming, of course, that the ``foo`` class in ``mypackage.some\_module`` is a ``setuptools.Command`` subclass.)

Once a project containing such entry points has been activated on ``sys.path``, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any ``setuptools``-based setup scripts. It is not necessary to use the ``--command-packages`` option or to monkeypatch the ``distutils.command`` package to install your commands; ``setuptools`` automatically adds a wrapper to the distutils to search for entry points in the active distributions on ``sys.path``. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

## Adding ``setup()`` Arguments

-----

Sometimes, your commands may need additional arguments to the ``setup()`` call. You can enable this by defining entry points in the ``distutils.setup\_keywords`` group. For example, if you wanted a ``setup()`` argument called ``bar\_baz``, you might add something like this to your distutils extension project's setup script::

```
setup(
 # ...
 entry_points = {
 "distutils.commands": [
 "foo = mypackage.some_module:foo",
],
 },
)
```



```

],
"distutils.setup_keywords": [
 "bar_baz = mypackage.some_module.validate_bar_baz",
],
},
)

```

The idea here is that the entry point defines a function that will be called to validate the ``setup()`` argument, if it's supplied.

The ``Distribution`` object will have the initial value of the attribute set to ``None``, and the validation function will only be called if the ``setup()`` call sets it to a non-None value. Here's an example validation function::

```

def assert_bool(dist, attr, value):
 """Verify that value is True, False, 0, or 1"""
 if bool(value) != value:
 raise DistutilsSetupError(
 "%r must be a boolean value (got %r)" % (attr,value)
)

```

Your function should accept three arguments: the ``Distribution`` object, the attribute name, and the attribute value. It should raise a ``DistutilsSetupError`` (from the ``distutils.errors`` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be ``None`` when they access it later.

If more than one active distribution defines an entry point for the same ``setup()`` argument, \*all\* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils ``Distribution`` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its ``setup\_requires`` argument.

#### Adding new EGG-INFO Files

-----

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in the plugins' EGG-INFO directory, for easy access via the ``pkg\_resources``



metadata API. The easiest way to allow this is to create a `distutils` extension to be used from the plugin projects' setup scripts (via ```setup_requires```) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the ```egg_info``` command is run.

The ```egg_info``` command looks for extension points in an ```egg_info.writers``` group, and calls them to write the files. Here's a simple example of a `distutils` extension defining a setup argument ```foo_bar```, which is a list of lines that will be written to ```foo_bar.txt``` in the EGG-INFO directory of any project that uses the argument::

```
setup(
 # ...
 entry_points = {
 "distutils.setup_keywords": [
 "foo_bar = setuptools.dist:assert_string_list",
],
 "egg_info.writers": [
 "foo_bar.txt = setuptools.command.egg_info:write_arg",
],
 },
)
```

This simple example makes use of two utility functions defined by `setuptools` for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the writer utility looks like::

```
def write_arg(cmd, basename, filename):
 argname = os.path.splitext(basename)[0]
 value = getattr(cmd.distribution, argname, None)
 if value is not None:
 value = '\n'.join(value)+'\n'
 cmd.write_or_delete_file(argname, filename, value)
```

As you can see, ```egg_info.writers``` entry points must be a function taking three arguments: a ```egg_info``` command instance, the basename of the file to write (e.g. ```foo_bar.txt```), and the actual full filename that should be written to.

In general, writer functions should honor the command object's ```dry_run``` setting when writing files, and use the ```distutils.log``` object to do any console output. The easiest way to conform to this requirement is to use the ```cmd``` object's ```write_file()```, ```delete_file()```, and ```write_or_delete_file()``` methods exclusively for your file operations. See those methods' docstrings for more details.



## Adding Support for Revision Control Systems

-----

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: ``setuptools_scm <https://pypi.python.org/pypi/setuptools\_scm>`_`
- SVN: ``setuptools_svn <https://pypi.python.org/pypi/setuptools\_svn>`_`

If you would like to create a plugin for ``setuptools`` to find files tracked by another revision control system, you can do so by adding an entry point to the ``setuptools.file\_finders`` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```
.. code-block:: python

def find_files_for_foobar(dirname):
 # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this::

```
entry_points = {
 "setuptools.file_finders": [
 "foobar = my_foobar_module:find_files_for_foobar"
]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in ``setup\_requires``. When you create a source distribution with the ``sdist`` command, setuptools automatically records what files were found in the ``SOURCES.txt`` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for



writing revision control file finders:

- \* Your finder function **MUST** return relative paths, created by appending to the passed-in directory name. Absolute paths are **NOT** allowed, nor are relative paths that reference a parent directory of the passed-in directory.
- \* Your finder function **MUST** accept an empty string as the directory name, meaning the current directory. You **MUST NOT** convert this to a dot; just yield relative paths. So, yielding a subdirectory named ``some/dir`` under the current directory should **NOT** be rendered as ``./some/dir`` or ``~/somewhere/some/dir``, but *\*always\** as simply ``some/dir``
- \* Your finder function **SHOULD NOT** raise any errors, and **SHOULD** deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *\*may\**, however, use ``distutils.log.warn()`` to inform the user of the missing program(s).

Subclassing ``Command``

-----

Sorry, this section isn't written yet, and  
neither is a lot of what's below  
this point.

XXX

Reusing ``setuptools`` Code

=====

``ez\_setup``

-----

XXX

``setuptools.archive\_util``

-----

XXX

``setuptools.sandbox``

-----

XXX



``setuptools.package\_index``

-----  
XXX

#### Mailing List and Bug Tracker

=====

Please use the `distutils-sig mailing list`\_ for questions and discussion about setuptools, and the `setuptools bug tracker`\_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. \_distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>  
.. \_setuptools bug tracker: <https://github.com/pypa/setuptools/>

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1050086594\_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/docs/setuptools.txt

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# 1.518 iproute 4.19.0

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Any executables

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Upstream-Name: rdma-core

Upstream-Contact: Doug Ledford <dledford@redhat.com>,

Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>

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# 1.524 smartmontools 6.6

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References



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<http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm>

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Version 4 and are acknowledged as authors of this  
work.

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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line  
and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood  
<kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT  
port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver,  
Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete  
broadcast and crypto features



in sntp

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    with target configuration
15. [16]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference  
    clock driver, NT adj. residuals, integrated Greg's Winnt port.
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    NTP Version 2 as specified in RFC-1119
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25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping  
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  - 42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
  - 43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
  - 44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
  - 45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
  - 46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
  - 47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
  - 48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
  - 49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
  - 50. [54]Michael Shields <shields@tembel.org> USNO clock driver
  - 51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
  - 52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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  - 56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
  - 57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
  - 58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
  - 59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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# 1.531 ipmi-tool 1.8.11

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\* /opt/ws\_local/PERMITS\_SQL/1066860113\_1597682553.9/0/tftp-ha-0-48-tar/Makefile

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*
* ----- */
```

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1066860113\_1597682553.9/0/tftp-ha-0-48-tar/src/tftpmain.c  
\*  
/opt/ws\_local/PERMITS\_SQL/1066860113\_1597682553.9/0/tftp-ha-0-48-tar/src/tftpsubs.c  
\* /opt/ws\_local/PERMITS\_SQL/1066860113\_1597682553.9/0/tftp-ha-0-48-tar/src/tftp.c  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1066860113\_1597682553.9/0/tftp-ha-0-48-tar/src/Makefile  
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\*

\* @(#)tftpsubs.h 8.1 (Berkeley) 6/6/93

\*/

Found in path(s):

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\*  
\* @(#)extern.h 8.1 (Berkeley) 6/6/93  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1066860113\_1597682553.9/0/tftp-ha-0-48-tar/include/extern.h

# 1.534 tftp-hpa 0.49

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/main.c
*
/opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.c
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.c
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```

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*
* ----- */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.h
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.c
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/misc.c
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```

```
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.\"----- */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.1.in
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```

```

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```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-
0.49/MCONFIG.in
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```

```

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* ----- */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/config.h
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- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.c  
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*
* ----- */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.h  
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\*

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.h

\* /opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.c

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License: BSD

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec.in

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

Name: tftp

Version: 0.49

Release: 1

License: BSD

Group: Applications/Internet

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

BuildPreReq: tcp\_wrappers

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/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec

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

/\*

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.h

\*

/opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/extern.h

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```
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.\"
.\"----- */
```

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\* /opt/ws\_local/PERMITS\_SQL/1066872890\_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.8.in



# 1.535 libasynchs 0.8

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

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.

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

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

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

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

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

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

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

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

Section

6 states terms for distribution of such executables.

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



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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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



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

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

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

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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That's all there is to it!

# 1.537 gdkpixbuf 2.24.1

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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.

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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



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

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

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

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

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



compelled to copy the source along with the object code.

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

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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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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.

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```
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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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TI DSP/Bridge Driver - Contributors File

The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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\*

\* 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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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>  
for the initial saa7146 driver and its recent overhaul

Christian Theiss  
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>  
Ralph Metzler <rjkm@metzlerbros.de>  
for their continuing work on the DVB driver



Michael Holz <kju@debian.org>  
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacompt.it>  
for CyberLogin for Linux which allows logging onto EON  
(in case you are wondering where CyberLogin is, EON changed its login  
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>  
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>  
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>  
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>  
for his LIRC infrared handler

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...and all the other dbox2 people

for many bugfixes in the generic DVB Core, frontend drivers and  
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  
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/\* nicstar.c v0.22 Jawaidd Bazyar (bazyar@hypermall.com)

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

\*

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

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- \* 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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TI DSP/Bridge Driver - Contributors File

The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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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.iovnt != 0) for Rx skb's passed to vcc->push.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create



- \* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- \* Fix is simple: make large buffers large enough to hold entire
- \* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then
- \* copy small buffer contents to head of large buffer.
- \* Trick is to avoid fragmenting Linux, due to need for a lot of large
- \* buffers. This is done by 2 things:
- \* 1) skb->destructor / skb->atm.recycle\_buffer
- \* combined, allow nicstar\_free\_rx\_skb to be called to
- \* recycle large data buffers
- \* 2) skb\_clone of received buffers
- \* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation
- \* details.
- \*
- \*
- \*
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- \*
- \* M. Welsh, 6 July 1996
- \*
- \*
- \*/

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Because  
of this blurred distinction, using the ordinary General  
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concluded that weaker conditions might promote sharing better.

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QLogic Linux Networking HBA Driver

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>  
for the initial saa7146 driver and its recent overhaul

Christian Theiss  
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>  
Ralph Metzler <rjkm@metzlerbros.de>  
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>  
for his contributions to the dvb-net driver



Diego Picciani <d.picciani@novacomp.it>  
for CyberLogin for Linux which allows logging onto EON  
(in case you are wondering where CyberLogin is, EON changed its login  
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>  
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>  
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>  
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>  
for his LIRC infrared handler

Andreas Oberritter  
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Wolfram Joost <dbox2@frokaschwei.de>

...and all the other dbox2 people

for many bugfixes in the generic DVB Core, frontend drivers and  
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@linuxtv.org>

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

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

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# 1.552 libarchive 3.4.3

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libarchive/mtree.5

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## 1.553 tftp-hpa 5.2

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 \*/

Found in path(s):

\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.c  
 \*  
 /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c  
 \* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/main.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: 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 <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/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec

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```
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*
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* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */
```

Found in path(s):

\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/config.h

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```
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.\"
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.\"----- */

```

Found in path(s):

```

* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

```

```

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*
* ----- */

```

Found in path(s):

```

* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.c
No license file was found, but licenses were detected in source scan.

```

```

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```

Found in path(s):

\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in

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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/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec.in

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\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/MCONFIG.in

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\*  
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Found in path(s):

\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c  
\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h

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\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.h

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Found in path(s):

\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/extern.h  
\*

/opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h

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Found

in path(s):

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# 1.554 sysklogd 1.5.0

## 1.554.1 Available under license :

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Version 2, June 1991

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## 1.557 ipmiutil 3.1.3

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Upstream-Contact: Andy Cress <[arcress@users.sourceforge.net](mailto:arcress@users.sourceforge.net)>

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Source: <http://ipmiutil.sourceforge.net>

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Source: <http://ipmiutil.sourceforge.net>

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Upstream Author: Mark A Lindner

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@c \input texinfo.tex @c -\*-texinfo-\*-

@c

@c %\*\*start of header

@c All text is ignored before the setfilename.

@setfilename LGPL.info

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

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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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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.

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Library is used in it and that the Library and its use are covered by  
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copyright notice for the Library among  
them, as well as a reference  
directing the user to the copy of this License. Also, you must do one  
of these things:

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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.

@end enumerate

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

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

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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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@page

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found.

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

}

@end format

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@c @bye

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Version 2.1, February 1999

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

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



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That's all there is to it!

# 1.559 unzip 6.0

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---

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---

FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

-----

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding \_in an apparatus that performs LZW encoding\_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

---



The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip

5.42, the complete

core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.

For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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- \* MoreFiles
- \*
- \* A collection of File Manager and related routines
- \*
- \* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
- \* with significant code contributions by Nitin Ganatra
- \* (Apple Macintosh Developer Technical Support Emeritus)
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copyright applies to the Mac OS "macbin3" decoding code  
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- \* MacBinaryIII.h
- \*
- \* Copyright 1997 Christopher Evans (cevens@poppybank.com)
- \*
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- \* -----
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- \* (available at ftp://ftp.lazerware.com/MacBinaryIII\_src\_C.sit
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-----

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Regarding the first stipulation, Mr. Smith was tracked down in southern  
California some years back [Samuel H. Smith, The Tool Shop; as of mid-  
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),  
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that  
he has no objection to the Info-ZIP group's inclusion of his code.  
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten



and by default

no longer contains any of Mr. Smith's code, Info-ZIP

remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

-----

# 1.560 hunspell 1.7.0

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- \* NOTE: A special thanks and credit goes to Geoff Kuenning
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- \* copyright Geoff Kuenning et.al. and now available
- \* under a BSD style license. For more information on ispell
- \* and affix
- compression in general, please see:
- \* <http://www.cs.ucla.edu/ficus-members/geoff/ispell.html>
- \* (the home page for ispell)
- \*
- \* An almost complete rewrite of MySpell for use by
- \* the Mozilla project has been developed by David Einstein
- \* (Deinst@world.std.com). David and I are now
- \* working on parallel development tracks to help
- \* our respective projects (Mozilla and OpenOffice.org
- \* and we will maintain full affix file and dictionary
- \* file compatibility and work on merging our versions
- \* of MySpell back into a single tree. David has been
- \* a significant help in improving MySpell.
- \*
- \* Special thanks also go to La'szlo' Ne'meth
- \* <nemethl@gyorsposta.hu> who is the author of the
- \* Hungarian dictionary and who developed and contributed
- \* the code to support compound words in MySpell
- \* and fixed numerous problems with the encoding
- \* case conversion tables.
- \*
- \*/

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Version 2.1, February 1999



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```
/* lib/font/fontfile/gunzip.c
 written by Mark Eichin <eichin@kitten.gen.ma.us> September
 1996.
 intended for inclusion in X11 public releases. */
```

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

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## 1.572 strace 4.12

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a

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# 1.575 tar 1.23

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## **1.578 mesa 18.3.4**

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```
libfreedreno_layout = static_library(
 'freedreno_layout',
 [
 'fd5_layout.c',
 'fd6_layout.c',
 'freedreno_layout.c',
],
 include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
 c_args : [no_override_init_args],
 gnu_symbol_visibility : 'hidden',
```



```

dependencies : idep_nir_headers,
build_by_default : false,
)

foreach major : ['5', '6']
test(
'fd' + major + '_layout',
executable(
'fd' + major + '_layout',
[
'fd_layout_test.c',
'fd' + major + '_layout_test.c',
freedreno_xml_header_files,
],
link_with: libfreedreno_layout,
dependencies : idep_mesautil,
include_directories: [
inc_include,
inc_src,
inc_mapi,
inc_mesa,
inc_gallium,
inc_gallium_aux,
inc_freedreno],
),
suite : ['freedreno'],
)
endforeach

```

# 1.579 libsm 1.2.2

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## 1.581 libffi 3.1.1

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## 1.584 sg3-utils 1.37-12.el7

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docs/GPLv2.TXT
#
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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
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src/gzip/inffixed.h
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src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
```



```
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
EOF
```

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## 1.586 libxcursor 1.1.13

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# 1.587 mini-xml 2.6

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October 18, 2005

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.594 protobuf-c 1.3.1

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# 1.603 util-linux 2.24.2

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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\* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino

<jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp: These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that



process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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<!-- \$Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"  
version="1.0">

<xsl:template name="isc.copyright.format">  
 <xsl:param name="text"/>  
 <xsl:value-of select="\$isc.copyright.leader"/>  
 <xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>  
 <xsl:text>&#10;</xsl:text>  
 <xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>  
 <xsl:if test="translate(\$rest, '&#9;&#32;', ' ')>  
 <xsl:call-template name="isc.copyright.format">  
 <xsl:with-param name="text" select="\$rest"/>  
 </xsl:call-template>  
 </xsl:if>  
</xsl:template>

<xsl:variable name="isc.copyright.text">  
 <xsl:text>  
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</xsl:text>  
</xsl:variable>

<xsl:variable name="isc.copyright">  
 <xsl:call-template name="isc.copyright.format">  
 <xsl:with-param name="text">  
 <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">  
 <xsl:text>Copyright (C) </xsl:text>



```

<xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
</xsl:call-template>
<xsl:text> </xsl:text>
<xsl:value-of select="holder"/>
<xsl:text>
</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--

- Local variables:
- mode: sgml
- End:
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# 1.617 curl 7.43.0

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=====

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

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## libcurl

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## 1.619 libidn 2.0.5



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Version 3, 29 June 2007

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## 1.620 curl 7.54.0

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code or patches to this implementation of sudo since I began  
maintaining it in 1993. This list is known to be incomplete--if  
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Andrew, Nick  
Andric, Dimitry  
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Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bos, Sander  
Bostley, P.J.  
Bowes, Keith



Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
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Eckhardt, Drew  
Edgington, Ben  
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Faigon, Ariel  
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Janssen, Mark  
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Morris, Charles  
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Nikitser, Peter A.  
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Ouellet, Jean-Philippe  
Paquet, Eric  
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Percival, Ted  
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The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
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Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
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Gezer, Volkan  
Hamasaki, Takeshi  
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Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri



Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
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Psa, Petr  
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Qun, Trn Ngc  
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The following people designed the artwork used on the sudo website:

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The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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# 1.627 shared-mime-info 1.1

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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

---

#1: 32 7648 0x83

#2: 7680 8704 0xa5

#5: 7936 4864 0x7 (freebsd)

#6: 12544 3584 0x7 (freebsd)

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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

\_\_ts\_dev\_\_: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
--------	------	-------	-----	--------	----	--------

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

\_\_ts\_dev\_\_: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023

bsd.img

Set 2nd partition type



2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----

\_\_ts\_dev\_\_: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux
__ts_dev__2		4096	20479	8192	a5	FreeBSD

-----

Create default BSD

2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
c:	4096	20479	16384	unused	0	0	
d:	0						
	16064	16065	unused	0	0		

BSD disklabel command (m for help):

Command (m for help):

-----

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):



4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
a:	4096	6144	2049	4.2BSD	0	0	0
c:	4096	20479	16384	unused	0	0	
d:	0	16064	16065	unused	0	0	

BSD disklabel command (m for help):

Command (m for help):

-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

0	unused	5	4.1BSD	9	4.4LFS	d	boot
1	swap						
	6	Eighth Edition	a	unknown	e	ADOS	
2	Version 6	7	4.2BSD	b	HPFS	f	HFS
3	Version 7	8	MS-DOS	c	ISO-9660	10	AdvFS
4	System V						

BSD disklabel command (m for help):

/\*

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# 1.630 libaio 0.3.111

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# 1.632 openssl 1.1.1j

## 1.632.1 Available under license :

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce



```

BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

```

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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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Theodore Ts'o  
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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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



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# 1.641 xorg-server 1.14.2

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## 1.642 netbsd-resolv 2.17-196.el7\_4.2

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## 1.643 shim 10.6



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## 1.647 libxmu 1.1.1

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/\*

Samba Unix SMB/CIFS implementation.

C utilities for the pytalloc test suite.

Provides the "\_test\_pytalloc" Python module.

NOTE: Please read talloc\_guide.txt for full documentation

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## 1.652 pciutils 3.3.1

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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



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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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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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# 1.657 tiny-xml 0.9.5-5.3.el6

## 1.657.1 Available under license :

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\*/

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/\*\* @mainpage

<h1> TinyXML </h1>

TinyXML is a simple, small, C++ XML parser that can be easily integrated into other programs.

<h2> What it does. </h2>

In brief, TinyXML parses an XML document, and builds from that a Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create your own document markups. Where HTML does a very good job of marking documents for browsers, XML allows you to define any kind of document markup, for example a document that describes a "to do" list for an organizer application. XML is a very structured and convenient format.



All those random file formats created to store application data can all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to read spec is at <http://www.w3.org/TR/2004/REC-xml-20040204/>.

An intro to XML

(that I really like) can be found at

<http://skew.org/xml/tutorial/>.

There are different ways to access and interact with XML data.

TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed into a C++ objects that can be browsed and manipulated, and then written to disk or another output stream. You can also construct an XML document from scratch with C++ objects and write this to disk or another output stream.

TinyXML is designed to be easy and fast to learn. It is two headers and four cpp files. Simply add these to your project and off you go. There is an example file - xmltest.cpp - to get you started.

TinyXML is released under the ZLib license, so you can use it in open source or commercial code. The details of the license are at the top of every source file.

TinyXML attempts to be a flexible parser, but with truly correct and compliant XML output. TinyXML should compile on any reasonably C++ compliant system. It does not rely on exceptions or RTTI. It can be compiled with or without STL support. TinyXML fully supports the UTF-8 encoding, and the first 64k character entities.

## <h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs (eXtensible Stylesheet Language.) There are other parsers out there (check out [www.sourceforge.org](http://www.sourceforge.org), search for XML) that are much more fully featured. But they are also much bigger, take longer to set up in your project, have a higher learning curve, and often have a more restrictive license. If you are working with browsers or have more complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

@verbatim

<!DOCTYPE Archiv [

<!ELEMENT Comment (#PCDATA)>



]>

@endverbatim

because TinyXML sees this as a !DOCTYPE node with an illegally embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For

the impatient, here is a tutorial to get you going. A great way to get started, but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find bugs, please file a bug report on the sourceforge web site ([www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)). We'll get them straightened out as soon as possible.

There are some areas of improvement; please check sourceforge if you are interested in working on TinyXML.

<h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

<ul>

<li> <b>TinyXPath</b> (<http://tinyxpath.sourceforge.net>). TinyXPath is a small footprint XPath syntax decoder, written in C++.</li>

<li> <b>TinyXML++</b> (<http://code.google.com/p/ticpp/>). TinyXML++ is a completely new interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling.</li>

</ul>

<h2>

Features </h2>

<h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML uses the std::string class, and fully supports std::istream, std::ostream, operator<<, and operator>>. Many API methods have both 'const char\*' and 'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All the string classes are implemented by TinyXML itself. API methods



all use the 'const char\*' form for input.

Use the compile time #define:

TIXML\_USE\_STL

to compile one version or the other. This can be passed by the compiler, or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment variable TINYXML\_USE\_STL=YES/NO will control STL compilation. In the Windows project file, STL and non STL targets are provided. In your project, It's probably easiest to add the line "#define TIXML\_USE\_STL" as the first line of tinyxml.h.

<h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing to manipulate XML files in any language. TinyXML also supports "legacy mode" - the encoding used before UTF-8 support and probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However, by setting the value of TIXML\_DEFAULT\_ENCODING in the header file, TinyXML can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

<ol>

<li> If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf) begin the file or data stream, TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has an encoding="UTF-8", then TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has no encoding specified, then TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has an encoding="something else", then TinyXML will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's

not clear what that mode does exactly, but old content should keep working.</li>

<li> Until one of the above criteria is met, TinyXML runs in Legacy Mode.</li>

</ol>

What happens if the encoding is incorrectly set or detected? TinyXML will try to read and pass through text seen as improperly encoded. You may get some strange results or mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile( TIXML\_ENCODING\_LEGACY ) or LoadFile( filename, TIXML\_ENCODING\_LEGACY ). You may force it to use legacy mode all the time by setting TIXML\_DEFAULT\_ENCODING = TIXML\_ENCODING\_LEGACY. Likewise, you may



force it to TIXML\_ENCODING\_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You don't need to be aware of UTF-8 or change your code in any way. You can think of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode!

TinyXML

does not use or directly support wchar, TCHAR, or Microsoft's \_UNICODE at this time. It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding. Text encoded as SHIFT-JIS can not be read by TinyXML. A good text editor can import SHIFT-JIS and then save as UTF-8.

The `<a href="http://skew.org/xml/tutorial/">Skew.org link</a>` does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file "utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that Print() or printf() cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

`<h3> Entities </h3>`

TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:

@verbatim  
&amp; &  
&lt; <  
&gt; >  
&quot; "  
&apos; '



@endverbatim

These are recognized when the XML document is read, and translated to there UTF-8 equivalents. For instance, text with the XML of:

```
@verbatim
Far & Away
@endverbatim
```

will have the Value() of "Far & Away" when queried from the TiXmlText object, and will be written back to the XML stream/file as an ampersand. Older versions of TinyXML "preserved" character entities, but the newer versions will translate them into characters.

Additionally, any character can be specified by its Unicode code point: The syntax "&#xA0;" or "&#160;" are both to the non-breaking space character.

### <h3> Printing </h3>

TinyXML can print output in several different ways that all have strengths and limitations.

- Print( FILE\* ). Output to a std-C stream, which includes all C files as well as stdout.
  - "Pretty prints", but you don't have control over printing options.
  - The output is streamed directly to the FILE object, so there is no memory overhead in the TinyXML code.
  - used by Print() and SaveFile()
- operator<<. Output to a c++ stream.
  - Integrates with standard C++ iostreams.
  - Outputs in "network printing" mode without line breaks. Good for network transmission and moving XML between C++ objects, but hard for a human to read.
- TiXmlPrinter. Output to a std::string or memory buffer.
  - API is less concise
  - Future printing options will be put here.
  - Printing may change slightly in future versions as it is refined and expanded.

### <h3> Streams </h3>

With TIXML\_USE\_STL on TinyXML supports C++ streams (operator <<, >>) streams as well as C (FILE\*) streams. There are some differences that you may need to be aware of.

C style output:

- based on FILE\*
- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed



XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

C style input:

- based on FILE\*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:

- based on std::ostream
- operator<<

Generates

condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:

- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that operator>> is somewhat slower than Parse, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>

The world simply does not agree on whether white space should be kept, or condensed.

For example, pretend the '\_' is a space, and look at "Hello\_\_\_\_world". HTML, and at least some XML parsers, will interpret this as "Hello\_world". They condense white space. Some XML parsers do not, and will leave it as "Hello\_\_\_\_world". (Remember to keep pretending the \_ is a space.) Others suggest that \_\_Hello\_\_\_\_world\_\_ should become Hello\_\_\_\_world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace( bool ) to set the desired behavior. The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace( bool ) before making any calls to Parse XML data, and I don't recommend changing it after it has been set.



### <h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check for null returns from method calls. An error safe implementation can generate a lot of code like:

```
@verbatim
TiXmlElement* root = document.FirstChildElement(
 "Document");
if (root)
{
 TiXmlElement* element = root->FirstChildElement("Element");
 if (element)
 {
 TiXmlElement* child = element->FirstChildElement("Child");
 if (child)
 {
 TiXmlElement* child2 = child->NextSiblingElement("Child");
 if (child2)
 {
 // Finally do something useful.
 }
 }
 }
}
@endverbatim
```

Handles have been introduced to clean this up. Using the TiXmlHandle class, the previous code reduces to:

```
@verbatim
TiXmlHandle docHandle(&document);
TiXmlElement* child2 = docHandle.FirstChild("Document").FirstChild("Element").Child("Child", 1
).ToElement();
if (child2)
{
 // do something useful
}
@endverbatim
```

Which is much easier to deal with. See TiXmlHandle for more information.

### <h3> Row and Column tracking </h3>

Being able to track nodes and attributes back to their origin location in source files can be very important for some applications. Additionally, knowing where parsing errors occurred in the original source can be very time saving.

TinyXML can track the row and column origin of all nodes and attributes



in a text file. The `TiXmlBase::Row()` and `TiXmlBase::Column()` methods return the origin of the node in the source text. The correct tabs can be configured in `TiXmlDocument::SetTabSize()`.

## <h2> Using and Installing </h2>

To Compile and Run `xmltest`:

A Linux Makefile and a Windows Visual C++ .dsw file is provided. Simply compile and run. It will write the file `demotest.xml` to your disk and generate output on the screen. It also tests walking the DOM by printing out the number of nodes found using different techniques.

The Linux makefile is very generic and runs on many systems - it is currently tested on mingw and MacOSX. You do not need to run 'make depend'. The dependencies have been hard coded.

### <h3>Windows project file for VC6</h3>

<ul>

<li>tinyxml: tinyxml library, non-STL </li>

<li>tinyxmlSTL: tinyxml library, STL </li>

<li>tinyXmlTest: test app, non-STL </li>

<li>tinyXmlTestSTL: test app,  
STL </li>

</ul>

### <h3>Makefile</h3>

At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML\_USE\_STL. Details (such that they are) are in the makefile.

In the tinyxml directory, type "make clean" then "make". The executable file 'xmltest' will be created.

### <h3>To Use in an Application:</h3>

Add `tinyxml.cpp`, `tinyxml.h`, `tinyxmlerror.cpp`, `tinyxmlparser.cpp`, `tinystr.cpp`, and `tinystr.h` to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.



<h2> How TinyXML works. </h2>

An example is probably the best way to go. Take:

@verbatim

```
<?xml version="1.0" standalone=no>
<!-- Our to do list data -->
<ToDo>
 <Item priority="1"> Go to the <bold>Toy store!</bold></Item>
 <Item priority="2"> Do bills</Item>
</ToDo>
```

@endverbatim

Its not much of a To Do list, but it will do. To read this file (say "demo.xml") you would create a document, and parse it in:

@verbatim

```
TiXmlDocument
doc("demo.xml");
doc.LoadFile();
```

@endverbatim

And its ready to go. Now lets look at some lines and how they relate to the DOM.

@verbatim

```
<?xml version="1.0" standalone=no>
@endverbatim
```

The first line is a declaration, and gets turned into the TiXmlDeclaration class. It will be the first child of the document node.

This is the only directive/special tag parsed by TinyXML. Generally directive tags are stored in TiXmlUnknown so the commands wont be lost when it is saved back to disk.

@verbatim

```
<!-- Our to do list data -->
@endverbatim
```

A comment. Will become a TiXmlComment object.

@verbatim

```
<ToDo>
@endverbatim
```

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.



```
@verbatim
<Item priority="1">
@endverbatim
```

Creates another TiXmlElement which is a child of the "ToDo" element.  
This element has 1 attribute, with the name "priority" and the value "1".

```
@verbatim
Go to the
@endverbatim
```

A TiXmlText.  
This is a leaf node and cannot contain other nodes.  
It is a child of the "Item" TiXmlElement.

```
@verbatim
<bold>
@endverbatim
```

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:

```
@verbatim
TiXmlDocument "demo.xml"
TiXmlDeclaration "version='1.0'" "standalone=no"
TiXmlComment " Our to do list data"
TiXmlElement "ToDo"
TiXmlElement "Item" Attributes: priority = 1
TiXmlText "Go to the "
TiXmlElement "bold"
TiXmlText "Toy store!"
TiXmlElement "Item" Attributes: priority=2
TiXmlText "Do bills"
@endverbatim
```

```
<h2> Documentation </h2>
```

The documentation is build with Doxygen, using the 'dox' configuration file.

```
<h2> License </h2>
```

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## <h2> References </h2>

The World Wide Web Consortium is the definitive standard body for XML, and their web pages contain huge amounts of information.

The definitive spec: <a href="http://www.w3.org/TR/2004/REC-xml-20040204/">  
http://www.w3.org/TR/2004/REC-xml-20040204/</a>

I also recommend "XML Pocket Reference" by Robert Eckstein and published by O'Reilly...the book that got the whole thing started.

## <h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and encouragement. It all helps, and makes this project fun. A special thanks to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still in the documentation.) Lee reviews changes and releases new versions, with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you use TinyXML. Hopefully you will enjoy it and find it useful. Please post questions, comments, file bugs, or contact us at:



[www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)

Lee Thomason, Yves Berquin, Andrew Ellerton

\*/

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# 1.658 lsscsi 0.27

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*
* ----- */
```

Found in path(s):

```
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/misc.c
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/remap.c
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/remap.h
```

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Found in path(s):

\* /opt/cola/permits/1155118354\_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/common/tftpsubs.h

\*

/opt/cola/permits/1155118354\_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/extern.h

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```

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.\"
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\* /opt/cola/permits/1155118354\_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/tftpd.8.in

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

Found in path(s):

\* /opt/cola/permits/1155118354\_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/config.h

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\* /opt/cola/permits/1155118354\_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/MCONFIG.in

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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/1155118354\_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp.spec.in

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- \* /opt/cola/permits/1155118354\_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/common/tftpsubs.c

- \*

- /opt/cola/permits/1155118354\_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/main.c

- \* /opt/cola/permits/1155118354\_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/tftp.c

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```

Found in path(s):

```

* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
hpa/tftp/tftp.1.in

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Found

in path(s):

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\* /opt/cola/permits/1155118354\_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/recvfrom.c

\* /opt/cola/permits/1155118354\_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/recvfrom.h



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## 1.664 six 1.11.0-3.ph3

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#### Contributors

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- Chris McDonough, 2011/02/16

- Wichert Akkerman, 2012/02/02

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#### A. HISTORY OF THE SOFTWARE

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

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



software.

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes



2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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

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

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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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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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@(#) \$RCSfile: certdata.txt,v \$

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# 1.668 python-pip 8.1.1

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Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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## 1.672 kerberos 1.10.3



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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
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lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
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lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
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lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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

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the following new or changed files:



include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
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- \* A rewrite
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- \* in C (faster - it is executed many times during system startup).
- \*



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## @subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0

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A ``library" means a collection of software functions and/or data



prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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@item

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@item

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

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

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

@item

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



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if the work is a derivative of the Library, you may  
distribute the object code for the work under the terms of Section 6.  
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whether or not they are linked directly with the Library itself.

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this License. Also, you must do one  
of these things:

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

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

@item

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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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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@var{signature of Ty Coon}, 1 April 1990  
Ty Coon, President of Vice  
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in new free programs; and that you know you can do these things.

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Whether that is true depends on what the Program does.



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Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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@end enumerate

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@page

@heading Appendix: How to Apply These Terms to Your New Programs

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and a brief idea of what it does.}

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@end smallexample

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

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

@smallexample



Gnomovision version

69, Copyright (C) @var{year} @var{name of author}

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

@end smallexample

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commands you use may be called something other than @samp{show w} and  
@samp{show c}; they could even be mouse-clicks or menu items---whatever  
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necessary. Here is a sample; alter the names:

@example

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'Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

@end example

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From gsf@research.att.com Wed Mar 1 20:30:54 2006  
Return-Path: <gsf@research.att.com>  
X-Original-To: mps@bridge.intra  
Delivered-To: mps@bridge.intra  
Received: from localhost (localhost [127.0.0.1])  
by localhost (Postfix) with ESMTP id B8C814E4F  
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)  
Received: from mail.bridge.intra ([127.0.0.1])  
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)  
with LMTP id 05987-03 for <mps@bridge.intra>;  
Wed, 1 Mar 2006 20:30:42 +0100 (CET)  
Received: from pop.gmx.net (localhost [127.0.0.1])  
by mail.bridge.intra (Postfix) with ESMTP id C8C73794D  
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)  
X-Flags: 0000  
Delivered-To: GMX delivery to ps.m@gmx.net  
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000  
Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]  
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[135.207.23.32])  
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Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)  
From: Glenn Fowler <gsf@research.att.com>  
Message-Id: <200603011923.OAA86112@raptor.research.att.com>  
Organization: AT&T Research  
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>  
To: mps@bridge.intra  
Subject: Re: testregex licensing question  
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)  
X-GMX-Antispam: 0 (Mail was not recognized as spam)  
X-GMX-UID: IJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca  
X-Virus-Scanned: by amavisd-new at localhost  
Status: RO  
X-Status:  
X-Keywords:  
  
X-UID: 44736

you may include it directly  
retain the testregex.c header comment  
it uses a very free license to maximize distribution  
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let me know how it works with your libc  
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On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:  
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> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any  
> licensing related info on testregex.

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

> Thanks, Peter



> --

> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2

> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2

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\* This file is part of the uIP TCP/IP stack

\*

\* Author: Adam Dunkels <adam@sics.se>

\*

\* \$Id: lc-addrlabels.h,v 1.3 2006/06/12 08:00:30 adam Exp \$

\*/



Found in path(s):

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\* \$Id: uip-neighbor.h,v 1.2 2006/06/12 08:00:30 adam Exp \$

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- \* \$Id: resolv.c,v 1.5 2006/06/11 21:46:37 adam Exp \$
- \*
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\* \$Id: webclient.c,v 1.2 2006/06/11 21:46:37 adam Exp \$

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\* \$Id: uip-lib.h,v 1.1 2006/06/07 09:15:19 adam Exp \$

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\* Author: Adam Dunkels <adam@sics.se>

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\defgroup pt Protothreads

Protothreads are a type of lightweight stackless threads designed for severely memory constrained systems such as deeply embedded systems or sensor network nodes. Protothreads provides linear code execution for event-driven systems implemented in C. Protothreads can be used with or without an RTOS.

Protothreads are an extremely lightweight, stackless type of threads that provides a blocking context on top of an event-driven system, without the overhead of per-thread stacks. The purpose of protothreads is to implement sequential flow of control without complex state machines or full multi-threading. Protothreads provides conditional blocking inside C functions.



The advantage of protothreads over a purely event-driven approach is that protothreads provides a sequential code structure that allows for blocking functions. In purely event-driven systems, blocking must be implemented by manually

breaking the function into two pieces - one for the piece of code before the blocking call and one for the code after the blocking call. This makes it hard to use control structures such as if() conditionals and while() loops.

The advantage of protothreads over ordinary threads is that a protothread do not require a separate stack. In memory constrained systems, the overhead of allocating multiple stacks can consume large amounts of the available memory. In contrast, each protothread only requires between two and twelve bytes of state, depending on the architecture.

\note Because protothreads do not save the stack context across a blocking call, **local variables are not preserved when the protothread blocks**. This means that local variables should be used with utmost care - **if in doubt, do not use local variables inside a protothread!**

Main features:

- No machine specific code - the protothreads library is pure C
- Does not use error-prone functions such as longjmp()
- Very small RAM overhead - only two bytes per protothread
- Can be used with or without an OS
- Provides blocking wait without full multi-threading or stack-switching

Examples applications:

- Memory constrained systems
- Event-driven protocol stacks
- Deeply embedded systems
- Sensor network nodes



The protothreads API consists of four basic operations:  
initialization: PT\_INIT(), execution: PT\_BEGIN(), conditional  
blocking: PT\_WAIT\_UNTIL() and exit: PT\_END(). On top of these, two  
convenience functions are built: reversed condition blocking:  
PT\_WAIT\_WHILE() and protothread blocking: PT\_WAIT\_THREAD().

\sa \ref pt "Protothreads API documentation"

The protothreads library is released under a BSD-style license that  
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\section authors Authors

The protothreads library was written by Adam Dunkels <adam@sics.se>  
with  
support from Oliver Schmidt <ol.sc@web.de>.

\section pt-desc Protothreads

Protothreads are a extremely lightweight, stackless threads that  
provides a blocking context on top of an event-driven system, without  
the overhead of per-thread stacks. The purpose of protothreads is to  
implement sequential flow of control without using complex state  
machines or full multi-threading. Protothreads provides conditional  
blocking inside a C function.

In memory constrained systems, such as deeply embedded systems,  
traditional multi-threading may have a too large memory overhead. In  
traditional multi-threading, each thread requires its own stack, that  
typically is over-provisioned. The stacks may use large parts of the  
available memory.

The main advantage of protothreads over ordinary threads is that  
protothreads are very lightweight: a protothread does not require its  
own stack. Rather, all protothreads run on the same stack and context  
switching is done by stack rewinding. This is advantageous  
in memory  
constrained systems, where a stack for a thread might use a large part  
of the available memory. A protothread only requires only two bytes of  
memory per protothread. Moreover, protothreads are implemented in pure  
C and do not require any machine-specific assembler code.

A protothread runs within a single C function and cannot span over  
other functions. A protothread may call normal C functions, but cannot  
block inside a called function. Blocking inside nested function calls  
is instead made by spawning a separate protothread for each  
potentially blocking function. The advantage of this approach is that



blocking is explicit: the programmer knows exactly which functions that block that which functions the never blocks.

Protothreads are similar to asymmetric co-routines. The main difference is that co-routines uses a separate stack for each co-routine, whereas protothreads are stackless. The most similar mechanism to protothreads are Python generators. These are also stackless

constructs, but have a different purpose. Protothreads provides blocking contexts inside a C function, whereas Python generators provide multiple exit points from a generator function.

#### \section pt-autovars Local variables

##### \note

Because protothreads do not save the stack context across a blocking call, local variables are not preserved when the protothread blocks. This means that local variables should be used with utmost care - if in doubt, do not use local variables inside a protothread!

#### \section pt-scheduling Scheduling

A protothread is driven by repeated calls to the function in which the protothread is running. Each time the function is called, the protothread will run until it blocks or exits. Thus the scheduling of protothreads is done by the application that uses protothreads.

#### \section pt-impl Implementation

Protothreads are implemented using \ref lc "local continuations". A local continuation represents the current state of execution at a particular place in the program, but does not provide any call history or local variables. A local continuation can be set in a specific function to capture the state of the function. After a local continuation has been set can be resumed in order to restore the state of the function at the point where the local continuation was set.

Local continuations can be implemented in a variety of ways:

- # by using machine specific assembler code,
- # by using standard C constructs, or
- # by using compiler extensions.

The first way works by saving and restoring the processor state, except for stack pointers, and requires between 16 and 32 bytes of memory per protothread. The exact amount of memory required depends on



the architecture.

The standard C implementation requires only two bytes of state per protothread and utilizes the C switch() statement in a non-obvious way that is similar to Duff's device. This implementation does, however, impose a slight restriction to the code that uses protothreads in that the code cannot use switch() statements itself.

Certain compilers has C extensions that can be used to implement protothreads. GCC supports label pointers that can be used for this purpose. With this implementation, protothreads require 4 bytes of RAM per protothread.

@ {

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\* Author: Adam Dunkels <adam@sics.se>

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\* \$Id: smtp-strings.h,v 1.3 2006/06/11 21:46:37 adam Exp \$

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\* Author: Adam Dunkels <adam@sics.se>

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\* \$Id: pt.h,v 1.2 2006/06/12 08:00:30 adam Exp \$

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* $Id: smtp-strings.c,v 1.3 2006/06/11 21:46:37 adam Exp $
*/
```

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\* Author: Adam Dunkels <adam@sics.se>

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\* \$Id: uip-fw.h,v 1.2 2006/06/12 08:00:30 adam Exp \$

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\* \$Id: smtp.c,v 1.4 2006/06/11 21:46:37 adam Exp \$

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\* \$Id: httpd-cgi.c,v 1.2 2006/06/11 21:46:37 adam Exp \$

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\* \$Id: uip.h,v 1.40 2006/06/08 07:12:07 adam Exp \$\br/>\*  
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\* \$Id: psock.h,v 1.3 2006/06/12 08:00:30 adam Exp \$

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\* \$Id: lc-switch.h,v 1.2 2006/06/12 08:00:30 adam Exp \$

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## 1.688 docker

## 18.09.0+git489b8eda6674523df8b82a210399b

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Go support for Protocol Buffers - Google's data interchange format

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Support for streaming Protocol Buffer messages for the Go language (golang).

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package licensing

```
import (
 "context"
 "crypto/hmac"
 "crypto/sha256"
 "encoding/base64"
 "encoding/json"
 "fmt"
 "time"

 "github.com/docker/libtrust"
 "github.com/docker/licensing/lib/errors"
 "github.com/docker/licensing/lib/go-clientlib"
 "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
 url := c.baseURI
 url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

 license := new(model.IssuedLicense)
 if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecJSON(license)); err != nil {
 return nil, err
 }

 return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
 keyID := license.KeyID
 privateKey := license.PrivateKey

 authorization, err := c.getAuthorization(ctx,
 license)
 if err != nil {
 return nil, err
 }

 // TODO: Mason - replace this parseJWS with a non libtrust lib
 signature, err := libtrust.ParseJWS(authorization)
 if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
 "key_id": keyID,
 }, "license parse JWS failed")
 }
}
```



```

keys, err := signature.Verify()
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
 "key_id": keyID,
 }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
 err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
 return nil, errors.WithStack(err).With(errors.Fields{
 "key_id": keyID,
 })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
 return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
 "key_id": keyID,
 }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if
err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
 "key_id": keyID,
 }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
 return nil, errors.Wrap(err, errors.Fields{
 "key_id": keyID,
 })
}

return checkRes, nil
}

```



```

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
 for _, publicKey := range c.publicKeys {
 if key.KeyID() == publicKey.KeyID() {
 return true
 }
 }
 return false
}

```

```

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
 decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
 if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
 "key_id": license.KeyID,
 }, "decoding license authorization failed")
 }
 return decoded, nil
}

```

```

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

```

```

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.

```

```

func checkToken(message, token, privateKey string) error {
 tokenBytes, err := base64.URLEncoding.DecodeString(token)
 if err != nil {
 return errors.Wrap(err, errors.Fields{"token": token})
 }

```

```

 generatedToken, err := generateToken(message, privateKey)
 if err != nil {
 return errors.Wrap(err, errors.Fields{"token": token})
 }

```

```

 generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
 if err != nil {
 return errors.Wrap(err, errors.Fields{"token": token})
 }

```

```

 if !hmac.Equal(tokenBytes, generatedBytes) {
 return errors.Forbidden(errors.Fields{"token": token},

```



```

 "invalid token")
}

return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
 key, err := base64.URLEncoding.DecodeString(privateKey)
 if err != nil {
 return "", errors.Wrap(err, errors.Fields{"msg": message})
 }

 h := hmac.New(sha256.New, key)
 h.Write([]byte(message))
 return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

```

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procfs provides functions to retrieve system, kernel and process  
metrics from the pseudo-filesystem proc.

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package model

```
import "time"
```

```
// A CheckResponse is the internal content of the PublicCheckResponse signed
```

```
// json blob.
```

```
type CheckResponse struct {
```

```
 Expiration time.Time `json:"expiration"`
```

```
 Token string `json:"token"`
```

```
 MaxEngines int `json:"maxEngines"`
```

```
 ScanningEnabled bool `json:"scanningEnabled"`
```

```
 Type string `json:"licenseType"`
```

```
 Tier string `json:"tier"`
```

```
}
```

```
// IssuedLicense represents an issued license
```

```
type IssuedLicense struct {
```

```
 KeyID string `json:"key_id"`
```

```
 PrivateKey string `json:"private_key"`
```

```
 Authorization string `json:"authorization"`
```

```
}
```

```
// Valid returns true if the License is syntactically valid, false otherwise
```

```
func (l *IssuedLicense) Valid() (bool, string) {
```

```
 if l.KeyID == "" {
```

```
 return false, "empty key_id"
```

```
 }
```

```
 if l.PrivateKey == "" {
```

```
 return false, "empty private_key"
```

```
 }
```

```
 if l.Authorization == "" {
```

```
 return false, "empty authorization"
```

```
 }
```

```
 return true, ""
```

```
}
```

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package formatter

```
import (
 "bytes"
 "encoding/json"
 "strings"
 "testing"
 "time"

 "github.com/docker/cli/internal/licenseutils"
 "github.com/docker/licensing/model"
 "gotest.tools/assert"
 is "gotest.tools/assert/cmp"
)
```

```
func TestSubscriptionContextWrite(t *testing.T) {
 cases := []struct {
 context Context
 expected string
 }{
 // Errors
```



```

{
 Context{Format: "{{InvalidFunction}}"},
 `Template parsing error: template: :1: function "InvalidFunction" not defined
`,
},
{
 Context{Format: "{{nil}}"},
 `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
},
// Table format
{
 Context{Format: NewSubscriptionsFormat("table", false)},
 `NUM OWNER PRODUCT ID EXPIRES PRICING COMPONENTS
1 owner1 productid1 2020-01-01 10:00:00 +0000 UTC compstring
2 owner2 productid2 2020-01-01 10:00:00 +0000
UTC compstring
`,
},
{
 Context{Format: NewSubscriptionsFormat("table", true)},
 `1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
},
{
 Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
 `OWNER
owner1
owner2
`,
},
{
 Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
 `OWNER
owner1
owner2
`,
},
// Raw Format
{
 Context{Format: NewSubscriptionsFormat("raw", false)},
 `license: id1
name: name1
owner: owner1
components: compstring

license: id2

```



```

name: name2
owner: owner2
components: compstring

`,
},
{
 Context{Format: NewSubscriptionsFormat("raw", true)},
 `license: id1
license: id2
`,
},
// Custom Format
{
 Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
 `owner1
owner2
`,
},
}

```

```

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

```

```

for _, testcase := range cases {
 subscriptions
:= []licenseutils.LicenseDisplay{
 {
 Num: 1,
 Owner: "owner1",
 Subscription: model.Subscription{
 ID: "id1",
 Name: "name1",
 ProductID: "productid1",
 Expires: &expiration,
 PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name: "nodes",
 Value: 10,
 },
 },
 },
 ComponentsString: "compstring",
 },
 {
 Num: 2,
 Owner: "owner2",
 Subscription: model.Subscription{
 ID: "id2",

```



```

 Name: "name2",
 ProductID: "productid2",
 Expires: &expiration,
 PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name: "nodes",
 Value: 20,
 },
 },
 ComponentsString: "compstring",
}
out := &bytes.Buffer{}
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
 assert.Error(t, err, testcase.expected)
} else {
 assert.Check(t,
is.Equal(testcase.expected, out.String()))
}
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
 expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
 subscriptions := []licenseutils.LicenseDisplay{
 {
 Num: 1,
 Owner: "owner1",
 Subscription: model.Subscription{
 ID: "id1",
 Name: "name1",
 ProductID: "productid1",
 Expires: &expiration,
 PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name: "nodes",
 Value: 10,
 },
 },
 ComponentsString: "compstring",
 },
 {
 Num: 2,
 Owner: "owner2",

```



```

Subscription: model.Subscription{
 ID: "id2",
 Name: "name2",
 ProductID: "productid2",
 Expires: &expiration,
 PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name: "nodes",
 Value: 20,
 },
 },
 ComponentsString: "compstring",
}
expectedJSONs := []map[string]interface{}{
{
 "Owner":
 "owner1",
 "ComponentsString": "compstring",
 "Expires": "2020-01-01T10:00:00Z",
 "DockerID": "",
 "Eusa": nil,
 "ID": "id1",
 "Start": nil,
 "Name": "name1",
 "Num": float64(1),
 "PricingComponents": []interface{}{
 map[string]interface{}{
 "name": "nodes",
 "value": float64(10),
 },
 },
 "ProductID": "productid1",
 "ProductRatePlan": "",
 "ProductRatePlanID": "",
 "State": "",
 "Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
 "Owner": "owner2",
 "ComponentsString": "compstring",
 "Expires": "2020-01-01T10:00:00Z",
 "DockerID": "",
 "Eusa": nil,
 "ID": "id2",
 "Start": nil,
 "Name": "name2",
}
}

```



```

 "Num": float64(2),
 "PricingComponents": []interface{}{
 map[string]interface{}{
 "name":
"nodes",
 "value": float64(20),
 },
 },
 "ProductID": "productid2",
 "ProductRatePlan": "",
 "ProductRatePlanID": "",
 "State": "",
 "Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}

```

```

out := &bytes.Buffer{ }
err := SubscriptionsWrite(Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
 t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
 var m map[string]interface{}
 if err := json.Unmarshal([]byte(line), &m); err != nil {
 t.Fatal(err)
 }
 assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

```

```

func TestSubscriptionContextWriteJSONField(t *testing.T) {
 subscriptions := []licenseutils.LicenseDisplay{
 {Num: 1, Owner: "owner1"},
 {Num: 2, Owner: "owner2"},
 }
 out := &bytes.Buffer{ }
 err := SubscriptionsWrite(Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
 if
err != nil {
 t.Fatal(err)
 }
 for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
 var s string
 if err := json.Unmarshal([]byte(line), &s); err != nil {
 t.Fatal(err)
 }
 assert.Check(t, is.Equal(subscriptions[i].Owner, s))
 }
}

```



}

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Gocheck - A rich testing framework for Go

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package formatter

```
import (
 "time"
```

```
"github.com/docker/cli/internal/licenseutils"
"github.com/docker/licensing/model"
)
```

```
const (
 defaultSubscriptionsTableFormat = "table
{ {.Num} }\t{ {.Owner} }\t{ {.ProductID} }\t{ {.Expires} }\t{ {.ComponentsString} }"
```



```
defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
```

```
numHeader = "NUM"
ownerHeader = "OWNER"
licenseNameHeader = "NAME"
idHeader = "ID"
dockerIDHeader = "DOCKER ID"
productIDHeader = "PRODUCT ID"
productRatePlanHeader = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader = "START"
expiresHeader = "EXPIRES"
stateHeader = "STATE"
eusaHeader = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"
)
```

```
// NewSubscriptionsFormat returns a Format for rendering using a license Context
```

```
func NewSubscriptionsFormat(source string, quiet bool) Format {
 switch source {
 case TableFormatKey:
 if quiet {
 {
 return defaultSubscriptionsQuietFormat
 }
 return defaultSubscriptionsTableFormat
 case RawFormatKey:
 if quiet {
 return `license: {{.ID}}`
 }
 return `license: {{.ID}}\nname: {{.Name}}\nowner: {{.Owner}}\ncomponents: {{.ComponentsString}}\n`
 }
 return Format(source)
 }
}
```

```
// SubscriptionsWrite writes the context
```

```
func SubscriptionsWrite(ctx Context, subs []licenseutils.LicenseDisplay) error {
 render := func(format func(subContext subContext) error) error {
 for _, sub := range subs {
 licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
 if err := format(licenseCtx); err != nil {
 return err
 }
 }
 return nil
 }
 licenseCtx := licenseContext{ }
 licenseCtx.header = map[string]string{
```



```

 "Num": numHeader,
 "Owner": ownerHeader,
 "Name": licenseNameHeader,
 "ID": idHeader,
 "DockerID": dockerIDHeader,
 "ProductID": productIDHeader,
 "ProductRatePlan": productRatePlanHeader,
 "ProductRatePlanID":
productRatePlanIDHeader,
 "Start": startHeader,
 "Expires": expiresHeader,
 "State": stateHeader,
 "Eusa": eusaHeader,
 "ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
 HeaderContext
 trunc bool
 l licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
 return marshalJSON(c)
}

func (c *licenseContext) Num() int {
 return c.l.Num
}

func (c *licenseContext) Owner() string {
 return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
 return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
 return c.l.String()
}

func (c *licenseContext) Name() string {
 return c.l.Name
}
}

```



```

func (c *licenseContext) ID() string {
 return c.l.ID
}

func (c *licenseContext) DockerID() string {
 return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
 return c.l.ProductID
}

func (c *licenseContext)
ProductRatePlan() string {
 return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
 return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
 return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
 return c.l.Expires
}

func (c *licenseContext) State() string {
 return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
 return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
 // Dereference the pricing component pointers in the pricing components
 // so it can be rendered properly with the template formatter

 var ret []model.SubscriptionPricingComponent
 for _, spc := range c.l.PricingComponents {
 if spc == nil {
 continue
 }
 ret = append(ret, *spc)
 }
}

```



```
return ret
```

```
}
```

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# 1.692 shadow 4.6

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Version 2, June 1991

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Any executables

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## 1.697 tdb 1.43



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```

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* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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For the test\zb.c component:

/\* ZeusBench V1.01

=====

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

\*/

# 1.700 chardet 3.0.4

## 1.700.1 Available under license :

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Version 2.1, February 1999

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# 1.701 webencodings 0.5.1

## 1.701.1 Available under license :

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python-webencodings  
=====



This is a Python implementation of the `WHATWG Encoding standard`  
<<http://encoding.spec.whatwg.org/>>`\_.

- \* Latest documentation: <http://packages.python.org/webencodings/>
- \* Source code and issue tracker:  
<https://github.com/gsnedders/python-webencodings>
- \* PyPI releases: <http://pypi.python.org/pypi/webencodings>
- \* License: BSD
- \* Python 2.6+ and 3.3+

In order to be compatible with legacy web content  
when interpreting something like ``Content-Type: text/html; charset=latin1``,  
tools need to use a particular set of aliases for encoding labels  
as well as some overriding rules.  
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually  
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence  
over any other encoding declaration.  
The Encoding standard defines all such details so that implementations do  
not have to reverse-engineer each other.

This module has  
encoding labels and BOM detection,  
but the actual implementation for encoders and decoders is Python's.

Found in path(s):  
\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst  
No license file was found, but licenses were detected in source scan.

```
from setuptools import setup, find_packages
import io
from os import path
import re
```

```
VERSION = re.search("VERSION = '([^\']+)'", io.open(
 path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
 encoding='utf-8'
).read().strip()).group(1)
```

```
LONG_DESCRIPTION = io.open(
 path.join(path.dirname(__file__), 'README.rst'),
 encoding='utf-8'
).read()
```

```
setup(
```



```

name='webencodings',
version=VERSION,
url='https://github.com/SimonSapin/python-webencodings',
license='BSD',
author='Simon Sapin',
author_email='simon.sapin@exyr.org',
maintainer='Geoffrey Sneddon',
maintainer_email='me@gsnedders.com',
description='Character encoding aliases for legacy web content',
long_description=LONG_DESCRIPTION,
classifiers=[
 'Development Status :: 4 - Beta',
 'Intended Audience :: Developers',
 'License :: OSI Approved :: BSD License',
 'Programming Language
:: Python',
 'Programming Language :: Python :: 2',
 'Programming Language :: Python :: 2.6',
 'Programming Language :: Python :: 2.7',
 'Programming Language :: Python :: 3',
 'Programming Language :: Python :: 3.3',
 'Programming Language :: Python :: 3.4',
 'Programming Language :: Python :: 3.5',
 'Programming Language :: Python :: 3.6',
 'Programming Language :: Python :: Implementation :: CPython',
 'Programming Language :: Python :: Implementation :: PyPy',
 'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

```

Found in path(s):

```

* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-
0.5.1/setup.py

```

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"""

webencodings.mklabels

~~~~~

Regenerate the webencodings.labels module.

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"""







Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/\_\_init\_\_.py

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x\_user\_defined.py

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

Metadata-Version: 1.1

Name: webencodings

Version: 0.5.1

Summary: Character encoding aliases for legacy web content

Home-page: <https://github.com/SimonSapin/python-webencodings>

Author: Geoffrey Sneddon

Author-email: [me@gsnedders.com](mailto:me@gsnedders.com)

License: BSD

Description: python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`\_

<<http://encoding.spec.whatwg.org/>>`\_.

\* Latest documentation: <http://packages.python.org/webencodings/>

\* Source code and issue tracker:

<https://github.com/gsnedders/python-webencodings>

\* PyPI releases: <http://pypi.python.org/pypi/webencodings>

\* License: BSD

\* Python 2.6+ and 3.3+

In order to be compatible with legacy web content

when interpreting something like ``Content-Type: text/html; charset=latin1``,  
tools need to use a particular set

of aliases for encoding labels

as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually  
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence  
over any other encoding declaration.

The Encoding standard defines all such details so that implementations do



not have to reverse-engineer each other.

This module has encoding labels and BOM detection,  
but the actual implementation for encoders and decoders is Python's.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python

:: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO

# 1.702 pyyaml 3.13

## 1.702.1 Available under license :

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## 1.703 libxml 0.18.3.2

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## 1.704 base-64 1.0.0

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## 1.705 fdisk 2.32.1

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

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