Open Source Used In FXOS HIGH END 2.9.1

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1.11 ncurses 6.1+20180630

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Upstream source https://invisible-island.net/ncurses/ncurses.html
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1.12 jansson 2.4 6.el7
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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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Preamble

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

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1.29 e2fsprogs 1.44.3
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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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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image::$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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This is the Debian GNU/Linux prepackaged version of the 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/
From the original distribution:

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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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Send patches to sysvinit-devel@nongnu.org

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>,
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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 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 actually uses, or expects or is expected to use, the product. A product 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, procedures, authorization keys, or other information required to install 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.

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<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="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">
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    </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">
                    Copyright (C) <xsl:text>
                </xsl:text>
            </xsl:with-param>
        </xsl:call-template>
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* configure.ac, Makefile.am: The original versions were derived from the
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* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c2bf2bb5b6.

  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
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**1.40 netbsd-resolv 1.0-r2**

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
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
and the initial implementation of incremental propagation, including
the following new or changed files:

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

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Pietr
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dwarkin
Niesma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Paquet, Eric
Paradis, Chantal
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
The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Casagrande, Milo
1.44 linux-kernel 4.18.45

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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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QLogic Linux qlge NIC Driver

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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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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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.

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specified materials from the same place.

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

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On all platforms, Nmap is normally linked with:
libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
http://www.tcpdump.org/

libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
http://code.google.com/p/libdnet/

PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
http://www.pcre.org/

liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
http://www.lua.org/

OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
http://www.openssl.org/

LIBLINEAR. Used for IPv6 OS classification.
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On Windows only, Nmap uses:

WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:

Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
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The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
    http://www.x.org/ http://www.macports.org/

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Written by: Philip Hazel
Email local part: ph10
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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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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
December 15, 2011

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==================================
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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
This package was debianized by Ron Lee <ron@debian.org> on Sun, 13 Feb 2000 18:40:00 +1030.

More information about wxWidgets, as well as the source these debs are produced from can be found at www.wxwidgets.org

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======================
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-- Ron

--------------------------------------------------------------------------------

Preamble

========

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1.48 libpng 1.4.12

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1.49 cracklib 2.9.5
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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.
[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 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 GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate what license they should be using. thus LGPL-2.1 enters to fill this void.

-dmike

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

------------------------------------------------------------
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
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@gm...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).
I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL....

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.
> I am sympathetic. Guys, what do you reckon?
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL....
> My apologies for not chiming in in anything resembling a reasonable
timeframe.
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.
In any case, I thank you both for working on sorting this out.

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> make the change now?
> yes. go for it. thanks++

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

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

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanim-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtrp020623
for <nneul@umr.edu>;
Mon, 01 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, 01 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)
----- Forwarded message -----
From: Neulinger, Nathan <nneul@umr.edu>
Date: Sep 27, 2007 2:58 PM
Subject: RE: cracklib license

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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^L

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1.51 libbsd 0.9.1

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include/bsd/unistd.h
src/bsd_getopt.c
src/err.c
src/fgetln.c
src/progname.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/fgetwl.3bsd
man/fpurge.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/strconv.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcslepy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
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 * Answer comes from FuseCompress:
 *    Open the folder before the mount,
 *    keep it open all the time,
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 *    and always use a relative path.
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1.56 json-c 1.7.10

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1.57 libssh 1.8.0

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1.58 bzip2 1.0.6 13.el7
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1.59 libpwquality 1.2.3-4.el7

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1.64 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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1.65 libxslt 1.1.32

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1.67 glibc 2.24

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1.74 vim 8.1.0347

1.75 libaio 0.3.111
1.75.1 Available under license:

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1.76 tdb 1.42.9

1.76.1 Available under license :

# 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::
clean:
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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 the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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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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Theodore Ts'o
23-June-2007

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Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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1.81 pango 1.6.0
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1.82 libnl3 3.2.21-10.el7

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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

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

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
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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

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

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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!

1.87 gdbm 1.18

1.87.1 Available under license:

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

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

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a 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" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


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.

2. Basic Permissions.

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5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source 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 actually uses, or expects or is expected to use, the product. A product 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, procedures, authorization keys, or other information required to install 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.

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.92 perl 5.24.4
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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 Module-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

#!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 =~ /.*\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) = $output =~ /copyright 1987.*\b\d{4}\b/i
  or die "Copyright statement not found in perl -v output '$output'";
$year;
}

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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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==================

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
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* - disconnect method added
* - remove_options() abuse removed.
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ppp-2.4.5/pppd/plugins/rp-pppoe/common.c
ppp-2.4.5/pppd/plugins/rp-pppoe/debug.c
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Samba utility functions

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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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* */
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1.106 zip 3.0-10.el7

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1.107 protobuf 3.6.1

1.108 curl 7.61.0

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1.109 libpng 1.2.44

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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3] Bernd Almeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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] Piet Brooks <Piet.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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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
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21] Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
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27. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30] Frank Kardel [31] <kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
GPS clock driver

33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
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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 <rneal@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 Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
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

References
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/\*\[\//\*/e 's/\]\.*$//\*/ < ../sntp/m4/version.m4`\n[ -z "$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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1.118 open-ldap 2.4.46

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1.119 lua 5.3.3

1.120 lsof 4.87

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1.121 tcl 8.5.8

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* 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
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M. Welsh, 6 July 1996

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for the or51211 and or51132 frontend drivers, and
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1.126 icu 53

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```bash
### -*-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/\(.*\)\?/\1.o $@ : /g\" > $@; \\
[ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \\
| sed \"s/\(.*\)\?/\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 =

---

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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

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derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c9f2bb5b6.

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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of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
   (including a physical distribution medium), accompanied by the
   Corresponding Source fixed on a durable physical medium
   customarily used for software interchange.

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

c) Convey individual copies of the object code with a copy of the
   written offer to provide the Corresponding Source. This
   alternative is allowed only occasionally and noncommercially, and
   only if you received the object code with such an offer, in accord
   with subsection 6b.

d) Convey the object code by offering access from a designated
   place (gratis or for a charge), and offer equivalent access to the
   Corresponding Source in the same way through the same place at no
   further charge. You need not require recipients to copy the
   Corresponding Source along with the object code. If the place to
   copy the object code is a network server, the Corresponding Source
   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.

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network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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1.141 zlib 1.2.5

1.141.1 Available under license:

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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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Jean-loup Gailly        Mark Adler
jlo@gnome.org          madler@alumni.caltech.edu

*/

1.142 fontconfig 2.12.6

1.142.1 Available under license :
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1.143 cracklib 2.9.1
1.143.1 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 under= 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 GPL-2 ... it was a modified artistic license ... i didn't notice the license= change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless the applications are also GPL-2 which imo is just wrong. it isn't the place of the library to dictate 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: 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

---------------------------------------------
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

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
GPL-2 ... it was a modified artistic license ... i didn't notice the
license
change until it was mentioned in the latest notes.

Unlike the old license, GPL-2 prevents people from using cracklib
unless their
applications are also GPL-2 which imo is just wrong. It isn't the
place of a
library to dictate 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
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

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

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

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

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From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtp020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
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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[This is the first released version of the Lesser GPL. It also counts
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1.144 kerberos 1.16

1.144.1 Available under license:

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 cmd/krb5/iprop/irop_hdr.h
 cmd/krb5/kadmin/server/iropd_svc.c
 cmd/krb5/kproplog/kproplog.c
 cmd/krb5/slave/kpropd_rpc.c
 lib/gss_mechs/mech_krb5/et/kdb5_err.c
 lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
 lib/gss_mechs/mech_spnego/mach/spnego_mech.c
 lib/krb5/kadm5/kadm_host_srv_names.c
 lib/krb5/kdb/kdb_convert.c
 lib/krb5/kdb/kdb_hdr.h
 lib/krb5/kdb/kdb_log.c
 lib/krb5/kdb/kdb_log.h
 lib/libgss/g_accept_sec_context.c
 lib/libgss/g_acquire_cred.c
 lib/libgss/g_canon_name.c
 lib/libgss/g_compare_name.c
 lib/libgss/g_context_time.c
 lib/libgss/g_delete_sec_context.c
 lib/libgss/g dsp.name.c
 lib/libgss/g dsp_status.c
 lib/libgss/g_dup_name.c
 lib/libgss/g_exp_sec_context.c
 lib/libgss/g_export_name.c
 lib/libgss/g glue.c
 lib/libgss/g_imp_name.c
 lib/libgss/g_imp_sec_context.c
 lib/libgss/g_init_sec_context.c
 lib/libgss/g_initialize.c
 lib/libgss/g_inquire_context.c
 lib/libgss/g_inquire_cred.c
 lib/libgss/g_inquire_names.c
 lib/libgss/g_process_context.c
 lib/libgss/g_rel_buffer.c
 lib/libgss/g_rel_cred.c
 lib/libgss/g_rel_name.c
 lib/libgss/g_rel_oid_set.c
 lib/libgss/g seal.c
 lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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/*

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/*

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<head>
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<title>MIT Kerberos License information — MIT Kerberos Documentation</title>
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
    URL_ROOT: './",
    VERSION: '1.17',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
    HAS_SOURCE: true,
    SOURCELINK_SUFFIX: '.txt'
};
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lib/gssapi/generic/gssapi_err_generic

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and the initial implementation of incremental propagation, including
the following new or changed files:

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables.h
kprop/kpropd_rpc.c
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```
.. 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:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.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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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
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/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/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.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 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('*').lstrip())
        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)

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

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

<one line to give the program's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
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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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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
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a) The modified work must itself be a software library.

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

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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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.

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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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Appendix: How to Apply These Terms to Your New Libraries

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That's all there is to it!

1.147 bison 2.7.12
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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

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5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
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### 1.148 ncurses 6.0

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1.150 libxcb 1.13 1.el7

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Julian Seward, Cambridge, UK.
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]

*/

1.152 1vm2 2.02.180

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clarify this fact.
* 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 3a0982da3082288d796df35f98d787c5c5b5bb6.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

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

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

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``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
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@enumerate a
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The modified work must itself be a software library.

@item
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charge to all third parties under the terms of this License.

@item
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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

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1.177 dhcp 4.3.0

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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"/>
        &amp;#10;  </xsl:text>
      </xsl:for-each>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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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 3a0982da308228d796df35f98d787c5eff2bb5b6.

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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1.181 pcre 8.44

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1.182 libusb 1.0.22

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1.183 openssh 8.0

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THE BASIC LIBRARY FUNCTIONS
-------------------------------

Written by: Philip Hazel
PCRE JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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1.186 grub 2.16

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1.191 python 2.7.17

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
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1.193 zlib 1.2.11

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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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   (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,
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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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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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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Version 3, 29 June 2007

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1.206 iputils s20180629

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Julian Seward, Cambridge, UK.
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*/

#ifndef COMM_H
#define COMM_H

#ifndef HAVE_CONFIG_H
#include <config.h>
#endif

/*
 * COMM_LEN should be the same size as TASK_COMM_LEN in the Linux source
 * at include/linux/sched.h
 */
#define COMM_LEN 16

#endif

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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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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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[  
  'fd6_layout.c',
  'freedreno_layout.c',
],
  include_directories : [inc_freedreno, inc_common],
  c_args : [c_vis_args, no_override_init_args],
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History of the software

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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+----------------+--------------+------------+------------+-----------------+
| Release        | Derived from | Year       | Owner      | GPL compatible? |
+================+==============+============+============+=================+
| 0.9.0 thru 1.2 | n/a          | 1991-1995  | CWI        | yes             |
+----------------+--------------+------------+------------+-----------------+
| 1.3 thru 1.5.2 | 1.2          | 1995-1999  | CNRI       | yes             |
+----------------+--------------+------------+------------+-----------------+
| 1.6             | 1.6          | 2000       | CNRI       | no              |
+----------------+--------------+------------+------------+-----------------+
| 2.0             | 1.6          | 2000       | BeOpen.com | no              |
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Mersenne Twister

---------------

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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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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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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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--------------------------

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
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Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

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-------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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cfuhash
-------

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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.

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<th>Year</th>
<th>Owner</th>
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In practice this means that the value of constants must not change, and that old values may not be reused for new constants.
*************************************************************************
*/

1.229 sudo 1.8.23
1.229.1 Available under license:

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

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vitvslav
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
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienlenberger, Mike
King, Dale
King, Michael
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruosame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sanchez, 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, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
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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.cWru.com by cli.com (4.1/Smi-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cWru.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-ID: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
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 speecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: speecdt@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 speecdt@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 speecdt@armory.com for <chet@po.cwru.edu>)
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:

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 UniversityInternet: chet@po.CWRU.Edu
I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).
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@c End:

1.233 xz 5.1.2-12alpha.el7

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==================

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

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1.235 raritan-ipmi 1 1

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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
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed \"s/\$(\*\$)/\1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@’

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed \"s/\$(\*\$)/\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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1.237 iproute 3.10.0 87.el7

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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_ssl.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_add.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/dh/dh_gen.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_none.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_pk1.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_recp.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/sha_locl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/m_sha1.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_key.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/lhash/lhash.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/stack/stack.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/m_dss1.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/rpc_des.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/cryptlib.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_dsatest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/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/stack/stack.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/test/fips_algvs.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_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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#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGRAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptograms/.
# ====================================================================
#
# 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,$Ghi,$Gctxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Clo,$Cctxlo,$Dlo,$Dctxlo,
$Elo,$Ectxlo,$Glo,$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
  .asg0, __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 $NUM
||[A0]BNOPRA; if ($NUM==0) return;
||[A0]STWFP,*SP--(40); save frame pointer
||[A0]MVSP, FP
||[A0]MVK0x00404,B1
  [A0]STDWB11:B10,*SP[3]
||[A0]STDWA13:A12,*FP[-3]
||[A0]MVKH0x60000,B1
  [A0]STDWA11:A10,*SP[1]
||[A0]MVCB1, AMR; setup circular addressing
||[A0]ADDDB0, SP, SP; alloc(128)
.if __TI_EABI__
  [A0]ANDDB0, SP, SP; align stack at 128 bytes
||[A0]ADDKPC__sha512_block, B1
||[A0]MVKL$PCR_OFFSET(K512, __sha512_block), $K512
  [A0]MVKHS$PCR_OFFSET(K512, __sha512_block), $K512
||[A0]SUBAWSP, 2, SP; reserve two words above buffer
.else
  [A0]ANDDB0, 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]SUBAWS.P,2.SP; reserve two words above buffer
.endif
ADDAWSP,3,$Xilo
ADDS.P,4*2,$Xihi; ADDAWS.P,2,$Xihi

||MVSCTXA,CTXB
LDW*$(CTXA)[0^.LITTLE_ENDIAN],$Ahi; load ctx
||LDW*$(CTXB)[1^.LITTLE_ENDIAN],$Alo
||ADDB1,$K512,$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*$(CTXA)[10^.LITTLE_ENDIAN],$F hi
||LDW*$(CTXB)[11^.LITTLE_ENDIAN],$Flo
LDW*$(CTXA)[12^.LITTLE_ENDIAN],$Ghi
||LDW*$(CTXB)[13^.LITTLE_ENDIAN],$G lo
LDW*$(CTXA)[14^.LITTLE_ENDIAN],$H hi
||LDW*$(CTXB)[15^.LITTLE_ENDIAN],$H lo
LDNDW*$INP++,B11:B10; pre-fetch input
LDDW*$K512++,$Khi:$Klo; pre-fetch K512[0]
outerloop?:
MVK15,B0; loop counters
||MVK64,B1
||SUBA0,1,A0
MV$Ahi,$Actxhi
||MV$Alo,$Actxlo
MV$Bhi,$Bctxhi
||MV$Blo,$Bctxlo
MV$Chi,$Cctxhi
||MV$Clo,$Cctxlo
MV$Dhi,$Dctxhi
||MV$Dlo,$Dctxlo
MV$Ehi,$Ectxhi
||MV$Elo,$Ectxlo
MV$Fhi,$Fctxhi
||MV$Flo,$Fctxlo
MV$Ghi,$Gctxhi
||MV$Glo,$Gctxlo
MV$Hhi,$Hctxhi
||MV$Hlo,$Hctxlo
loop0_15?:
||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
XORS0hi,$S1,hi,$S1hi
||XORS0lo,$S1lo,$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
XOR$t1hi,$S1hi,$S1hi
||XOR$t1lo,$S1lo,$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,$T1hi
||ADDUS$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
XORS0hi,$S0hi,$S0hi
||XORS0lo,$S0lo,$S0lo
||ADD$MAJhi,$T1hi,$T2hi
||ADDUS$MAJlo,$T1carry:$T1lo,$T2carry:$T2lo; T2 = T1+Maj(a,b,c)
||SHRU$Alo,34-32,$t0lo
||SHL$Alo,64-34,$t0hi
XORS0hi,$S0hi,$S0hi
||XORS0lo,$S0lo,$S0lo
||ADD$Ehi,$T1hi,$T1hi
||ADDUSE$lo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += e
||SHRU$Ahi,39-32,$t0lo
||SHL$Ahi,64-39,$t0hi
[B0]BNOPloop0_15?
||[B0]LDNDW*$SINP++,B11:B10; pre-fetch input
XORS0hi,$S0hi,$S0hi
||XORS0lo,$S0lo,$S0lo
||SHRU$Alo,39-32,$t0hi
||SHL$Alo,64-39,$t0lo
||XORS$t0lo,$S0lo,$S0lo
||SHRUST2hi,8,$t0hi
||SHLST2hi,32-8,$t0lo
XORS$t0hi,$S0hi,$S0hi
||XORS$t0lo,$S0lo,$S0lo
||SHRUST2lo,8,$t0lo
||SHLST2lo,32-8,$t0hi
XORS$t0hi,$S0hi,$S0hi
||XORS$t0lo,$S0lo,$S0lo
||ADD$S1hi,$T1hi,$T1hi
||ADDUS$S1lo,$T1lo,$T1carry:$T1lo; T1 = X[i+9]+sigma1()
||SHRUST2hi,7,$t0hi
||SHLST2hi,32-7,$t0lo
XORS$t0hi,$S0hi,$S0hi
||XORS$t0lo,$S0lo,$S0lo
||ADD$S1lo,$T1hi,$T1hi
||ADDUS$S1lo,$T1lo,$T1carry:$T1lo; T1 += X[i]
||SHRUST2lo,7,$t0lo
|| [B1]BNOPloop16_79?
XORS$t0lo,$S0lo,$S0lo; sigma0(X[i]+1]

ADD$S0hi,$T1hi,$T1hi
||ADDUS$S0lo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += sigma0()
|| [B1]SUBB1,1,B1
NOP; avoid cross-path stall
ADDST1carry,$T1hi,$T1hi

STW$T1hi,*$Xhi++[2]; copied "top" bundle
||STW$T1lo,*$Xilo++[2]; X[i] = T1
||ADD$Hhi,$T1hi,$T1hi
||ADDUS$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,$Ahi; accumulate ctx
||ADDUS$Alo,$Actxlo,$Actxlo:$Alo
|| [A0]LDNDW*$INP++,B11:B10; pre-fetch input
|| [A0]ADDK-640,$K512; rewind pointer to K512
ADD$Bhi,$Bctxhi,$Bhi
||ADDUS$Blo,$Bctxlo,$Bctxlo:$Blo
|| [A0]LDDW*$K512++,$Khi:$Klo; pre-fetch K512[0]
ADD$Chi,$Cctxhi,$Chi
||ADDUS$Clo,$Cctxlo,$Cctxlo:$Clo
||[!A0]MV$CTXA,$CTXB
ADD$Dhi,$Dctxhi,$Dhi
||ADDUSDlo,$Dctxlo,$Dctxlo:$Dlo
||ADDSEctxlo,$Bhi,$Bhi
||!A0|STWSAhlo,*${CTXA}[0\.LITTLE_ENDIAN]; save ctx
||!A0|STWSAlo,*${CTXB}[1\.LITTLE_ENDIAN]
ADDSEhi,$Ectxhi,$Ehi
||ADDUSElo,$Ectxlo,$Ectxlo:$Elo
||ADDSECtxlo,$Chi,$Chi
||A0|BNOPouterloop?
||!A0|STWSBhi,*${CTXA}[2\.LITTLE_ENDIAN]
||!A0|STWSBlo,*${CTXB}[3\.LITTLE_ENDIAN]
ADDSFhi,$Fctxhi,$Fhi
||ADDUSFlo,$Fctxlo,$Fctxlo:$Flo
||ADDSDctxlo,$Dhi,$Dhi
||!A0|STWSChi,*${CTXA}[4\.LITTLE_ENDIAN]
||!A0|STWSClo,*${CTXB}[5\.LITTLE_ENDIAN]
ADDSGhi,$Gctxhi,$Ghi
||ADDUSGlo,$Gctxlo,$Gctxlo:$Glo
||ADDSEctxlo,$Ehi,$Ehi
||!A0|STWSDhi,*${CTXA}[6\.LITTLE_ENDIAN]
||!A0|STWSDlo,*${CTXB}[7\.LITTLE_ENDIAN]
ADDSHhi,$Hctxhi,$Hhi
||ADDUSHlo,$Hctxlo,$Hctxlo:$Hlo
||ADDSFctxlo,$Fhi,$Fhi
||!A0|STWSEhi,*${CTXA}[8\.LITTLE_ENDIAN]
||!A0|STWSElo,*${CTXB}[9\.LITTLE_ENDIAN]
ADDSGctxlo,$Ghi,$Ghi
||!A0|STWSFhi,*${CTXA}[10\.LITTLE_ENDIAN]
||!A0|STWSFlo,*${CTXB}[11\.LITTLE_ENDIAN]
ADDSHctxlo,$Hhi,$Hhi
||!A0|STWSGhi,*${CTXA}[12\.LITTLE_ENDIAN]
||!A0|STWSGlo,*${CTXB}[13\.LITTLE_ENDIAN]
;;;;= branch to outerloop? is taken here
STWSHhi,*${CTXA}[14\.LITTLE_ENDIAN]
||STWSHlo,*${CTXB}[15\.LITTLE_ENDIAN]
||MVK-40,B0
ADDFP,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
||BNOPR
LDW*++SP(40),FP; restore frame pointer
MVK0,B0
MVCB0,AMR; clear AMR
NOP2; 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, 0x0b6d5019

.uword 0x923f82a4, 0xaaf194f9b, 0xab1c5ed5, 0xda6d8118

.uword 0x807aa98, 0x3a303242, 0x12835b01, 0x45706f6b

.uword 0x243185be, 0x4ee4b28c, 0x550c7dc3, 0x0d5f8b4e2

.uword 0x72be5d74, 0xf27bb96f, 0x80deb1fe, 0x3b1696bb1

.uword 0x98bd6ca7, 0x25c71235, 0x19bf174, 0xc692694

.uword 0xe9bf69c1, 0x9ef14ad2, 0xefbe4786, 0x384f25e3

.uword 0x0fca9d6c, 0x8bb8cde5b5, 0x240ca1cc, 0x77ae9c65

.uword 0x2de92c6f, 0x592b0275, 0x4a7484aa, 0x6e96e483

.uword 0x5c0a9d6c, 0xbdd41fbd4, 0x76f988da, 0x0a31135b

.uword 0x983e5152, 0xbee66dfab, 0xa831ce66, 0x2db43210

.uword 0xb00327c8, 0x98fb213f, 0xbf5977c7, 0x0bee0e4e4

.uword 0xc60e0fb3, 0x3da88f2c, 0xd5a79147, 0x930a7725

.uword 0x06c6a6351, 0xe003826f, 0x14292967, 0x0a0e6e70

.uword 0x27b70a85, 0x4622ffcc, 0xe2e1b218, 0x5c26c926

.uword 0x0d2c6edf, 0x5ac42aed, 0x053380d13, 0x9d95b3df

.uword 0x650a7534, 0x8bab63de, 0x766a0abb, 0x3c77b2a8

.uword 0x081c292e, 0x47edaee6, 0x92722c85, 0xbdb2353b

.uword 0xa2fc8ea1, 0x4e4f1036, 0xa81af664, 0xe01bc42301

.uword 0x12e24b870, 0xd0f89791, 0xc76c51a3, 0x0654abe30

.uword 0xd192e19, 0x66ef5218, 0xd690624, 0x5565a910

.uword 0xf40c3585, 0x5771202a, 0x106aa070, 0x32bd1b18

.uword 0x19a4c116, 0xb8d2d0c8, 0x1e376c08, 0x5141ab53

.uword 0x07748774, 0xdf8e99b9, 0x34b0beb5, 0xe19b48a8

.uword 0x391c0cb3, 0xce5c95a63, 0x4ed8aa4a, 0xe341a85c

.uword 0x5b9caca4, 0x7763e373, 0x682e6ff3, 0xd6db28a3

.uword 0x748f82ee, 0x5fdefb2f, 0x78a5636f, 0x4317f60

.uword 0x84c87814, 0xa1f0ab72, 0x88ec70208, 0xa16439e9

.uword 0x9d8e6b4b, 0x8a0d0eb1e, 0x8f57df47f, 0xe00ed6178

.uword 0x05f6f07a, 0x17217fb6, 0x0a637dc5, 0xa2c898a6

.uword 0x13f9804, 0x4be90daa, 0x1b710b35, 0x131c471b

.uword 0x28d77f5, 0x23047d84, 0x32caab7b, 0x40c72493

.uword 0x3c9ebe0a, 0x15c9bebc, 0x431d67c4, 0x9e10d04c

.uword 0x4f3d4be, 0x0cb3e4266, 0x597ef99c, 0xc0fd57e2a

.uword 0x5f6b6fab, 0x3ad6fa0c, 0x6c44198c, 0xa4f75817

cstring "SHA512 block transform for C64x, CRYPTOGRAMS by <appro@openssl.org>"
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-c64x.pl
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#
# ====================================================================
# 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).
#
#$flavour = shift;
if ($flavour =~ /64/) {
    $SIZE_T=8;
    $LRSAVE=2*$SIZE_T;
    $STU="stdu";
    $POP="ld";
    $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

  .align7
  rcon:
  .long0x01000000, 0x01000000, 0x01000000, 0x01000000?rev

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.long 0x1b000000, 0x1b000000, 0x1b000000, 0x1b000000
.long 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c
.long 0, 0, 0, 0
Lconsts:
mflr 0
bcl 120, 31, $+4
mflr $ptr # vvvv "distance between . and rcon
addi $ptr, $ptr, -0x48
mflr 0
.blr
.long 0
.byte 0, 12, 0x14, 0, 0, 0, 0, 0
.asciz "AES for PowerISA 2.07, CRYPTOGRAMS by <appro\@openssl.org>"

.globl .${prefix}_set_encrypt_key
.align 5
${prefix}_set_encrypt_key:

${Lset_encrypt_key:
mflr 11
$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, 0xfff0
mfspr $vrsave, 256
mtspr 256, r0

bL Lconsts
mflr 11

neg r9, $inp
lvx $in0, 0, $inp
addi $inp, $inp, 15 # 15 is not typo
lvsr $key, 0, r9 # borrow $key
lir 8, 0x20
cmpwi $bits, 192
lvx $in1, 0, $inp
le?vspltsb$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
mtctrs$cnt

?vlsr$outperm,0,$out
v spltsb$soutmask,-1
lvx$southead,0,$out
?vperm$soutmask,$zero,$outmask,$outperm

bltLoop128
addi$inp,$inp,8
beq$L192
addi$inp,$inp,8
b$L256

.align4
Loop128:
vperm$key,$in0,$in0,$mask# rotate-n-splat
vsldoi$tmp,$zero,$in0,12# >>32
vperm$souttail,$in0,$in0,$soutperm# rotate
vsel$stage,$southead,$souttail,$soutmask
vmr$southead,$souttail
vcipherlast$key,$key,$rcon
stvx$stage,0,$out
addi$sout,$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
bdnzLoop128

lvx$rcon,0,$ptr# last two round keys

vperm$key,$in0,$in0,$mask# rotate-n-splat
vsldoi$tmp,$zero,$in0,12# >>32
vperm$souttail,$in0,$in0,$soutperm# rotate
vsel$stage,$southead,$souttail,$soutmask
vmr$southead,$souttail
vcipherlast$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,$mask# rotate-n-splat
vsldoi$in0,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vsldoi$in0,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vxor$in0,$in0,$key
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,$tmp
vxor$in0,$in0,$key
vperm$outtail,$in0,$in0,$outperm# rotate
vsel$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
stvx$stage,0,$out

addi$inp,$out,15# 15 is not typo
addi$out,$out,0x50

li$rounds,10
bLdone

.align4
L192:
lvx$tmp,0,$inp
li$cnt,4
vperm$outhead,$in0,$in0,$outperm# rotate
vsel$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
stvx$stage,0,$out
addi$out,$out,16
vperm$in1,$tmp,$key# align [and byte swap in LE]
vspltisb$key,8# borrow $key
mtctr$cnt
vsunubm$mask,$mask,$key# adjust the mask

Loop192:
vperrm$key,$in1,$in1,$mask# roate-n-splat
vslpdo$in1,$zero,$in0,12# >>32
vcipherlast$key,$key,$rcon

vxor$in0,$in0,$tmp
vslpdo$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vslpdo$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vslpdo$stage,$zero,$in1,8
vspltw$tmp,$in0,3
vxor$tmp,$tmp,$in1
vslpdo$in1,$zero,$in1,12# >>32
vadduw$mcon,$rcon,$rcon,$rcon
vxor$in1,$in1,$tmp
vxor$in0,$in0,$key
vxor$in1,$in1,$key
vslpdo$stage,$stage,$in0,8

vperrm$key,$in1,$in1,$mask# rotate-n-splat
vslpdo$zero,$zero,12# >>32
vperrm$outhead,$stage,$stage,$ouperm# rotate
vsel$stage,$outhead,$outhead,$outhead
vmr$outhead,$outhead
vcipherlast$key,$key,$rcon
stvx$stage,0,$out
addi$outhead,$outhead,16

vslpdo$stage,$in0,$in1,8
vxor$in0,$in0,$tmp
vslpdo$zero,$zero,$tmp,12# >>32
vperrm$outhead,$stage,$stage,$ouperm# rotate
vsel$stage,$outhead,$outhead,$outhead
vmr$outhead,$outhead
vxor$in0,$in0,$tmp
vslpdo$zero,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
stvx$stage,0,$out
addi$outhead,$outhead,16

vslpdo$tmp,$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 $stage,$outhead,$outtail,$outmask
vmr $outhead,$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
.align4
L256:
lvx $tmp,0,$inp
li $cnt,7
li $rounds,14
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$outhead,$outtail,$outmask
vmr $outhead,$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 $stage,$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 $outtail,$in0,$in0,$outperm # rotate
vsel$stage,$outhead,$outtail,$outmask
vmr$outhead,$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
vxor$in1,$in1,$tmp
vxor$in1,$in1,$key
bLloop256

.align4
Ldone:
 lvx$in1,0,$inp# redundant in aligned case
vsel$in1,$outhead,$in1,$outmask
stvx$in1,0,$inp
li$ptr,0
mtspr256,$vrsave
stw$rounds,0($out)

Lenc_key_abort:
mrr3,$ptr
blr
.long0
.byte0,12,0x14,1,0,3,0
.long0
.size.$(prefix)_set_encrypt_key,-.$(prefix)_set_encrypt_key

.globl.$(prefix)_set_decrypt_key
.align5
.$(prefix)_set_decrypt_key:
$STUS$sp,-$FRAME($sp)
mflr10
$PUSHr10,$FRAME+$LRSAVE($sp)
blLset_encrypt_key
mtlr10

cmpwi$r3,0
bne- Ldec_key_abort

bne-Ldec_key_abort
slwiScnt,$rounds,4
subi$inp,$out,240 # first round key
srwi$rrounds,$rounds,1
addi$out,$inp,$cnt # last round key
mtctr$rrounds

Ldeckey:
lwzr0, 0($inp)
lwzr6, 4($inp)
lwzr7, 8($inp)
lwzr8, 12($inp)
addi$inp,$inp,16
lwzr9, 0($out)
lwzr10,4($out)
lwzr11,8($out)
lwzr12,12($out)
stw0, 0($out)
stw6, 4($out)
stw7, 8($out)
stw8, 12($out)
subi$out,$out,16
stw9, -16($inp)
stw10,-12($inp)
stw11,-8($inp)
stw12,-4($inp)
bdnzLdeckey

xor3,r3,r3 # return value
Ldec_key_abort:
addi$sp,$sp,$FRAME
blr
.long
.byte0,12,4,1,0x80,0,3,0
.long
.size.$(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
   .align
} {"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));

  $code.=
   .globl
   .align
}
.${prefix}_${dir}crypt:
lwz$srounds,240($key)
lisr0,0xfc00
mfspr$vrsave,256
li$idx,15# 15 is not typo
mtspr256,r0

lvxv0,0,$inp
negr11,$out
lvxv1,$idx,$inp
lvslv2,0,$inp# inpperm
le?vspltisbv4,0x0f
?lvslv3,0,r11# outperm
le?vxorv2,v2,v4
li$idx,16
vpermv0,v0,v1,v2# align [and byte swap in LE]
lvxv1,0,$key
?lvslv5,0,$key# keyperm
srwi$srounds,$rounds,1
lvxv2,$idx,$key
addi$idx,$idx,16
subi$srounds,$rounds,1
?vpermv1,v1,v2,v5# align round key

vxorv0,v0,v1
lvxv1,$idx,$key
addi$idx,$idx,16
mtctr$srounds

Loop_${dir}c:
?vpermv2,v2,v1,v5
v${n}cipher0,v0,v2
lvxv2,$idx,$key
addi$idx,$idx,16
?vpermv1,v1,v2,v5
v${n}cipher0,v0,v1
lvxv1,$idx,$key
addi$idx,$idx,16
bdnzLoop_${dir}c

?vpermv2,v2,v1,v5
v${n}cipher0,v0,v2
lvxv2,$idx,$key
?vpermv1,v1,v2,v5
v${n}cipherlast0,v0,v1

vspltisbv2,-1
vxorv1,v1,v1
li$idx, 15  # 15 is not typo
?vpermv2, v1, v2, v3  # outmask
le?vxorv3, v3, v4
lvxv1, 0, $out# outhead
vpermv0, v0, v0, v3  # rotate [and byte swap in LE]
vselv1, v1, v0, v2
lvxv4, $idx, $out
stvxv1, 0, $out
vselv0, v0, v4, v2
stvxv0, $idx, $out

mtspr256, $vrsave
blr
.long 0
.byte 0, 12, 0x14, 0, 0, 3, 0
.long 0
.size .${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
blr-

.cmpwi$enc, 0  # test direction
li$r0, 0xffe0
mfspr$vrsave, 256
mtspr256, $r0

li$idx, 15
vxor$rndkey0, $rndkey0, $rndkey0
le?vsplitb$tmpl, 0x0f

lvx$ivvec, 0, $ivp# load [unaligned] iv
lvsl$inperm0, $ivp
lvx$inptail, $idx, $ivp
le?vxor$inperm, $inperm, $tmpl

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vperm$sivec,$ivec,$inptail,$inpperm

neg$r11,$inp
?
?lvs$keyperm,0,$key# prepare for unaligned key
lwz$rounds,240($key)

lvsr$inpperm,0,r11# prepare for unaligned load
lvs,$inptail,0,$inp
addi$inp,$inp,15# 15 is not typo
le?vxor$inpperm,$inpperm,$tmp

?lvsr$inpperm,0,$out# prepare for unaligned store
vspltisb$outmask,-1
lvs,$outhead,0,$out
?vperm$outmask,$rndkey0,$outmask,$outperm
le?vxor$outperm,$outperm,$tmp

srwi$rounds,$rrounds,1
li$idx,16
subi$rrounds,$rounds,1
beqLcbc_dec

Lcbc_enc:
vmr$inout,$inptail
lvs,$inptail,0,$inp
addi$inp,$inp,16
mtctr$rrounds
subi$len,$len,16# len-=16

lvs$rndkey0,0,$key
vperm$inout,$inout,$inptail,$inpperm
lvs$rndkey1,$idx,$key
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$inout,$inout,$rndkey0
lvs$rndkey0,$idx,$key
addi$idx,$idx,16
vxor$inout,$inout,$ivec

Loop_cbc_enc:
?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$inout,$inout,$rndkey1
lvs$rndkey1,$idx,$key
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher$inout,$inout,$rndkey0
lvs$rndkey0,$idx,$key
addi$idx,$idx,16
bdnzLoop_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$tmpl,$ivec,$ivec,$outperm
vsel$inout,$outhead,$tmpl,$outmask
vmr$outhead,$tmpl
stvx$inout,0,$out
addi$tmpl,$out,16
bgeLcbc_enc

bLcbc_done

.align4
Lcbc_dec:
$(UCMP)i$len,128
bge_aesp8_cbc_decrypt8x
vmr$tmpl,$inptail
lvx$inptail,0,$inp
addi$tmpl,$inp,16
mtctr$rounds
subi$len,$len,16# len-=16

lvx$rndkey0,0,$key
vperm$tmpl,$tmpl,$inptail,$inpperm
lvx$rndkey1,$idx,$key
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$inout,$tmpl,$rndkey0
lvx$rndkey0,$idx,$key
addi$idx,$idx,16

Loop_cbc_dec:
?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
bdnzLoop_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,$outperm
lvx$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,$out,16
bge$cbc_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
?vls$outhead,$Senc
?vperm$outhead,$rndkey0,$outmask,$Soutperm
le?vxor$outhead,$Soutperm,$tmp
lvx$outhead,0,$ivp
vperm$ivec,$ivec,$ivec,$outperm
vsel$inout,$outhead,$ivec,$outmask
stvx$inout,0,$ivp
vsel$inout,$ivec,$inptail,$outmask
stvx$inout,$idx,$ivp

mtspr256,$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 ($x0,$x1,$x2,$x3,$x4,$x5,$x6,$x7 )=map("v$_",(0..3,10..13));
my ($x0,$x1,$x2,$x3,$x4,$x5,$x6,$x7 )=map("v$_",(0..3,10..13));
my $rndkey0="v23";
# v24-v25 rotating buffer for first found keys
# v26-v31 last 6 round keys
my (tmp,$keyperm)=( Sin3, Sin4); # aliases with "caller", redundant assignment

$code.=<<___;
.align 5
_aesp8_cbc_decrypt8:

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
sw $vrsave,`$FRAME+21*16-4`($sp)# save vrsave
li$x10,0x10
SPUSHr26,`$FRAME+21*16+0*SIZE_T`($sp)
li$x20,0x20
SPUSHr27,`$FRAME+21*16+1*SIZE_T`($sp)
li$x30,0x30
SPUSHr28,`$FRAME+21*16+2*SIZE_T`($sp)
li$x40,0x40
SPUSHr29,`$FRAME+21*16+3*SIZE_T`($sp)
li$x50,0x50
$PUSHr30.`$FRAME+21*16+4*FSIZE_T`($sp)
li$x60,0x60
$PUSHr31.`$FRAME+21*16+5*FSIZE_T`($sp)
li$x70,0x70
mtspr256,r0

subi$rounds,$rounds,3# -4 in total
subi$len,$len,128# bias

lvx$rndkey0,$x00,$key# load key schedule
lvxv30,$x10,$key
addi$key,$key,0x20
lvxv31,$x00,$key
?vperm$rndkey0,$rndkey0,v30,$keyperm
addi$key_,$sp,$FRAME+15
mtctr$rounds

Load_cbc_dec_key:
?vpermv24,v30,v31,$keyperm
lvxv30,$x10,$key
addi$key,$key,0x20
stvxv24,$x00,$key_ # off-load round[1]
?vpermv25,v31,v30,$keyperm
lvxv31,$x00,$key
stvxv25,$x10,$key_ # off-load round[2]
addi$key_,$key_0x20
bdnzLoad_cbc_dec_key

lvxv26,$x10,$key
?vpermv24,v30,v31,$keyperm
lvxv27,$x20,$key
stvxv24,$x00,$key_ # off-load round[3]
?vpermv25,v31,v26,$keyperm
lvxv28,$x30,$key
stvxv25,$x10,$key_ # off-load round[4]
addi$key_,$sp,$FRAME+15# rewind $key_
?vpermv26,v26,v27,$keyperm
lvxv29,$x40,$key
?vpermv27,v27,v28,$keyperm
lvxv30,$x50,$key
?vpermv28,v28,v29,$keyperm
lvxv31,$x60,$key
?vpermv29,v29,v30,$keyperm
lvx$vout0,$x70,$key# borrow $out0
?vpermv30,v30,v31,$keyperm
lvxv24,$x00,$key_ # pre-load round[1]
?vpermv31,v31,$vout0,$keyperm
lvxv25,$x10,$key_ # pre-load round[2]
lvx_u$in0,$x00,$inp# load first 8 "words"
le!lvxperm,0,$idx
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$rounds
bLoop_cbc_dec8x
.align5
Loop_cbc_dec8x:
vncipher$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,$out7,v24
lvxv24,$x20,$key_# round[3]
addi$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

lvx25,$x10,$key_ round[4]
bdnzLoop_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 24,\$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 25,\$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\$sin0,\$sin0,\$v31
vncipher\$out2,\$out2,\$v30
vxor\$sin1,\$sin1,\$v31
vncipher\$out3,\$out3,\$v30
vxor\$sin2,\$sin2,\$v31
vncipher\$out4,\$out4,\$v30
vxor\$sin3,\$sin3,\$v31
vncipher\$out5,\$out5,\$v30
vxor\$sin4,\$sin4,\$v31
vncipher\$out6,\$out6,\$v30
vxor\$sin5,\$sin5,\$v31
vncipher\$out7,\$out7,\$v30
vxor\$sin6,\$sin6,\$v31

vncipherlast\$out0,\$out0,\$ivec
vncipherlast\$out1,\$out1,\$sin0
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?
addi $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
lvxv24, $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
lvxv25, $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
vxor $in1,$in1,v31
vxor $in2,$in2,v31
vxor $in3,$in3,v31
vxor $in4,$in4,v31
vxor $in5,$in5,v31
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, $inperm
le?vperm $out2, $out2, $inperm
stvx_u $out1, $x00, $out
le?vperm $out3, $out3, $inperm
stvx_u $out2, $x10, $out
le?vperm $out4, $out4, $inperm
stvx_u $out3, $x20, $out
le?vperm $out5, $out5, $inperm
stvx_u $out4, $x30, $out
le?vperm $out6, $out6, $inperm
stvx_u $out5, $x40, $out
le?vperm $out7, $out7, $inperm
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
bLcbc_dec8x_done

.align5
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
bLcbc_dec8x_done

.align5
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_usout4,$x00,$out
le?vperm$sout5,$out5,$out5,$inpperm
stvx_usout5,$x10,$out
le?vperm$sout6,$out6,$out6,$inpperm
stvx_usout6,$x20,$out
stvx_usout7,$x30,$out
addi$sout,$out,0x40
bLcbc_dec8x_done

.align 5
Lcbc_dec8x_three:
vncipherlast$sout5,$out5,$ivec
vncipherlast$sout6,$out6,$in5
vncipherlast$sout7,$out7,$in6
vmr$ivec,$in7

le?vperm$sout5,$out5,$out5,$inpperm
le?vperm$sout6,$out6,$out6,$inpperm
stvx_usout5,$x00,$out
le?vperm$sout7,$out7,$out7,$inpperm
stvx_usout6,$x10,$out
stvx_usout7,$x20,$out
addi$sout,$out,0x30
bLcbc_dec8x_done

.align 5
Lcbc_dec8x_two:
vncipherlast$sout6,$out6,$ivec
vncipherlast$sout7,$out7,$in6
vmr$ivec,$in7

le?vperm$sout6,$out6,$out6,$inpperm
le?vperm$sout7,$out7,$out7,$inpperm
stvx_usout6,$x00,$out
stvx_usout7,$x10,$out
addi$sout,$out,0x20
bLcbc_dec8x_done

.align 5
Lcbc_dec8x_one:
vncipherlast$sout7,$out7,$ivec
vmr$ivec,$in7

le?vperm$sout7,$out7,$out7,$inpperm
stvx_usout7,0,$out
addi$sout,$out,0x10

Lcbc_dec8x_done:
le?vperm$ivec,$ivec,$ivec,$inpperm
stvx_u$ivec,0,$ivp# write [unaligned] iv

lir10,'$FRAME+15'
lir11,'$FRAME+31'
stvx$inpperm,r10,$sp# wipe copies of round keys
addir10,r10,32
stvx$inpperm,r11,$sp
addir11,r11,32
stvx$inpperm,r10,$sp
addir10,r10,32
stvx$inpperm,r11,$sp
addir11,r11,32
stvx$inpperm,r10,$sp
addir10,r10,32
stvx$inpperm,r11,$sp
addir11,r11,32
stvx$inpperm,r10,$sp
addir10,r10,32
stvx$inpperm,r11,$sp
addir11,r11,32
stvx$inpperm,r10,$sp
addir10,r10,32
stvx$inpperm,r11,$sp
addir11,r11,32

mtspr256,$vrsave
lvx20,r10,$sp# ABI says so
addir10,r10,32
lvx21,r11,$sp
addir11,r11,32
lvx22,r10,$sp
addir10,r10,32
lvx23,r11,$sp
addir11,r11,32
lvx24,r10,$sp
addir10,r10,32
lvx25,r11,$sp
addir11,r11,32
lvx26,r10,$sp
addir10,r10,32
lvx27,r11,$sp
addir11,r11,32
lvx28,r10,$sp
addir10,r10,32
lvx29,r11,$sp
addir11,r11,32
lvx30,r10,$sp
addir11,$r11,32
lvx31,$r11,3sp
$SPOP26,'$FRAME+21*16+0*SIZE_T'($sp)
$SPOP27,'$FRAME+21*16+1*SIZE_T'($sp)
$SPOP28,'$FRAME+21*16+2*SIZE_T'($sp)
$SOPr29, $SFRAME+21*16+3*$SIZE_T($sp)
$SOPr30, $SFRAME+21*16+4*$SIZE_T($sp)
$SOPr31, $SFRAME+21*16+5*$SIZE_T($sp)
addi$sp,$sp,$SFRAME+21*16+6*$SIZE_T
blr
.long0
.byte0,12,0x04,0,0x80,6,6,0
.long0
.size.${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 ($ivec,$inptail,$inpperm,$outhead,$outperm,$outmask,$keyperm,$one)=map("v$_",(4..11));
my $dat=$tmp;
$code.=<<___;
.globl.${prefix}_ctr32_encrypt_blocks
.align5
.${prefix}_ctr32_encrypt_blocks:
$UCMPi$len,1
bltir-

lisr0,0xfff0
mfspr$vrsave,256
mtspr256,r0

li$idx,15
vxor$rndkey0,$rndkey0,$rndkey0
le?vsplitb$tmp,0x0f

lvx$ivec,0,$ivp# load [unaligned] iv
lvx$inperm,0,$ivp
lvx$inptail,$idx,$ivp
vsplitb$one,1
le?vxor$inperm,$inperm,$tmp
vpermv$ivec,$ivec,$inptail,$inperm
vsldoi$one,$rndkey0,$rndkey0,$one,1

negr11,$inp
?lvx$perm,0,$key# prepare for unaligned key
lwz$rounds,240($key)

lvx$perm,0,r11# prepare for unaligned load
lvx$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_aes$p8_ctr32_encrypt8x

?lvx$outperm,0,$out# prepare for unaligned store
vsplitisb$outmask,-1
lvx$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

.align5
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

vadduwmsivec,$ivec,Sone
vmr$dat,$inptail
lvx$inptail,0,$inp
addi$inp,$inp,16
subi.$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,$outhead,$inout,$outmask
mtctr\$rounds
?vperm\$rndkey0,$rndkey0,$rndkey1,$keyperm
vmr\$outhead,$inout
vxor\$inout,$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

mtsp\$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
_aesp8_ctr32_encrypt8x:
$STU$sp,-(\$FRAME+21*16+6*$SIZE_T)($sp)
lir10, `$FRAME+8*16+15`
lir11, `$FRAME+8*16+31`

stvxv20, r10, $sp # ABI says so
addir10, r10, 32
stvxv21, r11, $sp
addir11, r11, 32
stvxv22, r10, $sp
addir10, r10, 32
stvxv23, r11, $sp
addir11, r11, 32
stvxv24, r10, $sp
addir10, r10, 32
stvxv25, r11, $sp
addir11, r11, 32
stvxv26, r10, $sp
addir10, r10, 32
stvxv27, r11, $sp
addir11, r11, 32
stvxv28, r10, $sp
addir10, r10, 32
stvxv29, r11, $sp
addir11, r11, 32
stvxv30, r10, $sp
stvxv31, r11, $sp
lir0,-1

stw$vrsave, `$FRAME+21*16-4`($sp) # save vrsave
li$x10, 0x10
$PUSHr26, `$FRAME+21*16+0*sizeof_T`($sp)
li$x20, 0x20
$PUSHr27, `$FRAME+21*16+1*sizeof_T`($sp)
li$x30, 0x30
$PUSHr28, `$FRAME+21*16+2*sizeof_T`($sp)
li$x40, 0x40
$PUSHr29, `$FRAME+21*16+3*sizeof_T`($sp)
li$x50, 0x50
$PUSHr30, `$FRAME+21*16+4*sizeof_T`($sp)
li$x60, 0x60
$PUSHr31, `$FRAME+21*16+5*sizeof_T`($sp)
li$x70, 0x70

mtspr256, r0

subi$rounds, $rounds, 3 # -4 in total

lvx$rndkey0, $x00, $key # load key schedule
lvxv30, $x10, $key
addi$key, $key, 0x20
lvxv31, $x00, $key
?vperm$rndkey0, $rndkey0, v30, $keyperm
addi$kkey_,$sp,$FRAME+15
mtctr$rounds

Load_ctr32_enc_key:
?vperm24,v30,v31,$keyperm
lvx230,$x10,$key
addi$kkey,$key,0x20
stvx245,$x00,$key_ # off-load round[1]
?vperm25,v31,v30,$keyperm
lvx25,$x00,$key
stvx255,$x10,$key_ # off-load round[2]
addi$kkey_,$key_0x20
bdnzLoad_ctr32_enc_key

lvx265,$x10,$key
?vperm24,v30,v31,$keyperm
lvx27,$x20,$key
stvx245,$x00,$key_ # off-load round[3]
?vperm25,v31,v26,$keyperm
lvx28,$x30,$key
stvx255,$x10,$key_ # off-load round[4]
addi$kkey_,$sp,$FRAME+15# rewind $key_
?vperm26,v26,v27,$keyperm
lvx29,$x40,$key
?vperm27,v27,v28,$keyperm
lvx30,$x50,$key
?vperm28,v28,v29,$keyperm
lvx31,$x60,$key
?vperm29,v29,v30,$keyperm
lvx$out0,$x70,$key# borrow $out0
?vperm30,v30,v31,$keyperm
lvx25,$x10,$key_ # pre-load round[1]
?vperm31,v31,$out0,$keyperm
lvx25,$x10,$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?lvslinpperm,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
bLoop_ctr32_enc8x
.align5
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]
bdnzLoop_ctr32_enc8x

subicr11,$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
subfe0,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

andr0,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
lvx24,$x00,$key_		# re-pre-load round[1]

subic$len,$len,129	# $len-=129
vcipher $out0,$out0,v27
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
lvx25,$x10,$key_		# re-pre-load round[2]

vcipher $out0,$out0,v28
lvx_u$sin0,$x00,$inp# load input
vcipher $out1,$out1,v28
lvx_u$sin1,$x10,$inp
vcipher $out2,$out2,v28
lvx_u$sin2,$x20,$inp
vcipher $out3,$out3,v28
lvx_u$sin3,$x30,$inp
vcipher $out4,$out4,v28
lvx_u$sin4,$x40,$inp
vcipher $out5,$out5,v28
lvx_u$sin5,$x50,$inp
vcipher $out6,$out6,v28
lvx_u $in6,$x60,$inp
cipher $out7,$out7,v28
lvx_u $in7,$x70,$inp
add $inp,$inp,0x80
cipher $out0,$out0,v29
cipher $out1,$out1,v29
le?vperm $in0,$in0,$in0,$inpperm
cipher $out2,$out2,v29
vcipher $out0,$out0,v29
vcipher $out1,$out1,v29
vcipher $out2,$out2,v29
vcipher $out3,$out3,v29
vcipher $out4,$out4,v29
vcipher $out5,$out5,v29
vcipher $out6,$out6,v29
vcipher $out7,$out7,v29
vcipher $out0,$out0,v29
vcipher $out1,$out1,v29
vcipher $out2,$out2,v29
vcipher $out3,$out3,v29
vcipher $out4,$out4,v29
vcipher $out5,$out5,v29
vcipher $out6,$out6,v29
vcipher $out7,$out7,v29
vcipher $out0,$out0,v30
vxor $in0,$in0,v31 # xor with last round key
cipher $out1,$out1,v30
vxor $in1,$in1,v31
cipher $out2,$out2,v30
vxor $in2,$in2,v31
cipher $out3,$out3,v30
vxor $in3,$in3,v31
cipher $out4,$out4,v30
vxor $in4,$in4,v31
cipher $out5,$out5,v30
vxor $in5,$in5,v31
cipher $out6,$out6,v30
vxor $in6,$in6,v31
cipher $out7,$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, $one # counter values ...
vcipher $in2, $out2, $in2
vadduwm $out2, $ivec, $two
vxor $out0, $ivec, $rndkey0 # ... xored with rndkey[0]
vcipher $in3, $out3, $in3
vadduwm $out3, $out1, $two
vxor $out1, $out1, $rndkey0
cipher $in4, $out4, $in4
vadduwm $out4, $out2, $two
vxor $out2, $out2, $rndkey0
cipher $in5, $out5, $in5
vadduwm $out5, $out3, $two
vxor $out3, $out3, $rndkey0
cipher $in6, $out6, $in6
vadduwm $out6, $out4, $two
vxor $out4, $out4, $rndkey0
cipher $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, $inperm
le?vperm $out1, $out1, $out1, $inperm
stvx_u $out0, $x00, $out
le?vperm $out2, $out2, $out2, $inperm
stvx_u $out1, $x10, $out
le?vperm $out3, $out3, $out3, $inperm
stvx_u $out2, $x20, $out
le?vperm $out4, $out4, $out4, $inperm
stvx_u $out3, $x30, $out
le?vperm $out5, $out5, $out5, $inperm
stvx_u $out4, $x40, $out
le?vperm $out6, $out6, $out6, $inperm
stvx_u $out5, $x50, $out
le?vperm $out7, $out7, $out7, $inperm
stvx_u $out6, $x60, $out
stvx_u $out7, $x70, $out
addi $out, $out, 0x80
bLctr32_enc8x_done

.align5
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,$out0,$inperm
le?vperm $out1,$out1,$out1,$inperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inperm
stvx_u $out3,$x30,$out
le?vperm $out5,$out5,$out5,$inperm
stvx_u $out4,$x40,$out
le?vperm $out6,$out6,$out6,$inperm
stvx_u $out5,$x50,$out
stvx_u $out6,$x60,$out
addi $out,$out,0x70
bLctr32_enc8x_done

.align5
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,$out0,$inperm
le?vperm $out1,$out1,$out1,$inperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inperm
stvx_u $out3,$x30,$out
le?vperm $out5,$out5,$out5,$inperm
stvx_u\$out4,$x40,$out
stvx_u\$out5,$x50,$out
addi\$out,\$out,0x60
bLctr32_enc8x_done

.align5
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,\$inperm
le?vperm\$out1,\$out1,\$out1,\$inperm
stvx_u\$out0,$x00,$out
le?vperm\$out2,\$out2,\$out2,\$inperm
stvx_u\$out1,$x10,$out
le?vperm\$out3,\$out3,\$out3,\$inperm
stvx_u\$out2,$x20,$out
le?vperm\$out4,\$out4,\$out4,\$inperm
stvx_u\$out3,$x30,$out
stvx_u\$out4,$x40,$out
addi\$out,\$out,0x50
bLctr32_enc8x_done

.align5
Lctr32_enc8x_four:
vcipherlast\$out0,\$out0,\$in4
vcipherlast\$out1,\$out1,\$in5
vcipherlast\$out2,\$out2,\$in6
vcipherlast\$out3,\$out3,\$in7
le?vperm\$out0,\$out0,\$out0,\$inperm
le?vperm\$out1,\$out1,\$out1,\$inperm
stvx_u\$out0,$x00,$out
le?vperm\$out2,\$out2,\$out2,\$inperm
stvx_u\$out1,$x10,$out
le?vperm\$out3,\$out3,\$out3,\$inperm
stvx_u\$out2,$x20,$out
stvx_u\$out3,$x30,$out
addi\$out,\$out,0x40
bLctr32_enc8x_done

.align5
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 $out1,$out1,$out1,$inpperm
stvx_u $out2,$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 r10,r10,32
stvx $inpperm,r11,$sp
addi r10,r10,32
stvx $inpperm,r10,$sp
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r10,r10,32
stvx $inpperm,r10,$sp
addi r10,r10,32
stvx$inpperm,r11,$sp
addi11,r11,32

mtspr256,$vrsave
lvxv20, r10,$sp # ABI says so
addi10, r10, 32
lvxv21, r11,$sp
addi11, r11, 32
lvxv22, r10,$sp
addi10, r10, 32
lvxv23, r11,$sp
addi11, r11, 32
lvxv24, r10,$sp
addi10, r10, 32
lvxv25, r11,$sp
addi11, r11, 32
lvxv26, r10,$sp
addi10, r10, 32
lvxv27, r11,$sp
addi11, r11, 32
lvxv28, r10,$sp
addi10, r10, 32
lvxv29, r11,$sp
addi11, r11, 32
lvxv30, r10,$sp
lvxv31, r11,$sp
$POP26, $FRAME+21*16+0*SIZE_T($sp)
$POP27, $FRAME+21*16+1*SIZE_T($sp)
$POP28, $FRAME+21*16+2*SIZE_T($sp)
$POP29, $FRAME+21*16+3*SIZE_T($sp)
$POP30, $FRAME+21*16+4*SIZE_T($sp)
$POP31, $FRAME+21*16+5*SIZE_T($sp)
addi$sp,$sp,$FRAME+21*16+6*SIZE_T
blr
.long0
.byte0, 12, 0x04, 0, 0x80, 6, 6, 0
.long0
.size.$[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, $inperm, $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
.align5
.$[prefix]_xts_encrypt:
mr$inp,r3 # reassign
li3,-1
{$UCMP}i$len,16
bltrl-

lisr0,0xff0
mfsprr12,256# save vrsave
lir11,0
mtspr256,r0

vspliisb$seven,0x07 0x070707..07
le?lvsl$leperm, r11, r11
le?vspliisb$tmp,0x0f
le?vxor$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,$tmp,$seven

?v!lvsl$keyperm,0,$key2# prepare for unaligned key
lwz$rounds,240($key2)
srwi$rounds,$rounds,1
subi$rounds,$rounds,1
li$idx,16

neg11,$inp
lv$sinpperm,0,r11# prepare for unaligned load
lvx$sinperm,0,$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

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mtctr $rounds

Ltweak_xts_enc:
?vperm $rndkey1, $rndkey1, $rndkey0, $keyperm
vcipher $tweak, $tweak, $rndkey1
lvx $rndkey1, $idx, $key2
add $idx, $idx, 16
?vperm $rndkey0, $rndkey0, $rndkey1, $keyperm
vcipher $tweak, $tweak, $rndkey0
lvx $rndkey0, $idx, $key2
add $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 $inptail, 0, $inp
add $inp, $inp, 16

?vls $keyperm, 0, $key1 # prepare for unaligned key
lwz $rounds, 240($key1)
srw $rounds, $rounds, 1
subi $rounds, $rounds, 1
li $idx, 16
vsll $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
subfer $r0, $r0
and $r0, $r0, $taillen
add $inp, $inp, $r0

lvx $rndkey0, 0, $key1
lvx $rndkey1, $idx, $key1
add $idx, $idx, 16
vperm $inout, $inout, $inptail, $inpperm
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$inout,$inout,$Stweak
vxor$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key1
addi$idx,$idx,16
mtctr$rounds
b Loop_xts_enc

.align5
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,$rndkey0,$Stweak
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$output,$out,16

subic.$len,$len,16
beq Lxs_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

subicr0,$len,32
subfer0,r0,r0
andr0,r0,$taillen
add$inp,$inp,r0

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vrsab		$tmpl,$tweak,$seven		# next tweak value
vaddubm		$tweak,$tweak,$tweak
vsldoi		$tmpl,$tmpl,$tmpl,15
vand		$tmpl,$tmpl,$eighty7
vxor		$tweak,$tweak,$tmpl
vperm		$inout,$inout,$inptail,$inpperm
?vperm		$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor		$output,$output,$rndkey0
vxor		$output,$output,$rndkey0	# just in case $len<16
vxor		$inout,$inout,$rndkey0
lvx		$rndkey0,$idx,$key1
add		$idx,$idx,16
mtctr		$rounds
${UCMP}i	$len,16
bge		Loop_xts_enc
vxor		$output,$output,$tweak
lvxентрperm,0,$len
vxor		$inptail,$inptail,$inptail
vspltisb	$tmpl,-1
vperm		$inptail,$inptail,$tmpl,$inpperm
vsel		$inout,$inout,$output,$inptail
subi11,$out,17
subi		$out,$out,16
mtctr		$len
li		$len,16
Loop_xts_enc_steal:
lbzu		r0,1(r11)
stb		r0,16(r11)
bdnzLoop_xts_enc_steal
mtctr		$rounds
b
Loop_xts_enc# one more time...

Lxts_enc_done:
mtspr256,r12# restore vrsave
li3,0
blr
.long 0
.byte0,12,0x04,0,0x80,6,6,0
.long 0
.size.{prefix}_xts_encrypt,-.{prefix}_xts_encrypt
.globl.{prefix}_xts_decrypt
mtctr\$rounds

Ltweak_xts_dec:
?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$stweak,$stweak,$rndkey1
lvx$rndkey1,$idx,$key2
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher$stweak,$stweak,$rndkey0
lvx$rndkey0,$idx,$key2
addi$idx,$idx,16
bdnzLtweak_xts_dec

?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$stweak,$stweak,$rndkey1
lvx$rndkey1,$idx,$key2
li$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vcipherlast$stweak,$stweak,$rndkey0

lvx$inptail,0,$inp
addi$inp,$inp,16
?
lvsl$keyperm,0,$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_aes8_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,$inout,$stweak
vxor$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key1
addi$idx,$idx,16
mtctr$rounds
.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
add $idx,$idx,16

mtctr $rounds
${UCMP}i $len,16
bge Loop_xts_dec

L.tail_xts_dec:
vsrab $tmp,$tweak,$seven
vaddubm $tweak1,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tweak,$eighty7
vxor $tweak1,$tweak1,$tmp
sub $inp,$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
add $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
add $idx,$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, Sout, 1
mtctr $len
li $len, 16
Loop_xts_dec_steal:
lzur, 1(r11)
stbr, 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, -.1 $.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

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my ($keyperm)=($out0); # aliases with "caller", redundant assignment
my $taillen=$x70;

$code.=<<___;
.align5
_aesp8_xts_encrypt6x:
$STU$sp,'($FRAME+21*16+6*$SIZE_T)'($sp)
mflr0
li7,'$FRAME+8*16+15'
li8,'$FRAME+8*16+31'
SPUSHr0,'$FRAME+21*16+6*$SIZE_T+$LRSAVE'($sp)
stvx20,r7,$sp# ABI says so
addir7,r7,32
stvx21,r8,$sp
addir8,r8,32
stvx22,r7,$sp
addir7,r7,32
stvx23,r8,$sp
addir8,r8,32
stvx24,r7,$sp
addir7,r7,32
stvx25,r8,$sp
addir8,r8,32
stvx26,r7,$sp
addir7,r7,32
stvx27,r8,$sp
addir8,r8,32
stvx28,r7,$sp
addir7,r7,32
stvx29,r8,$sp
addir8,r8,32
stvx30,r7,$sp
stvx31,r8,$sp
mr7,r0
li0,-1
stw$vrsave,'$FRAME+21*16-4'($sp)# save vrsave
li$x10,0x10
SPUSHr26,'$FRAME+21*16+0*$SIZE_T'($sp)
li$x20,0x20
SPUSHr27,'$FRAME+21*16+1*$SIZE_T'($sp)
li$x30,0x30
SPUSHr28,'$FRAME+21*16+2*$SIZE_T'($sp)
li$x40,0x40
SPUSHr29,'$FRAME+21*16+3*$SIZE_T'($sp)
li$x50,0x50
SPUSHr30,'$FRAME+21*16+4*$SIZE_T'($sp)
li$x60,0x60
SPUSHr31,'$FRAME+21*16+5*$SIZE_T'($sp)
li $x70, 0x70
mtspr256, r0

subi $rounds, $rounds, 3 # -4 in total

lvx $rndkey0, $x00, $key1 # load key schedule
lvx30, $x10, $key1
addi $key1, $key1, 0x20
lvx31, $x00, $key1
?vperm $rndkey0, $rndkey0, v30, $keyperm
addi $key, $sp, $FRAME+15
mtctr $rounds

Load_xts_enc_key:
?vperm24, v30, v31, $keyperm
lvx30, $x10, $key1
addi $key1, $key1, 0x20
stvx24, $x00, $key_ # off-load round[1]
?vperm25, v31, v30, $keyperm
lvx31, $x00, $key1
stvx25, $x10, $key_ # off-load round[2]
addi $key_, $sp, $FRAME+15 # rewind $key_
bdnz Load_xts_enc_key

lvx26, $x10, $key1
?vperm24, v30, v31, $keyperm
lvx27, $x20, $key1
stvx24, $x00, $key_ # off-load round[3]
?vperm25, v31, v26, $keyperm
lvx28, $x30, $key1
stvx25, $x10, $key_ # off-load round[4]
addi $key_, $sp, $FRAME+15 # rewind $key_
?vperm26, v26, v27, $keyperm
lvx29, $x40, $key1
?vperm27, v27, v28, $keyperm
lvx30, $x50, $key1
?vperm28, v28, v29, $keyperm
lvx31, $x60, $key1
?vperm29, v29, v30, $keyperm
lvx $twk5, $x70, $key1 # borrow $twk5
?vperm30, v30, v31, $keyperm
lvx24, $x00, $key_ # pre-load round[1]
?vperm31, v31, $twk5, $keyperm
lvx25, $x10, $key_ # pre-load round[2]

?vperm $in0, $inout, $inptail, $inperm
subi $inp, $inp, 31 # undo "caller"
vxor $twk0, $tweak, $rndkey0
vsrab$tmp,$tweak,$seven  # next tweak value
vaddumb$tweak,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
vand$tmp,$tmp,$eighty7
vxor$out0,$in0,$twk0
vxor$tweak,$tweak,$tmp

lvx_u$in1,5x10,$inp
vxor$twk1,$tweak,$rndkey0
vsrab$tmp,$tweak,$seven  # next tweak value
vaddumb$tweak,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
le?vpermm$in1,$in1,$in1,$leperm
vand$tmp,$tmp,$eighty7
vxor$out1,$in1,$twk1
vxor$tweak,$tweak,$tmp

lvx_u$in2,5x20,$inp
andi.$taillen,$len,15
vxor$twk2,$tweak,$rndkey0
vsrab$tmp,$tweak,$seven  # next tweak value
vaddumb$tweak,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
le?vpermm$in2,$in2,$in2,$leperm
vand$tmp,$tmp,$eighty7
vxor$out2,$in2,$twk2
vxor$tweak,$tweak,$tmp

lvx_u$in3,5x30,$inp
sub$len,$len,$taillen
vxor$twk3,$tweak,$rndkey0
vsrab$tmp,$tweak,$seven  # next tweak value
vaddumb$tweak,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
le?vpermm$in3,$in3,$in3,$leperm
vand$tmp,$tmp,$eighty7
vxor$out3,$in3,$twk3
vxor$tweak,$tweak,$tmp

lvx_u$in4,5x40,$inp
subi.$len,$len,0x60
vxor$twk4,$tweak,$rndkey0
vsrab$tweak,$seven  # next tweak value
vaddumb$tweak,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
le?vpermm$in4,$in4,$in4,$leperm
vand$tmp,$tmp,$eighty7
vxor$out4,$in4,$twk4
vxor$tweak,$tweak,$tmp

1vx_u$in5,$x50,$in5
addi$in5,$in5,0x60
vxor$twk5,$tweak,$rndkey0
vsrab$tmp,$tweak,$seven# next tweak value
vaddubm$twk5,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
le?vperm$in5,$in5,$in5,$leperm
vand$tmp,$tmp,$eighty7
vxor$out5,$in5,$twk5
vxor$tweak,$tweak,$tmp

vxorv31,v31,$rndkey0
mtctr$rounds
bLoop_xts_enc6x

.align5
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
1vxv24,$x20,$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
1vxv25,$x10,$key_ # round[4]
bdnzLoop_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,$rndkey0
vaddubm$twk5,$tweak,$tweak
vcipher$out2,$out2,v24
vcipher$out3,$out3,v24
vsldoi$tmp,$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$\text{tweak},\text{tweak,\$tmp}$
vcipher\$out2,\$out2,v25
vcipher\$out3,\$out3,v25
vxor$\text{tweak},\text{\$tmp,\$seven}$# next tweak value
vxor$\text{\$tmp,\$tweak,\$rndkey0}$
vcipher\$out4,\$out4,v25
vcipher\$out5,\$out5,v25

\text{andr}0,r0,\$len$
vaddubm$\text{\$tweak,\$tweak,\$tweak}$
vsldoi$\$tmp,\$tmp,\$tmp,15$
vcipher\$out0,\$out0,v26
vcipher\$out1,\$out1,v26
vand\$tmp,\$tmp,\$eighty7$
vcipher\$out2,\$out2,v26
vcipher\$out3,\$out3,v26
vxor$\text{\$tweak,\$tweak,\$tmp}$
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$\text{\$tmp,\$twk2,\$v31}$
vsrab$\text{\$tmp,\$tweak,\$seven}$# next tweak value
vxor$\text{\$tweak,\$twk2,\$rndkey0}$
vaddubm$\text{\$tweak,\$tweak,\$tweak}$
vcipher\$out0,\$out0,v27
vcipher\$out1,\$out1,v27
vsldoi$\$tmp,\$tmp,\$tmp,15$
vcipher\$out2,\$out2,v27
vcipher\$out3,\$out3,v27
vand$\$tmp,\$tmp,\$eighty7$
vcipher\$out4,\$out4,v27
vcipher\$out5,\$out5,v27

add$\$key\_\_\$sp,\$FRAME+15# rewind \$key\_\_\$
vxor$\text{\$tweak,\$tweak,\$tmp}$
vcipher\$out0,\$out0,v28
vcipher\$out1,\$out1,v28
vxor$in3,$twk3,v31
gsrab$tmp,$stweak,$seven# next tweak value
vxorstwk3,$stweak,$rndkey0
vcipher$sout2,$out2,v28
vcipher$sout3,$out3,v28
vaddubm$twk3,$stweak,$stweak
vsldoi$tmp,$tmp,$tmp,15
vcipher$sout4,$out4,v28
vcipher$sout5,$out5,v28
lvx24,$x00,$key_# re-pre-load round[1]
vand$tmp,$tmp,$eighty7
gcipher$sout0,$out0,v29
gcipher$sout1,$out1,v29
gxor$stweak,$stweak,$tmp
gcipher$sout2,$out2,v29
gcipher$sout3,$out3,v29
gxor$in4,$twk4,v31
gcipher$sout4,$out4,v29
gcipher$sout5,$out5,v29
lvx25,$x10,$key_# re-pre-load round[2]
vaddubm$stweak,$stweak,$stweak
gcipher$sout4,$out4,v28
gcipher$sout5,$out5,v28
gvx$twk5,$stweak,$tmp
vand$tmp,$tmp,$eighty7
gcipherlast$sout0,$out0,$in0
lvx_u$in0,$x00,$inp# load next input block
gaddubm$stweak,$stweak,$stweak
gcipherlast$sout1,$out1,$sin1
lvx_u$in1,$x10,$sin
vcipherlast$sout2,$out2,$sin2
le?perm$sin0,$sin0,$sin0,$leperm
lvx_u$sin2,$x20,$sin
vand$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
beqLoop_xts_enc6x# did $len-=96 borrow?

addi\$len,\$len,0x60
beqLxts_enc6x_zero
cmpwi\$len,0x20
bltLxts_enc6x_one
nop
beqLxts_enc6x_two
cmpwi\$len,0x40
bltLxts_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, $lepermtm
vmr $twk0, $twk5 # unused tweak
le?vperm $out1, $out1, $out1, $lepermtm
stvx_u $out0, $x00, $out # store output
le?vperm $out2, $out2, $out2, $lepermtm
stvx_u $out1, $x10, $out
le?vperm $out3, $out3, $out3, $lepermtm
stvx_u $out2, $x20, $out
vxor $tmp, $out4, $twk5 # last block prep for stealing
le?vperm $out4, $out4, $out4, $lepermtm
stvx_u $out3, $x30, $out
stvx_u $out4, $x40, $out
addi $out, $out, 0x50
bne Lxts_enc6x_steal
bl 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, $lepermtm
vmr $twk0, $twk4 # unused tweak
le?vperm $out1, $out1, $out1, $lepermtm
stvx_u $out0, $x00, $out # store output
le?vperm $out2, $out2, $out2, $lepermtm
stvx_u $out1, $x10, $out
vxor $tmp, $out3, $twk4 # last block prep for stealing
le?vperm $out3, $out3, $out3, $lepermtm
stvx_u $out2, $x20, $out
stvx_u $out3, $x30, $out
addi $out, $out, 0x40
bneLxts_enc6x_steal
bLxts_enc6x_done

.align4
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
bneLxts_enc6x_steal
bLxts_enc6x_done

.align4
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
bneLxts_enc6x_steal
bLxts_enc6x_done

.align4
Lxts_enc6x_one:
vxor$out0,$in5,$twk0
nop
Loop_xts_enc1x:
vcipher$out0,$out0,v24
lvxv24,$x20,$key_ # round[3]
addi$key_,$key_,$0x20
vcipher$out0,$out0,v25
lvx$v25,$x10,$key_ # round[4]
bdnzLoop_xts_enc1x
add$iinp,$inp,$taillen
cmpwi$taillen,0
vcipher$out0,$out0,v24
subi$iinp,$inp,16
vcipher$out0,$out0,v25
lv$sinperm,0,$taillen
vcipher$out0,$out0,v26
lvx_u$in0,0,$inp
vcipher$out0,$out0,v27
addi$key_,$sp,$FRAME+15 # rewind $key_
vcipher$out0,$out0,v28
lvxv24,$x00,$key_ # re-pre-load round[1]
vcipher$out0,$out0,v29
lvxv25,$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,$sinperm
vcipherlast$out0,$out0,$twk0
vmr$twk0,$twk1 # unused tweak
vxor$tm0,$out0,$twk1 # last block prep for stealing
le?vperm$out0,$out0,$out0,$leperm
stvx_u$out0,$x00,$out# store output
addi$out,$out,$0x10
bneLxts_enc6x_steal
blLxts_enc6x_done
.align4
Lxts_enc6x_zero:
cmpwi$taillen,0
beq Lxts_enc6x_done

add $inp, $inp, $taillen
sub $inp, $inp, 16
lvx_u $in0, 0, $inp
lv$r $inpperm, 0, $taillen # $in5 is no more
le?vperm $sin0, 0, $in0, $leperm
vperm $sin0, 0, $in0, $inpperm
vxor $tmp, $tmp, $twk0
Lxts_enc6x_steal:
vxor $in0, 0, $twk0
vxor $out0, $out0, $out0
vpdistb $out1, -1
vperm $out0, $out0, $out1, $inpperm
csel $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)
stbr0, 16(r3)
bdnz Loop_xts_enc6x_steal
li $taillen, 0
mtctr $rounds
b Loop_xts_enc1x # one more time...
.align 4
Lxts_enc6x_done:
mtlr7
lir10, "$FRAME+15"
lir11, "$FRAME+31"
stvx $seven, r10, $sp # wipe copies of round keys
addir10, r10, 32
stvx $seven, r11, $sp
addir11, r11, 32
stvx $seven, r10, $sp
addir10, r10, 32
stvx $seven, r11, $sp
addir11, r11, 32
stvx $seven, r10, $sp
addir10, r10, 32
stvx $seven, r11, $sp
addir11, r11, 32
stvx $seven, r10, $sp
addir10, r10, 32
stvx $seven, r11, $sp
addir11, r11, 32
stvx $seven, r10, $sp
addir10, r10, 32
stvx $seven, r11, $sp
addi11, r11, 32

mtspr256,$vrsave
lvxv20, r10,$sp # ABI says so
addi10, r10, 32
lvxv21, r11,$sp
addi11, r11, 32
lvxv22, r10,$sp
addi10, r10, 32
lvxv23, r11,$sp
addi11, r11, 32
lvxv24, r10,$sp
addi10, r10, 32
lvxv25, r11,$sp
addi11, r11, 32
lvxv26, r10,$sp
addi10, r10, 32
lvxv27, r11,$sp
addi11, r11, 32
lvxv28, r10,$sp
addi10, r10, 32
lvxv29, r11,$sp
addi11, r11, 32
lvxv30, r10,$sp
lvxv31, 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_enc5x:
vcipher$out0,$out0,v24
vcipher$out1,$out1,v24
vcipher$out2,$out2,v24
vcipher$out3,$out3,v24
vcipher$out4,$out4,v24
lvxv24,$x20,$key_ # round[3]
addi$key_,$key_,0x20

vcipher$out0,$out0,v25
vcipher$\text{out}1,\text{out}1,v25
vcipher$\text{out}2,\text{out}2,v25
vcipher$\text{out}3,\text{out}3,v25
vcipher$\text{out}4,\text{out}4,v25
lvx25,$x10,$key_ # round[4]
bdnz_aes8_xts_enc5x

add$sinp,$inp,staillen
cmpwi$staillen,0
vcipher$\text{out}0,\text{out}0,v24
vcipher$\text{out}1,\text{out}1,v24
vcipher$\text{out}2,\text{out}2,v24
vcipher$\text{out}3,\text{out}3,v24
vcipher$\text{out}4,\text{out}4,v24

subi$sinp,$inp,16
vcipher$\text{out}0,\text{out}0,v25
vcipher$\text{out}1,\text{out}1,v25
vcipher$\text{out}2,\text{out}2,v25
vcipher$\text{out}3,\text{out}3,v25
vcipher$\text{out}4,\text{out}4,v25
vxor$twk0,$twk0,v31

vcipher$\text{out}0,\text{out}0,v26
lvsr$inpperm,r0,staillen # $in5 is no more
vcipher$\text{out}1,\text{out}1,v26
vcipher$\text{out}2,\text{out}2,v26
vcipher$\text{out}3,\text{out}3,v26
vcipher$\text{out}4,\text{out}4,v26
vxor$\text{sin}1,$twk1,v31

vcipher$\text{out}0,\text{out}0,v27
lvx_u$sin0,0,$inp
vcipher$\text{out}1,\text{out}1,v27
vcipher$\text{out}2,\text{out}2,v27
vcipher$\text{out}3,\text{out}3,v27
vcipher$\text{out}4,\text{out}4,v27
vxor$\text{sin}2,$twk2,v31

addi$key_,$sp,$FRAME+15 # rewind $key_
vcipher$\text{out}0,\text{out}0,v28
vcipher$\text{out}1,\text{out}1,v28
vcipher$\text{out}2,\text{out}2,v28
vcipher$\text{out}3,\text{out}3,v28
vcipher$\text{out}4,\text{out}4,v28
lvx24,$x00,$key_ # re-pre-load round[1]
vxor$\text{sin}3,$twk3,v31
vcipher\$out0,\$out0,v29
le?vperm\$in0,\$in0,\$in0,$leperm
vcipher\$out1,\$out1,v29
vcipher\$out2,\$out2,v29
vcipher\$out3,\$out3,v29
vcipher\$out4,\$out4,v29
lvx25,\$x10,$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

.align5
_aespp_xts_decrypt6x:
$STU$sp,-($FRAME+21*16+6*SIZE_T`)($sp)
mflr0
lir7,`$FRAME+8*16+15`
lir8,`$FRAME+8*16+31`
$PUSHr0,`$FRAME+21*16+6*SIZE_T+$LRSAVE`($sp)
stvx20,r7,$sp# ABI says so
addir7,r7,32
stvx21,r8,$sp
addir8,r8,32
stvx22,r7,5$sp
addir7,r7,32
stvx23,r8,$sp
addir8,r8,32
stvx24,r7,$sp
addir7,r7,32
stvx25,r8,$sp
addir8,r8,32
stvx26,r7,$sp
addir7,r7,32
stvx27,r8,$sp
addir8,r8,32
stvx28,r7,$sp
addi7,r7,32
stvx29,r8,$sp
addi8,r8,32
stvx30,r7,$sp
stvx31,r8,$sp
mr7,r0
li0,-1
stw$vrsave,`$FRAME+21*16-4`($sp)# save vrsave
li$x10,0x10
$PUSHr26,`$FRAME+21*16+0*sizeof_T`($sp)
li$x20,0x20
$PUSHr27,`$FRAME+21*16+1*sizeof_T`($sp)
li$x30,0x30
$PUSHr28,`$FRAME+21*16+2*sizeof_T`($sp)
li$x40,0x40
$PUSHr29,`$FRAME+21*16+3*sizeof_T`($sp)
li$x50,0x50
$PUSHr30,`$FRAME+21*16+4*sizeof_T`($sp)
li$x60,0x60
$PUSHr31,`$FRAME+21*16+5*sizeof_T`($sp)
li$x70,0x70
mtspr256,r0
subi$rounds,$rounds,3# -4 in total
lvx$rndkey0,$x00,$key1# load key schedule
lvx30,$x10,$key1
addi$key1,$key1,0x20
lvx31,$x00,$key1
?vperm$rndkey0,$rndkey0,$v30,$keyperm
addi$key_,$sp,$FRAME+15
mtcnt$rounds
Load_xts_dec_key:
?vpermv24,v30,v31,$keyperm
lvx30,$x10,$key1
addi$key1,$key1,0x20
stvx24,$x00,$key_ # off-load round[1]
?vpermv25,v31,v30,$keyperm
lvx31,$x00,$key1
stvx25,$x10,$key_ # off-load round[2]
addi$key_,$key_0x20
bdnzLoad_xts_dec_key

lvx26,$x10,$key1
?vpermv24,v30,v31,$keyperm
lvx27,$x20,$key1
**Open Source Used In FXOS HIGH END 2.9.1**

```assembly
stvx24,$x00,$key_ # off-load round[3]
?vperm25,v31,v26,$keyperm
lvxx28,$x30,$key1
stvx25,$x10,$key_ # off-load round[4]
addi$key_,$sp,$FRAME+15 # rewind $key_
?vperm26,v26,v27,$keyperm
lvxx29,$x40,$key1
?vperm27,v27,v28,$keyperm
lvxx30,$x50,$key1
?vperm28,v28,v29,$keyperm
lvxx31,$x60,$key1
?vperm29,v29,v30,$keyperm
lvx$twk5,$x70,$key1# borrow $twk5
?vperm30,v30,v31,$keyperm
lvxx24,$x00,$key_ # pre-load round[1]
?vperm31,v31,$twk5,$keyperm
lvxx25,$x10,$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$twk0,$tweak,$tweak
evsl Dio$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,$seven# next tweak value
vaddubm$twk1,$tweak,$tweak
evsl Dio$tmp,$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,$seven# next tweak value
vaddubm$twk2,$tweak,$tweak
evsl Dio$tmp,$tmp,15
le?vperm$in2,$in2,$in2,$leperm
vand$tmp,$tmp,$eighty7
vxor$out2,$in2,$twk2
vxor$tweak,$tweak,$tmp
```
lvx_u$sin3,5x30,$inp
sub$len,$len,$taillen
vxor$twk3,$tweak,$rndkey0
vsrab tmp,Stweak,$seven# next tweak value
vaddubm$tweak,Stweak,$tweak
vsldoi tmp,Stmp,$tmp,15
le?vperm$in3,$in3,$in3,$leperm
vand tmp,Stmp,$eighty7
vxor$out3,$in3,$t wk3
vxor$tweak,Stweak,$tmp

lvx_u$sin4,5x40,$inp
subi$len,$len,0x60
vxor$twk4,Stweak,$rndkey0
vsrab tmp,Stweak,$seven# next tweak value
vaddubm$tweak,Stweak,$tweak
vsldoi tmp,Stmp,$tmp,15
le?vperm$in4,$in4,$in4,$leperm
vand tmp,Stmp,$eighty7
vxor$out4,$in4,$t wk4
vxor$tweak,Stweak,$tmp

lvx_u$sin5,5x50,$inp
addi$inp,$inp,0x60
vxor$twk5,Stweak,$rndkey0
vsrab tmp,Stweak,$seven# next tweak value
vaddubm$tweak,Stweak,$tweak
vsldoi tmp,Stmp,$tmp,15
le?vperm$in5,$in5,$in5,$leperm
vand tmp,Stmp,$eighty7
vxor$out5,$in5,$t wk5
vxor$tweak,Stweak,$tmp
vxorv31,v31,$rndkey0
mtctr$rounds
bLoop_xts_dec6x

.align5
Loop_xts_dec6x:
vn decipher$out0,$out0,v24
vn decipher$out1,$out1,v24
vn decipher$out2,$out2,v24
vn decipher$out3,$out3,v24
vn decipher$out4,$out4,v24
vn decipher$out5,$out5,v24
lvxv24,$x20,$key__: round[3]
addi$key-_key_-0x20
add$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,$rndkey0
vaddubm$twk,$tweak,$stweak
vncipher$sout0,$out0,v27
vncipher$sout1,$out1,v27
vsldoi$tmp,$tmp,$tmp,15
vncipher$sout2,$out2,v27
vncipher$sout3,$out3,v27
vncipher$sout4,$out4,v27
vncipher$sout5,$out5,v27
add$key_,$sp,$FRAME+15  # rewind $key_ 
vxor$stweak,$tweak,$tmp
vncipher$sout0,$out0,v28
vncipher$sout1,$out1,v28
vxor$sin3,$twk3,v31
vsrab$tmp,$tweak,$seven  # next tweak value
vxor$twk3,$tweak,$rndkey0
vncipher$sout2,$out2,v28
vncipher$sout3,$out3,v28
vaddubm$tweak,$stweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
vncipher$sout4,$out4,v28
vncipher$sout5,$out5,v28
lvxv24,$x00,$key_  # re-pre-load round[1]
vand$tmp,$tmp,$eighty7
vncipher$sout0,$out0,v29
vncipher$sout1,$out1,v29
vxor$tweak,$stweak,$tmp
vncipher$sout2,$out2,v29
vncipher$sout3,$out3,v29
vxor$sin4,$twk4,v31
vsrab$tmp,$tweak,$seven  # next tweak value
vxor$twk4,$tweak,$rndkey0
vncipher$sout4,$out4,v29
vncipher$sout5,$out5,v29
lvxv25,$x10,$key_  # re-pre-load round[2]
vaddubm$tweak,$stweak
vsldoi$tmp,$tmp,$tmp,15
vncipher$sout0,$out0,v30
vncipher\$out1,\$out1,v30
vand\$tmp,\$tmp,Seighty7
vncipher\$out2,\$out2,v30
vncipher\$out3,\$out3,v30
vxor\$tweak,\$tweak,\$tmp
vncipher\$out4,\$out4,v30
vncipher\$out5,\$out5,v30
vxor\$in5,\$twk5,v31
vrsab\$tmp,\$tweak,$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
vaddubm\$tmp,\$tmp,Seighty7
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, $weak, $mdkey0
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,0x40
bneLxts_dec6x_steal
bLxts_dec6x_done

.align4
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,$twk3
le?vperm$out2,$out2,$out2,$leperm
stvx_u$out1,$x10,$out
stvx_u$out2,$x20,$out
addi$out,0x30
bneLxts_dec6x_steal
bLxts_dec6x_done

.align4
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, $twk0, # unused tweak
vmr $twk1, $twk1
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
bl 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
cmpiwi $taillen, 0
vncipher $out0, $out0, v25

sub $inp, $inp, r0
vncipher $out0, $out0, v26

lvx_u $inp, 0, $inp
vncipher $out0, $out0, v27

addi $key_, $sp, $FRAME+15 # rewind $key_
vncipher $out0, $out0, v28
lvxv24,$x00,$key_ # re-pre-load round[1]

vncipher$out0,$out0,v29
lvxv25,$x10,$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,$in0,$leperm
stvx_u$out0,$x00,$out# store output
addi$out,$out,0x10
vxor$out0,$in0,$twk2
bneLxts_dec6x_steal
bLxts_dec6x_done

.align 4
Lxts_dec6x_zero:
cmpwi$taillen,0
beqLxts_dec6x_done

lvx_u$in0,0,$inp
le?vperm$in0,$in0,$in0,$leperm
vxor$out0,$in0,$twk1
Lxts_dec6x_steal:
vncipher$out0,$out0,v24
lvxv24,$x20,$key_ # round[3]
addi$key_,$key_,0x20

vncipher$out0,$out0,v25
lvxv25,$x10,$key_ # round[4]
bdnzLxts_dec6x_steal

addi$inp,$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
lvxv24,\$x00,\$key_# re-pre-load round[1]

vncipher\$out0,\$out0,v29
lvxv25,\$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

subi3,\$out,1
mtctr\$taillen
Loop_xts_dec6x_steal:
lbzur1,1(r3)
strbr0,16(r3)
bdnzLoop_xts_dec6x_steal

li\$taillen,0
mtctr\$rounds
bLoop_xts_dec1x# one more time...

.align4
Lxts_dec6x_done:
mtlr7
li10,’\$FRAME+15’
li11,’\$FRAME+31’
stvx\$seven,r10,\$sp# wipe copies of round keys
addir10,r10,32
stvx\$seven,r11,\$sp
addir11,r11,32
stvx\$seven,r10,\$sp
addir10,r10,32
stvx$seven,r11,$sp
addi11,r11,32
stvx$seven,r10,$sp
addi10,r10,32
stvx$seven,r11,$sp
addi11,r11,32
stvx$seven,r10,$sp
addi10,r10,32
stvx$seven,r11,$sp
addi11,r11,32
mtspr256,$vrsave
lvxx20,r10,$sp # ABI says so
addi10,r10,32
lvxx21,r11,$sp
addi11,r11,32
lvxx22,r10,$sp
addi10,r10,32
lvxx23,r11,$sp
addi11,r11,32
lvxx24,r10,$sp
addi10,r10,32
lvxx25,r11,$sp
addi11,r11,32
lvxx26,r10,$sp
addi10,r10,32
lvxx27,r11,$sp
addi11,r11,32
lvxx28,r10,$sp
addi10,r10,32
lvxx29,r11,$sp
addi11,r11,32
lvxx30,r10,$sp
lvxx31,r11,$sp
$POPr26; $FRAME+21*16+0*SIZE_T ($sp)
$POPr27; $FRAME+21*16+1*SIZE_T ($sp)
$POPr28; $FRAME+21*16+2*SIZE_T ($sp)
$POPr29; $FRAME+21*16+3*SIZE_T ($sp)
$POPr30; $FRAME+21*16+4*SIZE_T ($sp)
$POPr31; $FRAME+21*16+5*SIZE_T ($sp)
addi$sp,$sp; $FRAME+21*16+6*SIZE_T
blr
.long0
.byte0,12,0x04,1,0x80,6,6,0
.long0
.align5
_aesp8_xts_decrx:
vncipher\$out0,\$out0,v24
vncipher\$out1,\$out1,v24
vncipher\$out2,\$out2,v24
vncipher\$out3,\$out3,v24
vncipher\$out4,\$out4,v24
lvx24,\$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
lvx25,\$x10,\$key_, # round[4]
bdnz_aes\$p8_xts_dec5x

subi\$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_

vncipherSout0,$out0,v28
vncipherSout1,$out1,v28
vncipherSout2,$out2,v28
vncipherSout3,$out3,v28
vncipherSout4,$out4,v28
lvx24,$x00,$key_ # re-pre-load round[1]

vxor$in3,$twk3,v31

vncipherSout0,$out0,v29
vncipherSout1,$out1,v29
vncipherSout2,$out2,v29
vncipherSout3,$out3,v29
vncipherSout4,$out4,v29
lvx25,$x10,$key_ # re-pre-load round[2]

vxor$in4,$twk4,v31

vncipherSout0,$out0,v30
vncipherSout1,$out1,v30
vncipherSout2,$out2,v30
vncipherSout3,$out3,v30
vncipherSout4,$out4,v30

vncipherLastSout0,$out0,$twk0
vncipherLastSout1,$out1,$in1
vncipherLastSout2,$out2,$in2
vncipherLastSout3,$out3,$in3
vncipherLastSout4,$out4,$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+/+(.+)/(?!\[a-z]*)$/o) {
        my $conv=$3;
        my @$bytes=();

# convert to endian-agnostic format
        if ($1 eq "long") {
            foreach (split(/\$*/,$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)  {
  s/le\?//o    # le
  s/be\?#/\be#/o
  s/lvsl/lvsr/o
  s/lvsl/lvsr/o
  s/vperm\s+[0-9]+,\s*\(v[0-9]+,\s*\(v[0-9]+,\s*\(v[0-9]+,\s*\$/S1$3$2$4/o or
  s/vldoi\s+[0-9]+,\s*\(v[0-9]+,\s*\(v[0-9]+,\s*\[/0-9]+,/1$3$2 16-$4/o or
  s/vspltw\s+[0-9]+,\s*\(v[0-9]+,\s*\(v[0-9]+,\s*\[/0-9]+)/$1$2 3-$3/o;
} else {
  s/le\?#/le#/o
  s/be\?//o
  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-baz.tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesp8-ppc.pl
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  2.0.16/crypto/thr_id.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/crypto/cryptlib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/crypto/crypto.h

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  2.0.16/fips/rsa/fips_rsa_lib.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_lib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/rsa/fips_rsa_sign.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/edsa/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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 * 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>
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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/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-
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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_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
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/aes_ecb.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/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-
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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
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# 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;
  $LRSAVE=2*$SIZE_T;
  $UCMP="cmpld";
  $STU="stdu";
  $POP="ld";
  $PUSH="std";
} elsif ($flavour =~ /32/) {
  $SIZE_T=4;
  $LRSAVE=$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";
$toe="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$0,$f,@X[$i%16]
and$0,$c,$b
xor@X[$j%16],@X[$j%16],@X[($j+8)%16]
add$0,$f,$e
andc$t0,$d,$b
rotlwi$b,30
or$t0,$t0,$t1
xor@X[$j%16],@X[$j%16],@X[($j+13)%16]
add$0,$f,$t0
rotlwi@X[$j%16],@X[$j%16],1
___

}
my ($i,$a,$b,$c,$d,$e,$f)=@_;  
my $j=$i+1;  
$code.=<<__;  
addSf,$K,$e  
rotlw$e,$a,5  
xor@X[$j%16],@X[$j%16],@X[($j+2)%16]  
addSf,$f,@X[($j+2)%16]  
and$t0,$b,$c  
xor@X[$j%16],@X[($j+2)%16],@X[($j+4)%16]  
addSf,$f,$e  
or$t1,$b,$c  
rotlw$b,$b,30  
xor@X[($j+8)%16],@X[($j+8)%16],@X[($j+10)%16]  
addSf,$f,$t0  
or$t1,$t1,$t1  
rotlw@X[($j+16)%16],@X[($j+16)%16],1  
addSf,$f,$t0  
}

$code=<<__;
.machine "any"
text

.globl sha1_block_data_order
.align 4
.sha1_block_data_order:
$STU$sp,-$FRAME($sp)
mflr$r0
$PUSHr15,-$FRAME-$SIZE_T*17($sp)
$PUSHr16,-$FRAME-$SIZE_T*16($sp)
$PUSHr17,-$FRAME-$SIZE_T*15($sp)
$PUSHr18,-$FRAME-$SIZE_T*14($sp)
$PUSHr19,-$FRAME-$SIZE_T*13($sp)
$PUSHr20,-$FRAME-$SIZE_T*12($sp)
$PUSHr21,-$FRAME-$SIZE_T*11($sp)
$PUSHr22,-$FRAME-$SIZE_T*10($sp)
$PUSHr23,-$FRAME-$SIZE_T*9($sp)
$PUSHr24,-$FRAME-$SIZE_T*8($sp)
$PUSHr25,-$FRAME-$SIZE_T*7($sp)
$PUSHr26,-$FRAME-$SIZE_T*6($sp)
$PUSHr27,-$FRAME-$SIZE_T*5($sp)
$PUSHr28,-$FRAME-$SIZE_T*4($sp)
$PUSHr29,-$FRAME-$SIZE_T*3($sp)
$PUSHr30,-$FRAME-$SIZE_T*2($sp)
$PUSHr31,-$FRAME-$SIZE_T*1($sp)
$PUSHr0,-$FRAME+$LRSAVE($sp)
lwzA,0($ctx)
lwz$B,4($ctx)
lwz$C,8($ctx)
lwz$D,12($ctx)
lwz$E,16($ctx)
andi.r0,$inp,3
bneLunaligned
Laligned:
mtctr$num
blLsha1_block_private
bLdone

; 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...
.align4
Lunaligned:
subfic$t1,$inp,4096
andi.$t1,$t1,4095; distance to closest page boundary
srwi.$t1,$t1,6; t1/=64
beqLcross_page
$UCMP$num,$t1
bleLaligned; didn't cross the page boundary
mtctr$t1
subfc$num,$t1,$num
blLsha1_block_private
Lcross_page:
li$t1,16
mtctr$t1
addi$r20,$sp,$LOCALS; spot within the frame
Lmemcpy:
lbz$r16,0($inp)
lbzd17,1($inp)
lbzd18,2($inp)
lbzd19,3($inp)
addi$inp,$inp,4
stbr16,0(r20)
stbr17,1(r20)
stbr18,2(r20)
stbr19,3(r20)
addi20,r20,4
bdnzLmemcpy

$PUSH$inp,’$FRAME-$SIZE_T*18’($sp)
li$t1,1
addi$inp,$sp,$LOCALS
mtctr$t1
blL.sha1_block_private
SPOPSnp,`$FRAME-$SIZE_T*18`($sp)
addic.$num,$num,-1
bneL.unaligned

L.done:
SPOPr0,`$FRAME+SLRSAVE`($sp)
SPOPr15,`$FRAME-$SIZE_T*17`($sp)
SPOPr16,`$FRAME-$SIZE_T*16`($sp)
SPOPr17,`$FRAME-$SIZE_T*15`($sp)
SPOPr18,`$FRAME-$SIZE_T*14`($sp)
SPOPr19,`$FRAME-$SIZE_T*13`($sp)
SPOPr20,`$FRAME-$SIZE_T*12`($sp)
SPOPr21,`$FRAME-$SIZE_T*11`($sp)
SPOPr22,`$FRAME-$SIZE_T*10`($sp)
SPOPr23,`$FRAME-$SIZE_T*9`($sp)
SPOPr24,`$FRAME-$SIZE_T*8`($sp)
SPOPr25,`$FRAME-$SIZE_T*7`($sp)
SPOPr26,`$FRAME-$SIZE_T*6`($sp)
SPOPr27,`$FRAME-$SIZE_T*5`($sp)
SPOPr28,`$FRAME-$SIZE_T*4`($sp)
SPOPr29,`$FRAME-$SIZE_T*3`($sp)
SPOPr30,`$FRAME-$SIZE_T*2`($sp)
SPOPr31,`$FRAME-$SIZE_T*1`($sp)
mtlr0
addiS$sp,$sp,$FRAME
blr
.long0
.byte0,12,4,1,0x80,18,3,0
.long0

# 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.<<__;
.align4
L.sha1_block_private:
__
$code.<<__;# load K_00_19
lisSK,0x5a82
oriSK,SK,0x7999
__
for($i=0;$i<20;$i++){ &BODY_00_19($i,@V); unshift(@V, pop(@V)); }
$code.<<__;# load K_20_39
lisSK,0x6ed9
ori$K,SK,0xeba1

___
for(;i<40;i++) {
  &BODY_20_39($i,@V); unshift(@V,pop(@V));
}
$code.=<<___;
lis$K,0x8f1b
ori$K,SK,0xbcde

___
for(;i<60;i++) {
  &BODY_40_59($i,@V); unshift(@V,pop(@V));
}
$code.=<<___;
lis$K,0xca62
ori$K,SK,0xc1d6

___
for(;i<80;i++) {
  &BODY_60_79($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,$C
stwr16,0($ctx)
mr$A,r16
stwr17,4($ctx)
mr$B,r17
stwr18,8($ctx)
mr$C,r18
stwr19,12($ctx)
mr$D,r19
stwr20,16($ctx)
mr$E,r20
addi$inp,$inp,`16*4`
bdnz$Lsha1_block_private
blr
.long0
.byte0,12,0x14,0,0,0,0,0,0

___
$code.=<<___;
.asciz"SHA1 block transform for PPC, CRYPTOGRAMS by <appro\@fy.chalmers.se>"

___
$code =~ s/`\[\^\`]*)\`/eval $1/gem;
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-ppc.pl
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#define FIPS_AUTH_CRYPTO_OFFICER "7f92562d409e903322e0f94a1188ae8178339a4f"
#define FIPS_AUTH_CRYPTO_USER "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
No license file was found, but licenses were detected in source scan.
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* */
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* The Contribution is licensed pursuant to the Eric Young open source
* license provided above.
* The binary polynomial arithmetic software is originally written by
* Sheueling Chang Shantz and Douglas Stebila of Sun Microsystems Laboratories.
*/

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

/*.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 {
lst;
}
}
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;
        } else if(/^F\s+(\S+)/)
        {
            # Add extra function with $1
        } else if(/^R\s+(\S+)\s+(\S+)/)
        {
            $rextra{$1} = $2;
            $rcodes{$1} = $2;
        }
    }
    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 . $_;
        $line = "",
    }

    if (/\$/) {
        $line = $_;
        next;
    }

    if(/\*\*) {
        if (not /\*/{\*}) { # multiline comment...
            $line = $_; # ... just accumulate
            next;
        } else {
            s/\*/\*/g;
            s/\*/\*/g; # 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+\[(\w,\s)*\]\s*+/s/declare_\w+/"/g;

foreach (split ';/', $def) {
    $defnr++;
    print STDERR "def: $defnr" 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(/typedef/W/ 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) {
        s/\(\[\^\(\)\]+\)/\{}/gs;
        s/\(\s*\*\s*(\w+)\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;
        $name =~ tr/[a-z]/[A-Z]/;
        $ftrans{$name} = $1;
    } elsif (/\(\)/ and not (/=/)) {
        print STDERR "Header $hdr: cannot parse: $_;
    }
}

print STDERR "                                  " 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+(\$+)/) {
            $name = $1;
            $code = $2;
            next if $name =~ /\$/[lib]\err/;
            unless($name =~ /\$/[lib]_\{([RF]\}\}\(\w+\)/) {
                print STDERR "Invalid error code $name\n";
            }
        }
    }
    print STDERR "                                 " 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+(\$+)(\$+)/) {
            $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{$lib})) {
print STDERR "Max function code fmax" . "\n" . "\n" . "$lib" . "\n" = $fmax{$lib}\n";
$fassigned{$lib} =~ m/^:(.*):$/;
@fassigned = sort {a <=> b} split(";", $1);
print STDERR "\n" . "@fassigned\n";
}
if (defined($rmax{$lib})) {
print STDERR "Max reason code rmax" . "\n" . "\n" . "$lib" . "\n" = $rmax{$lib}\n";
$rassigned{$lib} =~ m/^:(.*):$/;
@rassigned = sort {a <=> b} split(";", $1);
print STDERR "\n" . "@rassigned\n";
}
}
if ($lib eq "SSL") {
if ($rmax{$lib} >= 1000) {
print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\n";
++$errcount;
}
# 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\n" 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/);
        # Don't parse the error source file.
        next if exists $cskip{$file};
        print STDERR "File loaded: \$file\n" 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\n= \$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\n= \$rcodes\$1 (lib: \$2)\n" if $debug;
            }
        }
    }
}

print STDERR "\n";
}
}
close IN;
}
close IN;
}
print STDERR "\n" if $debug;

# Now process each library in turn.

foreach $lib (keys %cs)
{
    my $hfile = $hinc{$lib};
    my $cfile = $csrc{$lib};
    if(!$fnew{$lib} && !$rnew{$lib}) {
        print STDERR "$lib:		No new error codes\n";
        next unless $rebuild;
    } else {
        print STDERR "$lib:		$fnew{$lib} New Functions, $rnew{$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, $_;
        }
        close IN;
    } else {
        push @out,
        "/* ====================================================================
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        ",
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"*\n",
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"*\n",
"*/
",
"* Libraries can be linked together as a single library, with the same\n",
"* \n",
"* Notice above for each additional library
",
"* Libraries linked together for redistribution must retain the above\n",
"* notice, this list of conditions and the following disclaimer.
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/*ifndef HEADER_${lib}_ERR_H

#ifdef  __cplusplus

"extern \"C\" {\n
"#endif\n
\n"/

/* BEGIN ERROR CODES */

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
}

/* 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++;
    }
    $fmax{$lib} = $findcode;
    $fassigned{$lib} .= "$findcode:\n";
    print STDERR "New Function code $i
" if $debug;

    $fassigned{$lib} .= "$findcode:\n";
    $fassigned{$lib} .= "$findcode:\n";
    $fassigned{$lib} .= "$findcode:\n";
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    $fassigned{$lib} .= "$findcode:\n";
    $fassigned{$lib} .= "$findcode:\n";
    $fassigned{$lib} .= "$findcode:\n";
}
printf OUT "#define $i%s $fcodes{$i}
",	"x "$z;
}

print OUT "/* Reason codes. */
"
foreach $i (@reasons) {
$z=6-int(length($i)/8);
if($rcodes{Si} eq "X") {
$rassigned{Slib} =~ m/^:([^:]*):/;
$rassigned{Slib} .= "$rcodes{Slib}";
$rmax{Slib} = $rmax{Slib};
}
while ($rassigned{Slib} =~ m/:$findcode:/) {
$rassign{Slib} .= "$findcode:";
}$findcode++;
}$rcodes{Si} = $findcode;
$rassigned{Slib} .= "$findcode:";
print STDERR "New Reason code $i
" if $debug;
}
printf OUT "#define $i%s $rcodes{Slib}
",	"x "$z;
}

printf OUT "EOF"
#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,"<$cfile")) {
while (<IN>) {
if (/\b(${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
" if $debug;
}$ftrans{$1} = $2;
}
}
}

EOF

close OUT;

#
open (OUT,">$cfile") || die "Can't open $cfile for writing";

print OUT <<"EOF"
/* $cfile */
/* ==---------------------------------------------------------------------*/
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#include <stdio.h>
#include <openssl/err.h>
#include $hincf

/* BEGIN ERROR CODES */
#endif OPENSSL_NO_ERR

/* 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. */
#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_FUNC($i),\"$fn\"\},\n";
    print OUT "\{ERR_FUNC($i),\"$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 $strr = "ERR_REASON($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]/;
    }
    $nspc = 40 - length($strr) unless length($strr) > 40;
    $nspc = " \" x $nspc;
    print OUT "\{${strr}\$nspc,\"$rn\"\},\n";
  }
  if($static) {
    print OUT <<"EOF"
    \{0,NULL\}
  }
};

#endif
void ERR_load_${lib}_strings(void)
{
  #ifndef OPENSSL_NO_ERR
  if (ERR_func_error_string(${lib}_str_functs[0].error) == NULL)
  {
    ERR_load_strings(${load_errcode},${lib}_str_functs);
    ERR_load_strings(${load_errcode},${lib}_str_reasons);
  }
  #endif

  } 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;

  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)
    {
      ${lib}_error_init=0;
      #ifndef OPENSSL_NO_ERR
      ERR_load_strings(${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,${lib}_lib_name);
      #endif
  }
void ERR_unload_${lib}_strings(void)
{
  if (${lib}_error_init == 0)
  {
    #ifndef OPENSSL_NO_ERR
    ERR_unload_strings(${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;
  }
}

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

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;
}

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/util/mkerr.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/crypto/ui/ui_locl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/mem_clr.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/ui/ui_compat.h

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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/uid.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/crypto/cmac/cmac.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/cmac/cmac.c

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  2.0.16/fips/sha/fips_standalone_sha1.c
* /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
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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/crypto/ec/ec2_smpl.c
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   2.0.16/crypto/ecdsa/ecs_ossl.c

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#!/usr/bin/env perl

# 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\-]*\.[\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)=@_; 
  $code.=<<___;
  EXTU$A,8,24,$Ahi; smash $A to 4 bytes
  ||AND$B,$xFF,$B_0
  ||SHRUSB,24,$B_3
  SHRUSA,16,   $Ahix; smash $A to two halfwords
  ||EXTUSA,16,16,$Alo
___
  return $code;
}
sub mul_1x1_merged {
    my ($OUTlo,$OUThi,$A,$B)=@_;    
    $code.=<<___;
    EXTUSB,16,24,$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_lower {
    my ($OUTlo,$OUThi,$A,$B)=@_;    
    $code.=<<___;
    EXTUSB,8,24,$B_2; smash $B to 4 bytes
    AND$B,$xFF,$B_0
    SHRU$B,24,$B_3
    SHRU$A,16, $Ah; smash $A to two halfwords
    EXTU$A,16,16,$Alo

    XORS$Ahix0,$Alox2,$Ahix0
    MVS$Ahix2,$OUThi
    XORMPY$Alo,$B_2,$Alox2
    XORMPY$Ahi,$B_2,$Ahix2
    EXTUSB,16,24,$B_1
    XORMPY$Alo,$B_0,$A1; $Alox0
    XORS$Ahix1,$Alox3,$Ahix1
    SHLS$Ahix0,16,$OUTlo
    SHRU$Ahix0,16,$Ahix0
    XORS$Alox0,$OUTlo,$OUTlo
    XORS$Ahix0,$OUThi,$OUThi
    XORMPY$Ahi,$B_0,$Ahix0
    XORMPY$Alo,$B_3,$Alox3
    SHLS$Ahix1,8,$Alox1
    SHLS$Ahix3,8,$Ahix3
    XORS$Alox1,$OUTlo,$OUTlo
    XORS$Ahix3,$OUThi,$OUThi
    XORMPY$Ahi,$B_3,$Ahix3
    SHLS$Ahix1,24,$Alox1
    SHRU$Ahix1,8, $Ahix1
    XORS$Alox1,$OUTlo,$OUTlo
    XORS$Ahix1,$OUThi,$OUThi
    XORMPY$Alo,$B_1,$Alox1
    XORMPY$Ahi,$B_1,$Ahix1
    MVA1,$Alox0

    ___
}
my ($OUTlo,$OUThi)=@_;$code.=<<___;
;NOP
XOR$Ahix0,$Alox2,$Ahix0
||MV$Ahix2,$OUThi
NOP
XOR$Ahix1,$Alox3,$Ahix1
||SHL$Ahix0,16,$OUTlo
||SHRUS$Ahix0,16,$Ahix0
XORS$Alox0,$OUTlo,$OUTlo
||XORS$Ahix0,$OUThi,$OUThi
||SHL$Alox1,8,$Alox1
||SHL$Ahix3,8,$Ahix3
XORS$Alox1,$OUTlo,$OUTlo
||XORS$Ahix3,$OUThi,$OUThi
||SHL$Ahix1,24,$Alox1
||SHRUS$Ahix1,18,$Ahix1
XORS$Alox1,$OUTlo,$OUTlo
||XORS$Ahix1,$OUThi,$OUThi
___
}$code.=<<___;
.text

.global_bn_GF2m_mul_2x2
_bn_GF2m_mul_2x2:
.asmfunc
MVK0xFF,$xFF
___
&mul_1x1_upper($a0,$b0);# a0b0
$code.=<<___;
||MV$b1,$B
MV$s1,$A
___
&mul_1x1_merged("A28","B28",$A,$B);# a0b0/a1b1
$code.=<<___;
||XORS$b0,$b1,$B
XORS$a0,$a1,$A
___
&mul_1x1_merged("A31","B31",$A,$B);# a1b1/(a0+a1)(b0+b1)
$code.=<<___;
XORA28,A31,A29
||XORB28,B31,B29; a0b0+a1b1
___
&mul_1x1_lower("A30","B30");# (a0+a1)(b0+b1)
$code.=<<___;
||BNOPB3
XORA29,A30,A30
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|| XOR B29,B30,B30: (a0+a1)(b0+b1)-a0b0-a1b1
XORB28,A30,A30
|| STWA28,*${rp}[0]
XORB30,A31,A31
|| STWA30,*${rp}[1]
STWA31,*${rp}[2]
STWB31,*${rp}[3]
.endsasmfunc

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-
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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/crypto/rsa/rsa_x931.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rsa/fips_rsavtest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/cmac/fips_cmactest.c
* /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
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rsa/fips_rsastest.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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#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGRAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogram/s/.
# ====================================================================
#
# 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+
-02 -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;

($Xhi,$Xilo)=("A5","B5");# circular/ring buffer

$code.=<<___;
.text

.asgB3,RA
.asgA15,FP
.asgB15,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 $NUM
||MVK-128,B0
]|A0|BNOPRA; if ($NUM==0) return;
||[A0]|STWFP,*SP--(40); save frame pointer
||[A0]|MVSP,FP
||[A0]|MVK0x00404,B1
  [A0]|STDWB11:B10,*SP[3]
||[A0]|STDWA13:A12,*FP[-3]
||[A0]|MVKH0x60000,B1
  [A0]|STDWA11:A10,*SP[1]
||[A0]|MVCB1,AMR; setup circular addressing
||[A0]|ADDB0.SP,SP; alloca(128)
  [A0]|ANDB0,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]|SUBAWS.B,2; reserve two words above buffer
ADDAWS.B,3,$Xilo
ADDAWS.B,2,$Xhi

||MVSCTXA,CTXB
LDW*$CTXA][0^.LITTLE_ENDIAN],$Ahi; load ctx
||LDW*$CTXA][1^.LITTLE_ENDIAN],$Alo
||ADDB1.SK512,SK512
LDW*$CTXA][2^.LITTLE_ENDIAN],$Bhi
||LDW*$CTXA][3^.LITTLE_ENDIAN],$Blo
LDW*$CTXA][4^.LITTLE_ENDIAN],$Chi
||LDW*$CTXA][5^.LITTLE_ENDIAN],$Clo
LDW*$CTXA][6^.LITTLE_ENDIAN],$Dhi
||LDW*$CTXA][7^.LITTLE_ENDIAN],$Dlo
LDW*$CTXA][8^.LITTLE_ENDIAN],$Ehi
||LDW*$CTXA][9^.LITTLE_ENDIAN],$Elo
LDW*$CTXA][10^.LITTLE_ENDIAN],$Fhi
||LDW*$CTXA][11^.LITTLE_ENDIAN],$Flo
LDW*$CTXA][12^.LITTLE_ENDIAN],$Ghi
||LDW*$CTXA][13^.LITTLE_ENDIAN],$Glo
LDW*$CTXA][14^.LITTLE_ENDIAN],$Hhi
||LDW*$CTXA][15^.LITTLE_ENDIAN],$Hlo
LDNDW*$INP++,B11:B10; pre-fetch input
LDDW*$K512++,$Khi:$Klo; pre-fetch K512[0]
outerloop?:
MVK15,B0; loop counters
MVK64,B1
|SUBA0,1,A0
MVSAhi,$Actxhi
|MVSAlo,$Actxlo
|MVSBhi,$Bctxhi
|MVSBlo,$Bctxlo
|MVSChi,$Cctxhi
|MVSClo,$Cctxlo
|MVDSDhi,$Dctxhi
|MVDSDlo,$Dctxlo
MVSEhi,$Ectxhi
|MVSElo,$Ectxlo
|MVSFhi,$Fctxhi
|MVSFlo,$Fctxlo
|MVSGhi,$Gctxhi
|MVSGlo,$Gctxlo
|MVDSHhi,$Hctxhi
|MVDSHlo,$Hctxlo

loop0_15?:
.if BIG_ENDIAN
MVBI1,$T1hi
|MVBI0,$T1lo
 .else
SWAP4B10,$T1hi
|SWAP4B11,$T1lo
SWAP2$T1hi,$T1hi
|SWAP2$T1lo,$T1lo
 .endif

loop16_79?:
|STW$T1hi,*$Xihi++[2]
|STW$T1lo,*$Xilo++[2]; X[i] = T1
|ADD$Hhi,$T1hi,$T1hi
|ADDUSHlo,$T1lo,$T1carry:$T1lo; T1 += h
|SHRUSEhi,14,$S1hi
|SHLSEhi,32-14,$S1lo
|XORSFhi,$Ghi,$CHhi
|XORSFlo,$Glo,$CHlo
|ADDKHI,$T1hi,$T1hi
|ADDUKLO,$T1carry:$T1lo,$T1carry:$T1lo; T1 += K512[i]
|SHRUSElo,14,$S0lo
|SHLSELo,32-14,$S0hi
|XORS0hi,$S1hi,$S1hi
|XORS0lo,$S1lo,$S1lo
|ANDSEhi,$CHhi,$CHhi
|ANDSElo,$CHlo,$CHlo
|ROTL$Ghi,0,$Hhi
|ROTL$Glo,0,$Hlo; h = g
|SHRUSEhi,18,$S0hi
||SHL$Ehi,32-18,$t0lo
XORS$t0hi,$S1hi,$S1hi
||XORS$t0lo,$S1lo,$S1lo
||XORS$Ghi,$CHhi,$CHhi
||XORS$Glo,$CHlo,$CHlo; Ch(e,f,g) = ((f^g)&e)^g
||ROTLS$Fhi,0,$Ghi
||ROTLS$Flo,0,$Glo; g = f
||SHRUSE$lo,18,$t0lo
||SHL$Elo,32-18,$t0hi
XORS$t0hi,$S1hi,$S1hi
||XORS$t0lo,$S1lo,$S1lo
||ORS$Ahi,$Bhi,$MAJhi
||ORS$Alo,$Blo,$MAJlo
||ROTLS$Ehi,0,$Fhi
||ROTLS$Elo,0,$flo; f = e
||SHRUSE$hi,41-32,$t0lo
||SHL$Ehi,64-41,$t0hi
XORS$t0hi,$S1hi,$S1hi
||XORS$t0lo,$S1lo,$S1lo
||ANDS$Chi,$MAJhi,$MAJhi
||ANDS$Clo,$MAJlo,$MAJlo
||ROTLS$Dhi,0,$Ehi
||ROTLS$Dlo,0,$elo; e = d
||SHRUSE$lo,41-32,$t0hi
||SHL$Elo,64-41,$t0lo
XORS$t0hi,$S1hi,$S1hi
||XORS$t0lo,$S1lo,$S1lo; Sigma1(e)
||AND$Ahi,$Bhi,$t1hi
||AND$Alo,$Blo,$t1lo
||ROTLS$Chi,0,$Dhi
||ROTLS$Clo,0,$Dlo; d = c
||SHRUSE$hi,28,$S0hi
||SHL$Ahi,32-28,$S0lo
ORS$t1hi,$MAJhi,$MAJhi
||ORS$t1lo,$MAJlo,$MAJlo; Maj(a,b,c) = ((a|b)&c)|a&b
||ADD$SCHhi,$T1hi,$T1hi
||ADDUS$CHlo,$ST1carry:$ST1lo,$ST1carry:$ST1lo; T1 += Ch(e,f,g)
||ROTLS$Bhi,0,$Chi
||ROTLS$Blo,0,$Clo; c = b
||SHRUSE$lo,28,$t0lo
||SHL$Alo,32-28,$t0hi
XORS$t0hi,$S0hi,$S0hi
||XORS$t0lo,$S0lo,$S0lo
||ADD$S$1hi,$T1hi,$T1hi
||ADDUS$S1lo,$ST1carry:$ST1lo,$ST1carry:$ST1lo; T1 += Sigma1(e)
||ROTLS$Ahi,0,$Bhi
||ROTLS$Alo,0,$Blo; b = a
||SHRUSE$Ahi,34-32,$t0lo
||\text{SHLS}Ahi,64-34,$t0hi\n\text{XOR}t0hi,SS0hi,SShi\n||\text{XOR}t0lo,SS0lo,SS0lo\n||\text{ADDUSMAJhi},ST1hi,ST2hi\n||\text{ADDUSMAJlo},ST1carry:ST1lo,ST2carry:ST2lo; T2 = T1+Maj(a,b,c)\n||\text{SHRUS}Alo,34-32,St0hi\n||\text{SHLS}Alo,64-34,$t0lo\n\text{XOR}t0hi,SS0hi,SShi\n||\text{XOR}t0lo,SS0lo,SS0lo\n||[B0]\text{BNOP}loop0_15?\n||\text{SHRUS}Ahi,39-32,$t0lo\n||\text{SHLS}Ahi,64-39,$t0hi\n\text{XOR}t0hi,SS0hi,SShi\n||\text{XOR}t0lo,SS0lo,SS0lo\n||[B0]\text{LDNDW}*\text{INP}++,B11:B10; pre-fetch input\n||!![B1]\text{BNOp}break?\n||\text{SHRUS}Alo,39-32,S0lo\n||\text{SHLS}Alo,64-39,$t0lo\n\text{XOR}t0hi,SS0hi,SShi\n||\text{XOR}t0lo,SS0lo,SS0lo; Sigma0(a)\n||\text{ADDUS}T1carry,ST1hi,SEhi\n||\text{MVST}T1lo,SElo; e = T1\n||!![B0]LDW*$\{Xihi\}[28],ST1hi\n||!![B0]LDW*$\{Xiho\}[28],ST1lo; X[i+14]\n\text{ADDSS}Ohi,ST2hi,ST2hi\n||\text{ADDUS}S0lo,ST2carry:ST2lo,ST2carry:ST2lo; T2 += Sigma0(a)\n||[B1]\text{LDDW}*K512++,SKhi:SKlo; pre-fetch K512[i]\n\text{NOP}; avoid cross-path stall\n\text{ADDST}T2carry,ST2hi,$Ahi\n||\text{MVST}T2lo,$Alo; a = T2\n||[B0]\text{SUBB}B0,1,B0\n;====== branch to loop00_15? is taken here\n\text{NOP}\n;====== branch to break? is taken here\n\text{LDW}*$\{Xihi\}[2],ST2hi\n||\text{LDW}*$\{Xiho\}[2],ST2lo; X[i+1]\n||\text{SHRUST}T1hi,19,SS1hi\n||\text{SHLST}T1hi,32-19,SS1lo\n\text{SHRUST}T1lo,19,$t0lo\n||\text{SHLST}T1lo,32-19,$t0hi\n\text{XOR}t0hi,SS1hi,SS1hi\n||\text{XOR}t0lo,SS1lo,SS1lo\n||\text{SHRUST}T1hi,61-32,$t0lo\n||\text{SHLST}T1hi,64-61,$t0hi\n\text{XOR}t0hi,SS1hi,SS1hi\n||\text{XOR}t0lo,SS1lo,SS1lo
| SHRTST1lo,61-32,ST0hi  |
| SHLST1lo,64-61,ST0lo  |
| XORST0hi,SS1hi,SS1hi  |
| XORST0lo,SS1lo,SS1lo  |
| SHRTST1hi,6,ST0hi     |
| SHLST1hi,32-6,ST0lo   |
| XORST0hi,SS1hi,SS1hi  |
| XORST0lo,SS1lo,SS1lo  |
| SHRTST1lo,6,ST0lo     |
| LDW*{X[i]}[18],ST1hi  |
| LDW*{X[i]}[18],ST1lo; X[i+9] |
| XORST0lo,SS1lo,SS1lo  |

| LDW*{X[i]}[0],SCHhi  |
| LDW*{X[i]}[0],SCHlo; X[i] |
| SHRTST2hi,1,SS0hi    |
| SHLST2hi,32-1,SS0lo  |
| SHRTST2lo,1,ST0lo    |
| SHLST2lo,32-1,ST0hi  |
| XORST0hi,SS0hi,SS0hi |
| XORST0lo,SS0lo,SS0lo |
| SHRTST2hi,8,ST0hi    |
| SHLST2hi,32-8,ST0lo  |
| XORST0hi,SS0hi,SS0hi |
| XORST0lo,SS0lo,SS0lo |
| SHRTST2lo,8,ST0lo    |
| SHLST2lo,32-8,ST0hi  |
| XORST0hi,SS0hi,SS0hi |
| XORST0lo,SS0lo,SS0lo |
| ADDSS1hi,ST1hi,ST1hi |
| ADDUS1lo,ST1lo,ST1carry;ST1lo; T1 = X[i]+sigma1() |
| [B1]BNOPloop16_79?  |
| SHRTST2hi,7,ST0hi    |
| SHLST2hi,32-7,ST0lo  |
| XORST0hi,SS0hi,SS0hi |
| XORST0lo,SS0lo,SS0lo |
| ADDSSCHhi,ST1hi,ST1hi |
| ADDUSCHlo,ST1carry;ST1lo,ST1carry;ST1lo; T1 += X[i] |
| SHRTST2lo,7,ST0lo    |
| XORST0lo,SS0lo,SS0lo; sigma0(X[i]+1) |

ADDSS0hi,ST1hi,ST1hi  
|| ADDUS0lo,ST1carry;ST1lo,ST1carry;ST1lo; T1 += sigma0()  
|| [B1]SUBB1,1,B1  
NOP; avoid cross-path stall  
ADDST1carry,ST1hi,ST1hi  
;;;; branch to loop16_79? is taken here
break?:
ADDS$Ahi,$Actxhi,$Ahi; accumulate ctx
||ADDS$Alo,$Actxlo,$Actxlo:$Alo
||[A0]LDNDW*$INP++,B11:B10; pre-fetch input
||[A0]ADDK-640,$K512; rewind pointer to K512
ADDS$Bhi,$Bctxhi,$Bhi
||ADDS$Blo,$Bctxlo,$Bctxlo:$Blo
||[A0]LDDW*$K512++,$Khi:$Klo; pre-fetch K512[0]
ADDS$Chi,$Cctxhi,$Chi
||ADDS$Clo,$Cctxlo,$Cctxlo:$Clo
||![A0]MV$CTXA,$CTXB
ADDS$Dhi,$Dctxhi,$Dhi
||ADDS$Dlo,$Dctxlo,$Dctxlo:$Dlo
||ADDS$Ehi,$Ectxhi,$Ehi
||![A0]BNOP outerloop?
||![A0]STWS$Ahi,*{CTXA}[0^LITTLE_ENDIAN]; save ctx
||![A0]STWS$Alo,*{CTXB}[1^LITTLE_ENDIAN]
ADDS$Fhi,$Fctxhi,$Fhi
||ADDS$Flo,$Fctxlo,$Fctxlo:$Flo
||ADDS$Dctxlo,$Dhi,$Dhi
||![A0]STWS$Chi,*{CTXA}[2^LITTLE_ENDIAN]
||![A0]STWS$Clo,*{CTXB}[3^LITTLE_ENDIAN]
ADDS$Ghi,$Gctxhi,$Ghi
||ADDS$Gctxlo,$Gctxlo:$Glo
||ADDS$Ehi,$Ectxhi,$Ehi
||![A0]STWS$Dhi,*{CTXA}[4^LITTLE_ENDIAN]
||![A0]STWS$Dlo,*{CTXB}[5^LITTLE_ENDIAN]
ADDS$Hhi,$Hctxhi,$Hhi
||ADDS$Hctxlo,$Hctxlo:$Hlo
||ADDS$Ectxlo,$Ehi,$Ehi
||![A0]STWS$Ehi,*{CTXA}[6^LITTLE_ENDIAN]
||![A0]STWS$Elo,*{CTXB}[7^LITTLE_ENDIAN]
ADDS$Gctxlo,$Gctxlo:$Glo
||ADDS$Gctxlo,$Gctxlo:$Ghi
||ADDS$Ectxlo,$Ehi,$Ehi
||![A0]STWS$Elo,*{CTXB}[8^LITTLE_ENDIAN]
||![A0]STWS$Ehi,*{CTXA}[9^LITTLE_ENDIAN]
ADDS$Gctxlo,$Gctxlo:$Ghi
||ADDS$Elo,$Ectxlo,*{CTXB}[9^LITTLE_ENDIAN]
||!A0]STWS$Fhi,*{CTXA}[10^LITTLE_ENDIAN]
||!A0]STWS$Flo,*{CTXB}[11^LITTLE_ENDIAN]
ADDS$ctxlo,$Shi,$Shi
||!A0]STWS$Fhi,*{CTXA}[12^LITTLE_ENDIAN]
||!A0]STWS$Flo,*{CTXB}[13^LITTLE_ENDIAN]
;;===== branch to outerloop? is taken here
STWS$hi,*{CTXA}[14^LITTLE_ENDIAN]
||STWS$lo,*{CTXB}[15^LITTLE_ENDIAN]
MVK-40,B0
ADDFP,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
||BNOPRA
LDDW*++SP(40),FP; restore frame pointer
MVK0,B0
MVCB0,AMR; clear AMR
NOP2; wait till FP is committed
.endasmfunc

.sect".const:sha_asm"
.align128
K512:
   .uword0x428a2f98,0xd72ae22, 0x71374491,0x23ef65cd
   .uword0x9eb50bfcf,0x3ec4d3bf2, 0xe9b5db5a5,0x8189dbbc
   .uword0x956c25b,0xf348b538, 0x59f111f0,0xb605d019
   .uword0x9238244,0xa1f794f9b, 0xaba15ed5,0xda6d8118
   .uword0x8d70a98,0xa3030242, 0x12835b01,0x45706f6be
   .uword0x23a3f85b,0x8ef4b28f8, 0x550c7dc3,0xd5f5d4e2
   .uword0x72be5d74,0xf27b896f, 0x80deb1fe,0x3b1696f1
   .uword0x9bd6a6f7,0x25c71235, 0xc9bf174,0xcff96294
   .uword0x4e9b698c,0x9ef14ad2, 0xe0e4f4786,0x38f2f5e3
   .uword0x0fc19dc6,0x8b8cd5b5, 0x240ca1cc,0x77ae9c65
   .uword0x2de9267f,0x592b0275, 0x4a7484aa,0x65ea6e483
   .uword0x5cb0a9dc,0xda411fbd4, 0x76f988da,0x83115b5
   .uword0x983e5152,0x03e66d6f, 0xa831c66d,0x2db43210
   .uword0xb00327c8,0x98f0b21f, 0x0f597f70,0xb8e90e4
   .uword0xc66e00bf3,0x3da88f0c2, 0x5da79147,0x930a725
   .uword0x6ca6351,0xe003286f, 0x14292967,0xa0d6e6e0
   .uword0x2f7b0a85,0x46d22ff, 0x2e1b2138,0x56c526926
   .uword0x4d2c6dfc,0x5ac42aed, 0x53380d13,0xd6953bd3d
   .uword0x650a7354,0x8baf63de, 0x766a0abb,0x3c777b2a8
   .uword0x81c2e92e,0x47edae6e, 0x92722c85,0x1482353b
   .uword0xa2bfe8a1,0xc4c10364, 0xa81a664b,0x0bc423001
   .uword0xc24b8870,0xdf0f8997, 0xc7651a3,0x06f4e60e
   .uword0xd192e19,0xd6ef5218, 0x0d990624,0x5565a910
   .uword0xef0e3585,0x5771202a, 0x106aa070,0x32bbd1b8
   .uword0x19a4c1e6,0xbb8d20c8, 0x1e376c08,0x5141ab53
   .uword0x274d8774,0xd8eeeb99, 0x34b0bcb5,0xe19b48a8
   .uword0x391c0cb3,0xc45c9a63, 0x4ed4a4a4,0xe3413c0d
   .uword0x59c6ca4f,0xf7763e37e, 0x682ef63f,0x1d6b28a3
   .uword0x748982ee,0x5defb2f, 0x78a5363f,0x43721f60
   .uword0x84c87814,0xe1f0ab72, 0x8cc70208,0x1a6439ec
   .uword0x90befffa,0x23631e28, 0xa5404fbc,0xda82d7e9
   .uword0x9e289a3f7,0xb2c67915, 0x86718782,0xe372532b
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
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 accommodated in registers, and has "perfect" interrupt
# agility. Drawback is obviously the code size...

while (($output=shift) && ($output!~/\w\[\w\-]*\w+$/)) {} 
open STDOUT,">$output";

($CTX,$INP,$NUM) = ("A4","B4","A6"); # arguments
($A,$B,$C,$D,$E, $Arot,$F,$F0,$K) = map("A$_",(16..20, 21..24));
@X = ($A,$B,$C,$D,$E);
@V = 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; ;; $i  
  || ANDSc,$b,$F  
  || ANDNSd,$b,$F0  
  || ADDSK,$e,$e; E+=K  
  || LDNW*$[INP]+++,@X[$i+2]  
  ORSF0,$F,$F; F_00_19(B,C,D)  
  || ROTL$b,30,$b  
  || ADD@X[$i],$e,$e; E+=X[i]  
  ADDSArOt,$e,$e; E+=rots(A,5)  
  || SWAP4@X[$i+1],@X[$i+1]  
  ADDSF,$e,$e; E+=F_00_19(B,C,D)  
  ___

  $code.=<<___ if ($i==14);  
  ROTL$a,5,$Arot; ;; $i  
  || ANDSc,$b,$F  
  || ANDNSd,$b,$F0  
  || ADDSK,$e,$e; E+=K  
  ORSF0,$F,$F; F_00_19(B,C,D)  
  || ROTL$b,30,$b  
  || ADD@X[$i],$e,$e; E+=X[i]  
  ADDSArOt,$e,$e; E+=rots(A,5)  
  || SWAP4@X[$i+1],@X[$i+1]  
  ADDSF,$e,$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; ;; $i  
  || ANDSc,$b,$F  
  || ANDNSd,$b,$F0  
  || ADDSK,$e,$e; E+=K  
  || XOR@X[($j+8)&15],@X[$j],@X[$j]  
  ORSF0,$F,$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]  
  ADDSArOt,$e,$e; E+=rots(A,5)  
  || ROTL@X[$j],1,@X[$j]  
  ADDSF,$e,$e; E+=F_00_19(B,C,D)  
  ___

  $code.=<<___ if ($i>15);  
  || XOR@X[($j+2)&15],@X[$j],@X[$j]  

Open Source Used In FXOS HIGH END 2.9.1 3287
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,$Arot;; Si 
    || XORc,$b,$SF 
    || ADDSK,$e,$e; E+=K 
    || XOR@X[($j+8)&15],@X[$j],@X[$j] 
    XORs,$F,$SF; F_00_19(B,C,D) 
    || ROTL$b,30,$b 
    || ADD@X[($i&15)],@X[$j],@X[$j] 
    ROTL@X[$j],1,@X[$j] 
    ADDSF,$e,$e; E+=F_00_19(B,C,D) 

    ___
    } 

    $code.=<<... if ($i==79); 
    || [A0]\Bloop? 
    || [A0]\LDNW*$INP]+,,@X[0]; pre-fetch input 
    ROTL$a,5,$Arot;; Si 
    || XORc,$b,$SF 
    || ADDSK,$e,$e; E+=K 
    || [A0]\LDNW*$INP]+,,@X[1] 
    XORd,$F,$SF; F_20_39(B,C,D) 
    || ROTL$b,30,$b 
    || ADD@X[($i&15)],@X[$j],@X[$j] 
    ADDSArot,$e,$e; E+=rot(A,5) 
    ADDSF,$e,$e; E+=F_20_39(B,C,D) 

    ___
    } 

    $code.=<<... if ($i<=79); 
    || [A0]\Bloop? 
    || [A0]\LDNW*$INP]+,,@X[0]; pre-fetch input 
    ROTL$a,5,$Arot;; Si 
    || XORc,$b,$SF 
    || ADDSK,$e,$e; E+=K 
    || [A0]\LDNW*$INP]+,,@X[1] 
    XORd,$F,$SF; F_20_39(B,C,D) 
    || ROTL$b,30,$b 
    || ADD@X[($i&15)],@X[$j],@X[$j] 
    ADDSArot,$e,$e; E+=rot(A,5) 
    ADDSF,$e,$e; E+=F_20_39(B,C,D) 
    || ADDSBctx,$a,$a; accumulate context 
    || ADDSDctx,$c,$c 
    ADDSDctx,$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[|$j|]
ROTLS$a,5,$Arot;;$i
||AND$d,$b,$F
||AND$d,$b,$F0
||ADD$K,$e,$e; E+=K
|| XOR @X[(j+8)&15],@X[|$j|],@X[|$j|]
XORSF0,$F,$F
||AND$e,$d,$F0
||ROTLS$b,30,$b
|| XOR @X[(j+13)&15],@X[|$j|],@X[|$j|]
||ADD@X[|$i|&15],@X,$e; E+=X[i]
XORSF0,$F,$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
.asg0.__TI_EABI__
.endif
.if __TI_EABI__
.asgsha1_block_data_order,sha1_block_data_order
.endif
.asgB3,RA
.asgA15,FP
.asgB15,SP

.if BIG_ENDIAN
.asgMV,SWAP2
.asgMV,SWAP4
.endif
global _sha1_block_data_order
_sha1_block_data_order:
.asmfunc
MV$NUM,A0; reassign $NUM
[!A0]BNOP; if ($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]
NOP3

loop?:
SUBA0,1,A0
||MVSA,SActx
||MVDSB,SBctx
||SWAP2@X[0],@X[0]
||MVKL0x5a827999,SK
MVKH0x5a827999,SK; K_00_19
||MVSC,SCctx
||MVSD,SDctx
||MVDS,ESEctx
||SWAP4@X[0],@X[0]
___
for ($i=0;$i<20;$i++){ &BODY_00_19($i,@V); unshift(@V.pop(@V)); }
$code.=<<___;
||MVKL0x6ed9eba1,SK
MVKH0x6ed9eba1,SK; K_20_39
___
for (;$i<40;$i++){ &BODY_20_39($i,@V); unshift(@V.pop(@V)); }
$code.=<<___;
||MVKL0x8f1bbd6c,SK
MVKH0x8f1bbd6c,SK; K_40_59
___
for (;$i<60;$i++){ &BODY_40_59($i,@V); unshift(@V.pop(@V)); }
$code.=<<___;
||MVKL0xca62c1d6,SK
MVKH0xca62c1d6,SK; K_60_79
___
for (;$i<80;$i++){ &BODY_20_39($i,@V); unshift(@V.pop(@V)); }
$code.=<<___;
BNOPRA; return
STWSA,*$CTX[0]; emit A-E...
STWSB,*$CTX[1]
STWSC,*$CTX[2]
STWS*D*CTX[3]
STWSE,*${CTX}[4]
.getEndasmfunc

.sect.const
.cstring "SHA1 block transform for C64x, CRYPTOGAMS by <appro@openssl.org>"
.align4

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-c64x-large.pl
No license file was found, but licenses were detected in source scan.

#!/usr/bin/env perl
# Copyright 2016 The OpenSSL Project Authors. All Rights Reserved.
#
# Licensed under the OpenSSL license (the "License"). You may not use
# this file except in compliance with the License. You can obtain a copy
# in the file LICENSE in the source distribution or at
# https://www.openssl.org/source/license.html

while (($output=shift) && ($output!~/\w[\w-]*\w+$/)) {}
open STDOUT,">$output";

endcode.=<<___;
.text

.if ASSEMBLER_VERSION<7000000
.asg0,___TI_EABI___
.endif
.if ___TI_EABI___
.asgOPENSSL_rdtsc,OPENSSL_rdtsc
.asgOPENSSL_cleanse,OPENSSL_cleanse
.asgcRYPTO_memcmp,CRYPTO_memcmp
.asgOPENSSL_atomic_add,OPENSSL_atomic_add
.asgOPENSSL_wipe_cpu,OPENSSL_wipe_cpu
.asgOPENSSL_instrument_bus,OPENSSL_instrument_bus
.asgOPENSSL_instrument_bus2,OPENSSL_instrument_bus2
.endif

.asgB3,RA
.asg0x01AC0000,TIMER_BASE; Timer 2

.global OPENSSL_rdtsc
OPENSSL_rdtsc:
.asmfunc
MVKL	TIMER_BASE,A5
MVKH	TIMER_BASE,A5
LDW*A5[0],A2; load CTL
LDW*A5[2],A4; load CTN
NOP2
.if BIG_ENDIAN
MVK0x2e0,A7; internal clock source, don't hold, go
||MVK-1,A6; maximum period
.else
MVK0x2e0,A6; internal clock source, don't hold, go
||MVK-1,A7; maximum period
.endif
!A2][STDWA7:A6,*A5[0]; fire it up
||BNOPRA,5
.endasmfunc

.global_OPENSSL_cleanse
_OPENSSL_cleanse:
.asmfunc
ZEROA3:A2
||ZEROB2
||SHRUB4,3,B0; is length >= 8
||ADD1,A4,B6
||B0]BNOPRA
||B0]SUBB0.1,B2
||ZEROA1
||ZEROB1
  ||[!B0]CMPLT0,B4,A1
  ||[!B0]CMPLT1,B4,B1
  ||ZEROB5
  ||[!B0]CMPLT2,B4,A1
  ||[!B0]CMPLT3,B4,B1
  ||[!B0]CMPLT4,B4,A1
  ||[!B0]CMPLT5,B4,B1
  ||[!B0]CMPLT6,B4,A1
cleanse_loop?:
STNDWA3:A2,*A4++
||SUBB4,8,B4
MVB4,B0; remaining bytes
||ADD1,A4,B6
||BNOPRA
 | [B0]CMPLT0,B0,A1
 | [B0]CMPLT1,B0,B1
 | [B0]CMPLT2,B0,A1
 | [B0]CMPLT3,B0,B1
 | [B1]STBB5,*,B6++[2]
 | [B0]CMPLT4,B0,A1
 | [B0]CMPLT5,B0,B1
 | [B1]STBB5,*,B6++[2]
 | [B0]CMPLT6,B0,A1
.endasmfunc
.if0
.global_CRYPTO_memcmp
_CRYPTO_memcmp:
.asmfunc
MVA6,B0
 | ![B0]BNOPRA
 ||![B0]ZEROA4
 ||[B0]ZEROA1:A0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++,B5
 ||[B0]BDECCmpmcmp_loop?,B0
 | [B0]LDBU*A4+++,A5
 ||[B0]LDBU*B4++;
XORA5,B5,A1
|| [B0]LDBU* A4++,A5
|| [B0]LDBU* B4++,B5
|| [B0]BDEC mommy_loop? ,B0

memcmp_loop?:
ORA1,A0,A0
|| XOR A5,B5,A1
|| [B0]LDBU* A4++,A5
|| [B0]LDBU* B4++,B5
|| [B0]BDEC mommy_loop? ,B0

BNOPRA,3
ZEROA4
[A0]MVK1,A4
.endasmfunc
.endif

.global _OPENSSL_atomic_add
.OPENSSL_atomic_add:
.asmfunc
BNOPatomic_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
BNOPRA,3; and this branch stretches even over store
ADD B4,B5,B5
atomic_store? ;!
STW B5,*A4
|| MVB5,A4
.endasmfunc

.global _OPENSSL_wipe_cpu
.OPENSSL_wipe_cpu:
.asmfunc
ZEROA0
|| ZEROB0
|| ZEROA1
|| ZEROB1
ZEROA3:A2
|| MVDB0,B2
|| ZEROA4
|| ZEROB4
|| ZEROA5
|| ZEROB5
|| BNOPRA
ZEROA7:A6
CLFLUSH.macro CONTROL, ADDR, LEN
B passthrough?
[ST ADDR,*CONTROL[0]]
ST LEN,*CONTROL[1]
spinlock?:
LDW *CONTROL[1],A0
NOP3
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
MVK0x00004030,A3
MVKLTIMER_BASE,B16
MVB0,A4; return value
MVK1,A1
MVKHOx01840000,A3; L1DWIBAR
MVKHTIMER_BASE,B16
LDW*B16[2],B8; collect 1st tick
MVK0x00004010,A5
NOP4
MVB8,B9; lasttick = tick
MVK0,B7; lastdiff = 0
MVKHOx01840000,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
NOP4
ADD,B7,B5,B5
STWB5,*B4
bus_loop1?:
LDW*B16[2],B8
|| [B0]SUBB0,1,B0
NOP4
SUBB8,B9,B7; lastdiff = tick - lasttick
MV8,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
NOP4
ADD,B7,B5,B5
STWB5,*B4; !B1] is removed to flatten samples
|| ADDK4,B4
|| [B0]BNOPbus_loop1?,5

BNOPRA,5
.endasmfunc

.global_OPENSSL_instrument_bus2
_OPENSSL_instrument_bus2:
.asmfunc
MVA6,B0; reassign max
MV8,A6; reassing sizeof(output)
MVK0x00004030,A3
MVKLTIMER_BASE,B16
MVA4,B4; reassign output
MVK0,A4; return value
MVK1,A1
MVKHOx01840000,A3; L1DWIBAR
MVKHTIMER_BASE,B16
LDW* B16[2], B8; collect 1st tick
|| MVK0x00004010, A5
NOP4
MV8B, B9; lasttick = tick
|| MVK0, B7; lastdiff = 0
|| [MVKH0x01840000, 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
NOP4
ADD B7, B5, B5
STWB5, *B4

LDW* B16[2], B8; collect 1st diff
NOP4
SUBB8, B9, B7; lastdiff = tick - lasttick
|| MVB8, B9; lasttick = tick
|| SUBBO, 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
NOP4
ADD B7, B5, B5
STWB5, *B4; !B1] is removed to flatten samples
||!B0] BNOPbus_loop2_done?, 2
|| SUBBO, B0
LDW* B16[2], B8
NOP4
SUBB8, B9, B8
|| MVB8, B9
CMPEQB8, B7, B2
|| MVB8, B7
||!A0] ADDA WB4, 1, B4
||!A0] ADDK1, A4
CMPEQA4, A6, A2
||!A2] BNOPbus_loop2?, 5

bus_loop2_done?:
BNOPRA, 5
.endasmfunc

.if __TI_EABI__
.sect".init_array"
.else
.sect".pinit"
.endif
.align4
.long_OPENSSL_rdtsc; auto-start timer

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/c64xicpuid.pl

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/.
# ====================================================================
#
# 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 further 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;
    $LRSAVE=2*$SIZE_T;
    $STU="stdu";
    $POP="ld";
    $PUSH="std";
    $UCMP="cmpld";
$SHRI="srli";
} elsif ($flavour =~ /32/) {
$SIZE_T=4;
$LRSAVE=$SIZE_T;
$STU="stwu";
$SOPP="lwz";
$SUCMP="cmplw";
$SHRI="srwi";
} else { die "nonsense $flavour"; }

$sp="r1";
$FRAME=6*$SIZE_T+13*16; # 13*16 is for v20-v31 offload

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$vrsave,256
li r9,0x30
lvx_u$H,0,r4 # load H

vsplitsb$xC2,-16# 0xf0
vsplitsb$s0,1# one
vaddubm$xS2,$xS2,$xS2# 0xe0
vxor$zero,$zero,$zero
vorsC2,$xC2,$t0# 0xe1
vsldoiSx,$xC2,$zero,15# 0xe1...
vsldoiS1,$zero,$t0,1# ...1
vaddubmSx,$xC2,$xC2# 0xc2...
vsplitbSt2,7
vorsC2,$xC2,$t1# 0xc2...01
vsplitbSt1,$H,0# most significant byte
vsl$SH,$St0# H<<=1
vrsabSt1,$t1,$t2# broadcast carry bit
vandSt1,$t1,$xC2
vxor$IN,$SH,$t1# twisted H

vsldoi$H,$IN,$IN,8# twist even more ...
vsldoiSx,$zero,$xC2,8# 0xc2.0
vsldoi$H1,$zero,$H,8# ... and split
vsldoi$Hh,$SH,$zero,8

stvx_uSx0, r3# save pre-computed table
stvx_u$H, r8, r3
lit0, 0x40
stvx_u$H, r9, r3
lit9, 0x50
stvx_u$Hh, r10, r3
lit10, 0x60

vpmuaddxHx1, $IN, $H1# H.loH.lo
vpmuaddxHx2, $IN, $H2# H.hiH.hi + H.loH.hi
vpmuaddxHx3, $IN, $H3# H.hiH.hi

vpmuaddxT2, $Xl, $X2# 1st reduction phase

vsldoiT0, $Xm, $zero, 8
vsldoiT1, $zero, $Xm, 8
vxorsXl,$Xl, $t0
vxorsXh,$Xh, $t1

vsldoiSx1,$X1,$X1, 8
vxorsX1, $X1, $t2

vsldoiT1, $Xl, $X1, 8# 2nd reduction phase
vpmuaddxHx1, $X1, $X2
vxor$t1, $t1, $Xh
vxor$IN1, $X1, $t1

vsldoiH2, $IN1, $IN1, 8
vsldoiH2, $zero, $H2, 8
vsldoiH2, $H2, $zero, 8
stvx_u $H2l,r8,r3 # save H^2
lir8,0x70
stvx_u $H2,r9,r3
lir9,0x80
stvx_u $H2h,r10,r3
lir10,0x90
___
{
  my ($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,$Xl1,$t5

  vsldoi$t1,$Xl,$Xl,8! # 2nd reduction phase
  vsldoi$t5,$Xl1,$Xl1,8! # 2nd reduction phase
  vpmsumd$Xl1,$Xl,$xC2
  vpmsumd$Xl,$Xl1,$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$H1,$zero,$H,8
  vsldoi$Hh,$H,$zero,8
  vsldoi$H2l,$zero,$H2,8
vsldoi $H2h,$H2,$zero,8

stvx_u $H1,r8,r3 # save H^3
lir8,0xa0
stvx_u $H,r9,r3
lir9,0xb0
stvx_u $Hh,r10,r3
lir10,0xc0
stvx_u $H2l,r8,r3 # save H^4
stvx_u $H2,r9,r3
stvx_u $H2h,r10,r3

mtspr256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,2,0
.long 0
.size .gcm_init_p8,.-.gcm_init_p8

} $code.<<<<<;
.globl .gcm_gmult_p8
.align 5
.gcm_gmult_p8:
lisr0,0xff8
lir8,0x10
mfspr$vrsave,256
lir9,0x20
mtspr256,r0
lir10,0x30
lvx_u$IN,0,$Xip # load Xi

lvx_u$H1,r8,$Htbl # load pre-computed table
le?vlsit$lemask,r0,r0
lvx_u$H, r9,$Htbl
le?vpltsisb$t0,0x07
lvx_u$Hh,r10,$Htbl
le?vxor$lemask,$lemask,$t0
lvx_u$x$c2,0,$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,$H# H.hiXi.hi
vpmsumd$t2,$XI,$x$c2 # 1st reduction phase
vsldoi$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,$Xl,8  # 2nd reduction phase
vpsmsudo$Xl,$Xl,$x$C2
vxor$st1,$St1,$Xh
vxor$Xl,$Xl,$St1

tevperm$Xl,$Xl,$Xl,$$Slemask
stvx_u$Xl,0,$$Xip# write out $Xi

mtspr256,$vrsave
blr
.long0
.byte0,12,0x14,0,0,2,0
.long0
.size.gcm_gmult_p8,.-.gcm_gmult_p8
.gcm_ghash_p8
.align5
gcm_ghash_p8:
li$r0,-4096
li$r8,0x10
mfspr$vrsave,256
li$r9,0x20
mtspr256,$r0
li$r10,0x30
lvx_u$Xl,0,$$Xip# load Xi

lvx_u$Hl,$r8,$Htbl# load pre-computed table
li$r8,0x40
1e?lvsi$$lemask,$r0,$r0
lvx_u$H,$r9,$Htbl
li$r9,0x50
1e?vpspltisb$0,0x07
lvx_u$Hh,$r10,$Htbl
li$r10,0x60
1e?vxor$lemask,$$lemask,$t0
lvx_u$sC2,0,$Htbl
1e?vperm$Xl,$Xl,$Xl,$$lemask
vxor$zero,$zero,$zero

${UCMP}i$len,64
bgeLgcm_ghash_p8_4x

lvx_u$IN,0,$inp
addi$inp,$inp,16
subic.$len,$len,16
le?vperm$IN,$IN,$IN,$lenmask
vxor$IN,$IN,$XI
beqLshort

lvx_u$H2l,r8,$Htbl  # load H^2
lir8,16
lvx_u$H2, r9,$Htbl
addr9,$inp,$len# end of input
lvx_u$H2h,r10,$Htbl
be?bLoop_2x

.align5
Loop_2x:
lvx_u$IN1,0,$inp
le?vperm$IN1,$IN1,$IN1,$lenmask
subic.$len,$len,32
vpmsumdx$Xl,$IN1,$H2l # H^2.loXi.lo
vpmsumdx$Xl1,$IN1,$Hl # H.loXi+1.lo
subf$0,$0,$0 borrow? 1:0
vpmsumdx$Xm,$IN1,$H2 # H^2.hiXi.lo+H^2.loXi.hi
vpmsumdx$Xm1,$IN1,$H # H.hiXi+1.lo+H.loXi+1.hi
and$0,$0,$len
vpmsumdx$Xh,$IN1,$H2h # H^2.hiXi.hi
vpmsumdx$Xh1,$IN1,$Hh # H.hiXi+1.hi
add$inp,$inp,$r0

vxor$XI,$XI,$XI1
vxor$Xm,$Xm,$Xm1

vpmsumdx$St2,$XI,$Xc2 # 1st reduction phase

vsldoi$t0,$Xm,$zero,8
vsldoi$t1,$zero,$Xm,8
vxor$Xh,$Xh,$Xh1
vxor$XI,$XI,$t0
vxor$Xh,$Xh,$t1

evsldoi$XI,$XI,$Xc1,8
vxor$XI,$XI,$t2
lvx_u$IN,r8,$inp
addi$inp,$inp,32
vsldoi$t1,$Xl,$Xl,8  # 2nd reduction phase
vpmsum$d$Xl,$Xl,$xC2
le?vperm$IN,$IN,$IN,$lemask
vxor$t1,$t1,$Xh
vxor$IN,$IN,$t1
vxor$IN,$IN,$Xl
$UCMP	tr9,$inp
bgt	Loop_2x# done yet?

cmplwi$len,0
bneLeven

Lshort:
vpmsum$d$Xl,$IN,$Hl# H.loXi.lo
vpmsum$d$Xm,$IN,$H# H.hiXi.lo+H.loXi.hi
vpmsum$d$Xh,$IN,$Hh# H.hiXi.hi

vpmsum$d$2,$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,$Xl,8  # 2nd reduction phase
vpmsum$d$Xl,$Xl,$xC2
vxor$t1,$t1,$Xh

Leven:
vxor$Xl,$Xl,$t1
le?vperm$Xl,$Xl,$Xl,$lemask
stvx_u$Xl,0,$Xip# write out Xi

mtspr256,$vrsave
blr
.long0
.byte0,12,0x14,0,0,4,0
.long0

|
|
my ($Xl3,$Xm2,$IN2,$H3l,$H3,$H3h,$Xh3,$Xm3,$IN3,$H4l,$H4,$H4h) = map("v$_",(20..31));
my $IN0=$IN;
my ($H21l,$H21h,$loperm,$hiperm) = ($H1l,$Hh,$H2l,$H2h);
$code.<<<<<;
.align5
.lcm_gcm_ghash_p8_4x:
Lgcm_gcm_ghash_p8_4x:
$STU$sp,$FRAME($sp)
li10,'15+6*$SIZE_T'
li11,'31+6*$SIZE_T'
stvx20,r10,$sp
addi10,r10,32
stvx21,r11,$sp
addi11,r11,32
stvx22,r10,$sp
addi10,r10,32
stvx23,r11,$sp
addi11,r11,32
stvx24,r10,$sp
addi10,r10,32
stvx25,r11,$sp
addi11,r11,32
stvx26,r10,$sp
addi10,r10,32
stvx27,r11,$sp
addi11,r11,32
stvx28,r10,$sp
addi10,r10,32
stvx29,r11,$sp
addi11,r11,32
stvx30,r10,$sp
li10,0x60
stvx31,r11,$sp
li0,-1
stw$vrsave,$FRAME-4'($sp)# save vrsave
mtspr256,r0# preserve all AltiVec registers

lvsl$t0,0,r8# 0x0001..0e0f
#lvx_u$H2l$r8,$Htbl# load H^2
li8,0x70
lvx_u$H2, r9,$Htbl
li9,0x80
vsplitsb$t1,8# 0x0808..0808
#lvx_u$H2h,r10,$Htbl
li10,0x90
lvx_u$H3l,r8,$Htbl# load H^3
li8,0xa0
lvx_u$H3, r9,$Htbl
li9,0xb0
lvx_u$H3h,r10,$Htbl
li10,0xc0
lvx_uSH4l,r8,$Htbl# load H^4
lir8,0x10
lvx_uSH4, r9,$Htbl
lir9,0x20
lvx_uSH4h,r10,$Htbl
lir10,0x30

vsldoi$t2,$zero,$t1,8# 0x0000..0808
vaddubm$hiperm,$t0,$t2# 0x0001..1617
vaddubm$sloperm,$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,$XI

vpmsum$XI1,$IN1,$SH3l
vpmsum$SXm1,$IN1,$SH3
vpmsum$SXh1,$IN1,$SH3h

vperm$SH21l,$SH2,$SH,$hiperm
vperm$t0,$IN2,$IN3,$sloperm
vperm$SH21h,$SH2,$SH,$sloperm
vperm$t1,$IN2,$IN3,$hiperm
vpmsum$SXm2,$IN2,$SH2# H^2.loXi+2.hi+H^2.hiXi+2.lo
vpmsum$SXl3,$IN2,$SH21l# H^2.loXi+2.lo+H.loXi+3.lo
vpmsum$SXm3,$IN3,$SH# H.hiXi+3.lo +H.loXi+3.hi
vpmsum$SXh3,$St1,$SH21h# H^2.hiXi+2.hi+H.hiXi+3.hi

vxor$Xm2,$Xm2,$Xm1
vxor$X13,$XI3,$XI1
vxor$Xm3,$Xm3,$Xm2
vxor$Xh3,$Xh3,$Xh1

bltLtail_4x

Loop_4x:
lvx_u$IN0,0,$inp

---

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lvx_u\$IN1,r8,$inp
subc.$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

vpmsumdx\$Xl,$Xh,$SH4l# H\(^4\).loXi.lo
vpmsumdx\$Xm,$Xh,$SH4# H\(^4\).loXi.lo+H\(^4\).loXi.hi
vpmsumdx\$Xh,$Xh,$SH4h# H\(^4\).loXi.hi+H\(^4\).loXi.hi
vpmsumdx\$Xl1,\$IN1,\$SH3l
vpmsumdx\$Xm1,\$IN1,\$SH3
vpmsumdx\$Xh1,\$IN1,\$SH3h

vxor\$Xl,\$Xl,\$Xl3
vxor\$Xm,\$Xm,\$Xm3
vxor\$Xh,\$Xh,\$Xh3
vperm$t0,\$IN2,\$IN3,\$loperm
vperm$t1,\$IN2,\$IN3,\$hiperm

vpmsumdx$t2,\$Xl,\$xC2# 1st reduction phase
vpmsumdx$t0,\$SH21l# H.loXi+3.lo +H\(^2\).loXi+2.lo
vpmsumdx$t1,\$SH21h# H.hiXi+3.hi +H\(^2\).hiXi+2.hi

vsldoi$t0,\$Xm,$zero,8
vsldoi$t1,\$zero,$Xm,8
vxort\$Xl1,\$Xl,t0
vxort\$Xh,\$Xh,t1

vsldoi\$Xl1,\$Xl,\$Xl,8
vxor\$Xl,\$Xl,\$t2

vsldoi$t1,\$Xl,\$Xl,8# 2nd reduction phase
vpmsumdx\$Xm2,\$IN2,\$SH2# H\(^2\).loXi+2.lo+H\(^2\).loXi+2.hi
vpmsumdx\$Xm3,\$IN3,\$SH# H.hiXi+3.lo +H.loXi+3.hi
vpmsumdx\$Xl,\$Xl,\$xC2

vxor\$Xl3,\$Xl3,\$Xl1
vxor\$Xh3,\$Xh3,\$Xh1
vxor\$Xh,\$Xh,\$IN0
vxor\$Xm2,\$Xm2,\$Xm1
vxor\$Xh,\$St1
vxor\$Xm3,\$Xm3,\$Xm2
vxor\$Xh,\$Xh,\$Xl
bgeLoop_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
beqLdone_4x

lvx_u$IN0,0,$inp
$ {UCMP}i$len,2
li$len,-4
bltLone
lvx_u$IN1,r8,$inp
beqLttwo

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,$IN2,$lpermi
vperm$t1,$IN1,$IN2,$hiperm
vpmsumd\$Xm2,\$IN1,\$H2 \# H^2.loXi+1.hi+H^2.hiXi+1.lo
vpmsumd\$Xm3,\$IN2,\$H \# hiXi+2.lo +H.loXi+2.hi
vpmsumd\$XI3,\$t0,\$H21h \# H^2.loXi+1.lo+H.loXi+2.hi
vpmsumd\$Xh3,\$t1,\$H21h \# H^2.hiXi+1.hi+H.hiXi+2.hi
vxor\$Xm3,\$Xm3,\$Xm2
bLtai\_4x

 aligned
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,$H,8
vmr\$H4, \$H
vsldoi\$H4h,$H,$zero,8

vpmsumd\$XI3,\$t0, \$H21h \# H.loXi+1.lo
vpmsumd\$Xm3,\$IN1,\$H \# \$hiXi+1.lo+H.loXi+2.hi
vpmsumd\$Xh3,\$t1, \$H21h \# \$hiXi+1.hi
bLtai\_4x

 aligned
Lone:
le?vperm\$IN0,\$IN0,\$IN0,\$lemask
vxor\$Xh,\$IN0,\$Xl
vxor\$Xl3,\$Xl3,\$Xl3
vxor\$Xm3,\$Xm3,\$Xm3
vxor\$Xh3,\$Xh3,\$Xh3
bLtai\_4x

 Ldone\_4x:
le?vperm\$XI3,\$XI3,\$XI3,\$lemask
stvx_u\$XI0,$Xip# write out Xi

lir10,`15+6*\$SIZE_T`
lir11,`31+6*\$SIZE_T`
mtspr
		256,$vrsave

lvx		v21,r11,$sp

addi		r11,r11,32

lvx		v23,r11,$sp

addi		r11,r11,32

lvx		v25,r11,$sp

addi		r11,r11,32

lvx		v26,r11,$sp

addi		r11,r11,32

lvx		v27,r11,$sp

addi		r11,r11,32

lvx		v29,r11,$sp

addi		r11,r11,32

lvx		v30,r11,$sp

addi$sp,$sp,$FRAME

blr

.long		0

.byte		0,12,0x04,0,0x80,0,4,0

.long		0

foreach (split("\n",$code)) {
    s/\([^"]\)/eval $1/geo;
    if ($flavour =~ /le$/) {	# little-endian
        s/le\?//o
        s/be\?/#be#/o;
    } else {
        s/le\?/#le#/o
        s/be\?/#o;
    }
    print $_["\n";
close STDOUT; # enforce flush

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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/engine/eng_int.h
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#
# 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+$/)) {} open STDOUT,">$output";

($Xip,$Htable,$inp,$len)=("A4","B4","A6","B6");# arguments

($Z0,$Z1,$Z2,$Z3,$H0, $H1, $H2, $H3,
SH0x,SH1x,SH2x,SH3x)=map("A\_",(16..27));
($H01u,$H01y,$H2u,$H3u,$H0y,$H1y,$H2y,$H3y,
SH0z,SH1z,SH2z,SH3z)=map("B\_",(16..27));
($FF000000,$E10000)=("B30","B31");
($xip,$x0,$x1,$xib)=map("B\_",(6..9));

$xia="A9";

$rem,$res)=("B4","B5");

$code.=<<___;

.text

.asgB3,RA

.if0

.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
||.MVK15,B1; SPOOPD constant

.MVK0xE1,$E10000
||.[LDBU*++${xip}[15],$x1; Xi[15]
.MVK0xFF,$FF000000
||.[LDBU*--${xip[15]},$x0; Xi[14]

.SHL$E10000,16,$E10000; [pre-shifted] reduction polynomial
.SHLSFF000000,24,$FF000000; upper byte mask
||.BNOPghash_loop?
||.MVK1,B0; take a single spin

.PACKH2$H0,$H1,$xia; pack H0' and H1's upper bytes
.AND$SH2,$FF000000,$SH2u; H2's upper byte
.AND$SH3,$FF000000,$SH3u; H3's upper byte
||.[SHRUSH2u,8,$SH2u
.SHRUSH3u,8,$SH3u

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||ZEROSZ1:$Z0
SHRU2$xia,8,SH01u
||ZEROSZ3:$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:$H2; H.hl
||MVSXip.${xip} : reassign Xi
||MVK15,B1; SPLOPD constant

MVK0x1,E1E0000
||[B0]LDDNW*${inp}[1],SH1x:SH0x
MVK0xFF,FFFF00000
||[B0]LDDNW*${inp}++[2],SH3x:SH2x
SHL$E1E0000,16,$E1E0000; [pre-shifted] reduction polynomial
||LDDW*${xip}[1],SZ1:$SZ0
SHL$FFFF00000,24,$FFFF000000; upper byte mask
||LDDW*${xip}[0],SZ3:$SZ2

PACKH2$H0,$H1,$xia; pack H0 and H1's upper bytes
ANDSH2,$FFFF00000,$H2u; H2's upper byte
ANDSH3,$FFFF00000,$H3u; H3's upper byte
||SHRUSH2u,8,SH2u
SHRUSH3u,8,SH3u
SHRU2$xia,8,SH01u

||[B0]XORSH0x,$Z0,$Z0; Xi^=inp
||[B0]XORSH1x,$Z1,$Z1
.if LITTLE_ENDIAN
 [B0]XORSH2x,$Z2,$Z2
||[B0]XORSH3x,$Z3,$Z3
||[B0]SHRUSZ1,24,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*${xip}[1]
||[B0]SHRUSZ1,16,$x0; Xi[14]
||[B0]ZEROSZ1:$Z0
.else
 [B0]XORSH2x,$Z2,$Z2
||[B0]XORSH3x,$Z3,$Z3
||[B0]MVSZ0,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*${xip}[1]
||[B0]SHRUSZ0,8,$x0; Xi[14]
||[B0]ZEROSZ1:$Z0
.endif
STDWSZ3:$Z2,*${xip}[0]
ghash_loop?:
SPLOOPD6; 6*16+7
|| [B0]MVCB1,ILC
|| [B0]SUBB0,1,B0
|| ZEROA0
|| ADD$x1,$x1,$xib; SHLS$x1,1,$xib
|| SHLS$x1,1,$xia

________

-------------

# 0    D2.     M1        M2     |
# 1            M1               |
# 2            M1        M2     |
# 3        D1. M1        M2     |
# 4        S1. L1               |
# 5        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.     M1        M2     |
# 7/1       L1 S1 D1x S2 M2    | ....               |
# 8/2       S1 L1x S2      | ....               |
#       _________                      |...........
Scode.=<<___;
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,$H3y
||[!A0]MVK.D15,A0; *--$[xip] counter
XOR.L$H0x,$Z0,$Z0; 4; Z^=HXi[i]
|| [A0]SUB.SA0,1,A0
XOR.L$H1x,$Z1,$Z1; 5
||AND.D$H01y,$FF000000,$H0z
||SWAP2.L$H01y,$SH1y;; SHL$H01y,16,$SH1y
||SHLSx0,1,$xib
||SHLSx0,1,$xia
XOR.L SH2x, SZ2, $Z2; 6/0; [0,0] in epilogue
|| SHL SZ0, 1, $rem; rem=Z<<1
|| SHRMB SSZ1, SZ0, $Z0; Z>>=8
|| AND.L SH1y, $FF000000, SH1z
XOR.L SH3x, SZ3, $Z3; 7/1
|| SHRMB SSZ2, SZ1, $Z1
|| XOR.DS H0z, $Z0, $Z0; merge upper byte products
|| AND.SS H3y, $FF000000, SH3z
XOR.L SHH1z, $Z1, $Z1; 8/2
|| SHRMB SSZ3, SZ2, $Z2
|| AND.SS H2y, $FF000000, SH2z
XOR.L SH2z, $Z2, $Z2; 9/3
|| SHRUSZ3, 8, SZ3
XOR.DS H3z, SZ3, SZ3; 10/4
NOP; 11/5

SPKERNEL 0, 2
|| XOR.DS res, SZ3, SZ3; 12/6/0; Z^=res

; input pre-fetch is possible where D1 slot is available...
 [B0] LDAPW*${inp}[1], SH1x:SH0x; 8/-
 [B0] LDAPW*${inp}++[2], SH3x:SH2x; 9/-
 NOP; 10/-
 .if LITTLE_ENDIAN
 SWAP2SZ0, SZ1; 11/-
 || SWAP4SZ1, SZ0
 SWAP4SZ1, SZ1; 12/-
 || SWAP2SZ0, SZ0
 SWAP2SZ2, SZ3
 || SWAP4SZ3, SZ2
 ||:!B0] BNOPRA
 SWAP4SZ3, SZ3
 || SWAP2SZ2, SZ2
 || [B0] BNOPghash_loop?
 [B0] XORSH0x, SZ0, SZ0; Xi^=inp
 || [B0] XORSH1x, SZ1, SZ1
 [B0] XORSH2x, SZ0, SZ2
 || [B0] XORSH3x, SZ3, SZ3
 || [B0] SHRUSZ1, 24, Sx; Xi[15], avoid cross-path stall
 STDW$Z1:SZ0, *${xip}[1]
 || [B0] SHRUSZ1, 16, Sx; Xi[14]
 || [B0] ZERO$Z1:SZ0
 .else
 |!B0] BNOPRA; 11/-
 [B0] BNOPghash_loop?; 12/-
 [B0] XORSH0x, SZ0, SZ0; Xi^=inp
 || [B0] XORSH1x, SZ1, SZ1

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[B0] XOR $H2x,$Z2,$Z2
|| [B0] XOR $H3x,$Z3,$Z3
|| [B0] MV$Z0,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*${xip}[1]
|| [B0] SHRU$Z0,8,$x0; Xi[14]
|| [B0] ZEROSZ1:$Z0
.endif
STDWSZ3:$Z2,*${xip}[0]
|| [B0] ZEROSZ3:$Z2
|| [B0] MV$xia,$x1
[B0] ADDK14,${xip}
.endasmfunc

.sect const
.cstring "GHASH for C64x+, CRYPTOGRAMS by <appro\@openssl.org>"
.align4

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/modes/asm/ghash-c64xplus.pl
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tlhelp32.h - Include file for Tool help functions.

Written by Mumit Khan <khan@nanotech.wisc.edu>

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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.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cc2bb5b6.

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* 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.

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* 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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* 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).

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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)

1.266 efibootmgr 0.8.0 10.el7

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Theodore Ts'o
23-June-2007
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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image
real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

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

image:$(BSD_LIB)

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

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$($(INSTALL_PROGRAM) $(BSD_LIB))
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
install-strip: install
install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

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

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

http://sourceforge.net/projects/e2fsprogs

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

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

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1.278 tftp-hpa 0.49

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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/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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* /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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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} \n   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \ninstall
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>
* 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

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16
* 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 tftp.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>
  - tftp 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

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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/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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1.279 apache 2.4.16

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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)
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* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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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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For the expat xml parser component:

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1.280 libgcrypt 1.5.3 12.el7_1.1
1.280.1 Available under license:

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Version 2.1, February 1999

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

<one line to give the program’s name and a brief idea of what it does.>
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1.282 libusb 1.0.18

1.282.1 Available under license:

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Version 2.1, February 1999

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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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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 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
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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
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
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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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1.283 systemd-shim 219-19.el7_2.13

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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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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1.289 tar 1.30
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c ispell-local-pdict: "ispell-dict"
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@end page

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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
*
* Copyright (C) 1995, Board of Trustees of the University of Illinois
* *
***************************************************************************/

* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
* *
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1.292 unzip 6.0

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/* CMU libbasl
 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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   (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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In addition, mere aggregation of another work not based on the Library
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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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.

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the
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library, provided that the separate distribution of the work based on
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permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source 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 actually uses, or expects or is expected to use, the product. A product 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.

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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 protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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1.304 gtk 2.24.10

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1.307 selinux 2.6

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1.310 libxmu 1.1.1

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1.312 libssh2 1.6.0

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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 3a0982da308228d796df35f98d787c5cffe2bb5b6.

    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.xsl,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="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">
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  </xsl:variable>
</xsl:stylesheet>
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Accompany the work with the complete corresponding
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@end enumerate

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

<one line to give the program's name and a brief idea of what it does.>
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## 1.324 cronie 1.5.2

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lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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The End

1.336 grep 2.19

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1.342 openssl 1.0.2h

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
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* 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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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.

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1.347 sysklogd 1.5.0

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) 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.

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1.350 ncurses 6.1-r0

1.350.1 Available under license:
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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

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

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

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

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

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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1.352 util-linux 2.23.2-26.el7

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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
57c721e38d1266c2d055067c18f2cf9 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
1bebf87248e05d6e4e626749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbd 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
2e1cee529cb59c9341afe0443f196a1 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:

<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsizebsizecpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0 0</td>
</tr>
</tbody>
</table>

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):
4 partitions:

<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsizebsizecpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>4.2BSD</td>
<td>0 0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0 0</td>
</tr>
</tbody>
</table>

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
Open Source Used In FXOS HIGH END 2.9.1  4606

BSD disklabel command (m for help):

1.353 tcl 8.3.0

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1.355 linux-kernel 3.4.30
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.362 memstat 6.18.04-2.el7

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Component: Element getAttributeNames Method
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Component: String endsWith Method 0.2.0
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    src/preproc/grn/gprint.h
    src/preproc/grn/hdb.cpp
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    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.
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

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1.374 sqlite 3.7.14.1

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1.375 tiny-xml 0.9.5-5.3.el6

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1.376 libxi 1.7

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1.377 netbsd-resolv 2.17 196.el7_4.2

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1.378 curl 7.29.0-25.el7.centos

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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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yassl  http://www.yassl.com/

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

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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.

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fbopenssl

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

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

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

libssh2 http://www.libssh2.org/

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

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

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1.379 nspr 4.13.1 1.0.el7_3
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### 1.380 perl 5.28.1

### 1.380.1 Available under license:

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Julian Seward, jseward@bzip.org
bzisz/libbzzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------
---
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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<one line to give the program's name and a brief idea of what it does.>
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

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

That's all there is to it!
#1perl

=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
Optionally you can pass the \texttt{C|--now\texttt{}}} 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) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$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 you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19xx name of author
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program.

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here a sample; alter the names:

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    program `Gnomovision' (a program to direct compilers to make passes
    at assemblers) written by James Hacker.

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

That's all there is to it!
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The End

1.381 ethtool 3.15-2.el7

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ethtool is available under the terms of the GNU Public License version 2.

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1.382 gdbm 1.11
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#include "autoconf.h"
#include "gdbmdefs.h"
#include "gdbm.h"
#include <sys/types.h>
# include <pwd.h>
# include <grp.h>

struct datbuf
{
    unsigned char *buffer;
    size_t size;
};

struct dump_file
{
    FILE *fp;
    size_t line;

    char *linebuf;
    size_t lbsize;
    size_t lblevel;

    char *buffer;
    size_t bufsize;
    size_t buflevel;

    size_t parmc;

    struct datbuf data[2];
    char *header;
};

static void
dump_file_free (struct dump_file *file)
{
    free (file->linebuf);
    free (file->buffer);
    free (file->data[0].buffer);
    free (file->data[1].buffer);
    free (file->header);
}

static const char *
getparm (const char *buf, const char *parm)
{
    if (!buf)
        return NULL;
    while (*buf)
    {
        const char *p;
        for (p = parm; *p == *buf; p++, buf++)
        ;
    }
if (*p == 0 && *buf == '=')
return buf + 1;
    buf += strlen (buf) + 1;
}
return NULL;
}

static size_t
get_dump_line (struct dump_file *file)
{
    char buf[80];

    if (file->lblevel == 0)
    {
        while (fgets (buf, sizeof buf, file->fp))
    {
        size_t n = strlen (buf);

        if (buf[n-1] == '
')
        {
            file->line++;
            --n;
        }

        if (n + 1 + file->lblevel > file->lbsize)
        {
            size_t s = ((file->lblevel + n + _GDBM_MAX_DUMP_LINE_LEN)
            / _GDBM_MAX_DUMP_LINE_LEN)
            * _GDBM_MAX_DUMP_LINE_LEN;
            char *newp = realloc (file->linebuf, s);
            if (!newp)
            return GDBM_MALLOC_ERROR;
            file->linebuf = newp;
            file->lbsize = s;
        }

        memcpy (file->linebuf + file->lblevel, buf, n);
        file->lblevel += n;
        if (buf[n])
        {
            file->linebuf[file->lblevel] = 0;
            break;
        }
    }
}
return file->lblevel;
}
static int
get_data (struct dump_file *file)
{
    size_t n;

    file->buflevel = 0;
    file->parmc = 0;

    while ((n = get_dump_line (file)))
    {
        if (file->linebuf[0] == '#')
            return 0;
        if (n + file->buflevel > file->bufsize)
        {
            size_t s = ((file->buflevel + n + _GDBM_MAX_DUMP_LINE_LEN - 1)
                         / _GDBM_MAX_DUMP_LINE_LEN);
            char *newp = realloc (file->buffer, s);
            if (!newp)
                return GDBM_MALLOC_ERROR;
            file->buffer = newp;
            file->bufsize = s;
        }
        memcpy (file->buffer + file->buflevel, file->linebuf, n);
        file->buflevel += n;
        file->lblevel = 0;
    }
    return ferror (file->fp) ? GDBM_FILE_READ_ERROR : 0;
}

static int
get_parms (struct dump_file *file)
{
    size_t n;

    file->buflevel = 0;
    file->parmc = 0;
    while ((n = get_dump_line (file)))
    {
        char *p;

        p = file->linebuf;
        if (*p != '#')
            return 0;
        if (n == 0 || *++p != ':')
            file->lblevel = 0;
        else
            continue;
    }
if (--n == 0)
{
    file->lblevel = 0;
    continue;
}

if (n + 1 + file->buflevel > file->bufsize)
{
    size_t s = ((file->buflevel + n + _GDBM_MAX_DUMP_LINE_LEN) / _GDBM_MAX_DUMP_LINE_LEN) * _GDBM_MAX_DUMP_LINE_LEN;
    char *newp = realloc (file->buffer, s);
    if (!newp)
        return GDBM_MALLOC_ERROR;
    file->buffer = newp;
    file->bufsize = s;
}

    while (*p)
{
    p++;
    while (*p == ' ' || *p == '\t')
        p++;
    if (*p)
    {
        while (*p && *p != '=')
            file->buffer[file->buflevel++] = *p++;

        if (*p == '=')
        {
            file->buffer[file->buflevel++] = *p++;
            if (*p == '"')
                p++;
            else
            {
                while (!(*p == 0 || *p == ','))
                    file->buffer[file->buflevel++] = *p++;
            }
            file->parmc++;
        }
    }

    if (*p == '=')
    {
        file->buffer[file->buflevel++] = *p++;
        if (*p == '"')
        {
            p++;
            while (*p && *p != '"')
                file->buffer[file->buflevel++] = *p++;
        }
        p++;
    }
    else
    {
        while (!(p == 0 || *p == ' '))
            file->buffer[file->buflevel++] = *p++;
    }
    file->parmc++;
    file->buffer[file->buflevel++] = 0;
else
    return GDBM_ILLEGAL_DATA;
}
else
    break;
}
    file->lblevel = 0;
    }

file->buffer[file->buflevel] = 0;

return ferror (file->fp) ? GDBM_FILE_READ_ERROR : 0;
}

int
get_len (const char *param, size_t *plen)
{
    unsigned long n;
    const char *p = getparm (param, "len");
    char *end;

    if (!p)
        return GDBM_ITEM_NOT_FOUND;
    errno = 0;
    n = strtoul (p, &end, 10);
    if (*end == 0 && errno == 0)
    {
        *plen = n;
        return 0;
    }

    return GDBM_ILLEGAL_DATA;
}

int
read_record (struct dump_file *file, char *param, int n, datum *dat)
{
    int rc;
    size_t len, consumed_size, decoded_size;

    if (!param)
    {
        rc = get_parms (file);
        if (rc)
            return rc;
        if (file->parmc == 0)
return GDBM_ITEM_NOT_FOUND;
    param = file->buffer;
}
rc = get_len (param, &len);
if (rc)
    return rc;
dat->dsize = len; /* FIXME: data type mismatch */
rc = get_data (file);
if (rc)
    return rc;
rc = _gdbm_base64_decode ((unsigned char *)file->buffer, file->buflevel,
    &file->data[n].buffer, &file->data[n].size,
    &consumed_size, &decoded_size);
if (rc)
    return rc;
if (consumed_size != file->buflevel || decoded_size != len)
    return GDBM_ILLEGAL_DATA;
dat->dptr = (void*) file->data[n].buffer;
return 0;
}
#define META_UID  0x01
#define META_GID  0x02
#define META_MODE 0x04

static int
_set_gdbm_meta_info (GDBM_FILE dbf, char *param, int meta_mask)
{
    unsigned long n;
    uid_t owner_uid;
    uid_t owner_gid;
    mode_t mode;
    int meta_flags = 0;
    const char *p;
    char *end;
    int rc = 0;

    if (!(meta_mask & GDBM_META_MASK_OWNER))
    {
        p = getparm (param, "user");
        if (p)
        {
            struct passwd *pw = getpwnam (p);
            if (pw)
            {
                owner_uid = pw->pw_uid;
                meta_flags |= META_UID;
            }
        }
    }
if (!(meta_flags & META_UID) && (p = getparm (param, "uid")))
{
    errno = 0;
    n = strtoul (p, &end, 10);
    if (*end == 0 && errno == 0)
    {
        owner_uid = n;
        meta_flags |= META_UID;
    }
}

p = getparm (param, "group");
if (p)
{
    struct group *gr = getgrnam (p);
    if (gr)
    {
        owner_gid = gr->gr_gid;
        meta_flags |= META_GID;
    }
}
if (!(meta_flags & META_GID) && (p = getparm (param, "gid")))
{
    errno = 0;
    n = strtoul (p, &end, 10);
    if (*end == 0 && errno == 0)
    {
        owner_gid = n;
        meta_flags |= META_GID;
    }
}

if (!(meta_mask & GDBM_META_MASK_MODE))
{
    p = getparm (param, "mode");
    if (p)
    {
        errno = 0;
        n = strtoul (p, &end, 8);
        if (*end == 0 && errno == 0)
        {
            mode = n & 0777;
            meta_flags |= META_MODE;
        }
    }
}

if (!(meta_mask & GDBM_META_MASK_MODE))
{
    p = getparm (param, "mode");
    if (p)
    {
        errno = 0;
        n = strtoul (p, &end, 8);
        if (*end == 0 && errno == 0)
        {
            mode = n & 0777;
            meta_flags |= META_MODE;
        }
    }
}
int _gdbm_load_file (struct dump_file *file, GDBM_FILE dbf, GDBM_FILE *ofp,
int replace, int meta_mask)
{
char *param = NULL;
int rc;
GDBM_FILE tmp = NULL;

rc = get_parms (file);
if (rc)
    return rc;

if (file->parmc)
{
    file->header = file->buffer;
    file->buffer = NULL;
}

if (meta_flags)
{
    int fd = gdbm_fdesc (dbf);
    if (getuid () == 0 && (meta_flags & (META_UID|META_GID))
    {
        if (((meta_flags & (META_UID|META_GID)) != (META_UID|META_GID))
        {
            struct stat st;
            fstat (fd, &st);
            if (!(meta_flags & META_UID))
                owner_uid = st.st_uid;
            if (!(meta_flags & META_GID))
                owner_gid = st.st_gid;
        }
        if (fchown (fd, owner_uid, owner_gid))
        {
            gdbm_errno = GDBM_ERR_FILE_OWNER;
            rc = 1;
        }
    }
    if ((meta_flags & META_MODE) && fchmod (fd, mode))
    {
        gdbm_errno = GDBM_ERR_FILE_OWNER;
        rc = 1;
    }
}
return rc;
}
file->bufsize = file->buflevel = 0;
}
else
    return GDBM_ILLEGAL_DATA;

if (!dbf)
{
    const char *filename = getparm (file->header, "file");
    if (!filename)
        return GDBM_NO_DBNAME;
    tmp = gdbm_open (filename, 0,
            replace ? GDBM_WRCREAT : GDBM_NEWDB, 0600, NULL);
    if (!tmp)
        return gdbm_errno;
    dbf = tmp;
}

param = file->header;
while (1)
{
    datum key, content;
    rc = read_record (file, param, 0, &key);
    if (rc)
    {
        if (rc == GDBM_ITEM_NOT_FOUND && feof (file->fp))
            rc = 0;
        break;
    }
    param = NULL;
    rc = read_record (file, NULL, 1, &content);
    if (rc)
        break;

    if (gdbm_store (dbf, key, content, replace))
    {
        rc = gdbm_errno;
        break;
    }
}

if (rc == 0)
{
    rc = _set_gdbm_meta_info (dbf, file->header, meta_mask);
    *ofp = dbf;
}
else if (tmp)
    gdbm_close (tmp);
return rc;
}

static int
read_bdb_header (struct dump_file *file)
{
    char buf[256];

    file->line = 1;
    if (!fgets (buf, sizeof (buf), file->fp))
        return -1;
    if (strcmp (buf, "VERSION=3\n"))
        return -1;
    while (fgets (buf, sizeof (buf), file->fp))
    {
        ++file->line;
        if (strcmp (buf, "HEADER=END\n") == 0)
            return 0;
    }
    return -1;
}

static int
c2x (int c)
{
    static char xdig[] = "0123456789abcdef";
    char *p = strchr (xdig, c);
    if (!p)
        return -1;
    return p - xdig;
}

#define DINCR 128

static int
xdatum_read (FILE *fp, datum *d, size_t *pdmax)
{
    int c;
    size_t dmax = *pdmax;

    d->dsize = 0;
    while ((c = fgetc (fp)) != EOF && c != '\n')
    {
        int t, n;

        t = c2x (c);
        if (t == -1)
return EOF;
    t <<= 4;

    if ((c = fgetc (fp)) == EOF)
        break;

    n = c2x (c);
    if (n == -1)
        return EOF;
    t += n;

    if (d->dsize == dmax)
    {
        char *np = realloc (d->dptr, dmax + DINCR);
        if (!np)
            return GDBM_MALLOC_ERROR;
        d->dptr = np;
        dmax += DINCR;
    }
    d->dptr[d->dsize++] = t;

    *pdmax = dmax;
    if (c == '\n')
        return 0;
    return c;
}

int
gdbm_load_bdb_dump (struct dump_file *file, GDBM_FILE dbf, int replace)
{
    datum xd[2];
    size_t xs[2];
    int rc, c;
    int i;

    if (read_bdb_header (file))
        return -1;
    memset (&xd, 0, sizeof (xd));
    xs[0] = xs[1] = 0;
    i = 0;
    while ((c = fgetc (file->fp)) == ' ')
    {
        rc = xdatum_read (file->fp, &xd[i], &xs[i]);
        if (rc)
            break;
        ++file->line;
    }

    if (i == 1)
if (gdbm_store (dbf, xd[0], xd[1], replace))
    return gdbm_errno;
}

i = !i;
}

//FIXME: Read "DATA=END"
free (xd[0].dptr);
free (xd[1].dptr);
if (rc == 0 && i)
    rc = EOF;

return rc;
}

int
gdbm_load_from_file (GDBM_FILE *pdbf, FILE *fp, int replace,
                     int meta_mask,
                     unsigned long *line)
{
    struct dump_file df;
    int rc;

    if (!pdbf || !fp)
        return EINVAL;

    /* Guess input file format */
    rc = fgetc (fp);
    ungetc (rc, fp);
    if (rc == '!')
        { 
            if (line)
                *line = 0;
            if (!*pdbf)
                { 
                    gdbm_errno = GDBM_NO_DBNAME;
                    return -1;
                }
            if (gdbm_import_from_file (*pdbf, fp, replace) == -1)
                return -1;
        return 0;
    }

    memset (&df, 0, sizeof df);
    df.fp = fp;

    if (rc == 'V')
        { 

if (!*pdbf)
{
    gdbm_errno = GDBM_NO_DBNAME;
    return -1;
}
rc = gdbm_load_bdb_dump (&df, *pdbf, replace);
}
else
    rc = _gdbm_load_file (&df, *pdbf, pdbf, replace, meta_mask);
dump_file_free (&df);
if (rc)
{
    if (line)
        *line = df.line;
    gdbm_errno = rc;
    return -1;
}
return 0;

int gdbm_load (GDBM_FILE *pdbf, const char *filename, int replace,
               int meta_mask,
               unsigned long *line)
{
    FILE *fp;
    int rc;

    fp = fopen (filename, "r");
    if (!fp)
    {
        gdbm_errno = GDBM_FILE_OPEN_ERROR;
        return -1;
    }
rc = gdbm_load_from_file (pdbf, fp, replace, meta_mask, line);
fclose (fp);
return rc;
}

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=============

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1.389 tcl 8.5.7

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1.390 open-ldap 2.4.44 5.el7

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1.391 libffi 3.2.1

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## -*-makefile-*-##
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared 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) $< \n | sed 's/(\$\%\n).o[ :]*\n.o : /g' > $@; \n [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec $(GEN_DEPS.cc) $< \n | sed 's/(\$\%\n).o[ :]*\n.o : /g' > $@; \n [ -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) $@

## End FreeBSD-specific setup
1.393 mtd-utils 1.5.1

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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

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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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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html 
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `mod:` socket` module uses the functions, `:func:` getaddrinfo`, and 
`:func:` getnameinfo`, which are coded in separate source files from the WIDE 
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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
----------------------------

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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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--------------

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--------------

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-------

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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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1.3 thru 1.5.2  1.2  1995-1999  CNRI yes
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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.
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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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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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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
-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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--------------------------

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strtod and dtoa
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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_nicstart() 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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QLogic Linux FC-FCoE Driver

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

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

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 *
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 *
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32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
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<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
<p>Last update:
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- Mark Andrews &lt;mark_andrews@isc.org&gt; Leitch atomic clock controller
- Bernd Altmeier &lt;altmeier@atlssoft.de&gt; hopf Elektronik serial line and PCI-bus devices
- Viraj Bais &lt;vbais@mailman1.intel.co&gt; port to WindowsNT 3.5
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- Karl Berry &lt;karl@owl.HQ.ileaf.com&gt; syslog to file option
- Greg Brackley &lt;greg.brackley@bigfoot.com&gt; Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
- Marc Brett &lt;Marc.Brett@westgeo.com&gt; Magnavox GPS clock driver
- Piete Brooks &lt;Piete.Brooks@cl.cam.ac.uk&gt; MSF clock driver, Trimble PARSE support
- Nelson B Bolyard &lt;nelson@bolyard.me&gt; update and complete broadcast and crypto features in sntp
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- Louis A. Mamakos via louie@ni.umd.edu: MD5-based authentication
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- David L. Mills via mills@udel.edu: Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
- Wolfgang Moeller via moeller@gwdgv1.dnet.gwdg.de: VMS port
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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 = '\$VERSION\n
// };

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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
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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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/*      $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 */
#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 ETIMEDOUT 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 EUERS 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_EBADRPC  74     /* RPC prog. not avail */
#define TARGET_EPROCUNAVAL 75     /* Program version wrong */
#define TARGET_EPROCUNAVAL 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_ECANCEL  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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{ 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, %d#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %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, %d#x)", 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, %d#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s("%s", %d, %d#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s("%s", %d, %d#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %d#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s("%s", %d, %d#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s("%s", %d, %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, NULL, NULL },
{ TARGET_FREEBSD_NR___un mtx_op, "__un mtx_op", "%s(%d, %d, %d, %d#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d, %d, %d#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("%s", %d)", 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 },

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{ 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_execute, "execute", NULL, print_execute, 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, \"%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_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\", %d, \%#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %d, \%#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", "fchown", "%s(\%d,\%d,\%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execute, 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_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_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", 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_NRUnmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
/* 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_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmsg 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_compat_13_getprocmask13 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
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#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#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_adjtime     140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
#define TARGET_NETBSD_NR_compat_43_ogethostid 142
#define TARGET_NETBSD_NR_compat_43_osethostid 143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144
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#define TARGET_NETBSD_NR_compat_43_oquota    149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc      155
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#define TARGET_NETBSD_NR_compat_20_statfs 157
#define TARGET_NETBSD_NR_compat_20_fstatfs 158
#define TARGET_NETBSD_NR_compat_30_getfh     161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 162
#define TARGET_NETBSD_NR_compat_09_osetdomainname 163
#define TARGET_NETBSD_NR_compat_09_ouname    164
#define TARGET_NETBSD_NR_sysarch     165
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#define TARGET_NETBSD_NR_setgid      181
#define TARGET_NETBSD_NR_setegid     182
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#define TARGET_NETBSD_NR_lfs_bmapv   184
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#define TARGET_NETBSD_NR_lfs_segclean        186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12    188
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#define TARGET_NETBSD_NR_pathconf    191
#define TARGET_NETBSD_NR_fpathconf   192
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#define TARGET_NETBSD_NR_setrlimit   195
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#define TARGET_NETBSD_NR_lseek       199
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#define TARGET_NETBSD_NR_ftruncate   201
#define TARGET_NETBSD_NR___sysctl    202
#define TARGET_NETBSD_NR_mlock  203
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#define TARGET_NETBSD_NR_undelete 205
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#define TARGET_NETBSD_NR_semop 222
#define TARGET_NETBSD_NR_semctl 223
#define TARGET_NETBSD_NR_compat_14_msgetl 224
#define TARGET_NETBSD_NR_semget 225
#define TARGET_NETBSD_NR_msgrcv 226
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime 233
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#define TARGET_NETBSD_NR_timer_create 235
#define TARGET_NETBSD_NR_timer_delete 236
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#define TARGET_NETBSD_NR_timer_gettime 238
#define TARGET_NETBSD_NR_socket 239
#define TARGET_NETBSD_NR_nanosleep 240
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#define TARGET_NETBSD_NR_mlockall 242
#define TARGET_NETBSD_NR_munlockall 243
#define TARGET_NETBSD_NR___sigtimedwait 244
#define TARGET_NETBSD_NR_modctl 246
#define TARGET_NETBSD_NR___ksem_init 247
#define TARGET_NETBSD_NR___ksem_open 248
#define TARGET_NETBSD_NR___ksem_unlink 249
#define TARGET_NETBSD_NR___ksem_close 250
#define TARGET_NETBSD_NR___ksem_post 251
#define TARGET_NETBSD_NR___ksem_wait 252
#define TARGET_NETBSD_NR___ksem_trywait 253
#define TARGET_NETBSD_NR___ksem_getvalue 254
#define TARGET_NETBSD_NR___ksem_destroy 255
#define TARGET_NETBSD_NR___mq_open 257
#define TARGET_NETBSD_NR___mq_close 258
#define TARGET_NETBSD_NR___mq_unlink 259
#define TARGET_NETBSD_NR___mq_getattr 260
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#define TARGET_NETBSD_NR___mq_notify 262
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#define TARGET_NETBSD_NR_mq_timedsend 265
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#define TARGET_NETBSD_NR___posix_rename 270
#define TARGET_NETBSD_NR_swapctl 271
#define TARGET_NETBSD_NR_compat_30_getdents 272
#define TARGET_NETBSD_NR_minherit 273
#define TARGET_NETBSD_NR_lchmod 274
#define TARGET_NETBSD_NR_lchown 275
#define TARGET_NETBSD_NR_lutimes 276
#define TARGET_NETBSD_NR___msync13 277
#define TARGET_NETBSD_NR_compat_30___stat13 278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___sigaltstack14 281
#define TARGET_NETBSD_NR___vfork14 282
#define TARGET_NETBSD_NR___posix_chown 283
#define TARGET_NETBSD_NR___posix_fchown 284
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#define TARGET_NETBSD_NR_getsid 286
#define TARGET_NETBSD_NR___clone 287
#define TARGET_NETBSD_NR_fktrace 288
#define TARGET_NETBSD_NR_preadv 289
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#define TARGET_NETBSD_NR_compat_16___sigaction14 291
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#define TARGET_NETBSD_NR_____semctl13 301
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#define TARGET_NETBSD_NR__lwp_unpark_all 322
#define TARGET_NETBSD_NR__lwp_setname 323
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#define TARGET_NETBSD_NR__getvfsstat 356
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#define TARGET_NETBSD_NR__fstatvfs1 358
#define TARGET_NETBSD_NR__compat_30_fstatvfs1 359
#define TARGET_NETBSD_NR__extattrctl 360
#define TARGET_NETBSD_NR__extattr_set_file 361
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#define TARGET_NETBSD_NR__extattr_set_fd 364
#define TARGET_NETBSD_NR__extattr_get_fd 365
#define TARGET_NETBSD_NR__extattr_delete_fd 366
#define TARGET_NETBSD_NR__extattr_set_link 367
#define TARGET_NETBSD_NR__extattr_get_link 368
#define TARGET_NETBSD_NR__extattr_delete_link 369
#define TARGET_NETBSD_NR__extattr_list_fd 370
#define TARGET_NETBSD_NR__extattr_list_file 371
`*/ `* Contributors: `*/ IBM Corporation - initial implementation `**************************************************************************/ 

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

#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


/*  */

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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

/* $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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Version 2, June 1991

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# Default configuration for i386-bsd-user

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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
echo 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/x86emu \ 
    -I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \ 
    -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \ 
    -ffreestanding -Wall -Wno-unused

X86EMU_OBJC= 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

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

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*/

{ 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(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(%d, %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(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semct1, "__semct1", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysct1, "__sysct1", NULL, print_sysct1, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "__umtx_op", "%s(%d, %d, %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR__accept, "accept", "%s(%d, %d, %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR__access, "access", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__adtime, "adtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__break, "break", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, 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 },
{ 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_prof, "prof", "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", NULL, 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", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", NULL, 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", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", NULL, 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 },
#!/bin/bash

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..."
SPATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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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_recvmsg 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_prof 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_getpgprp 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 getpeerrname */
/* 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 gethostname */
#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_msgsys 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_getdirentries 196
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#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

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#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_isetugid 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_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_modfind 302
#define TARGET_FREEBSD_NR_kldload 303
#define TARGET_FREEBSD_NR_kldunload 304
#define TARGET_FREEBSD_NR_kldfind 305
#define TARGET_FREEBSD_NR_kldfirst 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
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#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
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#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
        x86emu_dump_regs();
    } else {
        x86emu_dump_xregs();
    }
}

if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
    printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
    for (i=0; i< M.x86.enc_pos; i++) {
        sprintf(buf1+2*i, "%02x", fetch_data_byte_abs(s, o+i));
    }
    printk("%-20s", buf1);
} else {
    x86emu_dump_regs();
}

/*Remark:
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();
}
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--) {
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) {
                    val1 = fetch_data_long(M.x86.R_SI);
                    val2 = fetch_data_long_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_REP) & 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_REP | 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_REP | 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--) {
    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) {
-            M.x86.R_CX -= 1;
+        /* 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_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
        }
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    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--) {
        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();

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);
            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);
            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_REPNE;
} else {

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);
      }
      if (M.x86.intr & INTR_HALTED)
        break;
      else
      + 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;
    }
  }
  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);
    }
    if (M.x86.intr & INTR_HALTED)
      break;
    if (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\n");
 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\n");
 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 +4433,7 @@
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 +4449,8 @@
    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();
}

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;

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);
    }
    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);
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@ 
{
    DB(if (DEBUG_IO_TRACE())
printk("inb %#04x \n", addr);
-    return inb(addr);
+    return 0;
}

/*****************************/
@@ -235,7 +230,7 @@ 
{
    DB(if (DEBUG_IO_TRACE())
printk("inw %#04x \n", addr);
-    return inw(addr);
+    return 0;
}

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

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

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

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-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
/*---------------------- Macros and type definitions ----------------------*/
-# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
-# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_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

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_TRACECALL() 0
# define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP() 0
+# define DEBUG_TRACEJMPREGS() 0
# define DEBUG_SYS() 0
# define DEBUG_MEM_TRACE() 0
# define DEBUG_IO_TRACE() 0
@@ -169,14 +171,20 @@
x86emu_dump_regs();
 if (DEBUG_TRACECALL())
   printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
 if (DEBUG_TRACECALLREGS())
   x86emu_dump_regs();
 if (DEBUG_TRACECALL())
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+ # define JMP_TRACE(u,v,w,x,s)                                 
+   if (DEBUG_TRACEJMPREGS()) 
+      x86emu_dump_regs(); 
+   if (DEBUG_TRACEJMP()) 
+      printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#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

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.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/regs.h15 Jan 2008 13:46:40 -00001.4
@@ -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

//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
```c
#define SYSMODE_HALTED          0x40000000
#define SYSMODE_SEGOVR_GS      | \
#define SYSMODE_SEGOVR_SS      | \
#define SYSMODE_PREFIX_DATA    | \
- SYSMODE_PREFIX_ADDR)      | 
+ SYSMODE_PREFIX_ADDR)      | 
+ SYSMODE_32BIT_REP)

#define INTR_SYNCH            0x1
#define INTR_ASYNCH           0x2

*/
  u32                          mode;
  volatile int                 intr; /* mask of pending interrupts */
- int                          debug;
+ volatile int                 debug;
#endif 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 -0001.3
@@ -47,6 +47,7 @@
  #include <console.h>
  #define printk(x...) printk(BIOS_DEBUG, x)
  #endif
+#ifndef DEBUG_TRACEJMP_REGS_F
+void X86EMU_trace_regs(void);
```
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Version 2.1, February 1999

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# Default configuration for x86_64-bsd-user

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-- Wolfgang Denk

/• $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */

/•

• System call numbers.

•

• created from; OpenBSD: sycalls.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_recvmsg 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
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#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_getpgpr 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83

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#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
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#define TARGET_OPENBSD_NR_socket 97
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#define TARGET_OPENBSD_NR_writev 121
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#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
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#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
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#define TARGET_OPENBSD_NR_pread 173
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#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
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#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirententries 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
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#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
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#define TARGET_OPENBSD_NR_threxit 302
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#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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(principal original author of dtc and libfdt)
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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

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

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

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

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

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensible 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:
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
Finsterrueihof 1
8134 Adliswil
Switzerland

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

vim:tw=78:ts=8:ft=help:norl:
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   <signature of Ty Coon>, 1 April 1989
   Ty Coon, President of Vice

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library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.434 lrzsz 0.12.20
1.434.1 Available under license:

/*
   protname.c - return the name of the protocol used
   Copyright (C) 1996, 1997 Uwe Ohse

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   Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA
   02111-1307, USA.

   */
#include "zglobal.h"

/* this code was duplicate in lrz.c and lsz.c */

const char *
protname(void)
{
    const char *prot_name;
    switch(protocol) {
    case ZM_XMODEM:
        prot_name="XMODEM";
        break;
    case ZM_YMODEM:
        prot_name="YMODEM";
        break;
    default:
        prot_name="ZMODEM";
        break;
    }
    return prot_name;
}

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1.437 libdrm 2.4.60

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1.438 popt 1.13 16.el7

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**1.443 coreutils 8.30**

**1.443.1 Available under license:**

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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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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 is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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This 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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Theodore Ts'o
23-June-2007

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

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

Note that it is possible for a library to be covered by the ordinary
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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.

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
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these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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"work based on the library" and a "work that uses the library". The
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A "library" means a collection of software functions and/or data
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(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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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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1.455 ncurses 6.1

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1.456 rpm 4.14.2

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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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, while the latter only works together with the library.

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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
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1.457 ethtool 3.9  

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1.466 shared-mime-info 1.1

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This is an attempt to acknowledge early contributions to the garbage
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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.mitia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(\?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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--- end ---

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[[mpl]]
# MPL Support, <boost/mp11 mpl.hpp>
:toc:
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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>`.
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That's all there is to it!
/* 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 then 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);
  
  /* Clean up and return. */
  _bc_rm_leading_zeros (diff);
  return diff;
  }
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);
            break;
        }
```
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. */
b_c_free_num (result);
*result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(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 that 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 \( uv = (B^{2n}+B^n)u_1v_1 + B^n(u_1-u_0)(v_0-v_1) + (B^n+1)u_0v_0 \)

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

/* 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);
}
# Open Source Used In FXOS HIGH END 2.9.1

```c
.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);
broadcast(&d1);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
broadcast (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, aguess, 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;
brc 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);
bcre_init_num(&temp);

/* Calculate it. */
bcre_divide (num1, num2, &temp, scale);
if (quot)
    quotient = bc_copy_num (temp);
bcre_multiply (temp, num2, &temp, rscale);
bcre_sub (num1, temp, rem, rscale);
bcre_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_raise (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);
bcm_free_num (&exponent);
bcm_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)
   bcm_num num1, num2, *result;
   int scale;
{
   bcm_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)
      bcm_rt_warn ("non-zero scale in exponent");
   exponent = bcm_num2long (num2);
   if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
      bcm_rt_error ("exponent too large in raise");

   /* Special case if exponent is a zero. */
   if (exponent == 0)
   {
      bcm_free_num (result);
      *result = bcm_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). */
        cscale = (*num)->n_scale;
    }
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);
bci_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. */
bcc_free_num (&int_part);
bcc_free_num (&frac_part);
bcc_free_num (&base);
bcc_free_num (&cur_dig);
bcc_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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Upstream-Name: ls-config
Source: https://github.com/lucas-net-pl/ls-config

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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 such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
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1.474 e2fsprogs 1.42.9-7.el7

1.474.1 Available under license:

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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# 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): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$(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 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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Theodore Ts'o
23-June-2007

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
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 <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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This is the Debian GNU/Linux prepackaged version of the static EXT2
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*/

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

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

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

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

---

Open Source Used In FXOS HIGH END 2.9.1 6413
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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1.475 gawk 4.2.1
1.475.1 Available under license:

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```
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```

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1.477 d-bus 1.12.10

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    d.write('<div id="comments_thread">')
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&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>");
}
}

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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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)

*/

1.483 sudo 1.8.6p7-16.el7

1.483.1 Available under license :

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* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
  3a0982da308228d796df35f98d787c5c6ff2bb5b6.
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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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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<!-- $Id: copyright.xsl,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:param name="isc.copyright.leader"/>
    <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">
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</xsl:variable>

<xsl:variable name="isc.copyright">
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1.485 json-c 0.11 4.el7_0
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1.486 runc 1.0.0+rc5+git0+6a2c155968

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1.487 libsm 1.2.2

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1.489 websocketpp 0.8.1

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L. Peter Deutsch
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
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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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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 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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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
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specified materials from the same place.

d) Verify that the user has already received a copy of these
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1.500 libksba 1.3.0

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1.503 openssh 7.5

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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_SETREGSID
int setregsid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
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#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H_
#define COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLErr0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */
#define POLLPR10x0002
#define POLLRDNDNORM0x0040
#define POLLNORMPOLLRDNDNORM
#define POLLWRNORM POLLOUT
#define POLLRDDBAND0x0080
#define POLLWRBAND0x0100
#endif

#define INFTIM(-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
1.504 gettext libc version
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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
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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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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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.

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d) Convey the object code by offering access from a designated
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1.507 openssh 6.6.1p1-25.el7_2

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#endif

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLHUP 0x0004
#define POLLERR 0x0008
#define POLLPRI 0x0002
#define POLLNVAL 0x0000
#define POLLRDNORM 0x0040
#define POLLWRNORM 0x0080
#define POLLRDNORM POLLWRNORM
#define POLLWRNORM POLLHUP
#define POLLNORM POLLHUP
#endif

#define INFTIM (-1)/* not standard */
int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
diff -up openssh-6.6p1/sftp-server.8.sftp-force-mode openssh-6.6p1/sftp-server.8
--- openssh-6.6p1/sftp-server.8.sftp-force-mode2013-10-15 03:07:05.000000000 +0200
+++ openssh-6.6p1/sftp-server.82015-04-20 14:04:47.427562510 +0200
@@ -38,6 +38,7 @@
 .Op Fl P Ar blacklisted_requests
 .Op Fl p Ar whitelisted_requests
 .Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
 .Ek
 .Nm
 .Fl Q Ar protocol_feature
 @@ -138,6 +139,10 @@ Sets an explicit
 .Xr umask 2
 to be applied to newly-created files and directories, instead of the
 user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
+El
 .El
 .Pp
 For logging to work,
diff -up openssh-6.6p1/sftp-server.c.sftp-force-mode openssh-6.6p1/sftp-server.c
--- openssh-6.6p1/sftp-server.c.sftp-force-mode2015-04-20 14:04:47.420562526 +0200
+++ openssh-6.6p1/sftp-server.c2015-04-20 14:07:13.799231025 +0200
@@ -71,6 +71,10 @@ static Buffer oqueue;
 /* Version of client */
 static u_int version;
+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
 /* SSH2_FXP_INIT received */
 static int init_done;
@@ -675,6 +679,10 @@ process_open(u_int32_t id)
 a = get_attrib();
 flags = flags_from_portable(pflags);
 mode = (a->flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a->perm : 0666;
+if (permforce == 1) { /* Force perm if -m is set */
+ mode = permforcemode;
+ (void)umask(0); /* so umask does not interfere */
+}
logit("open \"%s\" flags %s mode 0%o",
     name, string_from_portable(pflags), mode);
if (readonly & &
@@ -1430,7 +1438,7 @@ sftp_server_usage(void)
 fprintf(stderr,
     "usage: %s [-ehR] [-d start_directory] [-f log_facility] 
     "-I log_level\nmt\-P blacklisted_requests] 
-     "[-p whitelisted_requests] [-u umask]\n"
+     "[-p whitelisted_requests] [-u umask] [-m force_file_perms]\n"
     " %s -Q protocol_feature\n",
     __proname, __proname);
exit(1);
@@ -1455,7 +1463,7 @@ sftp_server_main(int argc, char **argv,
pw = pwcopy(user_pw);

while (!skipargs & & (ch = getopt(argc, argv,
+     "d:f:l:P:p:Q:u:m:cehR") != -1) { 
switch (ch) {
 case 'Q':
 if (strcasempi(optarg, "requests") != 0) {
@@ -1515,6 +1523,15 @@ sftp_server_main(int argc, char **argv,
     fatal("Invalid umask \"%s\"", optarg);
     (void)umask((mode_t)mask);
     break;
+case 'm':
+ /* Force permissions on file received via sftp */
+ permforce = 1;
+ permforcemode = strtol(optarg, &cp, 8);
+ if (permforcemode < 0 || permforcemode > 0777 ||
+    *cp != '0' || (permforcemode == 0 & &
+    errno != 0))
+     fatal("Invalid file mode \"%s\"", optarg);
+    break;
    case 'h':
    default:
    sftp_server_usage();
/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */

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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

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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#define _BSD_WAITPID_H
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#endif
#endif

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#endif
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

Open Source Used In FXOS HIGH END 2.9.1 6782
/* 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 */

This package was debianized by Jamie Beverly <soupboy@sourceforge.net> on
Wed, 13 Jan 2010 01:08:49 +0300.

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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.

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

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

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

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Whether this is true is especially significant if the work can be
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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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That's all there is to it!

/* assuan-buffer.c - read and send data

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1.518 tk 8.5.8

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1.519 curl 7.66.0

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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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## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license
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1.520 dropbear 2013.58

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=====

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1.521 libdaemon 0.14-7.el7
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1.522 python 2.7.12

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# $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
#
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#
# fredrik@pythonware.com
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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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Mersenne Twister
---------------

The :mod:`random` module includes code based on a download from
http://www.math.keio.ac.jp/ matumoto/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
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `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.
Asynchronous socket services

----------------------------

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-------------

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Profiling
---------

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Execution tracing
-----------------

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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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Select kqueue
-------------

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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).
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#
# $Id: test_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea $

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# Secret Labs' Regular Expression Engine

# re-compatible interface for the sre matching engine

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# Portions of this engine have been developed in cooperation with CNRI. Hewlett-Packard provided funding for 1.6 integration and other compatibility work.

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

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

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

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# 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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#
#       Name:             CP1140
#	Unicode version:  3.2
#	Table version:    1.0
#	Table format:     Format A
#	Date:             2005-10-25
#	Authors:          Marc-Andre Lemburg <mal@egenix.com>
#
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IA64/unix Foreign Function Interface

Original author: Hans Boehm, HP Labs

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# 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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# Generated automatically by $PROGRAM (GNU $PACKAGE $VERSION$TIMESTAMP)
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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).

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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnrireston.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.

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The End

1.528 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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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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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.

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##
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1.549 libevent 2.1.8

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1.555 libxfont 1:1.3.3-2

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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.

The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z.

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
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-x-2017-03-31.pat' and `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl

The patterns have been converted to latin-1.

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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

http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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**1.568 iptables 1.6.2**

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1.569 pctlutils 3.3.1

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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.

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

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* 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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    <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"/>
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1.574 mdadm 3.3.1

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1.576.1 Available under license :

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

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

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 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
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
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Nathan Neulinger EMail: nneul@um... University of Missouri - Rolla Phone: (573) 341-6679
-----Original Message-----
From: cracklib-devel-bounces@li...
[mailto:cracklib-devel-bounces@li...] On Behalf Of
Mike Frysinger
Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

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Re: [Cracklib-devel] cracklib license
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Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
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In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

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

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

----------------------------------------------------------
> From: alecm@crypticide.com  Mon 1 Oct 2007 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft 
SMTPSVC(6.0.3790.3959);  
   Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft 
SMTPSVC(6.0.3790.3959);  
   Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) 
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: [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] (helof=[192.168.1.3])  
   by rutherford.zen.co.uk with esmt (Exim 4.50)  
id 1hOcX-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: <1b1b3f6d80710010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
                <EC90713277D2BE41B7110CCD74E235CE44F38@UMR-CMAIL1.umr.edu>  
                <1b1b3f6d80710010908k11dac0afplf2dd471059ff9a4@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
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

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

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

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

This library is free software; you can redistribute it and/or modify
it under the terms of the GNU Lesser General Public License as
published by the Free Software Foundation; either version 2.1 of the
License, or (at your option) any later version.

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

A copy of the GNU Lesser General Public License 2.1 is available as
/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
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This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
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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 l91Gxtpr020623
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] (helol=[192.168.1.3])
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  id 1IocOcX-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>
  <EC90713277D2BE41B7101CCD74235CEF44F38@UMR-CMAIL1.umr.edu>
  <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
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Status: RO
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Lines: 21

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> 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

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Version 2.1, February 1999

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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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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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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

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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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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.

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:

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.)
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.

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.

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.

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.

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

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*Version 2.1, February 1999*

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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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.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for
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`Local Variables:
ispell-local-pdict: "ispell-dict"
End:
```

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http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS  Special thanks.
FILE FORMAT WARS  Software *not* to get.
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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
========

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 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...


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.


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 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.iijg.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.iijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.iijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.iijg.org/files/jpegsrc9c.zip.


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ACKNOWLEDGMENTS
=================

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.

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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 ijc.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

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. Don't use an obsolete code base!

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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...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

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1.598 linux-kernel 4.9.170

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Version 1.0

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============

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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  - for the initial saa7146 driver and its recent overhaul

- Christian Theiss

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- Wilson Michaels <wilsonmichaels@earthlink.net>

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- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
  single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*/

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1.600 openssl 1.0.2s

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