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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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b) Accompany the work with a written offer, valid for at
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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.>
Copyright (C) <year>  <name of author>

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.
1.3 vim 7.4.160 1.el7

1.3.1 Available under license:
*uganda.txt*  For Vim version 7.4.  Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in
      the distribution how to contact you. When the maintainer asks you
      (in any way) for a copy of the modified Vim you distributed, you
      must make your changes, including source code, available to the
      maintainer without fee. The maintainer reserves the right to
      include your changes in the official version of Vim. What the
      maintainer will do with your changes and under what license they
      will be distributed is negotiable. If there has been no negotiation
      then this license, or a later version, also applies to your changes.
      The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
      changes it will be announced in appropriate places (most likely
      vim.sf.net, www.vim.org and/or comp.editors). When it is completely
      impossible to contact the maintainer, the obligation to send him
      your changes ceases. Once the maintainer has confirmed that he has
      received your changes they will not have to be sent again.
   b) If you have received a modified Vim that was distributed as
      mentioned under a) you are allowed to further distribute it
      unmodified, as mentioned at I). If you make additional changes the
      text under a) applies to those changes.
   c) Provide all the changes, including source code, with every copy of
      the modified Vim you distribute. This may be done in the form of a
      context diff. You can choose what license to use for new code you
      add. The changes and their license must not restrict others from
      making their own changes to the official version of Vim.
   d) When you have a modified Vim which includes changes as mentioned
      under c), you can distribute it without the source code for the
      changes if the following three conditions are met:
      - The license that applies to the changes permits you to distribute
        the changes to the Vim maintainer without fee or restriction, and
        permits the Vim maintainer to include the changes in the official
        version of Vim without fee or restriction.
      - You keep the changes for at least three years after last
        distributing the corresponding modified Vim. When the maintainer
        or someone who you distributed the modified Vim to asks you (in
        any way) for the changes within this period, you must make them
        available to him.
      - You clearly describe in the distribution how to contact you. This
        contact information must remain valid for at least three years
        after last distributing the corresponding modified Vim, or as long
        as possible.
   e) When the GNU General Public License (GPL) applies to the changes,
      you can distribute the modified Vim under the GNU GPL version 2 or
      any later version.
3) A message must be added, at least in the output of the ":version"
   command and in the intro screen, such that the user of the modified Vim
   is able to see that it was modified. When distributing as mentioned
   under 2)e) adding the message is only required for as far as this does
not conflict with the license used for the changes.
4) The contact information as required under 2)a) and 2)d) must not be
removed or changed, except that the person himself can make
corrections.

III) If you distribute a modified version of Vim, you are encouraged to use
the Vim license for your changes and make them available to the
maintainer, including the source code. The preferred way to do this is
by e-mail or by uploading the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a
context diff will do. The e-mail address to be used is
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim
sources, parts of it or from a modified version. You may use this
license for previous Vim releases instead of the license that they came
with, at your option.

== end of license ==

Note:

- If you are happy with Vim, please express that by reading the rest of this
  file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
  [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
  A few minor changes have been made since he checked it, but that should not
  make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits
  further distribution to the GNU GPL. Also when you didn't actually change
  anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all
  further changes to also be made under the GNU GPL or a compatible license.

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

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

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

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

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

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

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

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

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:
1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

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

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has 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
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
Finsterruetihof 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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2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone: (33) 93 65 77 71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

1.4 shadow 4.1.5.1-18.el7
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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#
# Module Name: dbShelve.py
#
# Description: A reimplementation of the standard shelve.py that
# forces the use of cPickle, and DB.
#
# Creation Date: 11/3/97 3:39:04PM
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unicodedata -- Provides access to the Unicode 5.1 data base.

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

Written by Marc-Andre Lemburg (mal@lemburg.com).
Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)
Modified by Martin v. L"wis (martin@v.loewis.de)

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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/* Random objects */
The code in this module was based on a download from:

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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********************************************************** */

# 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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# ElementTree
# $Id: ElementInclude.py 1862 2004-06-18 07:31:02Z Fredrik $
#
# limited xinclude support for element trees
#
# history:
# 2003-08-15 fl   created
# 2003-11-14 fl   fixed default loader
#
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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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/* microprotocols.c - minimalist and non-validating protocols implementation */

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#
# $Id: test_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea $

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IA64/unix Foreign Function Interface

Original author: Hans Boehm, HP Labs

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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.keio.ac.jp/matumoto/emt.html
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Sockets
-------

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

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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

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The original and principal author of md5.h is L. Peter Deutsch
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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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    -------------------------------

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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
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- Arguments more compliant with python standard

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

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-- Tom St Denis

1.19 glibc 2.28

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1.27 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.28 iptables 1.6.2
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1.37 mesa 18.3.4

1.37.1 Available under license:
libfreedreno_layout = static_library(
    'freedreno_layout',
    [
        'fd6_layout.c',
        'freedreno_layout.c',
    ],
    include_directories : [inc_freedreno, inc_common],
    c_args : [c_vis_args, no_override_init_args],
    cpp_args : [cpp_vis_args],
    dependencies : idep_nir_headers,
    build_by_default : false,
)

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1.38 curl 7.43.0
1.38.1 Available under license :

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============
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1.39 libxfont 1:1.3.3-2

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/* lib/font/fontfile/gunzip.c
   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
   intended for inclusion in X11 public releases. */

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1.40 d-bus 1.6.12 14.el7_2

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-ftp-hpaftpd/remap.c
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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/tftpd.8.in
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  hpa/common/tftpsubs.h
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
  hpa/tftp/extern.h
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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
  hpa/MCONFIG.in
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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %(_tmppath)/%{name}-root

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

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

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

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

%build

%configure
make %{_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}(!_bindir)
mkdir -p ${RPM_BUILD_ROOT}(!_mandir)/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}(!_sbindir)
make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
install
install -m755 -d ${RPM_BUILD_ROOT}(!_sysconfdir)/xinetd.d/ $(RPM_BUILD_ROOT)/tftpboot
install -m644 tftp-xinetd $(RPM_BUILD_ROOT)(!_sysconfdir)/xinetd.d/tftp

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

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

%clean
rm -rf ${RPM_BUILD_ROOT}

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

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

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

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

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

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

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

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

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

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

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

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

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

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

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

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

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

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

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

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

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

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

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

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

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

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled
* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp.spec.in
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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/main.c  
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/tftp.c  
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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/config.h  
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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/recvfrom.h

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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

Create new DOS partition table

Create 1st primary partition

Create 2st primary partition
---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

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td></td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

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

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

BSD disklabel command (m for help):
Command (m for help):
---------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start  end  size  fstype [fsizel bsize  cpg]
a:  4096  6144  2049  4.2BSD  0  0  0
c:  4096  20479  16384  unused  0  0
d:   0   16064   16065  unused  0  0

BSD disklabel command (m for help):
Command (m for help):

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

Command (m for help):

BSD disklabel command (m for help):

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

BSD disklabel command (m for help):

1.49 log-rotate 3.14.0
1.49.1 Available under license :

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* 605 E. Springfield, Champaign, IL 61820
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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy
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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
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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
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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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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<one line to give the program's name and a brief idea of what it does.>
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1.58 ipmi-tool 1.8.11

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1.59 unzip 6.0

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FIRST NOTE:
This file contains some details about the copyright history of
contributions to the UnZip project.
Additionally, it summarises some exceptions to the general BSD-like
copyright found in LICENSE that covers our generic code and most of
the system specific ports.
Please read LICENSE first to find out what is allowed to do with
Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip
code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans'
MacBinaryIII coding code (for the MacOS port). These copyrights
are discussed in more detail below.

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

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

There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

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

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.

For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles

* A collection of File Manager and related routines

* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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The following copyright applies to the Mac OS "machin3" decoding code
(extra field compatibility with ZipIt):

* MacBinaryIII.h
*
* Copyright 1997 Christopher Evans (cevans@poppybank.com)
*
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* _________________________________________________________
* This source is copyrighted by Christopher Evans (cevans@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
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This copyright note does not contain any usage terms. So, we assume
that this code is freely reusable until we are proved wrong...

_____________________________________________________________________

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The following copyright applies to the full-featured unreduce.c
(now distributed separately):

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*
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* Do not use any of this in a commercial product.

Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

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

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

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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The following copyright applied to most of the VMS code in vms.c, distributed with UnZip version 4.2 and later:

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBUTIONS in the source distribution for a much more complete list of contributors. The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.60 libnl3 3.4.0

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1.62 libxext 1.3.1

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1.63 tcl 8.3.3

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1.64 usb-modeswitch 1.2.7 6.el7

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

>Hi.  I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0.  Thanks.
Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)  
From spcecdt@armory.com Wed May 10 10:21:11 1995  
Flags: 10  
Return-Path: spcecdt@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 spcecdt@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 spcecdt@armory.com for <chet@po.cwru.edu>)  
From: John DuBois <spcecdt@armory.com>  
Date: Tue, 9 May 1995 22:33:12 -0700  
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>  
"ksh scripts" (May 9, 1:36pm)  
X-Www: http://www.armory.com/~spcecdt/  
X-Mailer: Mail User's Shell (7.2.5 10/14/92)  
To: chet@po.cwru.edu  
Subject: Re: ksh scripts  
Message-ID: <9505092233.aa13001@deepthought.armory.com>  

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

John  

On May 9, 1:36pm, Chet Ramey wrote:  
} Subject: ksh scripts  
} From: chet@odin.ins.cwru.edu Thu May  9 10:39:51 1995  
} Received: from Odin.Ins.CwrU.Edu by Odin.Ins.CwrU.Edu id aa22336;  
} 9 May 95 10:39 PDT  
} Received: (chet@localhost) by Odin.Ins.CwrU.Edu (8.6.10+cwru/CWRU-2.1-ins)  
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)  
} Date: Tue, 9 May 1995 13:36:54 -0400  
} From: Chet Ramey <chet@odin.ins.cwru.edu>  
} To: john@armory.com  
} Subject: ksh scripts  
} Cc: chet@odin.ins.cwru.edu  
} Reply-To: chet@po.cwru.edu  
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>  
} Reply-Receipt-To: chet@po.cwru.edu  
} MIME-Version: 1.0  
} Content-Type: text/plain; charset=us-ascii  
} Status: OR
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site
a while back. I'd like your permission to include modified versions
of some of them in the next major bash distribution (with proper credit
given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne." - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

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1.66 cyrus-sasl 2.1.26 20.el7_2

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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/utl/fips_lck.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0.openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/aes/fips_gcmtest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0.openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_hmac.c
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0.openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbgvs.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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  2.0.16/crypto/ecdsa/ecs_locl.h
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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/bn/bn_sqr.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_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
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dsa/dsa.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dh/dh_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/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/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/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/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/dsa/dsa.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dh/dh_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/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/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/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/dsa/dsa.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dh/dh_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
Open Source Used In FXOS MIO 2.10.1.166 788
#!/usr/bin/env perl
#
# 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+

No license file was found, but licenses were detected in source scan.
Open Source Used In FXOS MIO 2.10.1.166

# -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-]*\..+$/)) {} 
open STDOUT,"+>$output";

($CTXA,$INP,$NUM) = ("A4","B4","A6"); # arguments
$K512="A3";

($Ahi,$Actxhi,$Bhi,$Bctxhi,$ Chí,$Cctxhi,$Dhi,$Dctxhi,$Ehi,$Ectxhi,$Fhi,$Fctxhi,$Ghi,$Gctxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Clo,$Cctxlo,$Dlo,$Dctxlo,$Elo,$Ectxlo,$Flo,$Fctxlo,$Glo,$Gctxlo,$Hlo,$Hctxlo)=map("B$_",(16..31));

($S1hi,$CHhi,$S0hi,$t0hi)=map("A$_",(10..13));
($S1lo,$CHlo,$S0lo,$t0lo)=map("B$_",(10..13));
($T1hi, $T2hi)="A6","A7";
($T1lo,$T1carry,$T2lo,$T2carry)="B6","B7","B8","B9";
($Khi,$Klo)="A9","A8";
($MAJhi,$MAJlo)="T2hi","T2lo";
($t1hi,$t1lo)="Khi","B2";
$CTXB=$t1lo;

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

$code.=<<<___;
.text

.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:
MV$NUM,A0; reassign $NUM
||MVK-128,B0
||!*A0BNOPR; if ($NUM==0) return;
||[A0]STWF,*SP--; save frame pointer
||[A0]MVSP,FP
||[A0]MVK0x00404,B1
||[A0]STDB11:B10,*SP[3]
||[A0]STDA13:A12,*FP[-3]
||[A0]MVKH0x60000,B1
||[A0]STDA11: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),SK512
||[A0]MVKH(K512_sha512_block_data_order),SK512
||[A0]SUBAWSp.2,SP; reserve two words above buffer
||ADDAWSp.3,$Xilo
||ADDAWSp.2,$Xihi

||MV$CTXA,$CTXB
||LDW*$CTXA][0^LITTLE_ENDIAN],$Ahi; load ctx
|||LDW*$CTXB[1^LITTLE_ENDIAN],$Alo
|||ADDB1,SK512,SK512
||LDW*$CTXA][2^LITTLE_ENDIAN],$Bhi
|||LDW*$CTXB[3^LITTLE_ENDIAN],$Blo
||LDW*$CTXA][4^LITTLE_ENDIAN],$Chl
|||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*$CTXB[9^LITTLE_ENDIAN],$El0
||LDW*$CTXA][10^LITTLE_ENDIAN],$Fhi
|||LDW*$CTXB[11^LITTLE_ENDIAN],$Flo
||LDW*$CTXA][12^LITTLE_ENDIAN],$Ghi
|||LDW*$CTXB[13^LITTLE_ENDIAN],$Glo
||LDW*$CTXA][14^LITTLE_ENDIAN],$Hhi
|||LDW*$CTXB[15^LITTLE_ENDIAN],$Hlo
||LDNDW*$INP++,B11:B10; pre-fetch input
||LDDW*$K512++,,$Khi:$Klo; pre-fetch K512[0]
||outerloop?:
||MVK15,B0; loop counters
||MVK64,B1
||SUBA0,1,A0
||MV$Ahi,$Actxhi
MV$A0,$Actxlo
MV$Bhi,$Bctxhi
MV$Blo,$Bctxlo
MV$Chi,$Cctxhi
MV$Clo,$Cctxlo
MV$Dh,$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?:
.if BIG_ENDIAN
MV$B11,$T1hi
MV$B10,$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,$T1hi
ADDU$Hlo,$T1lo,$T1lo; T1 += h
SHRU$Ehi,14,$S1hi
SHL$Ehi,32-14,$S1lo
XOR$Fhi,$Ghi,$CHhi
XOR$Flo,$Glo,$CHlo
ADD$Hhi,$T1hi,$T1hi
ADDU$Hlo,$T1lo,$T1lo; T1 += K512[i]
SHRU$Elo,14,$t0lo
SHL$Elo,32-14,$t0hi
XOR$t0hi,$S1hi,$S1hi
XOR$t0lo,$S1lo,$S1lo
AND$Ehi,$CHhi,$CHhi
AND$Elo,$CHlo,$CHlo
ROTL$Ghi,0,$Hhi
ROTL$Glo,0,$Hlo; h = g
SHRU$Ehi,18,$t0hi
SHL$Ehi,32-18,$t0lo
XOR$t0hi,$S1hi,$S1hi
XOR$t0lo,$S1lo,$S1lo
XOR $Ghi,$CHhi,$CHhi
XOR $Glo,$CHlo,$CHlo ; Ch(e,f,g) = ((f^g)&e)^g
ROTL $Fhi,0,$Ghi
ROTL $Flo,0,$Glo ; g = f
SHRU $Elo,18,$t0lo
SHL $Elo,32-18,$t0hi
XOR $t0hi,$S1hi,$S1hi
XOR $t0lo,$S1lo,$S1lo
OR $Ahi,$Bhi,$MAJhi
OR $Alo,$Blo,$MAJlo
ROTL $Ehi,0,$Fhi
ROTL $Elo,0,$Flo ; f = e
SHRUSEhi,41-32,$t0lo
SHL $Ehi,64-41,$t0hi
XOR $t0hi,$S1hi,$S1hi
XOR $t0lo,$S1lo,$S1lo
AND $Chi,$MAJhi,$MAJhi
AND $Clo,$MAJlo,$MAJlo
ROTL $Dhi,0,$Ehi
ROTL $Dlo,0,$Elo ; e = d
SHRUSElo,41-32,$t0lo
SHL $Elo,64-41,$t0lo
XOR $t0hi,$S1hi,$S1hi
XOR $t0lo,$S1lo,$S1lo ; Sigma1(e)
AND $Ahi,$Bhi,$t1hi
AND $Alo,$Blo,$t1lo
ROTL $Chi,0,$Dhi
ROTL $Clo,0,$Dlo ; d = c
SHRUSEhi,28,$S0hi
SHL $Ahi,32-28,$S0lo
OR $t1hi,$MAJhi,$MAJhi
OR$t1lo,$MAJlo,$MAJlo ; Maj(a,b,c) = ((a\mid b)&c)|(a\&b)
ADD $CHhi,$T1hi,$T1hi
ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Ch(e,f,g)
ROTL $Bhi,0,$Chi
ROTL $Bllo,0,$Cllo ; c = b
SHRUSElo,28,$t0lo
SHLS $Alo,32-28,$t0hi
XOR $t0hi,$S0hi,$S0hi
XOR $t0lo,$S0lo,$S0lo
ADD $S1hi,$T1hi,$T1hi
ADDU $S1lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Sigma1(e)
ROTL $Ahi,0,$Bhi
ROTL $Alo,0,$Blo ; b = a
SHRUSEhi,34-32,$t0lo
SHLS $Alo,64-34,$t0hi
XOR $t0hi,$S0hi,$S0hi
XOR $t0lo,$S0lo,$S0lo
||ADD$MAJhi,$T1hi,$T2hi
||ADDUSMAJlo,$T1carry:$T1lo,$T2carry:$T2lo; T2 = T1+Maj(a,b,c)
||SHRU$Alo,34-32,$t0hi
||SHL$Alo,64-34,$t0lo
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||ADD$Ehi,$T1hi,$T1hi
||ADDUSElo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += e
||[B0]BNOP loop0_15?
||SHRU$Ahi,39-32,$t0lo
||SHLS$Ahi,64-39,$t0hi
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||[B0]LDNDW*$INP++,B11:B10; pre-fetch input
||[!B1]BNOP break?
||SHRU$Alo,39-32,$t0hi
||SHLS$Alo,64-39,$t0lo
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo; Sigma0(a)
||ADD$T1carry,$T1hi,$Ehi
||MV$T1lo,$Elo; e = T1
||[!B0]LDW*{$Xihi}[28],$T1hi
||[!B0]LDW*{$Xiilo}[28],$T1lo; X[i+14]
ADD$S0hi,$T2hi,$T2hi
||ADDUS$0lo,$T2carry:$T2lo,$T2carry:$T2lo; T2 += Sigma0(a)
||[B1]LDDW*$K512++,$Khi:$Klo; pre-fetch K512[i]
NOP; avoid cross-path stall
ADD$ST2carry,$T2hi,$Ahi
||MV$T2lo,$Alo; a = T2
||[B0]SUBB0,1,$B0
:===== branch to loop00_15? is taken here
NOP
:===== branch to break? is taken here
LDW*{$Xihi}[2],$T2hi
||LDW*{$Xiilo}[2],$T2lo; X[i+1]
||SHRU$T1hi,19,$S1hi
||SHL$T1hi,32-19,$S1lo
SHRU$T1lo,19,$t0lo
||SHLS$T1lo,32-19,$t0hi
XOR$t0hi,$S1hi,$S1hi
||XOR$t0lo,$S1lo,$S1lo
||SHRU$T1hi,61-32,$t0lo
||SHLS$T1hi,61-32,$t0hi
XOR$t0hi,$S1hi,$S1hi
||XOR$t0lo,$S1lo,$S1lo
||SHRU$T1lo,61-32,$t0hi
||SHLS$T1lo,64-61,$t0lo
XOR$t0hi,$S1hi,$S1hi
||XOR$t0lo,$S1lo,$S1lo
||SHRUST1hi,6,$t0hi
||SHLST1hi,32-6,$t0lo
XOR$t0hi,$S1hi,$S1hi
||XOR$t0lo,$S1lo,$S1lo
||SHRUST1lo,6,$t0lo
||LDW*{$Xhi}[18],$T1hi
||LDW*{$Xlo}[18],$T1lo; X[i+9]
XOR$t0lo,$S1lo,$S1lo; sigma1(X[i+14])

||LDW*{$Xhi}[0],$CHhi
||LDW*{$Xlo}[0],$CHlo; X[i]
||SHRUST2hi,1,$S0hi
||SHLST2hi,32-1,$S0lo
SHRUST2lo,1,$t0lo
||SHLST2lo,32-1,$t0hi
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||SHRUST2lo,8,$t0hi
||SHLST2lo,32-8,$t0lo
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||ADD$S1hi,$T1hi,$T1hi
||ADDUS$1lo,$T1lo,$T1carry:$T1lo; T1 = X[i+9]+sigma1()
||[B1]BNOPloop16_79?
||SHRUST2hi,7,$t0hi
||SHLST2hi,32-7,$t0lo
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||ADD$CHhi,$T1hi,$T1hi
||ADDUS$CHlo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += X[i]
||[B1]SUBB1,1,B1
NOP; avoid cross-path stall
ADDS$T1carry,$T1hi,$T1hi
;===== branch to loop16_79? is taken here

break?:
ADDS$Ahi,$Actxhi,$Ahi; accumulate ctx
||ADDS$Alo,$Actxlo,$Actxlo;$Alo
LDNDW *$INP++,B11:B10; pre-fetch input
ADDK-640,$K512; rewind pointer to K512
ADDUSBhi,$Bctxhi,$Bhi
LDDW*SK512++,$Khi:$Klo; pre-fetch K512[0]
ADDSChi,$Cctxhi,$Chi
ADDSCtxlo,$Ahi,$Ahi
MV $CTXA,$CTXB
ADDSDhi,$Dctxhi,$Dhi
LDDW*$K512++,$Khi:$Klo; pre-fetch K512[0]
ADDSCtxlo,$Ahi,$Ahi
BNOP outerloop?
MV $CTXA[0^.LITTLE_ENDIAN]; save ctx
MV $CTXB[1^.LITTLE_ENDIAN]
MV $CTXA[2^.LITTLE_ENDIAN]
MV $CTXB[3^.LITTLE_ENDIAN]
MV $CTXA[4^.LITTLE_ENDIAN]
MV $CTXB[5^.LITTLE_ENDIAN]
MV $CTXA[6^.LITTLE_ENDIAN]
MV $CTXB[7^.LITTLE_ENDIAN]
MV $CTXA[8^.LITTLE_ENDIAN]
MV $CTXB[9^.LITTLE_ENDIAN]
MV $CTXA[10^.LITTLE_ENDIAN]
MV $CTXB[11^.LITTLE_ENDIAN]
MV $CTXA[12^.LITTLE_ENDIAN]
MV $CTXB[13^.LITTLE_ENDIAN]
;===== branch to outerloop? is taken here
STW $FP,*${CTXA[14^.LITTLE_ENDIAN]}; destroy circular buffer
STW $FP,*${CTXB[15^.LITTLE_ENDIAN]}
ADD FP,B0,SP; destroy circular buffer
LDDW*FP[-4],A11:A10
LDDW*SP[2],A13:A12  
||LDDW*FP[-2],B11:B10  
LDDW*SP[4],B13:B12  
||BNOP	RA  
LDW	*++SP(40),FP	; restore frame pointer  
MVK	0,B0  
MVC	B0,AMR	; clear AMR  
NOP	2	; wait till FP is committed  
.endasmfunc  
.sect".const:sha_asm"  
.align128  
K512:  
.uword	0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd  
.uword	0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xe9b5dba5,0x8189dbbc  
.uword	0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xec4d3b2f, 0x923f82a4,0xaf194f9b, 0xb5c0fbcf,0xe9b5dba5,0x8189dbbc  
.uword	0x76f988da,0x831153b5  
.uword	0xb9dc06a7,0x25c71235, 0xc19bf174,0xc67178f2, 0xc76c51a3,0x0654be30  
.uword	0x1e376c08,0x5141ab53  
.uword	0x1a6439ec,0x4ed8aa4a,0xe3418acb  
.uword	0xe81c29e2,0x47edae66, 0x92722c85,0x1482353b  
.uword	0x32bbd1b8,0x34b0bcb5,0xe9b5dba5,0x8189dbbc  
.uword	0xdec88f6c,0x5ac42aed, 0x53380d13,0x9d95b3df  
.uword	0x8baf63de,0x766a0abb,0x3c77b2a8  
.uword	0x06f067aa,0x72176fba, 0x0a637dc5,0x2a2c898a6  
Open Source Used In FXOS MIO 2.10.1.166 797
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.

/*.c>, <crypto/*/*.c>, <ssl/*.c>, <apps/*.c>)

When this option is NOT specified, the filelist is taken from the command line instead. Here, wildcards may be embedded. (Be sure to escape those to prevent the shell from expanding them for you when you wish mkerr.pl to do so instead.)
Default: take file list to scan from the command line.

-reindex Discard the numeric values previously assigned to the error and function codes as extracted from the scanned header files; instead renumber all of them starting from 100. (Note that the numbers assigned through 'R' records in the config file remain intact.)
Default: keep previously assigned numbers. (You are warned when collisions are detected.)

-nostatic Generates a different source code, where these additional functions are generated for each library specified in the config file:
void ERR_load_<LIB>_strings(void);
void ERR_unload_<LIB>_strings(void);
void ERR_<LIB>_error(int f, int r, char *fn, int ln);
#define <LIB>err(f,r) ERR_<LIB>_error(f,r,__FILE__,__LINE__)
while the code facilitates the use of these in an environment where the error support routines are dynamically loaded at runtime.
Default: 'static' code generation.

-staticloader Prefix generated functions with the 'static' scope modifier.
Default: don't write any scope modifier prefix.

-write Actually (over)write the generated code to the header and C
source files as assigned to each library through the config file.
Default: don't write.

- help / -h / -? / --help Show this help text.

... Additional arguments are added to the file list to scan,
assuming '-recurse' was NOT specified on the command line.

EOF
exit 1;
} else {
  last;
}
}

if($recurse) {
  @source = ( <crypto/*.c>, <crypto/*/*.c>, <ssl/*.c>,
              <fips/*.c>, <fips/*/*.c>);
} else {
  @source = @ARGV;
}

# Read in the config file
open(IN, "<$config") || die "Can't open config file $config";

# Parse config file

while(<IN>)
{
  if(/^L\s+(\S+)\s+(\S+)\s+(\S+)/) {
    $hinc{$1} = $2;
    $libinc{$2} = $1;
    $cskip{$3} = $1;
    if($3 ne "NONE") {
      $csrc{$1} = $3;
      $fmax{$1} = 100;
      $rmax{$1} = 100;
      $fassigned{$1} = ":";
      $rassigned{$1} = ":";
      $fnew{$1} = 0;
      $rnew{$1} = 0;
    }
  } elsif (/^F\s+(\S+)$/) {
    # Add extra function with $1
  } elsif (/^R\s+(\S+)$/) {
    $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= "", $linner = 0, $gotfile = 0;
  if (open(IN, "<$hdr")) {
    $gotfile = 1;
    while(<IN>) {
      $linner++;
      print STDERR "line: $linner\r" if $debug;
      last if(/BEGIN\s+ERROR\s+CODES/);
      if ($line ne '') {
        $_ = $line . $_;
        $line = "";
      }
      if (/\$/) {
        $line = $_;
        next;
      }
      if(/\*/) {
        if (not /\*/|/) { # multiline comment...
          $line = $_; # ... just accumulate
          next;
        } else {
          s/\*/.*?\*///gs; # wipe it
        }
      }
      if ($cpp) {
        $cpp++ if /^\#if/;
        $cpp-- if /^\#endif/;
        next;
      }
      $cpp = 1 if /^\#.*ifdef.*cplusplus/; # skip "C++ declaration
      next if (/\^#/); # skip preprocessor directives
s/[^\{\}]*/gs;                  # ignore {} blocks

if (/\{|\|\}/) {  # Add a } so editor works...
    $line = $_;
} else {
    $def .= $_;
}
}

print STDERR "\r" if $debug;
$defnr = 0;
# Delete any DECLARE_ macros
$def =~ s/DECLARE_\w+\[(\w,\s)*\]/\}/gs;
foreach (split /;/, $def) {
    $defnr++;
    print STDERR "def: $defnr\r" if $debug;
    # The goal is to collect function names from function declarations.
    s/\[(\n\s)*\]/\}/g;
    s/\[(\n\s)*\]/\}/g;
    # Skip over recognized non-function declarations
    next if (/typedef/ or /DECLARE_STACK_OF/ or /TYPEDEF_\.*_OF/);
    # Remove STACK_OF(foo)
    s/STACK_OF\(\w+\)/void/;
    # Reduce argument lists to empty ()
    while(/\(.*\)/) {
        s/\(\[\s\]*\)/\}/gs;
        s/\(\s*:\s*(\w+)\s*\)/$1/gs;  #(*f{}) -> f
    }
    # pretend as we didn't use curly braces: {} -> ()
    s/\{\}/\}/gs;

    if (/\(\w+\)\s*\)/) {  # first token prior [first] () is
        my $name = $1;  # a function name!
        $name =~ tr/[a-z]/[A-Z]/;
        $ftrans{$name} = $1;
        } elsif (/\{\}/ and not (/=/)) {  #($/=l) {  # Header $hdr: cannot parse: $_.\n"
            print STDERR "Header $hdr: cannot parse: $_.\n";
        }
    }
print STDERR "\r" if $debug;

next if $reindex;

# Scan function and reason codes and store them: keep a note of the
# maximum code used.

if ($gotfile) {
    while(<IN>) {
        if( /^\#define\s+\$S+\($S+\)$S+\($S+\)/ ) {
            $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} = $code;
                }
            } else {
                if ($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{$lib})) {
        print STDERR "Max function code fmax" . "\n" . "$lib" . "\n" = $fmax{$lib}\n";
        $fassigned{$lib} =~ m/^:/s+$/;
        @fassigned = sort { $a <=>$b } split(";", $1);
print STDERR "  @fassigned\n";
}
if (defined($rmax{$lib})) {
print STDERR "Max reason code rmax\" \"{$lib\" \} = $rmax{$lib}\n";
$rassigned{$lib} = m/_\(.*\)/i/$;
@rassigned = sort { $a <=> $b } split(":\", $1);
print STDERR "  @rassigned\n";
}

if ($lib eq "SSL") {
if ($rmax{$lib} >= 1000) {
print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\n"
print STDERR "!! Any new alerts must be added to $config\n";
++$errcount;
print STDERR "\n";
}
}
close IN;

# Scan each C source file and look for function and reason codes
# This is done by looking for strings that "look like" function or
# reason codes: basically anything consisting of all upper case and
# numerics which has _F_ or _R_ in it and which has the name of an
# error library at the start. This seems to work fine except for the
# oddly named structure BIO_F_CTX which needs to be ignored.
# If a code doesn't exist in list compiled from headers then mark it
# with the value "X" as a place holder to give it a value later.
# Store all function and reason codes found in %ufcodes and %urcodes
# so all those unreferenced can be printed out.

foreach $file (@source) {
# Don't parse the error source file.
next if exists $cskip{$file};
print STDERR "File loaded: \$.file\n" if $debug;
open(IN, "<\$file") || die "Can't open source file \$.file\n";
while(<IN>) {
 # skip obsoleted source files entirely!
lst if(!/^#/error's+obsolete/);

if(/\([A-Z0-9_]\_F\_([A-Z0-9_]\_))/) {
next unless exists $csrc{$2};
next if($1 eq "BIO_F_BUFFER_CTX");
$ufcodes{$1} = 1;
if(!exists $fcodes{$1}) {
$fcodes{$1} = "X";
}
$fnew{$2}++;
}

$notrans{$1} = 1 unless exists $ftrans{$3};
print STDERR "Function: $1\t= $fcodes{$1} (lib: $2, name: $3)\n" if $debug;
}
if(/((\[A-Z0-9\]+)_R_[A-Z0-9_]+)/) {
next unless exists $csrc{$2};
$urcodes{$1} = 1;
if(!exists $rcodes{$1}) {
$rcodes{$1} = "X";
$rnew{$2}++;
}
print STDERR "Reason: $1\t= $rcodes{$1} (lib: $2)\n" if $debug;
}
}

# Now process each library in turn.

foreach $lib (keys %csrc) {
my $hfile = $hinc{$lib};
my $cfile = $csrc{$lib};
if(!$fnew{$lib} && !$rnew{$lib}) {
print STDERR "$lib:\t	No new error codes\n";
next unless $rebuild;
} else {
print STDERR "$lib:\t	$fnew{$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, $_;
}
last if (/BEGIN ERROR CODES/):
   }
} else {
   push @out,
   "/*
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   " * Redistribution and use in source and binary forms, with or without
   " * modification, are permitted provided that the following conditions
   " * are met:
   " */
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   " * notice, this list of conditions and the following disclaimer.
   " * 2. Redistributions in binary form must reproduce the above copyright
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   " * the documentation and/or other materials provided with the
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   " * 3. All advertising materials mentioning features or use of this
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   " * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   " * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
   " * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
   " * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)\n   " * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
   " */
"
" * STRICK LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)\n",
" * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED\n",
" * OF THE POSSIBILITY OF SUCH DAMAGE.\n",
" * \n",
" * This product includes cryptographic software written by Eric Young\n",
" * (eay@cryptsoft.com). This product includes software written by Tim\n",
" * Hudson (tjh@cryptsoft.com).\n",
" * \n",
" * \n",
" * \n",
" * ifndef HEADER_${lib}_ERR_H\n",
" * define HEADER_${lib}_ERR_H\n",
" * \n",
" * ifndef __cplusplus\n",
" * extern \"C\" \{\n",
" * \n",
" * \n",
" */\n",
"
",
"#ifndef HEADER_${lib}_ERR_H\n",
"#define HEADER_${lib}_ERR_H\n",
"\n",
"#ifdef __cplusplus\n",
"extern \"C\" \{
",
"#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
}
print OUT <<"EOF"

/* Error codes for the $lib functions. */
/* Function codes. */

EOF
foreach $i (@function) {
    $z=6-int(length($i)/8);
    if($fcodes{$i} eq "X") {
        $fassigned{$lib} =~ m/^:([^:]*):/;
        $findcode = $1;
        if (!defined($findcode)) {
            $findcode = $fmax{$lib};
        }
        while ($fassigned{$lib} =~ m/:$findcode:/) {
            $findcode++;
        }
        $fcodes{$i} = $findcode;
        $fassigned{$lib} .= "$findcode:";
        if ($debug) {
            print STDERR "New Function code $i
" unless $debug;
        }
    }
    printf OUT '#define $i%s $fcodes{$i}"
",	"x $z;
}

printf OUT
"
/* Reason codes. */
"

foreach $i (@reasons) {
    $z=6-int(length($i)/8);
    if($rcodes{$i} eq "X") {
        $rassigned{$lib} =~ m/^:([^:]*):/;
        $findcode = $1;
        if (!defined($findcode)) {
            $findcode = $rmax{$lib};
        }
        while ($rassigned{$lib} =~ m/:$findcode:/) {
            $findcode++;
        }
        $rcodes{$i} = $findcode;
        $rassigned{$lib} .= "$findcode:";
        if ($debug) {
            print STDERR "New Reason code $i
" unless $debug;
        }
    }
    printf OUT '#define $i%s $rcodes{$i}"
",	"x $z;
}

printf OUT <<"EOF"
#ifdef __cplusplus
#endif
#endif
EOF

close OUT;

# Rewrite the C source file containing the error details.
# First, read any existing reason string definitions:
my %err_reason_strings;
if (open(IN,"<$cfile")) {
    while (<IN>) {
        if (/\b(${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\n";
                $ftrans{$1} = $2;
            }
        }
    }
    close(IN);
}

my $hincf;
if($static) {
    $hfile =~ /\([^/\]+)\/;
    $hincf = "<${hprefix}$1>";
} else {
    $hincf = ""$hfile\"";
}

# If static we know the error code at compile time so use it
# in error definitions.
if ($static) {
    $pack_errcode = "ERR_LIB_$lib";
    $load_errcode = "0";
} else {
    $pack_errcode = "0";
    $load_errcode = "ERR_LIB_$lib";
}

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

print OUT <<"EOF";
/* $cfile */

/* EOF */

/* ==============================================================*/

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This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim
#include <stdio.h>
#include <openssl/err.h>
#include $hincf

/* BEGIN ERROR CODES */
#ifndef OPENSSL_NO_ERR
#define ERR_FUNC(func) ERR_PACK($pack_errcode,func,0)
#define ERR_REASON(reason) ERR_PACK($pack_errcode,0,reason)

static ERR_STRING_DATA ${lib}_str_functs[]= {
    EOF
    # Add each function code: if a function name is found then use it.
    foreach $i (@function) {
        my $fn;
        $i =~ /^${lib}_F_(\S+)/; 
        $fn = $1;
        if(exists $ftrans{$fn}) {
            $fn = $ftrans{$fn};
        }
        #print OUT "\"[ERR_FUNC($i),"$fn"]\n";
        print OUT "\"[ERR_FUNC($i),\"$fn\"]\n\n";
    }
    print OUT "<<EOF";
    {0,NULL}
};

static ERR_STRING_DATA ${lib}_str_reasons[]= {
    EOF
    # Add each reason code.
    foreach $i (@reasons) {
        my $rn;
        my $rstr = "ERR_REASON($i)";
        my $nspec = 0;
        if (exists $err_reason_strings{$i}) {
            $rn = $err_reason_strings{$i};
        } else {

```
$i =~ /\^{$lib}_R_(\S+)/; 
$rn = $1;
$rn =~ tr/_[A-Z]/ [a-z]/;
}
$nspc = 40 - length($rstr) unless length($rstr) > 40;
$nspc = " " x $nspc;
print OUT "\$\{rstr\}$nspc,\"$rn\",\n";
}
if($static) {
print OUT <<"EOF"
{0,NULL}
"EOF";
{0,NULL}
};

#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

EOF
}
#else 
print OUT <<"EOF"
{0,NULL}
"EOF";
{0,NULL}
};
#endif

#ifdef ${lib}_LIB_NAME
static ERR_STRING_DATA ${lib}_lib_name[]= {
{0,${lib}_LIB_NAME},
{0,NULL}
};
#endif

static int ${lib}_lib_error_code=0;
static int ${lib}_error_init=1;

${staticloader}void ERR_load_${lib}_strings(void) {

```
if (${lib}_lib_error_code == 0)
${lib}_lib_error_code=ERR_get_next_error_library();

if (${lib}_error_init)
{
${lib}_error_init=0;
#ifdef OPENSSL_NO_ERR
ERR_load_strings(${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
}

${staticloader}void ERR_unload_${lib}_strings(void)
{
if (${lib}_error_init == 0)
{
#ifdef OPENSSL_NO_ERR
ERR_unload_strings(${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;
}
}

${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line)
{
if (${lib}_lib_error_code == 0)
${lib}_lib_error_code=ERR_get_next_error_library();
ERR_PUT_error(${lib}_lib_error_code,function,reason,file,line);
}
if($debug && defined(%notrans)) {
    print STDERR "The following function codes were not translated:\n";
    foreach(sort keys %notrans)
    {
        print STDERR "$_
";
    }
}
#
# 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($debug && defined(@funref) ) {
    print STDERR "The following function codes were not referenced:\n";
    foreach(sort @funref)
    {
        print STDERR "$_
";
    }
}

if($debug && defined(@runref) ) {
    print STDERR "The following reason codes were not referenced:\n";
    foreach(sort @runref)
    {
        print STDERR "$_
";
    }
}

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/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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#!/usr/bin/env perl

# ====================================================================
# Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================

# I let hardware handle unaligned input(*), except on page boundaries
# (see below for details). Otherwise straightforward implementation
# with X vector in register bank. The module is big-endian [which is
# not big deal as there're no little-endian targets left around].
#
# (*) this means that this module is inappropriate for PPC403? Does
# anybody know if pre-POWER3 can sustain unaligned load?
#
# -m64-m32
# --------------------------------------------------------------
# PPC970,gcc-4.0.0+76%+59%
# Power6,xlc-7+68%+33%

$flavour = shift;

if ($flavour =~ /64/) {
    $SIZE_T=8;
    $LRSAVE=2*$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";
$toc ="r2";
$ctx ="r3";
$inp ="r4";
$num ="r5";
$t0 ="r15";
$t1 ="r6";

$A ="r7";
$B ="r8";
$C ="r9";
$D ="r10";
$E ="r11";
$T ="r12";

@V=(\$A,\$B,\$C,\$D,\$E,\$T);
@X="(r16","r17","r18","r19","r20","r21","r22","r23",

---

Open Source Used In FXOS MIO 2.10.1.166 818
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`($inp)
add$Sf,$K,$Se
rotlw$iSe,sa,5
add$Sf,$f,@X[$i]
and$St0,Sc,$b
add$Sf,$f,$e
andc$St1,Sd,$b
rotlw$b$Sb,30
or$St0,$St0,$St1
add$Sf,$f,$t0
;;
$code.=<<< if ($i>=15);
add$Sf,$K,$e
rotlw$e,$a,5
xor@X[$j%16],@X[$j%16],@X[(j+2)%16]
add$Sf,$f,@X[$i%16]
and$St0,Sc,$b
xor@X[$j%16],@X[$j%16],@X[(j+8)%16]
add$Sf,$f,$t0
andc$St1,Sd,$b
rotlw$b$Sb,30
or$St0,$St0,$St1
xor@X[$j%16],@X[$j%16],@X[(j+13)%16]
add$Sf,$f,$t0
rotlw@X[$j%16],@X[$j%16],1
}

sub BODY_20_39
{
my ($i,$a,$b,$c,$d,$e,$f)=@_; 
my $j=$i+1;
$code.=<<< if ($i<79);
add$Sf,$S,$e
rotlw$iSe,sa,5
xor@X[$j%16],@X[$j%16],@X[(j+2)%16]
add$Sf,$f,@X[$i%16]
xor$t0,$b,$c
xor@X[$j%16],@X[$j%16],@X[(j+8)%16]
add$Sf,$f,$e
}

"r24","r25","r26","r27","r28","r29","r30","r31");
rotlwi$b,$b,30
xor$t0,$t0,$d
xor@X[$j%16],@X[$j%16],@X[($j+13)%16]
add$sf,$f,$t0
rotlwi@X[$j%16],@X[$j%16],1
___
$code.=<<___ if ($i==79);
add$sf,$k,$e
rotlwis,e,a,5
lwzr16,0($ctx)
add$sf,$f,@X[$i%16]
xor$t0,$b,$c
lwzr17,4($ctx)
add$sf,$f,$e
rotlwi$b,$b,30
lwzr18,8($ctx)
xor$t0,$t0,$d
lwzr19,12($ctx)
add$sf,$f,$t0
lwzr20,16($ctx)
___
}

sub BODY_40_59 { my ($i,$a,$b,$c,$d,$e,$f)=@_; my $j=$i+1;
$code.=<<___;
add$sf,$k,$e
rotlwise,e,a,5
xor@X[$j%16],@X[$j%16],@X[($j+2)%16]
add$sf,$f,@X[$i%16]
and$t0,$b,$c
xor@X[$j%16],@X[$j%16],@X[($j+8)%16]
add$sf,$f,$e
or$t1,$b,$c
rotlwis$b,$b,30
xor@X[$j%16],@X[$j%16],@X[($j+13)%16]
and$t1,$t1,$d
or$t0,$t0,$t1
rotlwi@X[$j%16],@X[$j%16],1
add$sf,$f,$t0
___
}

$code=<<___;
&machine"any"
&text
.globl sha1_block_data_order
.align 4
.sha1_block_data_order:
$STU$sp,-$FRAME($sp)
mflr 0
$PUSH$r15,`$FRAME-$SIZE_T*17`($sp)
$PUSH$r16,`$FRAME-$SIZE_T*16`($sp)
$PUSH$r17,`$FRAME-$SIZE_T*15`($sp)
$PUSH$r18,`$FRAME-$SIZE_T*14`($sp)
$PUSH$r19,`$FRAME-$SIZE_T*13`($sp)
$PUSH$r20,`$FRAME-$SIZE_T*12`($sp)
$PUSH$r21,`$FRAME-$SIZE_T*11`($sp)
$PUSH$r22,`$FRAME-$SIZE_T*10`($sp)
$PUSH$r23,`$FRAME-$SIZE_T*9`($sp)
$PUSH$r24,`$FRAME-$SIZE_T*8`($sp)
$PUSH$r25,`$FRAME-$SIZE_T*7`($sp)
$PUSH$r26,`$FRAME-$SIZE_T*6`($sp)
$PUSH$r27,`$FRAME-$SIZE_T*5`($sp)
$PUSH$r28,`$FRAME-$SIZE_T*4`($sp)
$PUSH$r29,`$FRAME-$SIZE_T*3`($sp)
$PUSH$r30,`$FRAME-$SIZE_T*2`($sp)
$PUSH$r31,`$FRAME-$SIZE_T*1`($sp)
$PUSH$r0, `$FRAME+$LRSAVE`($sp)
lwzA,0($ctx)
lwzB,4($ctx)
lwzC,8($ctx)
lwzD,12($ctx)
lwzE,16($ctx)
andi r0,$inp,3
bne Lunaligned
Laigned:
mtctr$num
bLsha1_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...
.align 4
Lunaligned:
subfic$t1,$inp,4096
andi.$t1,$t1,4095; distance to closest page boundary
srwi.$t1,$t1,6; t1/=64
beq Lcross_page
$UCMP$num,$t1
bleLaligned; didn't cross the page boundary
mtctr$t1
subfc$num,$t1,$num
bLsha1_block_private
Lcross_page:
li$t1,16
mtctr$t1
addi20,$sp,$LOCALS; spot within the frame
Lmemcpy:
lbzr16,0($inp)
lbzr17,1($inp)
lbzr18,2($inp)
lbzr19,3($inp)
addi inp,inp,4
stbr16,0(r20)
stbr17,1(r20)
stbr18,2(r20)
stbr19,3(r20)
addi20,r20,4
bdnzLmemcpy
SPUSHPinp,’$FRAME-$SIZE_T*18’($sp)
li$t1,1
addi inp,$sp,$LOCALS
mtctr$t1
bLsha1_block_private
SPOPSinp,’$FRAME-$SIZE_T*18’($sp)
addi $num,$num,-1
bneLunaligned
Ldone:
SPOPr0,’$FRAME+$LRSAVE’($sp)
SPOPr15,’$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)
$POPr31,'$FRAME-$SIZE_T*1'($sp)
mtlr0
addi$sp,$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
Lsha1_block_private:
___
$code.=<<___;# load K_00_19
lis$K,0x5a82
ori$K,$K,0x7999
___
for($i=0;$i<20;$i++)	{ &BODY_00_19($i,@V); unshift(@V, pop(@V)); }
$code.=<<___;# load K_20_39
lis$K,0x6ed9
ori$K,$K,0xeba1
___
for($i<40;$i<60;$i++)	{ &BODY_20_39($i,@V); unshift(@V, pop(@V)); }
$code.=<<___;# load K_40_59
lis$K,0x8f1b
ori$K,$K,0xbc6c
___
for($i<60;$i<80;$i++)	{ &BODY_40_59($i,@V); unshift(@V, pop(@V)); }
$code.=<<___;# load K_60_79
lis$K,0xca62
ori$K,$K,0xc1d6
___
for($i<80;$i++)	{ &BODY_20_39($i,@V); unshift(@V, pop(@V)); }
$code.=<<___;
addr16,r16,$E
addr17,r17,$T
addr18,r18,$A
addr19,r19,$B
addr20,r20,$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`
bdnzLsha1_block_private
blr
.long0
.byte0,12,0x14,0,0,0,0,0

$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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* /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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#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
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# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# December 2011
#
# The module implements GCM GHASH function and underlying single
# multiplication operation in GF(2^128). Even though subroutines
# have _4bit suffix, they are not using any tables, but rely on
# hardware Galois Field Multiply support. Streamed GHASH processes
# byte in ~7 cycles, which is >6x faster than "4-bit" table-driven
# code compiled with TI's cl6x 6.0 with -mv6400+ -o2 flags. We are
# comparing apples vs. oranges, but compiler surely could have done
# better, because theoretical [though not necessarily achievable]
# estimate for "4-bit" table-driven implementation is ~12 cycles.

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

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

($Z0,$Z1,$Z2,$Z3,$H0, $H1, $H2, $H3,
 $H0x,$H1x,$H2x,$H3x)=map("A$_",(16..27));
($H01u,$H01y,$H2u,$H3u,$H0y,$H1y,$H2y,$H3y,
 $H0z,$H1z,$H2z,$H3z)=map("B$_",(16..27));
($FF000000,$E10000)=("B30","B31");
($xip,$x0,$x1,$xib)=map("B$_",(6..9));# $xip zaps $len
$xia="A9";
($rem,$res)=("B4","B5");# $rem zaps $Htable

$code.=<<<___;
.text

.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
MVXip,${xip}; reassign Xi
MVK15,B1; SPLOOPD constant

MVK0xE1,$E10000
|| [LDBU++${xip}[15],$x1; Xi[15]
MVK0xFF,$FF000000
|| [LDBU--${xip}[14],0; Xi[14]
SHL$E10000,16,$E10000; [pre-shifted] reduction polynomial
SHL$FF000000,24,$FF000000; upper byte mask
BNOPghash_loop?
|MVK1,B0; take a single spin

PACKH2$H0,$H1,Sxia; pack H0' and H1's upper bytes
ANDSH2,$FF000000,$H2u; H2's upper byte
ANDSH3,$FF000000,$H3u; H3's upper byte
|| SHRH2u,8,$H2u
SHRH3u,8,$H3u
|| ZEROSZ1:$Z0
SHRU25xia,8,$H01u
|| ZEROSZ3:$Z2
.endasmfunc

.global_gcm_ghash_4bit
_gcm_ghash_4bit:
.asmfunc
LDDW*$Htable[-1],$H1:$H0; H.lo
|| SHRUSElen,4,B0; reassign len
LDDW*$Htable[-2],$H3:$H2; H.hi
MVXip,${xip}; reassign Xi
MVK15,B1; SPLOOPD constant

MVK0xE1,$E10000
|| [B0]LDNDW*$inp[1],$H1x:$H0x
MVK0xFF,$FF000000
|| [B0]LDNDW*$inp++[2],$H3x:$H2x
SHL$E10000,16,$E10000; [pre-shifted] reduction polynomial
|| [LDDW*$xip[1],$Z1:$Z0
SHL$FF000000,24,$FF000000; upper byte mask
|| LDDW*$xip[0],$Z3:$Z2

PACKH2$H0,$H1,Sxia; pack H0' and H1's upper bytes
ANDSH2,$FF000000,$H2u; H2's upper byte
ANDSH3,$FF000000,$H3u; H3's upper byte
|| SHRH2u,8,$H2u
SHRUSH3u,8,$H3u
SHRU2Sxia,8,$SH01u

|| [B0]XOR$H0x,$Z0,$Z0; Xi^=inp
|| [B0]XOR$H1x,$Z1,$Z1
.if LITTLE_ENDIAN
    [B0]XOR$H2x,$Z2,$Z2
|| [B0]XOR$H3x,$Z3,$Z3
|| [B0]SHRUSZ1,24,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*$[xip][1]
|| [B0]SHRUSZ1,16,$x0; Xi[14]
|| [B0]ZERO$SZ1:$Z0
.else
    [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] SHRUSZ0,8,$x0; Xi[14]
|| [B0]ZERO$SZ1:$Z0
.endif
STDWSZ3:$Z2,*$[xip][0]
|| [B0]ZERO$SZ3:$Z2
|| [B0]MV$Sxia,$x1
[B0]ADDK14,$(xip)

ghash_loop?:
SPLOOPD6; 6*16+7
|| MVCB1,ILC
|| [B0]SUBB0,1,B0
|| ZEROA0
|| ADD$x1,$x1,$xib; SHLSx1,1,$xib
|| SHLSx1,1,$xia

###

# 0 D2. M1 M2 |
# 1  M1     |
# 2  M1 M2  |
# 3  D1. M1 M2 |
# 4   S1. L1  |
# 5  S2 S1 x L1 D2 L2 | _______________________
# 6/0  L1 S1 L2 S2x |D2. M1 M2 |
# 7/1  L1 S1 D1x S2x 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. ....
$code.=<<___;
XORMPYH0,$xia,$H0x; 0; HXi[i]
||XORMPYH01u,$xib,$H01y
|| [A0]LDBU*-$xip),Sx0
XORMPYH1,$xia,$H1x; 1
XORMPYH2,$xia,$H2x; 2
||XORMPYH2u,$xib,$H2y
XORMPYH3,$xia,$H3x; 3
||XORMPYH3u,$xib,$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,$Z1; 5
||AND.DSH01y,$FF000000,$H0z
||SWAP2.LSH01y,SH1y;; SHL$H01y,16,SH1y
||SHL$x0.1,$xib
||SHL$x0.1,$xia

XOR.L$H2x,$Z2,$Z2; 6/0; [0,0] in epilogue
||SHL$Z0.1,$rem;; rem=Z<<1
||SHRMB.SSZ1,$Z0,$Z0;; Z>>=8
||AND.L$H1y,$FF000000,$H1z
XOR.L$H3x,$Z3,$Z3; 7/1
||SHRMB.SSZ2,$Z1,$Z1
||XOR.D$H0z,$Z0,$Z0; merge upper byte products
||AND.S$H2y,$FF000000,$H2z
||XORMPYSE10000,$rem,$res;; implicit rem&0x1FE
XOR.L$H1z,$Z1,$Z1; 8/2
||SHRMB.SSZ3,$Z2,$Z2
||AND.S$H3y,$FF000000,$H3z
XOR.L$H2z,$Z2,$Z2; 9/3
||SHRUS$Z3,8,$Z3
XOR.D$H3z,$Z3,$Z3; 10/4
NOP; 11/5

SPKERNEL 0,2
||XOR.D$res,$Z3,$Z3; 12/6/0; Z^=res

; input pre-fetch is possible where D1 slot is available...
[B0]LDNDW*$({inp}[1]),$H1x:$H0x; 8/-
[B0]LDNDW*$({inp}++[2]),$H3x:$H2x; 9/-
NOP; 10/-
.if LITTLE_ENDIAN
SWAP2$Z0,$Z1; 11/-
||SWAP4$Z1,$Z0
SWAP4SZ1,$Z1; 12/-
||SWAP2SZ0,$Z0
SWAP2SZ2,$Z3
||SWAP4SZ3,$Z2
|||!B0|BNOPRA
SWAP4SZ3,$Z3
||SWAP2SZ2,$Z2
||[B0]|BNOP| ghash_loop?
| [B0]|XORS|H0x,$Z0,$Z0; Xi^=inp
||| [B0]|XORSH1x,$Z1,$Z1
| [B0]|XORSH2x,$Z2,$Z2
||| [B0]|XORSH3x,$Z3,$Z3
||| [B0]|SHRUS|Z1,24,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*${xip}[1]
||| [B0]|SHRUSZ1,16,$x0; Xi[14]
||| [B0]|ZERO$Z1:$Z0
 .else
| [B0]|BNOPRA; 11/-
| [B0]|BNOP|ghash_loop?; 12/-
| [B0]|XORS|H0x,$Z0,$Z0; Xi^=inp
||| [B0]|XORSH1x,$Z1,$Z1
| [B0]|XORSH2x,$Z2,$Z2
||| [B0]|XORSH3x,$Z3,$Z3
||| [B0]|MV$Z0,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*${xip}[1]
||| [B0] SHRUSZ0,8,$x0; Xi[14]
||| [B0]|ZERO$Z1:$Z0
 .endif
STDWSZ3:$Z2,*${xip}[0]
||| [B0]|ZERO$Z3:$Z2
||| [B0]|MV$xia,$x1
| [B0]|ADDK14,$xip
 .endasmfunc

.sect const
.cstring "GHASH for C64x+, CRYPTOGRAMS by <appro\@openssl.org>"*
.align 4
___

print $code;
close STDOUT;

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/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>

This file is part of a free library for the Win32 API.

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# https://www.openssl.org/source/license.html

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

$code.=<<___;
.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
MVK0x2c0,A7; internal clock source, don't hold, go
||MVK-1,A6; maximum period
.else
MVK0x2c0,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
||SHRB4,3,B0; is length >= 8
||ADD1,A4,B6
||B0BNOPRA
||B0SUBB0,1,B2
||ZEROA1
||ZEROB1]
||B2BDECcleanse_loop?,B2
||!B0CMPLT0,B4,A1
||!B0CMPLT1,B4,B1
OPENB5
![B0]CMPLT2,B4,A1
![B0]CMPLT3,B4,B1
![B0]CMPLT4,B4,A1
![B0]CMPLT5,B4,B1
![B0]CMPLT6,B4,A1

cleanse_loop?:
STNDW A3:A2,*A4++
SUBB 4,8,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
[B0]CMPLT4,B0,A1
[B0]CMPLT5,B0,B1
[B0]CMPLT6,B0,A1
.endasmfunc

.if 0
.global _CRYPTO_memcmp
CRYPTO_memcmp:
.asmfunc
MVA6,B0
[B0]BNOPRA
OPENSSL_atomic_add:

.global_OPENSSL_atomic_add

.asmfunc

BNOP atomic_store?:; pre-C64x+ systems are uni-processor, it's
||LDW*A4,B5; enough to hold interrupts off through
; the load-update-store cycle to achieve
; atomicity

NOP

BNOPRA,3; and this branch stretches even over store
ADDB4,B5,B5
atomic_store?:
STWB5,*A4
||MVBA4
.endasmfunc

.global_OPENSSL_wipe_cpu

_OPENSSL_wipe_cpu:

.asmfunc

ZEROA0
||ZEROB0
||ZEROA1
||ZEROB1
ZEROA3:A2
||MVDB0,B2
||ZEROA4
||ZEROB4
||ZEROA5
||ZEROB5
||BNOPRA
ZEROA7:A6
||ZEROB7:B6
||ZEROA8
||ZEROB8
||ZEROA9
||ZEROB9
ZEROA17:A16
||ZEROB17:B16
||ZEROA18
||ZEROB18
||ZEROA19
||ZEROB19
ZEROA21:A20
||ZEROB21:B20
||ZEROA22
||ZEROB22
||ZEROA23
||ZEROB23
ZEROA25:A24
||ZEROB25:B24
||ZEROA26
||ZEROB26
||ZEROA27
||ZEROB27
ZEROA29:A28
||ZEROB29:B28
||ZEROA30
||ZEROB30
||ZEROA31
||ZEROB31
.endasmfunc
CLFLUSH.macro CONTROL, ADDR, LEN
B passthrough?
|| STW ADDR, *CONTROL[0]
STW LEN, *CONTROL[1]
spinlock?:
LDW*CONTROL[1].A0
NOP
passthrough?:
NOP
[A0]BNOP spinlock?, 5
.endm

.global OPENSSL_instrument_bus
.OPENSSL_instrument_bus:
.asmfunc
MV B4, B0; reassign sizeof(output)
|| MVA4, B4; reassign output
|| MK0x00004030, A3
|| MKLTIME_BASE, B16
MV B0, A4; return value
|| MK1, A1
|| MKH0x01840000, A3; L1DWBAR
|| MKHTIME_BASE, B16
LDW*B16[2], B8; collect 1st tick
|| MK0x00004010, A5
NOP
MV B8, B9; lasttick = tick
|| MK0, B7; lastdiff = 0
|| MKH0x01840000, A5; L2WIBAR
CLFLUSH A3, B4, A1; write-back and invalidate L1D line
CLFLUSH A5, B4, A1; write-back and invalidate L2 line
LDW*B4, B5
NOP
ADDB7, B5, B5
STWB5, *B4
bus_loop1?:
LDW*B16[2], B8
|| [B0]SUBB0, 1, B0
NOP
SUBB8, B9, B7; lastdiff = tick - lasttick
|| [BV8, B9; lasttick = tick
CLFLUSH A3, B4, A1; write-back and invalidate L1D line
CLFLUSH A5, B4, A1; write-back and invalidate L2 line
LDW*B4, B5
NOP
ADDB7, B5, B5
STWB5, *B4; [!B1] is removed to flatten samples
|| ADDK4, B4
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|| [B0]BNOP|bus_loop1?,5
BNOP|A5
.endasmfunc

.global _OPENSSL_instrument_bus2
.OPENSSL_instrument_bus2:
.asmfunc
MVA6,B0; reassign max
||MV|B4,A6; reassing sizeof(output)
||MVK0x00004030,A3
||MV|KLTIMER_BASE,B16
MVA4,B4; reassign output
||MVK0,A4; return value
||MV|K1,A1
||MV|K0x01840000,A3; L1DWIBAR
||MV|KHTIMER_BASE,B16

LDW*B16[2],B8; collect 1st tick
||MVK0x00004010,A5
NOP4
MVB8,B9; lasttick = tick
||MV|K0,B7; lastdiff = 0
||MV|K0x01840000,A5; L2WIBAR
CLFLUSHA3,B4,A1; write-back and invalidate L1D line
CLFLUSHA5,B4,A1; write-back and invalidate L2 line
LDW*B4,B5
NOP4
AD|DB7,B5,B5
STW|B5,*B4

LDW*B16[2],B8; collect 1st diff
NOP4
SUBB8,B9,B7; lastdiff = tick - lasttick
||MVB8,B9; lasttick = tick
||SUBB0,1,B0
bus_loop2?:
CLFLUSHA3,B4,A1; write-back and invalidate L1D line
CLFLUSHA5,B4,A1; write-back and invalidate L2 line
LDW*B4,B5
NOP4
AD|DB7,B5,B5
STW|B5,*B4; ['.B1] is removed to flatten samples
||[.'B0]BNOP|bus_loop2_done?,2
||SUBB0,1,B0
LDW*B16[2],B8
NOP4
SUBB8,B9,B8
||MV8,B9
CMPEQB8,B7,B2
||MV8,B7
[!B2]ADDAW4,B1,B4
||[!B2]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;

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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/c64xcpuid.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/cmac/cmac.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/utl/fips_err.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/cmac/cmac.c
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 * 
 * This command is intended as a test driver for the FIPS-140 testing
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 * OpenSSL library ito perform a variety of common cryptographic
 * functions.  A power-up self test is demonstrated by deliberately
 * pointing to an invalid executable hash
 * 
 * Contributed by Steve Marquess.
 * 
 */

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86_64-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/sha256-586.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/sha512-armv8.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/sha512-large.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/ghashv8-armx.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/ghash-parisc.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/ghash-x86_64.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/sha/sha256.c

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#
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
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#
# February 2012
#
# The module implements bn_GF2m_mul_2x2 polynomial multiplication
# used in bn_gf2m.c. It's kind of low-hanging mechanical port from
# C for the time being... The subroutine runs in 37 cycles, which is
# 4.5x faster than compiler-generated code. Though comparison is
# totally unfair, because this module utilizes Galois Field Multiply
# instruction.

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

($rp,$a1,$a0,$b1,$b0)=("A4","B4","A6","B6","A8");   # argument vector
($Alo,$Alox0,$Alox1,$Alox2,$Alox3)=map("A$_",(16..20));
($Ah,$Ahx0,$Ahx1,$Ahx2,$Ahx3)=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)=@_; 
    $code.=<<___;
    EXTUSB,8,24,$B_2; smash $B to 4 bytes
    ||ANDSB,$xFF,$B_0
    ||SHRUSB,24,$B_3
    SHRUSA,16, $Ah; smash $A to two halfwords
    ||EXTUSA,16,16,$Alo

    XORMPY$Alo,$B_2,$Alox2; 16x8 bits multiplication
    ||XORMPY$Ah,$B_2,$Ahix2
    ||EXTUSB,16,24,$B_1
    XORMPY$Alo,$B_0,$Alox0
    ||XORMPY$Ah,$B_0,$Ahix0
    XORMPY$Alo,$B_3,$Alox3
    ||XORMPY$Ah,$B_3,$Ahix3
    XORMPY$Alo,$B_1,$Alox1
    ||XORMPY$Ah,$B_1,$Ahix1
    ___
}

sub mul_1x1_merged {
    my ($OUTlo,$OUThi,$A,$B)=@_; 
    $code.=<<___;
    EXTUSB,8,24,$B_2; smash $B to 4 bytes
    ||ANDSB,$xFF,$B_0
    ||SHRUSB,24,$B_3
    SHRUSA,16, $Ah; smash $A to two halfwords
    ||EXTUSA,16,16,$Alo

    XOR$Ahix0,$Alox2,$Ahix0
    ||MV$Ahix2,$OUThi
    ||XORMPY$Alo,$B_2,$Alox2
    XORMPY$Ah,$B_2,$Ahix2
    ||EXTUSB,16,24,$B_1
    ||XORMPY$Alo,$B_0,$A1; $Alox0
    XOR$Ahix1,$Alox3,$Ahix1
    ||SHLS$Ahix0,16,$OUTlo
    ||SHRUS$Ahix0,16,$Ahix0
    XOR$Alo0,$OUTlo,$OUTlo
    ||XOR$Ahix0,$OUThi,$OUThi
    ||XORMPY$Ah,$B_0,$Ahix0
    ||XORMPY$Alo,$B_3,$Alox3
    ||SHLS$Alo1,8,$Alox1
    ||SHLS$Ahix3,8,$Ahix3
XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix3,$OUThi,$OUThi
|| XORMPY $Ahi,$B_3,$Ahix3
|| SHL $Ahix1,24,$Alox1
|| SHRUS $Ahix1,8,$Ahix1
XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix1,$OUThi,$OUThi
|| XORMPY $Alo,$B_1,$Alox1
|| XORMPY $Ahi,$B_1,$Ahix1
|| MVA1,$Alox0

___
sub mul_1x1_lower {
my ($OUTlo,$OUThi)=@_;
$code.=<<<___;
;NOP
XOR $Ahix0,$Alox2,$Ahix0
|| MV $Ahix2,$OUThi
NOP
XOR $Ahix1,$Alox3,$Ahix1
|| SHLS $Ahix0,16,$OUTlo
|| SHRUS $Ahix0,16,$Ahix0
XOR $Alox0,$OUTlo,$OUTlo
|| XOR $Ahix0,$OUThi,$OUThi
|| SHL $Alox1,8,$Alox1
|| SHL $Ahix3,8,$Ahix3
XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix1,$OUThi,$OUThi
|| SHL $Ahix1,24,$Alox1
|| SHRUS $Ahix1,8,$Ahix1
XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix1,$OUThi,$OUThi

___
}
$code.=<<<___;
.text

.global _bn_GF2m_mul_2x2
_bn_GF2m_mul_2x2:
.asmfunc
MVK 0xFF,$xFF
___
&mullx1_upper($a0,$b0);# a0b0
$code.=<<<___;
|| MVSb1,$B
MV $a1,$A
___
&mullx1_merged(“A28”,“B28”,$A,$B);# a0b0/a1b1
$code.=<<___;
||XOR$b0,$b1,$bB
XOR$a0,$a1,$aA

mul_1x1_merged("A31","B31",$aA,$bB);# a1b1/(a0+a1)(b0+b1)
$code.=<<___;
XORA28,A31,A29
||XORB28,B31,B29; a0b0+a1b1

mul_1x1_lower("A30","B30");# (a0+a1)(b0+b1)
$code.=<<___;
||BNOPB3
XORA29,A30,A30
||XORB29,B30,B30; (a0+a1)(b0+b1)-a0b0-a1b1
XORB28,A30,A30
||STWA28,*${rp}[0]
XORB30,A31,A31
||STWA30,*${rp}[1]
STWA31,*${rp}[2]
STWB31,*${rp}[3]
.endasmfunc

print $code;
close STDOUT;

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/c64xplus-gf2m.pl
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/openssl-fips-2.0.16-tar-gz/openssl-fips-2.0.16/crypto/modes/xts128.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/ecdh/ech_ossl.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/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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*    2.0.16/fips/ecdsa/fips_ecdsa_selftest.c
*    /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/des.h
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#
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#
# 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$_",(16..20, 21..24));
@V = ($A,$B,$C,$D,$E);
@X = map("B$_",(16..31));
($)Actx,$Bctx,$Cctx,$Dctx,$Ectx) = map("A$_",(3,6..9));# zaps $NUM

sub BODY_00_19 {
  my ($i,$a,$b,$c,$d,$e) = @_;
  my $j = ($i+1)&15;
  my $k = ($i+2)&15;
  my $k2 = ($i+4)&15;
  my $k3 = ($i+5)&15;
  my $k4 = ($i+3)&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,$b
  ||SWAP2@X[$i+1],@X[$i+1]
  ||ADD@X[$i],$e,$e; E+=X[$i]
  ADDSARot,$e,$e; E+=rot(A,5)
  ||SWAP4@X[$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[$i]
  ||SWAP2@X[$i+1],@X[$i+1]
  ADDSARot,$e,$e; E+=rot(A,5)
  ||SWAP4@X[$i+1],@X[$i+1]
  ADDSF,$e,$e; E+=F_00_19(B,C,D)
___
$code.=<<___if ($i==15);
  XOR@X[(Sj+2)&15],@X[$j],@X[$j]
  ROTL$a,5,$Arot; $i
  ||ANDSc,$b,$F
  ||ANDNSd,$b,$F0
  ||ADDSK,$e,$e; E+=K
  ||XOR@X[(Sj+8)&15],@X[$j],@X[$j]
  ORSF0,$F,$F; F_00_19(B,C,D)
  ||ROTL$b,30,$b
  ||ADD@X[$i],$e,$e; E+=X[$i]
  ||XOR@X[(Sj+13)&15],@X[$j],@X[$j]
  ADDSARot,$e,$e; E+=rot(A,5)
  | ROTL@X[$j],1,@X[$j]
  ADDSF,$e,$e; E+=F_00_19(B,C,D)
___
$code.=<<___if ($i>15);
  XOR@X[(Sj+2)&15],@X[$j],@X[$j]
  ROTL$a,5,$Arot; $i
  ||ANDSc,$b,$F
  ||ANDNSd,$b,$F0
  ||ADDSK,$e,$e; E+=K
sub BODY_20_39 {
    my ($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,$F
    || ADDSK,Se,Se; E+=K
    || XOR@X[(j+8)&15],@X[$j],@X[$j]
    XORs,DF,$F; F_20_39(B,C,D)
    || ROTL$20,30,$b
    || ADD@X[Si&15],Se,Se; E+=X[i]
    || XOR@X[(j+13)&15],@X[$j],@X[$j]
    ADDSArot,Se,Se; E+=rot(A,5)
    || ROTL@X[$j],1,@@X[$j]
    ADDSF,Se,Se; E+=F_00_19(B,C,D)
    ___

    $code.=<<___
    if ($i==79);
    || [A0]	B	loop?
    || [A0]LDNW*${INP}++,@X[0]; pre-fetch input
    ROTL$a,5,$Arot;; Si
    || XORc,$b,$F
    || ADDSK,Se,Se; E+=K
    || [A0]LDNW*${INP}++,@X[1]
    XORs,DF,$F; F_20_39(B,C,D)
    || ROTL$20,30,$b
    || ADD@X[Si&15],Se,Se; E+=X[i]
    ADDSArot,Se,Se; E+=rot(A,5)
    ADDSF,Se,Se; E+=F_20_39(B,C,D)
    || ADDSBctx,$a,$a; accumulate context
    || ADDSCtx,$b,$b
    ADDSDctx,$c,$c
    || ADDSEctx,$d,$d
    || ADDSActx,Se,Se 
    ;;===== branch to loop? is taken here
    ___
sub BODY_40_59 {
my ($i,$a,$b,$c,$d,$e) = @_;  
my $j = ($i+1)&15;

$code.=<<<<<;
|| XOR@X[(Sj+2)&15],@X[S],@X[S]  
ROTL$a,5,$Ar; $i  
|| AND$e,$b,$F  
|| AND$e,$b,$F0  
|| ADDS$e,$e,$e; E+=K  
|| XOR@X[(Sj+8)&15],@X[S],@X[S]  
XORSF0,$F,$F  
|| AND$e,$d,$F0  
|| ROTL$b,30,$b  
|| XOR@X[(Sj+13)&15],@X[S],@X[S]  
|| ADD@X[S&15],$e,$e; E+=X[i]  
XORSF0,$F,$F; F_40_59(B,C,D)  
|| ADDS$Ar,$e,$e; E+=rot(A,5)  
|| ROTL@X[S],1,@X[S]  
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 $NUM
BNOP RA ; if ($NUM==0) return;
LDW*${CTX}[0],$A ; load A-E...
LDW*${CTX}[1],$B
LDW*${CTX}[2],$C
LDW*${CTX}[3],$D
LDW*${CTX}[4],$E
LDNW*${INP}++,@X[0] ; pre-fetch input
LDNW*${INP}++,@X[1]
NOP3

loop?:
SUBA0,1,A0
MVSA,SActx
MVDSB,SBctx
SWAP2@X[0],@X[0]
MVKL0x5a827999,$K
MVKH0x5a827999,$K; K_00_19
MVSC,SCtx
MVSD,SDctx
MVDSE,SEctx
SWAP4@X[0],@X[0]

___
for ($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); } 
$code.=<<___;
MVKL0x6ed9eba1,$K
MVKH0x6ed9eba1,$K; K_20_39

___
for ($i<40;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); } 
$code.=<<___;
MVKL0x8f1bbcdc,$K
MVKH0x8f1bbcdc,$K; K_40_59

___
for ($i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); } 
$code.=<<___;
MVKL0xca62c1d6,$K
MVKH0xca62c1d6,$K; 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]
STWSD,*${CTX}[3]
STWSE,*${CTX}[4]
.endasmfunc

.sect.const
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/fips/dsa/fips_dsa_selftest.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_hmac_selftest.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/ec/ec_curve.c

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#define FIPS_AUTH_KEY "etaonrishdlcupfm"
#define FIPS_AUTH_CRYPTO_OFFICER "7f92562d409e903322c0f94a1188ae8178339a4f"
#define FIPS_AUTH_CRYPTO_USER "cb6cbdaad26cd210a8b31a5d56a876ee1d51a96c"

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  2.0.16/fips/sha/fips_sha1_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/rand/fips_rand_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/aes/fips_aes_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/des/fips_des_selftest.c
#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
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# ====================================================================
#
# 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";
  $PUSH = "std";
}
$UCMP="compld";
$SHL="sldi";
} elsif ($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/(.*[\s\]{}^\[\]\s]+)/; $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";
$vsrsave="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
.long0x0b000000, 0x0b000000, 0x0b000000, 0x0b000000?rev
.long0x0d0ef0f0c, 0x0d0ef0f0c, 0x0d0ef0f0c, 0x0d0ef0f0c?rev
.long0,0,0,0?asis
Lconsts:
mfldr
bcl20,31;$+4
mfldr$ptr #vvvvv "distance between . and rcon
addi$ptr,$ptr,-0x48
mtlr0
blr
.long0
.byte0,12,0x14,0,0,0,0,0
.asciz"AES for PowerISA 2.07, CRYPTOGRAMS by <appro\@openssl.org>"

.globl${prefix}_set_encrypt_key
.align5
${prefix}_set_encrypt_key:
Lset_encrypt_key:
mflr11
$PUSHr11,SLRSAVE($sp)

li$ptr,-1
$[UCMP]$inp.0
beq-Lenc_key_abort# if ($inp==0) return -1;
$[UCMP]$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,$bits,0x3f
bne-Lenc_key_abort
lisr0,0xff0f
mfspr$vrsave,256
mtspr256,r0
blLconsts
mtlrr11
	negr9,$inp
lvx$in0,0,$inp
addi$inp,$inp,15# 15 is not typo
lvx$key,0,r9# borrow $key
li8,0x20
cmpwi$bits,192
lvx$in1,0,$inp
le?vsplitsb$mask,0x0f# borrow $mask
lvx$scon.0,$ptr
le?vxor$key,$key,$mask# adjust for byte swap
lvx$mask,r8,$ptr
addi$ptr,$ptr,0x10
vperm$in0,$in0,$in1,$key# align [and byte swap in LE]
li$cnt,8
vxor$zero,$zero,$zero
mtctr$cnt

?lvsr$outperm,0,$out
vsplitb$outmask,-1
lvx$outhead,0,$out
?vperm$outmask,$zero,$outmask,$outperm

bltLoop128
addi$inp,$inp,8
beqL192
addi$inp,$inp,8
bL256

.align4
Loop128:
vperm$key,$in0,$in0,$mask# rotate-n-splat
vsldoi$tmp,$zero,$in0,12# >>32
vperm$outtail,$in0,$in0,$outperm# rotate
vsel$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
vcipherlast$key,$key,$rcon
stvx$stage,0,$out
addi$out,$out,16

vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vadduw$m$rcon,$rcon,$rcon
bdnzLoop128

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

vperm$key,$in0,$in0,$mask# rotate-n-splat
vsldoi$tmp,$zero,$in0,12# >>32
vperm$outtail,$in0,$in0,$outperm# rotate
vsel$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
vcipherlast$key,$key,$rcon
stvx$stage,0,$out
addi$out,$out,16

vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vsldoi$tmpl,$zero,$tmpl,12# >>32
vxor$in0,$in0,$tmpl
vadduwms$rcon,$rcon,$tmpl
vxor$in0,$in0,$key

vperm$key,$in0,$in0,$mask# rotate-n-splat
vsldoi$tmpl,$zero,$in0,12# >>32
vperm$outtail,$in0,$in0,$outperm# rotate
vsel$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
vcipherlast$key,$key,$rcon
stvx$stage,0,$out
addi$out,$out,16

vxor$in0,$in0,$tmpl
vsldoi$tmpl,$zero,$tmpl,12# >>32
vxor$in0,$in0,$tmpl
vsldoi$tmpl,$zero,$tmpl,12# >>32
vxor$in0,$in0,$tmpl
vxor$in0,$in0,$key
vperm$outhead,$in0,$in0,$outperm# rotate
vsel$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
stvx$stage,0,$out
addi$in,$in,15# 15 is not typo
addi$out,$out,0x50

li$rounds,10
bLdone

.align4
L192:
lvxtmpl,0,$in
li$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$in1,$in1,$tmpl,$key# align [and byte swap in LE]
vspltisb$key,8# borrow $key
mtctr$cnt
vsububm$mask,$mask,$key# adjust the mask

Loop192:

vperm$key,$in1,$in1,$mask# roate-n-splat
vsldoi$tmpl,$zero,$in0,12# >>32
vcipherlast$key,$key,$rcon

vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp

vsldoi$stage,$zero,$in1,8
vsplitw$tmp,0,3
vxor$tmp,$tmp,$in1
vsldoi$in1,$zero,$in1,12# >>32
vadduwm$rcon,$rcon,$rcon
vxor$in1,$in1,$tmp
vxor$in1,$in1,$key
vxor$in1,$in1,$key
vsldoi$stage,$zero,$in1,8

vperm$key,$in1,$in1,$mask# rotate-n-splat
vsldoi$tmp,$zero,$in0,12# >>32
vperm$outhead,$stage,$stage,$ouperm# rotate
vsel$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
vcipherlast$key,$key,$rcon
stvx$stage,0,$out
addi$Out,$out,16

vsldoi$stage,$in0,$in1,8
vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vperm$outhead,$stage,$stage,$ouperm# rotate
vsel$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
stvx$stage,0,$out
addi$Out,$out,16

vsplitw$tmp,0,3
vxor$tmp,$tmp,$in1
vsldoi$in1,$zero,$in1,12# >>32
vadduwm$rcon,$rcon,$rcon
vxor$in1,$in1,$tmp
vxor$in0,$in0,$key
vxor$in1,$in1,$key
vperm$outhead,$in0,$in0,$ouperm# rotate
vsel$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
stvx$stage,0,$out
addi$inp,$out,15# 15 is not typo
addi$out,$out,16
bdnzLoop192

li$rounds,12
addi$out,$out,0x20
bLdone

.align4
L256:
lvx$tmp,0,$inp
li$cnt,7
li$rounds,14
vperm$outhead,$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,$in0,12# >>32
vperm$outhead,$in1,$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,$out,16
bdzLdone
vspltw$key,$sin0,0,3# just splat
vsldoi$tmp,$zero,$sin1,12# >>32
vsbox$key,$key

vxor$in1,$in1,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in1,$in1,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in1,$in1,$tmp
vxor$in1,$in1,$key
b Loop256

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

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

.globl.$(prefix)_set_decrypt_key
.align5
.$(prefix)_set_decrypt_key:
$STU$sp,-$FRAME($sp)
mflr$10
$PUSH$10,$FRAME+$LRSAVE($sp)
bl$Lset_encrypt_key
mtlr$10
cmpwi$3,0
bne- Ldec_key_abort

slwi$cnt,$rounds,4
subi$inp,$out,240# first round key
srwi$rounds,$rounds,1
add$out,$inp,$cnt# last round key
mtctr$rounds
Ldeckey:
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)
stwr0, 0($out)
stwr6, 4($out)
stwr7, 8($out)
stwr8, 12($out)
subi$out,$out,16
stwr9, -16($inp)
stwr10, -12($inp)
stwr11, -8($inp)
stwr12, -4($inp)
bdnzLdeckey

xor3,r3,r3# return value
Ldec_key_abort:
addi$sp,$sp,$FRAME
blr
.long0
.byte0,12,4,1,0x80,0,3,0
.long0
.size.$(prefix)_set_decrypt_key,.-$.(prefix)_set_decrypt_key

sub gen_block () {
    my $dir = shift;
    my $n   = $dir eq "de" ? "n" : "";
    my ($inp,$out,$key,$rounds,$idx)=map("r$_",(3..7));

    $code.=<<___;
.globl$(prefix)_$(dir)crypt
.align5
$(prefix)_$(dir)crypt:
lw$rounds,240($key)
lisr0,0xfc00
mfspr$vrsave,256
li$idx,15# 15 is not typo
mtspr256,r0

#########################################################################
lvxv0,0,\$inp
neg\$r11,\$out
lvxv1,\$idx,\$inp
lvslv2,0,\$inp\# inpperm
le?vsplitsb,v4,0x0f
?lvslv3,0,\$r11\# outperm
le?vxorv2,v2,v4
li$\$idx,16
vpermv0,v0,v1,v2\# align [and byte swap in LE]
lvxv1,0,\$key
?lvslv5,0,\$key\# keyperm
srwi$rounds,$rounds,1
lvxv2,\$idx,\$key
addi$idx,\$idx,16
subi$rounds,$rounds,1
?vpermv1,v1,v2,v5\# align round key
vxorv0,v0,v1
lvxv1,\$idx,\$key
addi$idx,\$idx,16
mtctr$rounds

Loop_\$\{dir\}c:
?vpermv2,v2,v1,v5
v$\{n\}cipherv0,v0,v2
lvxv2,\$idx,\$key
addi$idx,\$idx,16
?vpermv1,v1,v2,v5
v$\{n\}cipherv0,v0,v1
lvxv1,\$idx,\$key
addi$idx,\$idx,16
bdnzLoop_\$\{dir\}c

?vpermv2,v2,v1,v5
v$\{n\}cipherv0,v0,v2
lvxv2,\$idx,\$key
?vpermv1,v1,v2,v5
v$\{n\}cipherlastv0,v0,v1

vsplitsb,\$v2,-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,$vrsave
blr
.long0
.byte0,12,0x14,0,0,0,3,0
.long0
.size.${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
.align5
${prefix}_cbc_encrypt:

.UCMPi $len,16
bltlr-

cmpwi$enc,# test direction
lisr0,0xffe0
mfspr$vrsave,256
mtspr256,r0

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

lvx$ivec,0,$ivp# load [unaligned] iv
lvsl$inpperm,0,$ivp
lvx$inptail,$idx,$ivp
le?vxor$inpperm,$inpperm,$tmp
vperm$ivec,$ivec,$inptail,$inpperm

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

lvsr$inpperm,0,r11# prepare for unaligned load

}}}
lvx$inptail,0,$inp
addi$inp,$inp,15 # 15 is not typo
le?vxor$inpper,$inpper,$tmp

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

srwi$rounds,$rounds,1
li$idx,16
subi$rounds,$rounds,1
beq$Lcbc_dec

Lcbc_enc:
vmr$inout,$inptail
lvx$inptail,0,$inp
addi$inp,$inp,16
mtctr$rrounds
subi$len,$len,16 # len-=16
lvx$rndkey0,0,$key
?vperm$inout,$inout,$inptail,$inpper
lvx$rndkey1,$idx,$key
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key
addi$idx,$idx,16
vxor$inout,$inout,$ivec
Loop_cbc_enc:
?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$inout,$inout,$rndkey1
lvx$rndkey1,$idx,$key
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key
addi$idx,$idx,16
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 $tmp, $ivec, $ivec, $outperm
vsel $inout, $outhead, $tmp, $outmask
vmr $outhead, $tmp
stvx $inout, 0, $out
addi $out, $out, 16
bge Lcbc_enc

b Lcbc_done

.align 4
Lcbc_dec:
${UCMP} i $len, 128
bge _aesp8_cbc_decrypt8x
vmr $tmp, $inptail
lvx $inptail, 0, $inp
addi $inp, $inp, 16
mtctr $rounds
subi $len, $len, 16 # len-=16

lvx $rndkey0, 0, $key
vperm $tmp, $tmp, $inptail, $inpperm
lvx $rndkey1, $idx, $key
addi $idx, $idx, 16
?vperm $rndkey0, $rndkey0, $rndkey1, $keyperm
vxor $inout, $tmp, $rndkey0
lvx $rndkey0, $idx, $key
addi $idx, $idx, 16
Loop_cbc_dec:
?vperm $rndkey1, $rndkey1, $rndkey0, $keyperm
vcipher $inout, $inout, $rndkey1
lvx $rndkey1, $idx, $key
addi $idx, $idx, 16
?vperm $rndkey0, $rndkey0, $rndkey1, $keyperm
vcipher $inout, $inout, $rndkey0
lvx $rndkey0, $idx, $key
addi $idx, $idx, 16
bdnz Loop_cbc_dec

?vperm $rndkey1, $rndkey1, $rndkey0, $keyperm
vcipher $inout, $inout, $rndkey1
lvx $rndkey1, $idx, $key
li $idx, 16
?vperm $rndkey0, $rndkey0, $rndkey1, $keyperm
vcipherlast $inout, $inout, $rndkey0
vror\$inout,\$inout,\$ivec
vmr\$ivec,\$tmp
vperm\$tmp,\$inout,\$inout,\$outperm
vseil\$inout,\$outhead,\$tmp,\$outmask
vmr\$outhead,\$tmp
stvx\$inout,0,\$out
addi\$out,\$out,16
bgeLcbc_dec

Lcbc_done:
addi\$out,\$out,-1
lvx\$inout,0,\$out# redundant in aligned case
vseil\$inout,\$outhead,\$inout,\$outmask
stvx\$inout,0,\$out

neg\$enc,\$ivp# write [unaligned] iv
li\$idx,15# 15 is not typo
vror\$rndkey0,\$rndkey0,\$rndkey0
vsplitisb\$outmask,-1
le?vsplitisb\$tmp,0x0f
?lvx\$outperm,0,\$enc
?vperm\$outmask,\$rndkey0,\$outmask,\$outperm
le?vxor\$outperm,\$outperm,\$tmp
lvx\$outhead,0,\$ivp
vperm\$ivc,\$ivec,\$ivec,\$outperm
vseil\$inout,\$outhead,\$ivec,\$outmask
lvx\$inptail,\$idx,\$ivp
stvx\$inout,\$ivp
vseil\$inout,\$ivec,\$inptail,\$outmask
stvx\$inout,\$idx,\$ivp

mtspr256,$vrsave
blr
.long0
.byte0,12,0x14,0,0,6,0
.long0

#########################################################################

{{
# Optimized CBC decrypt procedure#
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
$x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7 )=map("v$_",(0..3,10..13));
my (Sout0,Sout1,Sout2,Sout3,Sout4,Sout5,Sout6,Sout7)=map("v$_",(14..21));
my $rndkey0="v23";# v24-v25 rotating buffer for first found keys
# v26-v31 last 6 round keys

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my ($tmp,$keyperm)=($in3,$in4);# aliases with "caller", redundant assignment

$code.=<<___;
.align5
_aesp8_cbc_decrypt8x:
$STU$sp.`(SFRAME+21*16+6*SIZE_T)`($sp)
lir10.`SFRAME+8*16+15`
lir11.`SFRAME+8*16+31`
stvx20,r10,$sp# ABI says so
addr10,r10,32
stvx21,r11,$sp
addr11,r11,32
stvx22,r10,$sp
addr10,r10,32
stvx23,r11,$sp
addr11,r11,32
stvx24,r10,$sp
addr10,r10,32
stvx25,r11,$sp
addr11,r11,32
stvx26,r10,$sp
addr10,r10,32
stvx27,r11,$sp
addr11,r11,32
stvx28,r10,$sp
addr10,r10,32
stvx29,r11,$sp
addr11,r11,32
stvx30,r10,$sp
stvx31,r11,$sp
lir0,-1
stw$vrsave.`SFRAME+21*16-4`($sp)# save vrsave
li$x10,0x10
$PUSHr26.`SFRAME+21*16+0*SIZE_T`($sp)
li$x20,0x20
$PUSHr27.`SFRAME+21*16+1*SIZE_T`($sp)
li$x30,0x30
$PUSHr28.`SFRAME+21*16+2*SIZE_T`($sp)
li$x40,0x40
$PUSHr29.`SFRAME+21*16+3*SIZE_T`($sp)
li$x50,0x50
$PUSHr30.`SFRAME+21*16+4*SIZE_T`($sp)
li$x60,0x60
$PUSHr31.`SFRAME+21*16+5*SIZE_T`($sp)
li$x70,0x70
mtspr256,r0

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

lxx $rmdkey0, $x00, $key  # load key schedule
lxx $30, $x10, $key
addi $key, $key, 0x20
lxx $31, $x00, $key
?vperm $rmdkey0, $rmdkey0, $v30, $keyperm
addi $key_, $sp, $FRAME+15
mtctr $rounds

Load_cbc_dec_key:
?vperm $v24, $v30, $v31, $keyperm
lxx $30, $x10, $key
addi $key, $key, 0x20
stvx $v24, $x00, $key_  # off-load round[1]
?vperm $v25, $v31, $v30, $keyperm
lxx $31, $x00, $key
stvx $v25, $x10, $key_  # off-load round[2]
addi $key_, $key_, 0x20
bdnz Load_cbc_dec_key
lxx $26, $x10, $key
?vperm $v24, $v30, $v31, $keyperm
lxx $27, $x20, $key
stvx $v24, $x00, $key_  # off-load round[3]
?vperm $v25, $v31, $v26, $keyperm
lxx $28, $x30, $key
stvx $v25, $x10, $key_  # off-load round[4]
addi $key_, $sp, $FRAME+15  # rewind $key_
?vperm $v26, $v26, $v27, $keyperm
lxx $29, $x40, $key
?vperm $v27, $v27, $v28, $keyperm
lxx $30, $x50, $key
?vperm $v28, $v28, $v29, $keyperm
lxx $31, $x60, $key
?vperm $v29, $v29, $v30, $keyperm
lxx $out0, $x70, $key# borrow $out0
?vperm $v30, $v30, $v31, $keyperm
lxx $24, $x00, $key_  # pre-load round[1]
?vperm $v31, $out0, $keyperm
lxx $25, $x10, $key_  # pre-load round[2]

#lxx $inptail, 0, $inp  # caller already did this
#addi $inp, $inp, 15  # 15 is not typo
subi $inp, $inp, 15  # undo "caller"
le?li $idx, 8
lxx_u $in0, $x00, $inp# load first 8 "words"
le?lvs$inpperm,0,$idx
le?vsplitisb$tmpl,0x0f
lvx_u$in1,$x10,$inp
le?vxor$inpperm,$inpperm,$tmpl	# 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$round
bLoop_cbc_dec8x
.align5
Loop_cbc_dec8x:
vncipher$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,$out7,v24
lvx24,$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
vncipher\$out5,\$out5,v25
vncipher\$out6,\$out6,v25
vncipher\$out7,\$out7,v25
\lvx25,\$x10,\$key_ # round[4]
\bdnz\Loop_cbc_dec8x

\subic\$len,\$len,128# \$len-=128
vncipher\$out0,\$out0,v24
vncipher\$out1,\$out1,v24
vncipher\$out2,\$out2,v24
vncipher\$out3,\$out3,v24
vncipher\$out4,\$out4,v24
vncipher\$out5,\$out5,v24
vncipher\$out6,\$out6,v24
vncipher\$out7,\$out7,v24

\subfe.r0,r0,r0# borrow?-1:0
vncipher\$out0,\$out0,v25
vncipher\$out1,\$out1,v25
vncipher\$out2,\$out2,v25
vncipher\$out3,\$out3,v25
vncipher\$out4,\$out4,v25
vncipher\$out5,\$out5,v25
vncipher\$out6,\$out6,v25
vncipher\$out7,\$out7,v25

\andr0,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$skey, $sp, $FRAME+15 # rewind $key_

vncipher$sout0, $out0, v28
vncipher$sout1, $out1, v28
vncipher$sout2, $out2, v28
vncipher$sout3, $out3, v28
vncipher$sout4, $out4, v28
vncipher$sout5, $out5, v28
vncipher$sout6, $out6, v28
vncipher$sout7, $out7, v28
lvxx 24, $x00, $key_ # re-pre-load round[1]

vncipher$sout0, $out0, v29
vncipher$sout1, $out1, v29
vncipher$sout2, $out2, v29
vncipher$sout3, $out3, v29
vncipher$sout4, $out4, v29
vncipher$sout5, $out5, v29
vncipher$sout6, $out6, v29
vncipher$sout7, $out7, v29
lvxx 25, $x10, $key_ # re-pre-load round[2]

vncipher$sout0, $out0, v30
vxor$sivec, $sivec, v31 # xor with last round key
vncipher$sout1, $out1, v30
vxor$sin0, $sino, v31
vncipher$sout2, $out2, v30
vxor$sin1, $sin1, v31
vncipher$sout3, $out3, v30
vxor$sin2, $sin2, v31
vncipher$sout4, $out4, v30
vxor$sin3, $sin3, v31
vncipher$sout5, $out5, v30
vxor$sin4, $sin4, v31
vncipher$sout6, $out6, v30
vxor$sin5, $sin5, v31
vncipher$sout7, $out7, v30
vxor$sin6, $sin6, v31

vncipherlast$sout0, $out0, $sivec
vncipherlast$sout1, $out1, $sin0
lvx_u$sin0, $x00, $sino # load next input block
vncipherlast$sout2, $out2, $sin1
lvx_u$sin1, $x10, $sino
vncipherlast$sout3, $out3, $sin2
le?vperm$sin0, $sin0, $sino, $sino, $sino
lvx_u$sin2, $x20, $sino
vncipherlast$sout4, $out4, $sin3
le?vperm\$in1,$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
beqLoop_cbc_dec8x# did $len-=128 borrow?

addi$len,$len,128
beq Lcbc_dec8x_done
nop
nenp

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, $out7, v24
lvx24,$x20,$key_ # round[3]
add $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, $out7, v25
lvx25,$x10,$key_ # round[4]
bdnz Loop_cbc_dec8x_tail

vncipher $out1, $out1, v24
vncipher $out2, $out2, v24
vncipher $out3, $out3, v24
vncipher $out4, $out4, v24
vncipher $out5, $out5, v24
vncipher $out6, $out6, v24
vncipher $out7, $out7, v24

vncipher $out1, $out1, v25
vncipher $out2, $out2, v25
vncipher $out3, $out3, v25
vncipher $out4, $out4, v25
vncipher $out5, $out5, v25
vncipher $out6, $out6, v25
vncipher $out7, $out7, v25

vncipher $out1, $out1, v26
vncipher $out2, $out2, v26
vncipher $out3, $out3, v26
vncipher $out4, $out4, v26
vncipher $out5, $out5, v26
vncipher $out6, $out6, v26
vncipher $out7, $out7, v26
vncipher\$out1,\$out1,v27
vncipher\$out2,\$out2,v27
vncipher\$out3,\$out3,v27
vncipher\$out4,\$out4,v27
vncipher\$out5,\$out5,v27
vncipher\$out6,\$out6,v27
vncipher\$out7,\$out7,v27

vncipher\$out1,\$out1,v28
vncipher\$out2,\$out2,v28
vncipher\$out3,\$out3,v28
vncipher\$out4,\$out4,v28
vncipher\$out5,\$out5,v28
vncipher\$out6,\$out6,v28
vncipher\$out7,\$out7,v28

vncipher\$out1,\$out1,v29
vncipher\$out2,\$out2,v29
vncipher\$out3,\$out3,v29
vncipher\$out4,\$out4,v29
vncipher\$out5,\$out5,v29
vncipher\$out6,\$out6,v29
vncipher\$out7,\$out7,v29

vncipher\$out1,\$out1,v30
vxor\$ivec,\$ivec,v31# last round key
vncipher\$out2,\$out2,v30
vxor\$in1,\$in1,v31
vncipher\$out3,\$out3,v30
vxor\$in2,\$in2,v31
vncipher\$out4,\$out4,v30
vxor\$in3,\$in3,v31
vncipher\$out5,\$out5,v30
vxor\$in4,\$in4,v31
vncipher\$out6,\$out6,v30
vxor\$in5,\$in5,v31
vncipher\$out7,\$out7,v30
vxor\$in6,\$in6,v31

cmplwi\$len,32# switch($len)
bltLcbc_dec8x_one
nop
beqLcbc_dec8x_two
cmplwi\$len,64
bltLcbc_dec8x_three
nop
beqLcbc_dec8x_four
cmplwi $len, 96
btl Lcbc_dec8x_five
nop
beq Lcbc_dec8x_six

Lcbc_dec8x_seven:
vncipherlast $out1, $out1, $ivec
vncipherlast $out2, $out2, $in1
vncipherlast $out3, $out3, $in2
vncipherlast $out4, $out4, $in3
vncipherlast $out5, $out5, $in4
vncipherlast $out6, $out6, $in5
vncipherlast $out7, $out7, $in6
vmr $ivec, $in7
le?vperm $out1, $out1, $out1, $inperm
le?vperm $out2, $out2, $out2, $inperm
stvx_u $out1, $x00, $out
le?vperm $out3, $out3, $out3, $inperm
stvx_u $out2, $x10, $out
le?vperm $out4, $out4, $out4, $inperm
stvx_u $out3, $x20, $out
le?vperm $out5, $out5, $out5, $inperm
stvx_u $out4, $x30, $out
le?vperm $out6, $out6, $out6, $inperm
stvx_u $out5, $x40, $out
le?vperm $out7, $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, $inperm
le?vperm $out3, $out3, $out3, $inperm
stvx_u $out2, $x00, $out
le?vperm $out4, $out4, $out4, $inperm
stvx_u $out3, $x10, $out
le?vperm $out5, $out5, $out5, $inperm
stvx_u$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_u$out4,$x00,$out
le?vperm$out6,$out6,$out6,$inpperm
stvx_u$out5,$x10,$out
le?vperm$out7,$out7,$out7,$inpperm
stvx_u$out6,$x20,$out
stvx_u$out7,$x30,$out
addi$out,$out,0x40
bLcbc_dec8x_done

.align5
Lcbc_dec8x_three:
vncipherlast$out5,$out5,$ivec
vncipherlast$out6,$out6,$in5
vncipherlast$out7,$out7,$in6
vmr$ivec,$in7

le?vperm$out5,$out5,$out5,$inperm
le?vperm$out6,$out6,$out6,$inperm
stvx_u$out5,$x00,$out
le?vperm$out7,$out7,$out7,$inperm
stvx_u$out6,$x10,$out
stvx_u$out7,$x20,$out
addi$out,$out,0x30
bLcbc_dec8x_done

.align5
Lcbc_dec8x_two:
vncipherlast$out6,$out6,$ivec
vncipherlast$out7,$out7,$in6
vmr$ivec,$in7

le?vperm$out6,$out6,$out6,$inperm
le?vperm$out7,$out7,$out7,$inperm
stvx_u$out6,$x00,$out
stvx_u$out7,$x10,$out
addi$out,$out,0x20
bLcbc_dec8x_done

.align5
Lcbc_dec8x_one:
vncipherlast$out7,$out7,$ivec
vmr$ivec,$in7

le?vperm$out7,$out7,$out7,$inperm
stvx_u$out7,0,$out
addi$out,$out,0x10

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

li r10,`$FRAME+15`
li r11,`$FRAME+31`
stvx$inperm,r10,$sp# wipe copies of round keys
addr10,r10,32
stvx $inpperm, r11, $sp
addi r11, r11, 32
stvx $inpperm, r10, $sp
addi r10, r10, 32
stvx $inpperm, r11, $sp
addi r11, r11, 32
stvx $inpperm, r10, $sp
addi r10, r10, 32
stvx $inpperm, r11, $sp
addi r11, r11, 32
stvx $inpperm, r10, $sp
addi r10, r10, 32
stvx $inpperm, r11, $sp
addi r11, r11, 32

mtspr 256, $vrsave
lvx v20, r10, $sp # ABI says so
addi r10, r10, 32
lvx v21, r11, $sp
addi r11, r11, 32
lvx v22, r10, $sp
addi r10, r10, 32
lvx v23, r11, $sp
addi r11, r11, 32
lvx v24, r10, $sp
addi r10, r10, 32
lvx v25, r11, $sp
addi r11, r11, 32
lvx v26, r10, $sp
addi r10, r10, 32
lvx v27, r11, $sp
addi r11, r11, 32
lvx v28, r10, $sp
addi r10, r10, 32
lvx v29, r11, $sp
addi r11, r11, 32
lvx v30, r10, $sp
lvx v31, r11, $sp
$SPOP 26, $FRAME+21*16+0*$SIZE_T ($sp)
$SPOP 27, $FRAME+21*16+1*$SIZE_T ($sp)
$SPOP 28, $FRAME+21*16+2*$SIZE_T ($sp)
$SPOP 29, $FRAME+21*16+3*$SIZE_T ($sp)
$SPOP 30, $FRAME+21*16+4*$SIZE_T ($sp)
$SPOP 31, $FRAME+21*16+5*$SIZE_T ($sp)
addi $sp, $sp, $FRAME+21*16+6*$SIZE_T
blr
.long 0
.byte 0, 12, 0x04, 0, 0x80, 6, 6, 0
.long 0
.size ${prefix}_cbc_encrypt,-.${prefix}_cbc_encrypt

#########################################################################
{
{# CTR procedure[s]#
my ($inp,$out,$len,$key,$ivp,$x10,$rounds,$idx)=map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout,$tmp)=map("v$_",(0..3));
my ($ivec,$inptail,$inpperm,$outhead,$outperm,$outmask,$keyperm,$one)=
map("v$_",(4..11));
my $dat=$tmp;

$code.=<<___;
.globl ${prefix}_ctr32_encrypt_blocks
.align 5
${prefix}_ctr32_encrypt_blocks:
${UCMP}i $len,1
bltlr-
li$r0,0xfff0
mfspr$vrsave,256
mtspr256,r0

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

lvx$ivec,0,$ivp# load [unaligned] iv
lvsl$inpperm,0,$ivp
lvx$inptail,$idx,$ivp
vxpltisb$one,1
le?vxor$inpperm,$inpperm,$tmp
vperm$ivec,$ivec,$inptail,$inpperm
vsldoi$one,$rndkey0,$one,1

neg11,$inp
?lvsl$keyperm,0,$key# prepare for unaligned key
lwz$rounds,240($key)

lv$sinpperm,0,r11# prepare for unaligned load
lvx$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_aes8_ctr32_encrypt8x

?lv$r$len,8,
$vslr$outperm,0,$outperm
$vsplitisb$outmask,-1
lvx$outhead,0,$out
$vperm$outmask,$rndkey0,$outmask,$outperm
le?$xor$outperm,$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
bLoop_ctr32_enc
.align
5
Loop_ctr32_enc:
$vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
$vcipher$inout,$inout,$rndkey1
lvx$rndkey1,$idx,$key
addi$idx,$idx,16
$vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
$vcipher$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key
addi$idx,$idx,16
bdnzLoop_ctr32_enc

$vadduwm$ivec,$ivec,$one
$vmr$dat,$inptail
lvx$inptail,0,$inp
addi$inp,$inp,16
subic.$len,$len,1# blocks--

$vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
$vcipher$inout,$inout,$rndkey1
lvx$rndkey1,$idx,$key
$vperm$dat,$dat,$inptail,$inpperm
li$idx,16
$vperm$rndkey1,$rndkey0,$rndkey1,$keyperm
lvx$rndkey0,0,$key
$vxor$dat,$dat,$rndkey1# last round key
$vcipherlast$inout,$inout,$dat

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lvx $r1x, $idx, $key
addi $idx, $idx, 16
vperm $inout, $inout, $inout, $outperm
vsel $dat, $outhead, $inout, $inmask
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, $inmask
stvx $inout, 0, $out

mtspr256, $vrsave
blr
.long 0
.byte 0, 12, 0x14, 0, 0, 0, 6, 0
.long

#########################################################################
{# 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
my $tmp=$rndkey0; # aliases with "caller", redundant assignment
my ($two, $three, $four) = ($outhead, $outperm, $outmask);

$code.=<<___;
.align5
_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
stvx22, 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
addi r10, r10, 32
stvx v31, r11, $sp
li r0, -1
stw vrsave,'$FRAME+21*16-4'($sp)# save vrsave
li$x10,0x10
$PUSH r26,'$FRAME+21*16+0*$SIZE_T'($sp)
li$x20,0x20
$PUSH r27,'$FRAME+21*16+1*$SIZE_T'($sp)
li$x30,0x30
$PUSH r28,'$FRAME+21*16+2*$SIZE_T'($sp)
li$x40,0x40
$PUSH r29,'$FRAME+21*16+3*$SIZE_T'($sp)
li$x50,0x50
$PUSH r30,'$FRAME+21*16+4*$SIZE_T'($sp)
li$x60,0x60
$PUSH r31,'$FRAME+21*16+5*$SIZE_T'($sp)
li$x70,0x70
mtspr 256,r0

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

lvx $srdkey0,$x00,$key# load key schedule
lvx 30,$x10,$key
addi $key,$key,0x20
lvx 31,$x00,$key
?vperm $srdkey0,$srdkey0,v30,$keyperm
addi $key_,$sp,$FRAME+15
mtctr $rounds

Load_ctr32_enc_key:
?vpermv24,v30,v31,$keyperm
lvx 30,$x10,$key
addi $key,$key,0x20
stvx24,$x00,$key_
?vperm25,v31,v30,$keyperm
lvx31,$x00,$key
stvx25,$x10,$key_
addi$key_,$key_,0x20
bdnzLoad_ctr32_enc_key

lvx26,$x10,$key
?vperm24,v30,v31,$keyperm
lvx27,$x20,$key
stvx24,$x00,$key_
?vperm25,v31,v26,$keyperm
lvx28,$x30,$key
stvx25,$x10,$key_
addi$key_,$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,$keyperm
lvx$sout0,$x70,$key # borrow $out0
?vperm30,v30,v31,$keyperm
lvx24,$x00,$key_
pre-load round[1]
?vperm31,v31,$sout0,$keyperm
lvx25,$x10,$key_
pre-load round[2]

vadduwm$two,$one,$one
subi$inp,$inp,15	# undo "caller"
$SHL$len,$len,4

vadduwm$sout1,$ivec,$one # counter values ...
vadduwm$sout2,$ivec,$two
vxor$sout0,$ivec,$rndkey0# ... xored with rndkey[0]
le?lidx,8
vadduwm$sout3,$out1,$two
vxor$sout1,$out1,$rndkey0
le?lvx$lperm,0,$idx
vadduwm$sout4,$out2,$two
vxor$sout2,$out2,$rndkey0
le?vsplisb$tmp,0x0f
vadduwm$sout5,$out3,$two
vxor$sout3,$out3,$rndkey0
le?vxor$permperm,$permperm,$tmp# transform for lvx_u/stvx_u
vadduwm$sout6,$out4,$two
vxor$sout4,$out4,$rndkey0
vadduwm$sout7,$out5,$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:
lvx24,\$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
lvx25,\$x10,\$key\_# round[4]
bdnz\Loop_\_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

subfer0,r0,r0# borrow? 1:0
vcipher \$out0,\$out0,v24
vcipher \$out1,\$out1,v25
vcipher \$out2,\$out2,v25
vcipher \$out3,\$out3,v25
vcipher \$out4,\$out4,v25
vcipher\$out5,\$out5,\$v25
vcipher\$out6,\$out6,\$v25
vcipher\$out7,\$out7,\$v25

and\r0,\r0,\r11
addi\$key_,\$sp,\$FRAME+15\# rewind \$key_
vcipher\$out0,\$out0,\$v26
vcipher\$out1,\$out1,\$v26
vcipher\$out2,\$out2,\$v26
vcipher\$out3,\$out3,\$v26
vcipher\$out4,\$out4,\$v26
vcipher\$out5,\$out5,\$v26
vcipher\$out6,\$out6,\$v26
vcipher\$out7,\$out7,\$v26
lvx\v24,\$x00,\$key_\# re-pre-load round[1]
subic\$len,\$len,129\# \$len-=129
addi\$len,\$len,1\# \$len-=128 really
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
lvx\v25,\$x10,\$key_\# re-pre-load round[2]

vcipher\$out0,\$out0,\$v28
lvx_u\$in0,\$x00,\$inp\# load input
vcipher\$out1,\$out1,\$v28
lvx_u\$in1,\$x10,\$inp
vcipher\$out2,\$out2,\$v28
lvx_u\$in2,\$x20,\$inp
vcipher\$out3,\$out3,\$v28
lvx_u\$in3,\$x30,\$inp
vcipher\$out4,\$out4,\$v28
lvx_u\$in4,\$x40,\$inp
vcipher\$out5,\$out5,\$v28
lvx_u\$in5,\$x50,\$inp
vcipher\$out6,\$out6,\$v28
lvx_u\$in6,\$x60,\$inp
vcipher\$out7,\$out7,\$v28
lvx_u\$in7,\$x70,\$inp
addi\$inp,\$inp,0x80

vcipher\$out0,\$out0,\$v29
le?vperm\$in0,\$in0,\$in0,\$inpperm
vcipher$out1,$out1,v29
le?vperm$in1,$in1,$in1,$inpperm
vcipher$out2,$out2,v29
le?vperm$in2,$in2,$in2,$inpperm
vcipher$out3,$out3,v29
le?vperm$in3,$in3,$in3,$inpperm
vcipher$out4,$out4,v29
le?vperm$in4,$in4,$in4,$inpperm
vcipher$out5,$out5,v29
le?vperm$in5,$in5,$in5,$inpperm
vcipher$out6,$out6,v29
le?vperm$in6,$in6,$in6,$inpperm
vcipher$out7,$out7,v29
le?vperm$in7,$in7,$in7,$inpperm

add$inp,$inp,r0	# $inp is adjusted in such
# way that at exit from the
# loop inX-in7 are loaded
# with last "words"
subfe.r0,r0,r0# borrow?-1:0
vcipher$out0,$out0,v30
vxor$in0,$in0,v31# xor with last round key
vcipher$out1,$out1,v30
vxor$in1,$in1,v31
vcipher$out2,$out2,v30
vxor$in2,$in2,v31
vcipher$out3,$out3,v30
vxor$in3,$in3,v31
vcipher$out4,$out4,v30
vxor$in4,$in4,v31
vcipher$out5,$out5,v30
vxor$in5,$in5,v31
vcipher$out6,$out6,v30
vxor$in6,$in6,v31
vcipher$out7,$out7,v30
vxor$in7,$in7,v31

bneLctr32_enc8x_break# did $len-129 borrow?

vcipherlast$in0,$out0,$in0
vcipherlast$in1,$out1,$in1
vadduwm$out1,$ivec,$one# counter values ...
vadduwm$out2,$out2,$in2
vcipherlast$in2,$out2,$two
vxor$out0,$ivec,$rndkey0# ... xored with rndkey[0]
vcipherlast$in3,$out3,$in3
vadduwm$out3,$out3,$two
vxor$out1,$out1,$rndkey0
vcipherlast $in4,$out4,$in4
vadduwm $out4,$out2,$two
vxor $out2,$out2,$rndkey0
vcipherlast $in5,$out5,$in5
vadduwm $out5,$out3,$two
vxor $out3,$out3,$rndkey0
vcipherlast $in6,$out6,$in6
vadduwm $out6,$out4,$two
vxor $out4,$out4,$rndkey0
vcipherlast $in7,$out7,$in7
vadduwm $out7,$out5,$two
vxor $out5,$out5,$rndkey0
le?vperm $in0,$in0,$in0,$inpperm
vadduwm $ivec,$out6,$two
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, $in0, $inperm
le?vperm $out1, $out1, $in1, $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
b Lctr32_enc8x_done

.align 5
Lctr32_enc8x_seven:
vcipherlast $out0, $out0, $in1
vcipherlast $out1, $out1, $in2
vcipherlast $out2, $out2, $in3
vcipherlast\$out3,$out3,$sin4
vcipherlast\$out4,$out4,$sin5
vcipherlast\$out5,$out5,$sin6
vcipherlast\$out6,$out6,$sin7

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

.align5
Lctr32_enc8x_six:
vcipherlast\$out0,$out0,$sin2
vcipherlast\$out1,$out1,$sin3
vcipherlast\$out2,$out2,$sin4
vcipherlast\$out3,$out3,$sin5
vcipherlast\$out4,$out4,$sin6
vcipherlast\$out5,$out5,$sin7

le?vperm\$out0,$out0,$out0,$sinperm
le?vperm\$out1,$out1,$out1,$sinperm
stvx_u\$out0,$x00,$out
le?vperm\$out2,$out2,$out2,$sinperm
stvx_u\$out1,$x10,$out
le?vperm\$out3,$out3,$out3,$sinperm
stvx_u\$out2,$x20,$out
le?vperm\$out4,$out4,$out4,$sinperm
stvx_u\$out3,$x30,$out
le?vperm\$out5,$out5,$out5,$sinperm
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,$out0,$inpperm
gle?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
stvx_u $out4,$x40,$out
addi $out,$out,0x50
b Lctr32_enc8x_done

.align 5
Lctr32_enc8x_four:
vcipherlast $out0,$out0,$in4
vcipherlast $out1,$out1,$in5
vcipherlast $out2,$out2,$in6
vcipherlast $out3,$out3,$in7

le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
stvx_u $out3,$x30,$out
addi $out,$out,0x40
b Lctr32_enc8x_done

.align 5
Lctr32_enc8x_three:
vcipherlast $out0,$out0,$in5
vcipherlast $out1,$out1,$in6
vcipherlast $out2,$out2,$in7

le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
```

stvx_u $out2, $x20, $out
addi $out, $out, 0x30
b Lcbc_dec8x_done

.align 5
Lctr32_enc8x_two:
vcipherlast $out0, $out0, $in6
vcipherlast $out1, $out1, $in7

le?vperm $out0, $out0, $out0, $inperm
le?vperm $out1, $out1, $out1, $inperm
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, $inperm
stvx_u $out0, 0, $out
addi $out, $out, 0x10

Lctr32_enc8x_done:
li r10, `$FRAME+15`
li r11, `$FRAME+31`
stvx $inpperm, r10, $sp # wipe copies of round keys
addi r10, r10, 32
stvx $inpperm, r11, $sp
addi r11, r11, 32
stvx $inpperm, r10, $sp
addi r10, r10, 32
stvx $inpperm, r11, $sp
addi r11, r11, 32
stvx $inpperm, r10, $sp
addi r10, r10, 32
stvx $inpperm, r11, $sp
addi r11, r11, 32
stvx $inpperm, r10, $sp
addi r10, r10, 32
stvx $inpperm, r11, $sp
addi r11, r11, 32
mtspr 256, $vrsave
lvxv20, r10, $sp # ABI says so
addi r10, r10, 32
lvxv21, r11, $sp

```
mr$inp,r3 # reassign
lir3,-1
${UCMP}ji$len,16
bltlr-
li$s0,0xffff
mfspr12,256 # save vrsave
lir11,0
mtspr256,r0

vspltsb$seven,0x07 # 0x070707..07
le?lvs$l(eperm,r11,r11
le?vsplit$tmpl,0x0f
le?vxor$leperm,$leperm,$seven

li$idx,15
lvx$tweak,0,$ivp # load [unaligned] iv
lvs$linpperm,0,$ivp
lvx$inptail,$idx,$ivp
le?vxor$inpperm,$inpperm,$tmpl
vperm$tweak,$tweak,$inptail,$inpperm

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

neg$r11,$inp
lvs$inpperm,0,r11 # prepare for unaligned load
lvx$inout,0,$inp
addi$inp,$inp,15 # is not typo
le?vxor$inpperm,$inpperm,$tmpl

lvx$srndkey0,0,$key2
lvx$srndkey1,$idx,$key2
addi$idx,$idx,16
?vperm$srndkey0,$srndkey0,$srndkey1,$keypermvxor$tweak,$tweak,$srndkey0
lvx$srndkey0,$idx,$key2
addi$idx,$idx,16
mtctr$rounds

Ltweak_xts_enc:
?vperm$srndkey1,$srndkey1,$srndkey0,$keypermvcipher$tweak,$tweak,$srndkey1
lvx$srndkey1,$idx,$key2
addi$idx,$idx,16

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?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher$tweak,$tweak,$rndkey0
lvx$rndkey0,$idx,$key2
addi$idx,$idx,16
bdnz$tweak_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
addi$inp,$inp,16

?vls$kkeyperm,0,$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
vsplitb$tmp,1# 0x010101..01
vsldoi$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
subf$r0,r0,r0
and$r0,r0,$taillen
addi$inp,$inp,$r0

lvx$rndkey0,0,$key1
lvx$rndkey1,$idx,$key1
addi$idx,$idx,16
vperm$inout,$inout,$inptail,$inpperm
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$inout,$inout,$tweak
vxor$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key1
addi$idx,$idx,16
mtctr$rounds
bLoop_xts_enc
.align 5
Loop_xts_enc:
	?vperm $rndkey1, $rndkey1, $rndkey0, $keyperm
	vcipher $inout, $inout, $rndkey1
	lvx $rndkey1, $idx, $key1
	addi $idx, $idx, 16
	?vperm $rndkey0, $rndkey0, $rndkey1, $keyperm
	vcipher $inout, $inout, $rndkey0
	lvx $rndkey0, $idx, $key1
	addi $idx, $idx, 16
	bdnz Loop_xts_enc

	?vperm $rndkey1, $rndkey1, $rndkey0, $keyperm
	vcipher $inout, $inout, $rndkey1
	lvx $rndkey1, $idx, $key1
	li $idx, 16
	?vperm $rndkey0, $rndkey0, $rndkey1, $keyperm
	vxor $rndkey0, $rndkey0, $tweak
	vcipherlast $output, $inout, $rndkey0

	le?vperm $tmp, $output, $output, $leperm
	be?nop
	le?stvx_u $tmp, 0, $out
	be?stvx_u $output, 0, $out
	addi $out, $out, 16

	subic. $len, $len, 16
	beq Lxts_enc_done

	vmr $inout, $inptail
	lvx $inptail, 0, $inp
	addi $inp, $inp, 16
	lvx $rndkey0, 0, $key1
	lvx $rndkey1, $idx, $key1
	addi $idx, $idx, 16

	subic r0, $len, 32
	subfer r0, r0
	and r0, r0, $taillen
	addi $inp, $inp, r0

	auvsrb $tmp, $tweak, $seven # next tweak value
	vaddubm $tweak, $tweak, $tweak
	vsldoi $tmp, $tmp, $tmp, 15
	vand $tmp, $tmp, $eighty7
	vxor $tweak, $tweak, $tmp
vperm$inout,$inout,$inptail,$inpperm
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$inout,$inout,$tweak
vxor$output,$output,$rndkey0# just in case $len<16
vxor$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key1
addi$idx,$idx,16

mtctr$rounds
${UCMP}i$ilen,16
bgeLoop_xts_enc

vxor$output,$output,$tweak
lvx$inpperm,0,$len# $inpperm is no longer needed
vxor$inptail,$inptail,$inptail# $inptail is no longer needed
vspltisb$tmpr,-1
vperm$inptail,$inptail,$tmpr,$inpperm
vsel$inout,$inout,$output,$inptail

subi11,$out,17
sbi$out,$out,16
mtctr$len
li$ilen,16
Loop_xts_enc_steal:
lzur0,1(r11)
str0,16(r11)
bdnzLoop_xts_enc_steal

mtctr$rounds
bLoop_xts_enc# one more time...

Lxts_enc_done:
mtspr256,r12# restore vrsave
li3,0
blr
.long0
.byte0,12,0x04,0,0x80,6,6,0
.long0
.size.${prefix}_xts_encrypt...-${prefix}_xts_encrypt

.globl${prefix}_xts_decrypt
.align5
${prefix}_xts_decrypt:
mr$inp,r3# reassign
li3,-1
${UCMP}i$ilen,16
blir-
lisr0.0xfff8
mfspr r12,256 # save vrsave
lir11,0
mtspr256,r0

andi.r0,$len,15
neg r0,r0
andi.r0,r0,16
sub$len,$len,r0

vsplitsb$seven,0x07# 0x070707..07
le!lvs$leperm,r11,r11
le!vsplitsb$tmp,0x0f
le!vxors$leperm,$leperm,$seven

li$idx,15
lvx$tweak,0,$ivp# load [unaligned] iv
lvs$inpperm,0,$ivp
lvx$inptail,$idx,$ivp
le!vxor$inpperm,$inpperm,$tmp
vperm$tweak,$tweak,$inptail,$inpperm

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

neg r11,$inp
lvs$inpperm,0,r11# prepare for unaligned load
lvx$inout,0,$inp
addi$inp,$inp,15# 15 is not typo
le!vxor$inpperm,$inpperm,$tmp

lvx$rndkey0,0,$key2
lvx$rndkey1,$idx,$key2
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$tweak,$tweak,$rndkey0
lvx$rndkey0,$idx,$key2
addi$idx,$idx,16
mtctr$rounds

Ltweak_xts_dec:
?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$tweak,$tweak,$rndkey1
lvx$rndkey1,$idx,$key2
addi$idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $tweak,$tweak,$rndkey0
lvx $rndkey0,$idx,$key2
addi $idx,$idx,16
bdnz $tweak_xts_dec

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $tweak,$tweak,$rndkey1
lvx $rndkey1,$idx,$key2
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipherlast $tweak,$tweak,$rndkey0
lvx $inptail,0,$inp
addi $inp,$inp,16

?vls $keyperm,0,$key1 # prepare for unaligned key
lwz $rounds,240($key1)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16
vslb $eighty7,$seven,$seven # 0x808080..80
vor $eighty7,$eighty7,$seven # 0x878787..87
vspltisb $tmp,1 # 0x010101..01
vsldoi $eighty7,$eighty7,$tmp,15 # 0x870101..01

${UCMP}i $len,96
bge_aesp8_xts_decrypt6x

lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
?vperm $inout,$inout,$inptail,$inperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$tweak
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
mtctr $rounds

${UCMP}i $len,16
blt_tail_xts_dec
be?b Loop_xts_dec

.align 5
Loop_xts_dec:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher$inout,$inout,$rndkey1
lvx$rndkey1,$idx,$key1
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key1
addi$idx,$idx,16
bdnz Loop_xts_dec

?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher$inout,$inout,$rndkey1
lvx$rndkey1,$idx,$key1
li$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$rndkey0,$rndkey0,$tweak
vncipherlast$output,$inout,$rndkey0

le?vperm$tmpl,$output,$output,$leperm
be?nop
le?stvx_u$tmpl,0,$out
be?stvx_u$output,0,$out
addi$output,$out,16

ubic.$len,$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,$idx,16
vssrab$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$inout,$inout,$tweak
vxor$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key1
addi$idx,$idx,16

mtctr$rounds
${UCMP}$len,16
bgeLoop_xts_dec

L.tail_xts_dec:
vsrab$tmp,$tweak,$seven# next tweak value
vaddubm$tweak1,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
vand$tmp,$tmp,$eighty7
vxor$tweak1,$tweak1,$tmp

subi$sinp,$inp,16
add$sinp,$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
bdnzLoop_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,$key1
add$idx,$idx,16
vperm$inout,$inout,$inptail,$inpperm
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
lvrs$inpperm,0,$len # $inpperm is no longer needed
vxors$inptail,$inptail,$inptail # $inptail is no longer needed
vsplitst$tmpl,-1
vperm$sinptail,$tmpl,$tmpl,$inpperm
vse$sinout,$inout,$output,$inptail

vxors$rndkey0,$rndkey0,$tweak
vxors$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key1
addi$idx,$idx,16

subi11,$out,1
mtctr$len
li$len,16
Loop_xts_dec_steal:
lbzc0,1(r11)
subr16(r11)
bdnzLoop_xts_dec_steal

mtctr$rounds
blLoop_xts_dec# one more time...

Lxts_dec_done:
mtspr256,r12 # restore vrsave
lir3,0
blr
.long0
.byte0,12,0x04,0x80,6,6,0
.long0
.size.$({prefix}_xts_decrypt...-${prefix}_xts_decrypt

#########################################################################

{ # Optimized XTS procedures
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
 $x00=0 if ($flavour =~ /osx/);
my ($sin0, $sin1, $sin2, $sin3, $sin4, $sin5)=map("v$_",(0..5));
my ($out0, $out1, $out2, $out3, $out4, $out5)=map("v$_",(7,12..16));
my ($tkw0, $tkw1, $tkw2, $tkw3, $tkw4, $tkw5)=map("v$_",(17..22));
my $rndkey0="v23":# v24-v25 rotating buffer for first found keys
# v26-v31 last 6 round keys
my ($keyperm)=$out0;# aliases with "caller", redundant assignment
my $taillen=$x70;

$code.=<<<___;
.align5
_aespt_xts_encrypt6x:
$STU$sp,-($FRAME+21*16+6*$SIZE_T)($sp)
mflr
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,$sp
addir7,r7,32
stvx23,r8,$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
mr
lir0,-1
stw$vrsave,'$FRAME+21*16-4'($sp)# save vrsave
li$x10,0x10
$PUSHr26, '$FRAME+21*16+0*$SIZE_T'($sp)
li$x20,0x20
$PUSHr27, '$FRAME+21*16+1*$SIZE_T'($sp)
li$x30,0x30
$PUSHr28, '$FRAME+21*16+2*$SIZE_T'($sp)
li$x40,0x40
$PUSHr29, '$FRAME+21*16+3*$SIZE_T'($sp)
li$x50,0x50
$PUSHr30, '$FRAME+21*16+4*$SIZE_T'($sp)
li$x60,0x60
$PUSHr31, '$FRAME+21*16+5*$SIZE_T'($sp)
li$x70,0x70
mtspr256,r0
subi$rounds,$rounds,3# -4 in total
lvx$mdkey0,$x00,$key1# load key schedule
lvx30,$x10,$key1
addi$key1,$key1,0x20
1vxv31,$x00,$key1
?vperm$rndkey0,$rndkey0,v30,$keyperm
addi$key_,$sp,$FRAME+15
mtctr$rounds

Load_xts_enc_key:
?vpermv24,v30,v31,$keyperm
1vxv30,$x10,$key1
addi$key1,$key1,0x20
stvxv24,5x00,$key_ # off-load round[1]
?vpermv25,v31,v30,$keyperm
1vxv31,$x00,$key1
stvxv25,5x10,$key_ # off-load round[2]
addi$key_,$key_,0x20
bdnzLoad_xts_enc_key

1vxv26,5x10,$key1
?vpermv24,v30,v31,$keyperm
1vxv27,5x20,$key1
stvxv24,5x00,$key_ # off-load round[3]
?vpermv25,v31,v26,$keyperm
1vxv28,5x30,$key1
stvxv25,5x10,$key_ # off-load round[4]
addi$key_,$sp,$FRAME+15# rewind $key_
?vpermv26,v26,v27,$keyperm
1vxv29,5x40,$key1
?vpermv27,v27,v28,$keyperm
1vxv30,5x50,$key1
?vpermv28,v28,v29,$keyperm
1vxv31,5x60,$key1
?vpermv29,v29,v30,$keyperm
1vxv$twk5,5x70,$key1# borrow $twk5
?vpermv30,v30,v31,$keyperm
1vxv24,5x00,$key_ # pre-load round[1]
?vpermv31,v31,$twk5,$keyperm
1vxv25,5x10,$key_ # pre-load round[2]

vperm$in0,$inout,$inptail,$inpperm
subi$inp,$inp,31# undo "caller"
vxor$twk0,$tweak,$rnkkey0
vsrab$tmp,$tweak,$seven# next tweak value
vaddum$tweak,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
vand$tmp,$tmp,$eighty7
vxor$out0,$in0,$twk0
vxor$tweak,$tweak,$tmp
lvx_u\$in1,$x10,$inp
vxor\$twk1,Stweak,$rndkey0
vsrab\$tmp,Stweak,$seven# next tweak value
vaddubm\$tweak,Stweak,$tweak
vsldoi\$tmp,$tmp,$tmp,15
le?vperm\$in1,$in1,$in1,$leperm
vand\$tmp,$tmp,$eighty7
vxor\$out1,$in1,$twk1
vxor\$tweak,Stweak,$tmp

lvx_u\$in2,$x20,$inp
andi.Staillen,$len,15
vxor\$twk2,Stweak,$rndkey0
vsrab\$tmp,Stweak,$seven# next tweak value
vaddubm\$tweak,Stweak,$tweak
vsldoi\$tmp,$tmp,$tmp,15
le?vperm\$in2,$in2,$in2,$leperm
vand\$tmp,$tmp,$eighty7
vxor\$out2,$in2,$twk2
vxor\$tweak,Stweak,$tmp

lvx_u\$in3,$x30,$inp
sub\$len,$len,Staillen
vxor\$twk3,Stweak,$rndkey0
vsrab\$tmp,Stweak,$seven# next tweak value
vaddubm\$tweak,Stweak,$tweak
vsldoi\$tmp,$tmp,$tmp,15
le?vperm\$in3,$in3,$in3,$leperm
vand\$tmp,$tmp,$eighty7
vxor\$out3,$in3,$twk3
vxor\$tweak,Stweak,$tmp

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

lvx_u\$in5,$x50,$inp
addi\$inp,$inp,0x60
vxor\$twk5,Stweak,$rndkey0
vsrab\$tmp,Stweak,$seven# next tweak value
vaddubm\$tweak,Stweak,$tweak

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vsldoi tmp, tmp, tmp, 15
le? vperm sin5, sin5, sin5, sin5, slerperm
vand tmp, tmp, eighty7
vxor out5, sin5, stw5
vxor tweak, tweak, tmp
vxor v31, v31, rndkey0
mtctr rounds
b Loop_xts_enc6x

.align 5
Loop_xts_enc6x:
vcipher out0, out0, v24
vcipher out1, out1, v24
vcipher out2, out2, v24
vcipher out3, out3, v24
vcipher out4, out4, v24
vcipher out5, out5, v24
lvxv24, $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
lvxv25, $x10, $key_ # round[4]
bdnz Loop_xts_enc6x

subi $len, $len, 96 # $len -= 96
vxor sin0, stw0, v31 # xor with last round key
vcipher out0, out0, v24
vcipher out1, out1, v24
vsrabortmp, tweak, 7 # next tweak value
vxor stw0, tweak, rndkey0
vaddubmtweak, tweak, tweak
vcipher out2, out2, v24
vcipher out3, out3, v24
vsldoitmp, tmp, tmp, 15
vcipher out4, out4, v24
vcipher out5, out5, v24

subfe r0, r0, r0 # borrow? -1:0
vand tmp, tmp, eighty7
vcipher out0, out0, v25
vcipher out1, out1, v25
vxor tweak, tweak, tmp
vcipher\$out2,\$out2, v25
vcipher\$out3,\$out3, v25
vxor\$in1,\$twk1, v31
vsrab\$tmp,\$tweak, \$seven# next tweak value
vxor\$twk1,\$tweak, \$rndkey0
vcipher\$out4,\$out4, v25
vcipher\$out5,\$out5, v25

and\$r0,\$r0, \$len
vaddubm\$tweak,\$tweak, \$tweak
vsldoi\$tmp,\$tmp, \$tmp, 15
vcipher\$out0,\$out0, v26
vcipher\$out1,\$out1, v26
vadd\$tmp,\$tmp, \$eighty7
vcipher\$out2,\$out2, v26
vcipher\$out3,\$out3, v26
vxor\$twk2,\$tweak, \$rndkey0
vaddubm\$tweak,\$tweak, \$tweak
vcipher\$out0,\$out0, v27
vcipher\$out1,\$out1, v27
vsldoi\$tmp,\$tmp, \$tmp, 15
vcipher\$out2,\$out2, v27
vcipher\$out3,\$out3, v27
vadd\$tmp,\$tmp, \$eighty7
vcipher\$out4,\$out4, v27
vcipher\$out5,\$out5, v27

addi\$key_, \$sp, \$FRAME+15# rewind \$key_
vxor\$tweak,\$tweak, \$tmp
vcipher\$out0,\$out0, v28
vcipher\$out1,\$out1, v28
vxor\$sin3,\$twk3, v31
vsrab\$tmp,\$tweak, \$seven# next tweak value
vxor\$twk3,\$tweak, \$rndkey0
vcipher\$out2,\$out2, v28
vcipher\$out3,\$out3, v28
vaddubm\$tweak,\$tweak, \$tweak
vsldoi\$tmp,\$tmp, \$tmp, 15
vcipher$\text{out}4,\text{out}4,v28
vcipher$\text{out}5,\text{out}5,v28
lvx24,\$x00,\$\text{key} _# \text{re-pre-load round[1]}
vand$\text{tmp},\text{tmp},\$\text{eighty}7

vcipher$\text{out}0,\text{out}0,v29
vcipher$\text{out}1,\text{out}1,v29
vxor$\text{tweak},\text{tweak},\text{tmp}
vcipher$\text{out}2,\text{out}2,v29
vcipher$\text{out}3,\text{out}3,v29
vxor$\text{in}4,\$\text{twk}4,\text{v}31
vsrab$\text{tmp},\text{tweak},\$\text{seven} # \text{next tweak value}
vxor$\text{twk}4,\text{tweak},\$\text{rndkey}0
vcipher$\text{out}4,\text{out}4,v29
vcipher$\text{out}5,\text{out}5,v29
lvx25,\$x10,\$\text{key} _# \text{re-pre-load round[2]}
vaddubm$\text{tweak},\text{tweak},\text{tweak}
vsldoi$\text{tmp},\text{tmp},\text{tmp},15

vcipher$\text{out}0,\text{out}0,v30
vcipher$\text{out}1,\text{out}1,v30
vand$\text{tmp},\text{tmp},\$\text{eighty}7
vcipher$\text{out}2,\text{out}2,v30
vcipher$\text{out}3,\text{out}3,v30
vxor$\text{tweak},\text{tweak},\text{tmp}
vcipher$\text{out}4,\text{out}4,v30
vcipher$\text{out}5,\text{out}5,v30
vxor$\text{in}5,\$\text{twk}5,\text{v}31
vsrab$\text{tmp},\text{tweak},\$\text{seven} # \text{next tweak value}
vxor$\text{twk}5,\text{tweak},\$\text{rndkey}0

vcipherlast$\text{out}0,\text{out}0,\$\text{in}0
lvx_\text{u}\text{in}0,\$x00,\$\text{inp} # \text{load next input block}
vaddubm$\text{tweak},\text{tweak},\text{tweak}
vsldoi$\text{tmp},\text{tmp},\text{tmp},15
vcipherlast$\text{out}1,\text{out}1,\$\text{in}1
lvx_\text{u}\text{in}1,\$x10,\$\text{in}p
vcipherlast$\text{out}2,\text{out}2,\$\text{in}2
le?\text{vperm}$$\text{in}0,\text{in}0,\text{in}0,\$\text{leperm}
lvx_\text{u}\text{in}2,\$x20,\$\text{in}p
vand$\text{tmp},\text{tmp},\$\text{eighty}7
vcipherlast$\text{out}3,\text{out}3,\$\text{in}3
le?\text{vperm}$$\text{in}1,\text{in}1,\text{in}1,\$\text{leperm}
lvx_\text{u}\text{in}3,\$x30,\$\text{in}p
vcipherlast$\text{out}4,\text{out}4,\$\text{in}4
le?\text{vperm}$$\text{in}2,\text{in}2,\text{in}2,\$\text{leperm}
lvx_\text{u}\text{in}4,\$x40,\$\text{in}p
vxor$\text{tweak},\text{tweak},\text{tmp}
vcipherlast	$tmp,$out5,$in5#
# last block might be needed
# in stealing mode
le?vperm	$in3,$in3,$in3,$leperm
lvx_u	$in5,$x50,$in5
addi	$in5,$in5,0x60
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,$out0# store output
vxor	$out0,$in0,$twk0
le?vperm	$out2,$out2,$out2,$leperm
stvx_u	$out1,$x10,$out
vxor	$out1,$in1,$twk1
le?vperm	$out3,$out3,$out3,$leperm
stvx_u	$out2,$x20,$out
vxor	$out2,$in2,$twk2
le?vperm	$out4,$out4,$out4,$leperm
stvx_u	$out3,$x30,$out
vxor	$out3,$in3,$twk3
le?vperm	$out5,$tmp,$tmp,$leperm
stvx_u	$out4,$x40,$out
vxor	$out4,$in4,$twk4
le?stvx_u	$out5,$x50,$out
be?stvx_u	$tmp, $x50,$out
vxor	$out5,$in5,$twk5
addi	$out,$out,0x60
mtctr	$rounds
beq	Loop_xts_enc6x# did $len-=96 borrow?

addic	$len,$len,0x60
beq	Lxts_enc6x_zero
cmpwi	$len,0x20
blt	Lxts_enc6x_one
nop
beq	Lxts_enc6x_two
cmpwi	$len,0x40
blt	Lxts_enc6x_three
nop
beq	Lxts_enc6x_four

Lxts_enc6x_five:
vxor	$out0,$in1,$twk0
vxor	$out1,$in2,$twk1
vxor	$out2,$in3,$twk2
vxor	$out3,$in4,$twk3
vxor out4, $in5, $twk4

bl_aesp8_xts_enc5x

le?vperm out0, out0, out0, $leperm
vmr $twk0, $twk5 # unused tweak
le?vperm out1, out1, out1, $leperm
stvx_u out0, $x00, out # store output
le?vperm out2, out2, out2, $leperm
stvx_u out1, $x10, out
le?vperm out3, out3, out3, $leperm
stvx_u out2, $x20, out
vxorsttmp, out4, $twk5 # last block prep for stealing
le?vperm out4, out4, out4, $leperm
stvx_u out3, $x30, out
stvx_u out4, $x40, out
addi out, out, 0x50
bne Lxts_enc6x_steal
b Lxts_enc6x_done

.align 4
Lxts_enc6x_four:
vxor out0, $in2, $twk0
vxor out1, $in3, $twk1
vxor out2, $in4, $twk2
vxor out3, $in5, $twk3
vxor out4, out4, out4

bl_aesp8_xts_enc5x

le?vperm out0, out0, out0, $leperm
vmr $twk0, $twk4 # unused tweak
le?vperm out1, out1, out1, $leperm
stvx_u out0, $x00, out # store output
le?vperm out2, out2, out2, $leperm
stvx_u out1, $x10, out
vxorsttmp, out3, $twk4 # last block prep for stealing
le?vperm out3, out3, out3, $leperm
stvx_u out2, $x20, out
stvx_u out3, $x30, out
addi out, out, 0x40
bne Lxts_enc6x_steal
b Lxts_enc6x_done

.align 4
Lxts_enc6x_three:
vxor out0, $in3, $twk0
vxor out1, $in4, $twk1
vxor $out2,$in5,$twk2
vxor $out3,$out3,$out3
vxor $out4,$out4,$out4

bl_aes8_xts_enc5x

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk3 # unused tweak
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $tmp,$out2,$twk3 # last block prep for stealing
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
stvx_u $out2,$x20,$out
addi $out,$out,0x30
bne Lxts_enc6x_steal
b Lxts_enc6x_done

.align 4
Lxts_enc6x_two:
vxor $out0,$in4,$twk0
vxor $out1,$in5,$twk1
vxor $out2,$out2,$out2
vxor $out3,$out3,$out3
vxor $out4,$out4,$out4

bl_aes8_xts_enc5x

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk2 # unused tweak
vxor $tmp,$out1,$twk2 # last block prep for stealing
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
stvx_u $out1,$x10,$out
addi $out,$out,0x20
bne Lxts_enc6x_steal
b Lxts_enc6x_done

.align 4
Lxts_enc6x_one:
vxor $out0,$in5,$twk0
nop
Loop_xts_enc1x:
vcipher $out0,$out0,v24
lvxv24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vcipher $out0,$out0,v25

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lvxv25,$x10,$key_ # round[4]
bdnz Loop_xts_enc1x

add$inp,$inp,$taillen
cmpwi $taillen,0
vcipher $out0,$out0,v24

subi$inp,$inp,16
vcipher $out0,$out0,v25

lvsr $inpperm,0,$taillen
vcipher $out0,$out0,v26

lvx_u $in0,0,$inp
vcipher $out0,$out0,v27

addi$key_,$sp,$FRAME+15 # rewind $key_
vcipher $out0,$out0,v28
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,$inpperm
vcipherlast $out0,$out0,$twk0

vmr $twk0,$twk1 # unused tweak
vxor $tmp,$out0,$twk1 # last block prep for stealing
le?vperm $out0,$out0,$out0,$leperm
stvx_u $out0,$x00,$out# store output
addi$out,$out,0x10
bne Lxts_enc6x_steal
b Lxts_enc6x_done

.align 4
Lxts_enc6x_zero:
cmpwi $taillen,0
beq Lxts_enc6x_done

add$inp,$inp,$taillen
subi$inp,$inp,16
lvx_u $in0,0,$inp
lvsr $inpperm,0,$taillen # $in5 is no more
le?vperm $in0,$in0,$in0,$leperm
vperm$in0,$in0,$in0,$inpperm
vxor$tmp,$tmp,$twk0
Lxts_enc6x_steal:
vxor$in0,$in0,$twk0
vxor$out0,$out0,$out0
vspltisb$out1,-1
vperm$out0,$out0,$out1,$inpperm
vsel$out0,$in0,$tmp,$out0 # $tmp is last block, remember?

subi3,$out,17
subi$out,$out,16
mtctr$taillen
Loop_xts_enc6x_steal:
  lbzu0,1(r3)
  stb0,16(r3)
  bdnzLoop_xts_enc6x_steal

li$taillen,0
mtctr$rounds
bLoop_xts_enc1x # one more time...

.align4
Lxts_enc6x_done:
mtlrr7
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

mtspr256,$vrsave
lvx20,r10,$sp # ABI says so
  addir10,r10,32
lvx21,r11,$sp
  addir11,r11,32
lvxv22,r10,$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,$sp
lPOP26,$FRAME+21*16+0*$SIZE_T ($sp)
lPOP27,$FRAME+21*16+1*$SIZE_T ($sp)
lPOP28,$FRAME+21*16+2*$SIZE_T ($sp)
lPOP29,$FRAME+21*16+3*$SIZE_T ($sp)
lPOP30,$FRAME+21*16+4*$SIZE_T ($sp)
lPOP31,$FRAME+21*16+5*$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_enc5x:
vcipher$0t0,$out0,v24
vcipher$0t1,$out1,v24
vcipher$0t2,$out2,v24
vcipher$0t3,$out3,v24
vcipher$0t4,$out4,v24
lvxv24,$x20,$key_ # round[3]
addi$key_,$key_,0x20

vcipher$0t0,$out0,v25
vcipher$0t1,$out1,v25
vcipher$0t2,$out2,v25
vcipher$0t3,$out3,v25
vcipher$0t4,$out4,v25
lvxv25,$x10,$key_ # round[4]
bdnz_aesp8_xts_enc5x
add$inp,$inp,$taillen
icmpwi$taillen,0
vcipher$out0,$out0,v24
vcipher$out1,$out1,v24
vcipher$out2,$out2,v24
vcipher$out3,$out3,v24
vcipher$out4,$out4,v24
subi$inp,$inp,16
vcipher$out0,$out0,v25
vcipher$out1,$out1,v25
vcipher$out2,$out2,v25
vcipher$out3,$out3,v25
vcipher$out4,$out4,v25
vxor$twk0,$twk0,v31
vcipher$out0,$out0,v26
lvsr$inperm,r0,$taillen	# $in5 is no more
vcipher$out1,$out1,v26
vcipher$out2,$out2,v26
vcipher$out3,$out3,v26
vcipher$out4,$out4,v26
vxor$in1,$twk1,v31
vcipher$out0,$out0,v27
lvx_u$in0,0,$inp
vcipher$out1,$out1,v27
vcipher$out2,$out2,v27
vcipher$out3,$out3,v27
vcipher$out4,$out4,v27
vxor$in2,$twk2,v31
add$key_,$sp,$FRAME+15	# rewind $key_
vcipher$out0,$out0,v28
vcipher$out1,$out1,v28
vcipher$out2,$out2,v28
vcipher$out3,$out3,v28
vcipher$out4,$out4,v28
lvx$v24,$x00,$key_	# re-pre-load round[1]
xxor$in3,$twk3,v31
vcipher$out0,$out0,v29
le?perm$in0,$in0,$in0,$leperm
vcipher$out1,$out1,v29
vcipher$out2,$out2,v29
vcipher$out3,$out3,v29
vcipher$out4,$out4,v29
lvx$v25,$x10,$key_	# re-pre-load round[2]
vxorSin4,$twk4,v31
vcipher$out0,$out0,v30
vperm$in0,$in0,$in0,$inpperm
vcipher$out1,$out1,v30
vcipher$out2,$out2,v30
vcipher$out3,$out3,v30
vcipher$out4,$out4,v30
vcipherlast$out0,$out0,$twk0
vcipherlast$out1,$out1,$in1
vcipherlast$out2,$out2,$in2
vcipherlast$out3,$out3,$in3
vcipherlast$out4,$out4,$in4
blr
   .long  0
   .byte  0,12,0x14,0,0,0,0,0

.align 5
_aes8_xts_decrypt6x:
STUSp,`($FRAME+21*16+6*$_T`)($sp)
mflr0
li7,`$FRAME+8*16+15`
li8,`$FRAME+8*16+31`
SPUSHr0,`$FRAME+21*16+6*$_T+$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
li $r0, -1
stw$vrsave,$FRAME+21*16-4($sp)# save vrsave
li$x10,0x10
$PUSHr26,$FRAME+21*16+0$SIZE_T($sp)
li$x20,0x20
$PUSHr27,$FRAME+21*16+1$SIZE_T($sp)
li$x30,0x30
$PUSHr28,$FRAME+21*16+2$SIZE_T($sp)
li$x40,0x40
$PUSHr29,$FRAME+21*16+3$SIZE_T($sp)
li$x50,0x50
$PUSHr30,$FRAME+21*16+4$SIZE_T($sp)
li$x60,0x60
$PUSHr31,$FRAME+21*16+5$SIZE_T($sp)
li$x70,0x70
mtspr256,r0

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

lvx$rndkey0,$x00,$key1# load key schedule
lvxv30,$x10,$key1
addi$key1,$key1,0x20
lvxv31,$x00,$key1
?vperm$rndkey0,$rndkey0,v30,$keyperm
addi$key_,$sp,$FRAME+15
mtctr$rounds

Load_xts_dec_key:
?vpermv24,v30,v31,$keyperm
lvxv30,$x10,$key1
addi$key1,$key1,0x20
stvxv24,$x00,$key_# off-load round[1]
?vpermv25,v31,v30,$keyperm
lvxv31,$x00,$key1
stvxv25,$x10,$key_# off-load round[2]
addi$key_,$key_,0x20
bdnzLoad_xts_dec_key

lvxv26,$x10,$key1
?vpermv24,v30,v31,$keyperm
lvxv27,$x20,$key1
stvxv24,$x00,$key_# off-load round[3]
?vpermv25,v31,v26,$keyperm
lvxv28,$x30,$key1
stvxv25,$x10,$key_# off-load round[4]
addi$key_,$sp,$FRAME+15# rewind $key_
?vpermv26,v26,v27,$keyperm
lvxv29,$x40,$key1
?vpermv27,v27,v28,$keyperm
lvx30,$x50,$key1
?vpermv28,v28,v29,$keyperm
lvx31,$x60,$key1
?vpermv29,v29,v30,$keyperm
lvx$twk5,$x70,$key1 # borrow $twk5
?vpermv30,v30,v31,$keyperm
lvx24,$x00,$key # pre-load round[1]
?vpermv31,v31,$twk5,$keyperm
lvx25,$x10,$key # pre-load round[2]

vperm$in0,$inout,$inptail,$inpperm
subi$inp,$inp,31 # undo ”caller”
vxor$twk0,$tweak,$rndkey0
vsrab$tweak,$tweak,$seven # next tweak value
vaddubm$tweak,$tweak,$tweak
vslstoi$tweak,$tmp,$tmp,15
vand$ttmp,$tmp,$eighty7
vxor$out0,$in0,$twk0
vxor$tweak,$tweak,$tmp

lvx_u$in1,$x10,$inp
vxor$twk1,$tweak,$rndkey0
vsrab$tmp,$tweak,$seven # next tweak value
vaddubm$tweak,$tweak,$tweak
vslstoi$tmp,$tmp,$tmp,15
le?vperm$in1,$in1,$in1,$leperm
vand$tmp,$tmp,$eighty7
vxor$out1,$in1,$twk1
vxor$tweak,$tweak,$tmp

lvx_u$in2,$x20,$inp
andi.$taillen,$len,15
vxor$twk2,$tweak,$rndkey0
vsrab$tmp,$tweak,$seven # next tweak value
vaddubm$tweak,$tweak,$tweak
vslstoi$tmp,$tmp,$tmp,15
le?vperm$in2,$in2,$in2,$leperm
vand$tmp,$tmp,$eighty7
vxor$out2,$in2,$twk2
vxor$tweak,$tweak,$tmp

lvx_u$in3,$x30,$inp
sub$len,$len,$taillen
vxor$twk3,$tweak,$rndkey0
vsrab$tmp,$tweak,$seven # next tweak value
vaddubm$tweak,$tweak,$tweak
vslstoi$tmp,$tmp,$tmp,15
le?vperm$in3,$in3,$in3,$leperm
vand$tmp,$tmp,$eighty7
vxor$out3,$in3,$twk3
vxor$tweak,$tweak,$tmp

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

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

vxor$v31,v31,$rndkey0
mtctr$rounds
bLoop_xts_dec6x

.align5
Loop_xts_dec6x:
vncipher$out0,$out0,v24
vncipher$out1,$out1,v24
vncipher$out2,$out2,v24
vncipher$out3,$out3,v24
vncipher$out4,$out4,v24
vncipher$out5,$out5,v24
lvxv24,$x20,$key_# round[3]
addi$key_,$key_,0x20

vncipher$out0,$out0,v25
vncipher$out1,$out1,v25
vncipher$out2,$out2,v25
vncipher$out3,$out3,v25
vncipher$out4,$out4,v25
vncipher$out5,$out5,v25
lvxv25,$x10,$key_
bdnz_loop_xts_dec6x

subic$len,$len,96$ # $len=-96
vxor$sin0,$twk0,v31# xor with last round key
vn cipher $out0,$out0,v24
vn cipher $out1,$out1,v24
vsrab$tmp,$tweak,$seven# next tweak value
vxor$twk0,$tweak,$rndkey0
vaddubm$twk0,$tweak,$tweak
vn cipher $out2,$out2,v24
vn cipher $out3,$out3,v24
vsldoi$tmp,$tmp,$tmp,15
vn cipher $out4,$out4,v24
vn cipher $out5,$out5,v24

subfe,r0,r0,r0# borrow?-1:0
vand$tmp,$tmp,$eighty7
vn cipher $out0,$out0,v25
vn cipher $out1,$out1,v25
vxor$twk1,$tweak,$tmp
vn cipher $out2,$out2,v25
vn cipher $out3,$out3,v25
vxor$twk1,$tweak,$rndkey0

andt0,r0,$len
vaddubm$twk0,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
vn cipher $out0,$out0,v26
vn cipher $out1,$out1,v26
vand$tmp,$tmp,$eighty7
vn cipher $out2,$out2,v26
vn cipher $out3,$out3,v26
vxor$twk2,$tweak,$tmp
vn cipher $out4,$out4,v26
vn cipher $out5,$out5,v26

add$inp,$inp,r0# $inp is adjusted in such
# way that at exit from the
# loop inX-in5 are loaded
# with last "words"
vxor$sin2,$twk2,v31
vsrab$tmp,$tweak,$seven# next tweak value
vxor$twk2,$tweak,$rndkey0
vaddubm$tweak,$tweak,$tweak
vncipher$sout0,$sout0,v27
vncipher$sout1,$sout1,v27
vsldoi$tmpl,$tmpl,$tmpl,15
vncipher$sout2,$sout2,v27
vncipher$sout3,$sout3,v27
vand$tmpl,$tmpl,$eighty7
vncipher$sout4,$sout4,v27
vncipher$sout5,$sout5,v27

addi$key_,$sp,$FRAME+15# rewind $key_
vxor$tweak,$tweak,$tmpl
vncipher$sout0,$sout0,v28
vncipher$sout1,$sout1,v28
vxor$tmpl,$tmpl,$tmpl,v31
vsrab$tmpl,$tmpl,$seven# next tweak value
vxor$tmpl,$tmpl,$tmpl,v28
vncipher$sout2,$sout2,v28
vncipher$sout3,$sout3,v28
vaddubm$tweak,$tweak,$tmpl
vsldoi$tmpl,$tmpl,$tmpl,15
vncipher$sout4,$sout4,v28
vncipher$sout5,$sout5,v28
lvx$24,$x00,$key_# re-pre-load round[1]
vand$tmpl,$tmpl,$eighty7
vncipher$sout0,$sout0,v29
vncipher$sout1,$sout1,v29
vxor$tweak,$tweak,$tmpl
vncipher$sout2,$sout2,v29
vncipher$sout3,$sout3,v29
vxor$tmpl,$tmpl,$tmpl,v31
vsrab$tmpl,$tmpl,$seven# next tweak value
vxor$tmpl,$tmpl,$tmpl,v29
vncipher$sout4,$sout4,v29
vncipher$sout5,$sout5,v29
lvx$25,$x10,$key_# re-pre-load round[2]
vaddubm$tweak,$tweak,$tmpl
vsldoi$tmpl,$tmpl,$tmpl,15
vncipher$sout0,$sout0,v30
vncipher$sout1,$sout1,v30
vand$tmpl,$tmpl,$eighty7
vncipher$sout2,$sout2,v30
vncipher$sout3,$sout3,v30
vxor$tweak,$tweak,$tmpl
vncipher$sout4,$sout4,v30
vncipher$sout5,$sout5,v30
vxor $in5, $twk5, $v31

vsrab $tmp, $tweak, $seven	# next tweak value
vxor $twk5, $tweak, $rndkey0

vncipherlast $out0, $out0, $in0
lvx_u $in0, $x00, $inp	# load next input block
vaddubm $stweak, $stweak, $tweak
dsldoi $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
vadd $tmp, $tweak, $tweak
vsldoi $tmp, $tmp, $tmp, 15
vncipherlast $out3, $out3, $in3
lvx_u $in3, $x30, $inp
vncipherlast $out4, $out4, $in4
lvx_u $in4, $x40, $inp
vxor $stweak, $stweak, $tmp
vncipherlast $out5, $out5, $in5
lvx_u $in5, $x50, $inp
addi $in0, $in0, 0x60

le?vperm $out0, $out0, $out0, $leperm
le?vperm $out1, $out1, $out1, $leperm
stvx_u $out0, $x00, $out0	# 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	$srounds
beq $Loop_xts_dec6x # did $len-=96 borrow?

addic $len,$len,0x60
beq $Lxts_dec6x_zero
cmpwi $len,0x20
bl $Lxts_dec6x_one
nop
beq $Lxts_dec6x_two
cmpwi $len,0x40
bl $Lxts_dec6x_three
nop
beq $Lxts_dec6x_four

$Lxts_dec6x_five:
vxor $out0,$in1,$twk0
vxor $out1,$in2,$twk1
vxor $out2,$in3,$twk2
vxor $out3,$in4,$twk3
vxor $out4,$in5,$twk4
bl $aesp8_xts_dec5x
le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk5 # unused tweak
vxor $twk1,$tweak,$rndkey0
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk1
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$leperm
stvx_u $out3,$x30,$out
stvx_u $out4,$x40,$out
addi $out,$out,0x50
bne $Lxts_dec6x_steal
b $Lxts_dec6x_done

.align 4
$Lxts_dec6x_four:
vxor $out0,$in2,$twk0
vxor $out1,$in3,$twk1
vxor $out2,$in4,$twk2
vxor $out3,$in5,$twk3
vxor $out4,$out4,$out4
bl_aesp8_xts_dec5x
le?vperm$out0,$out0,$out0,$leperm
vmr$twk0,$twk4 # unused tweak
vmr$twk1,$twk5
le?vperm$out1,$out1,$out1,$leperm
stvx_u$out0,$x00,$out # store output
vxor$out0,$in0,$twk5
le?vperm$out2,$out2,$out2,$leperm
stvx_u$out1,$x10,$out
le?vperm$out3,$out3,$out3,$leperm
stvx_u$out2,$x20,$out
stvx_u$out3,$x30,$out
addi$out,$out,0x40
bne$Lxts_dec6x_steal
b$Lxts_dec6x_done
.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,$twk4
le?vperm$out2,$out2,$out2,$leperm
stvx_u$out1,$x10,$out
stvx_u$out2,$x20,$out
addi$out,$out,0x30
bne$Lxts_dec6x_steal
b$Lxts_dec6x_done
.align4
Lxts_dec6x_two:
vxor$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$twk0,$twk2# unused tweak
vmr$twk1,$twk3
le?vperm$out1,$out1,$out1,$leperm
stvx_u$out0,$x00,$out# store output
vxor$out0,$in0,$twk3
stvx_u$out1,$x10,$out
addi$out,$out,0x20
bneLxts_dec6x_steal
bLxts_dec6x_done

.align4
Lxts_dec6x_one:
vxor$out0,$in5,$twk0
nop
Loop_xts_dec1x:
vncipher$out0,$out0,v24
lvxv24,$x20,$key_# round[3]
addi$key_,$key_,0x20
vncipher$out0,$out0,v25
lvxv25,$x10,$key_# round[4]
bdnzLoop_xts_dec1x

sub$ra,$taillen,1
vncipher$out0,$out0,v24

andi$r0,$r0,16
cmpwi$taillen,0
vncipher$out0,$out0,v25

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

lvx_u$in0,0,$inp
vncipher$out0,$out0,v27

addi$key_,$sp,$FRAME+15# rewind $key_
vncipher$out0,$out0,v28
lvxv24,$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

Open Source Used In FXOS MIO 2.10.1.166 966
vncipher $out0,$out0,v30

mtctr $rounds
vncipherlast $out0,$out0,$twk0

vmr $twk0,$twk1 # unused tweak
vmr $twk1,$twk2
le?vperm $out0,$out0,$out0,$leperm
stvx_u $out0,$x00,$out # store output
addi $out,$out,0x10
vxor $out0,$in0,$twk2
bne Lxts_dec6x_steal
b Lxts_dec6x_done

.align 4
.Lxts_dec6x_zero:
cmpwi $taillen,0
beq Lxts_dec6x_done

lvx_u $in0,0,$inp
le?vperm $in0,$in0,$in0,$leperm
vxor $out0,$in0,$twk1
Lxts_dec6x_steal:
vncipher $out0,$out0,v24
lvx24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vncipher $out0,$out0,v25
lvx25,$x10,$key_ # round[4]
bdnz Lxts_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
lvx24,$x00,$key_ # re-pre-load round[1]
vncipher $out0,$out0,v29
lvxxv,$x10,$key_ # re-pre-load round[2]
vxor$twk1,$twk1,v31

le?vpermSin0,$in0,$in0,$leperm
vncipher$out0,$out0,v30

vpermSin0,$in0,$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

subir3,$out,1
mtctr$tailen
Loop_xts_dec6x_steal:
lbzu r0,1(r3)
stbr0,16(r3)
bdnz Loop_xts_dec6x_steal

li $tailen,0
mtctr$rounds
b Loop_xts_dec1x # one more time...

.align4
L_xts_dec6x_done:
mtlr7
lir10,’$FRAME+15’
lir11,’$FRAME+31’
svx$seven,r10,$sp# wipe copies of round keys
addir10,r10,32
svx$seven,r11,$sp
addir11,r11,32
svx$seven,r10,$sp
addir10,r10,32
svx$seven,r11,$sp
addir11,r11,32
svx$seven,r10,$sp
addir10,r10,32
svx$seven,r11,$sp
addir11,r11,32
svx$seven,r10,$sp
addi r10, r10, 32
stvx $seven, r11, $sp
addi r11, r11, 32
mtspr 256, $vrsave
lvx v20, r10, $sp # ABI says so
addi r10, r10, 32
lvx v21, r11, $sp
addi r11, r11, 32
lvx v22, r10, $sp
addi r10, r10, 32
lvx v23, r11, $sp
addi r11, r11, 32
lvx v24, r10, $sp
addi r10, r10, 32
lvx v25, r11, $sp
addi r11, r11, 32
lvx v26, r10, $sp
addi r10, r10, 32
lvx v27, r11, $sp
addi r11, r11, 32
lvx v28, r10, $sp
addi r10, r10, 32
lvx v29, r11, $sp
addi r11, r11, 32
lvx v30, r10, $sp
addi r11, r11, 32

SPOp r26, $FRAME+21*16+0*$SIZE_T ($sp)
SPOp r27, $FRAME+21*16+1*$SIZE_T ($sp)
SPOp r28, $FRAME+21*16+2*$SIZE_T ($sp)
SPOp r29, $FRAME+21*16+3*$SIZE_T ($sp)
SPOp r30, $FRAME+21*16+4*$SIZE_T ($sp)
SPOp r31, $FRAME+21*16+5*$SIZE_T ($sp)
addi $sp, $sp, $FRAME+21*16+6*$SIZE_T
blr
.long 0
.byte 12, 0x04, 1, 0x80, 6, 6, 0
.long 0
.align 5
.aesp8_xts_dec5x:
vncipher $out0, $out0, v24
vncipher $out0, $out1, v24
vncipher $out2, $out2, v24
vncipher $out3, $out3, v24
vncipher $out4, $out4, v24
lvx v24, $x20, $key_ # round[3]
addi $key_, $key_, 0x20
vncipher\$out0,\$out0,v25
vncipher\$out1,\$out1,v25
vncipher\$out2,\$out2,v25
vncipher\$out3,\$out3,v25
vncipher\$out4,\$out4,v25
lvx25,\$x10,\$key_\# round[4]
bdnz_aes8_xts_dec5x

subir0,\$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
cmpeq\$taillen,0
vncipher\$out0,\$out0,v25
vncipher\$out1,\$out1,v25
vncipher\$out2,\$out2,v25
vncipher\$out3,\$out3,v25
vncipher\$out4,\$out4,v25
vxor$twk0,$twk0,v31

sub$inp,$inp,r0
vncipher\$out0,\$out0,v26
vncipher\$out1,\$out1,v26
vncipher\$out2,\$out2,v26
vncipher\$out3,\$out3,v26
vncipher\$out4,\$out4,v26
vxor$in1,$twk1,v31

vncipher\$out0,\$out0,v27
lvx_u\$in0,0,$inp
vncipher\$out1,\$out1,v27
vncipher\$out2,\$out2,v27
vncipher\$out3,\$out3,v27
vncipher\$out4,\$out4,v27
vxor$in2,$twk2,v31

addi$key_,$sp,\$FRAME+15\# rewind $key_
vncipher\$out0,\$out0,v28
vncipher\$out1,\$out1,v28
vncipher\$out2,\$out2,v28
vncipher\$out3,\$out3,v28
vncipher\$out4,\$out4,v28
lvx24,\$x00,$key_\# re-pre-load round[1]
vxor\$in3,\$twk3,v31

vncipher\$out0,\$out0,v29
le?vperm\$in0,\$in0,\$in0,\$leperm
vncipher\$out1,\$out1,v29
vncipher\$out2,\$out2,v29
vncipher\$out3,\$out3,v29
vncipher\$out4,\$out4,v29
lvx25,\$x10,\$key_ # re-pre-load round[2]
vxor\$in4,\$twk4,v31

vncipher\$out0,\$out0,v30
vncipher\$out1,\$out1,v30
vncipher\$out2,\$out2,v30
vncipher\$out3,\$out3,v30
vncipher\$out4,\$out4,v30

vncipherlast\$out0,\$out0,\$twk0
vncipherlast\$out1,\$out1,\$in1
vncipherlast\$out2,\$out2,\$in2
vncipherlast\$out3,\$out3,\$in3
vncipherlast\$out4,\$out4,\$in4
mtc\$rounds
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0

}

my $consts=1;
foreach(split("\n","code")) {
  s/\`([\^`\]*`)/eval($1)/geo;

  # constants table endian-specific conversion
if ($consts & & m/\.\.(long|byte)\s+\((.+)\s+\(?[a-z]*\)\)/o) {
    my $conv=$3;
    my @bytes=();

    # convert to endian-agnostic format
if ($1 eq "long") {
      foreach (split(/,\s*/, $2)) {
        my $l = /^0/?oct:int;
push @bytes,($l>>24)&0xff,($l>>16)&0xff,($l>>8)&0xff,$l&0xff;
      }
    } else {
      @bytes = map(/^0/?oct:int,split(/\s*/, $2));
    }
  }
}
# little-endian conversion
if ($flavour =~ /le$/o) {

    SWITCH: for($conv) {
        \?inv/ && do   { @bytes=map($_^0xf,@bytes); last; };
        \?rev/ && do   { @bytes=reverse(@bytes); last; };
    }
}

#emit
print ",.byte\t".join(’,’,map (sprintf("0x%02x",$_),@bytes)),"\n; next;
}
$consts=0 if (m/Lconsts:/o);# end of table

# instructions prefixed with '?' are endian-specific and need # to be adjusted accordingly...
if ($flavour =~ /le$/o) { # little-endian
    s/le\?/oor
    s/be\?/engo
    s/\?lvsl/lvls/o
    s/\?lvsl/lvsl/o
    s/\?(vperm\s\+[0-9]+,\.\s*)((v[0-9]+,\s*)((v[0-9]+,\s*)((v[0-9]+,\s*))(v[0-9]+,\s*)\$/1$3$2$4/o or
    s/\?(vsldoi\s\+[0-9]+,\s*)((v[0-9]+,\s*)((v[0-9]+,\s*)\$/1$3$2 16-$4/o or
    s/\?(vspltw\s\+[0-9]+,\s*)((v[0-9]+,\s*)\$/1$3$2 3-$5/o;
} else { # big-endian
    s/le\?/le#/oor
    s/be\?/e/o
    s/\?[a-z]+/$1/o;
}

    print ",".join(map (sprintf("0x%02x",$_),@bytes)),"\n; };
}

close STDOUT;

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*/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesp8-ppc.pl
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rand/rand_lcl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_exp2.c

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#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
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# 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";
    $SHRI="srdi";
} elsif ($flavour =~ /32/) {
    $SIZE_T=4;
    $LRSAVE=$SIZE_T;
    $STU="stwu";
    $POP="lwz";
    $PUSH="stw";
    $UCMP="cmplw";
    $SHRI="srwi";
} else { die "nonsense $flavour"; }

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

$0 =~ m/(.*[/\])[^/\]+$/; $dir=$1;

if (exists($dir)) {
    ( $xlate="${dir}ppc-xlate.pl" and -f $xlate ) or
    ( $xlate="${dir}ppc-xlate.pl" and -f $xlate ) or
    die "can't locate ppc-xlate.pl";
}

open STDOUT, '| $^X $xlate $flavour $output' || die "can't call $xlate: $!";

my ($Xip,$Htbl,$inp,$len)=map("r$_",(3..6));	# argument block
my ($Xl,$Xm,$Xh,$IN)=map("v$_",(0..3));
my ($zero,$t0,$t1,$t2,$xC2,$H,$Hh,$Hl,$lemask)=map("v$_",(4..12));
my ($Xl1,$Xm1,$Xh1,$IN1,$H2,$H2h,$H2l)=map("v$_",(13..19));
my $vrsave="r12";

$code=<<__:
.machine "any"

.text

.globl gcm_init_p8
.align 5
.gcm_init_p8:
lr0, -4096
lr8, 0x10
mfspr$vrsave, 256
lr9, 0x20
mtspr256, r0
lr10, 0x30
lvx_uSH, 0, r4 # load H

vspltisb$xC2, -16 # 0xf0
vspltisb$st0, 1 # one
vaddubm$xC2, $xC2, $xC2 # 0xe0
vxor$zero, $zero, $zero
vor$xC2, $xC2, $t0 # 0xe1
vsldoi$xC2, $xC2, $zero, 15 # 0xe1...
vslstoi$t1, $zero, $t0, 1 # ...1
vaddubm$xC2, $xC2, $xC2 # 0xc2...
vspltisb$t2, 7
vor$xC2, $xC2, $t1 # 0xc2...01
vspltb$t1, $H, 0 # most significant byte
vsl$H, $H, $t0 # H<<=1
vsrab$t1, $t1, $t2 # broadcast carry bit
vand$t1, $t1, $xC2
vxor$IN, $H, $t1 # twisted H

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

stvx_u$xC2, 0, r3 # save pre-computed table
stvx_u$Hl, r8, r3
lr8, 0x40
stvx_u$H, r9, r3
lr9, 0x50
stvx_u$Hh, r10, r3
lr10, 0x60

vpmsumd$X1, $IN, $SHl # H.loH.lo
vpmsumd$Xm,$IN,$SH# H.hiH.lo+H.loH.hi
vpmsumd$Xh,$IN,$SHl# H.hiH.hi

vpmsumd$t2,$XI,$xC2# 1st reduction phase

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

vsldoi$XI,$XI,$XI,8
vxor$XI,$XI,$t2

vsldoi$t1,$XI,$XI,8# 2nd reduction phase
vpmsumd$XI,$XI,$xC2
vxor$t1,$t1,$XI
vxor$IN1,$XI,$t1

vsldoi$H2,$IN1,$IN1,8
vsldoi$H2,$zero,$H2,8
vsldoi$H2,$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);
$code.=<<___;
vpmsumd$XI,$IN,$H2l# H.loH^2.lo
vpmsumd$XI1,$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,$IN,$H2# H.hiH^2.hi
vpmsumd$Xh1,$IN1,$H2# H^2.hiH^2.hi

vpmsumd$t2,$XI,$xC2# 1st reduction phase
vpmsumd$t6,$XI,$xC2# 1st reduction phase

vsldoi$t0,$Xm,$zero,8
vsldoi$t1,$zero,$Xm,8
vsldoi$t4,$Xm,$zero,8
vsldoi$t4,$Xm,$zero,8
vxor$XI,$XI,$t0
vxor$Xh,$Xh,$t1
vxor$Xl1,$Xl1,$t4
vxor$Xh1,$Xh1,$t5

vsldoi$Xl1,$Xl1,$Xl1,8
vsldoi$Xl1,$Xl1,$Xl1,8
vxor$Xl,$Xl,$t2
vxor$Xl1,$Xl1,$t6

vsldoi$t1,$Xl,$Xl,8	# 2nd reduction phase
vsldoi$t5,$Xl1,$Xl1,8	# 2nd reduction phase
vpmsum$Xl1,$Xl1,$x$C2
vpmsum$Xl1,$Xl1,$x$C2
vxor$t1,$t1,$Xh
vxor$t5,$t5,$Xh1
vxor$Xl,$Xl,$t1
vxor$Xl1,$Xl1,$t5

vsldoi$H,$Xl1,$Xl1,8
vsldoi$H2,$Xl1,$Xl1,8
vsldoi$H1,$zero,$H,8
vsldoi$Hh,$H,$zero,8
vsldoi$H21,$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$Hh,r10,r3
lir10,0xc0
stvx_u$H21,r8,r3	# save H^4
stvx_u$H2,r9,r3
stvx_u$H2h,r10,r3

mtspr256,$vrsave
blr
.long0
.byte0,12,0x14,0,0,0,2,0
.long0
.size.gcm_init_p8,.-.gcm_init_p8

___
} $code.=<<___;
.globl.gcm_gmult_p8
.align5
.gcm_gmult_p8:
li$8,0xff8
lir$8,0x10
mfspr $vrsave, 256
lir 9, 0x20
mtspr256, r0
lir 10, 0x30
lvx_u $IN, 0, $Xip # load Xi

lvx_u $H1, r8, $Htbl # load pre-computed table
le? lvx $lemask, r0, r0
lvx_u $H1, r9, $Htbl
le? lvx $Hh, r10, $Htbl
le? lvx $x2C, 0, $Htbl
le? lvx $IN, $IN, $IN, $lemask
vxor $zero, $zero, $zero

vpmsumd $XI, $IN, $HI # H.loXi.lo
vpmsumd $XM, $IN, $H # H.hiXi.lo+H.loXi.hi
vpmsumd $Xh, $IN, $Hh # H.hiXi.hi

vpmsumd $t2, $XI, $xC2 # 1st reduction phase

vsldoi $t0, $XM, $zero, 8
vsldoi $t1, $zero, $XM, 8
vxor $XI, $XI, $t0
vxor $Xh, $Xh, $t1

vsldoi $XI, $XI, $XI, 8
vxor $XI, $XI, $t2

vsldoi $t1, $XI, $XI, 8 # 2nd reduction phase
vpmsumd $XI, $XI, $xC2
vxor $t1, $t1, $Xh
vxor $XI, $XI, $t1

le? lvx $XI, $XI, $XI, $lemask
stvx_u $XI, 0, $Xip # write out Xi

mtspr256, $vrsave
blr
.long 0
.byte 12, 0x14, 0, 0, 2, 0
.long 0
.size .gcm_gmult_p8..., -.gcm_gmult_p8
.globl .gcm_ghash_p8
.align 5
.gcm_ghash_p8:
lir0,-4096
lir8,0x10
mfspr$vrsave,256
lir9,0x20
mtspr256,r0
lir10,0x30
lvx_u$Xl,0,$Xip# load Xi

lvx_u$SHl,r8,$Shbl# load pre-computed table
lir8,0x40
le?lvx$slemask,r0,r0
lvx_u$SHl,r9,$Shbl
lir9,0x50
le?vspiisb$t0,0x07
lvx_u$SHh,r10,$Shbl
lir10,0x60
le?vperm$Xl,$Xl,$Xl,$slemask
vxor$zero,$zero,$zero

${UCMP}i$len,64
bgegcm_ghash_p8_4x

lvx_u$IN,0,$inp
addi$inp,$inp,16
subic.$len,$len,16
le?vperm$IN,$IN,$IN,$slemask
vxor$IN,$IN,$Xl
beqL.short

lvx_u$H2l,r8,$Shbl# load H^2
lir8,16
lvx_u$H2h,r9,$Shbl
addr9,$inp,$len# end of input
lvx_u$H2h,r10,$Shbl
beqbLoop_2x

.align5
Loop_2x:
lvx_u$IN1,0,$inp
le?vperm$IN1,$IN1,$IN1,$slemask

subic.$len,$len,32
vpmsumd$Xl,$IN,$H2l# H^2.loXi.lo
vpmsumd$Xl1,$IN1,$Hl# H.loXi+1.lo
subfe$r0,r0,r0# borrow?-1:0
vpmsumd$Xm,$IN,$H2# H^2_hiXi.lo+H^2_loXi_hi
vpmsumdxm1,$IN1,$SH# H.hiXi+1.lo+H.loXi+1.hi
andr0,r0,$len
vpmsumdxh,$IN,SH2h# H^2.hiXi.hi
vpmsumdxh1,$IN1,$SHh# H.hiXi+1.hi
add$inp,$inp,r0

vxor$xl,$xl,$xl1
vxor$xm,$xm,$xm1

vpmsumdst2,$xl,$xc2# 1st reduction phase

vsldoist0,$xm,$zero,8
vsldoist1,$zero,$xm,8
vxor$xhr,$xhr,$xhr1
vxor$xl,$xl,$t0
vxor$xhr,$xhr,$t1

vsldoixl,$xl,$xl,8
vxor$xl,$xl,$xl2
lvx_u$IN,r8,$inp
add$inp,$inp,32

vsldoist1,$xl,$xl,8# 2nd reduction phase
vpmsumdxl,$xl,$xc2
le?vperm$IN,$IN,$IN,$lemask
vxorst1,$t1,$xhr
vxor$IN,$IN,$t1
vxor$IN,$IN,$xl1
$UCMPt9,$inp
bgtLoop_2x,$inp
done yet?

cmplwi$len,0
bneLeven

Lshort:
vpmsumdxl,$IN,$SHl# H.loXi.lo
vpmsumdxm,$IN,$SH# H.hiXi.lo+H.loXi.hi
vpmsumdxh,$IN,SHh# H.hiXi.hi

vpmsumdst2,$xl,$xc2# 1st reduction phase

vsldoist0,$xm,$zero,8
vsldoist1,$zero,$xm,8
vxor$xl,$xl,$t0
vxor$xhr,$xhr,$t1

vsldoixl,$xl,$xl,8
vxor$xl,$xl,$xl2
vsldoi$t1,$Xl,$Xl,8# 2nd reduction phase
vpmsumdxl,$Xl,$x$C2
vxor$t1,$t1,$Xh

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

mtspr256,$vrsave
blr
.long0
.byte0,12,0x14,0,0,0,4,0
.long0
___
{
  my ($Xl3,$Xm2,$IN2,$H3l,$H3,$H3h,$Xh3,$Xm3,$IN3,$H4l,$H4,$H4h) = map("v$_",(20..31));
  my $IN0=$IN;
  my ($H21l,$H21h,$loperm,$hiperm) = ($Hl,$Hh,$H2l,$H2h);

  $code.=<<___;
  .align5
  .gcm__ghash_p8_4x:
  Lgcm__ghash_p8_4x:
    $STU		$sp,-$FRAME($sp)
    li		r10,`15+6*$SIZE_T`
    li		r11,`31+6*$SIZE_T`
    stvx		v20,r10,$sp
    addi		r10,r10,32
    stvx		v21,r11,$sp
    addi		r11,r11,32
    stvx		v22,r10,$sp
    addi		r10,r10,32
    stvx		v23,r11,$sp
    addi		r11,r11,32
    stvx		v24,r10,$sp
    addi		r10,r10,32
    stvx		v25,r11,$sp
    addi		r11,r11,32
    stvx		v26,r10,$sp
    addi		r10,r10,32
    stvx		v27,r11,$sp
    addi		r11,r11,32
    stvx		v28,r10,$sp
    addi		r10,r10,32
    stvx		v29,r11,$sp
}
addi r11, r11, 32
stvxv30, r10, $sp
lir10, 0x60
stvxv31, r11, $sp
lir0, -1
stw$vrsave,"$FRAME-4"($sp)# save vrsave
mtspr256, r0# preserve all AltiVec registers

lvsl$t0, 0, r8# 0x0001..0e0f
#lvx_u$H21, r8, $Htbl# load H^2
lir8, 0x70
lvx_u$H21, r9, $Htbl
lir9, 0x80
vsplitsb$t1, 1, # 0x0808..0808
#lvx_u$H2h, r10, $Htbl
lir10, 0x90
lvx_u$H31, r8, $Htbl# load H^3
lir8, 0xa0
lvx_u$H31, r9, $Htbl
lir9, 0xb0
lvx_u$H3h, r10, $Htbl
lir10, 0xc0
lvx_u$H41, r8, $Htbl# load H^4
lir8, 0x10
lvx_u$H41, r9, $Htbl
lir9, 0x20
lvx_u$H4h, r10, $Htbl
lir10, 0x30

vsldoi$t2, $zero, St1, 1, # 0x0000..0808
vaddubm$hiperm, St0, St2# 0x0001..1617
vaddubm$sloperm, St1, $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, $X1
vpsumdx11,$in1,$in3h
vpsumdxm1,$in1,$in3
vpsumdxx1,$in1,$in3h

vperm$h21l,h2,h,slper$m
vperm$s0,$in2,$in3,$loper$m
vperm$h21h,$h2,$h,slper$m
vperm$st1,$in2,$in3,$shiper$m
vpsumdxm2,$in2,$h2#$h^2.loX_i+2.hi+$h^2.hiX_i+2.lo
vpsumdxx3,$st0,$h21l#$h^2.loX_i+2.lo+$h.loX_i+3.lo
vpsumdxm3,$in3,$h#$h.hiX_i+3.lo +$h.loX_i+3.hi
vpsumdxxh3,$st1,$h21h#$h^2.hiX_i+2.hi+$h.hiX_i+3.hi

vxor$xm2,$xm2,$xm1
vxor$x13,$x13,$x11
vxor$xm3,$xm3,$xm2
vxor$xx3,$xh3,$xh1

bl$ltail_4x

Loop_4x:
lvx_u$in0,0,$inp
lvx_u$in1,r8,$inp
subic.$len,$len,4
lvx_u$in2,r9,$inp
lvx_u$in3,r10,$inp
addi$inp,$inp,0x40
le?vperm$in1,$in1,$in1,$lemask
le?vperm$in2,$in2,$in2,$lemask
le?vperm$in3,$in3,$in3,$lemask
le?vperm$in0,$in0,$in0,$lemask

vpsumdxx1,$xh,$h4l#$h^4.loX_i.lo
vpsumdxxm,$xh,$h4#$h^4.hiX_i.$lo+$h^4.loX_i.$hi
vpsumdxxh,$xh,$h4h#$h^4.hiX_i.$hi
vpsumdxxl,$in1,$h3l
vpsumdxxm1,$in1,$h3
vpsumdxxh1,$in1,$h3h

vxor$x1,$x1,$x13
vxor$xm,$xm,$xm3
vxor$xx,$xh,$xh3
vperm$st0,$in2,$in3,$loper$m
vperm$st1,$in2,$in3,$shiper$m

vpsumdxxt2,$x1,$xC2#$1st reduction phase
vpsumdxx3,$st0,$h21l#$h.loX_i+3.lo +$h^2.loX_i+2.lo
vpsumdxxh3,$st1,$h21h#$h.hiX_i+3.hi +$h^2.hiX_i+2.hi
vsldoi	$t0,$Xm,$zero,8
vsldoi	$t1,$zero,$Xm,8
vxor	$Xl,$Xl,$t0
vxor	$Xh,$Xh,$t1

vsldoi	$t0,$Xl,$Xl,8
vxor	$t1,$Xl,$Xl,8

vsldoi	$t1,$Xl,$Xl,8
vxor	$Xl,$Xl,$t2
vsldoi	$t1,$Xl,$Xl,8
vxor	$Xl,$Xl,$t2

vsldoi	$t0,$Xm,$zero,8
vsldoi	$t1,$zero,$Xm,8
vxor	$Xh,$Xh,$Xh3
vxor	$Xl,$Xl,$t0
vxor	$Xh,$Xh,$t1
vsldoi	$t1,$Xl,$Xl,8
vxor	$t1,$t1,$Xh
vxor	$Xl,$Xl,$t1
vxor	$Xh,$Xh,$t1
bge	Loop_4x

Ltail_4x:
vpmsumd	$Xm,$Xh,$H4# 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

addic.	$len,$len,4
beq Ldone_4x

lvx_u $IN0,0,$inp
$ { UCMP} i $len,.2
li $len,-4
blt Lone
lvx_u $IN1,r8,$inp
beq Ltwo

Lthree:
lvx_u $IN2,r9,$inp
le?vperm $IN0,$IN0,$IN0,$lemask
le?vperm $IN1,$IN1,$IN1,$lemask
le?vperm $IN2,$IN2,$IN2,$lemask

vxor $Xh,$IN0,$Xl
vmr $H4l,$H3l
vmr $H4,$H3
vmr $H4h,$H3h

vperm $st0,$IN1,$IN2,$loperm
vperm $st1,$IN1,$IN2,$hiperm
vpmsumd $Xm2,$IN1,$SH2,$H^2. loXi+1. hi+H^2. hiXi+1. lo
vpmsumd $Xm3,$IN2,$SH,$H. hiXi+2. lo +H. loXi+2. hi
vpmsumd $Xl3,$st0,$SH21,$H^2. loXi+1. lo+H. loXi+2. lo
vpmsumd $Xm3,$st1,$SH21,$H^2. hiXi+1. hi+H. hiXi+2. hi

vxor $Xm3,$Xm3,$Xm2
bLtail_4x

.align 4

Ltwo:
le?vperm $IN0,$IN0,$IN0,$lemask
le?vperm $IN1,$IN1,$IN1,$lemask

vxor $Xh,$IN0,$Xl
vperm $st0,$zero,$IN1,$loperm
vperm $st1,$zero,$IN1,$hiperm

vsldoi $H4l,$zero,$H2,8
vmr $H4,$H2
vsldoi $H4h,$zero,$H2,8

vpmsumd $Xl3,$st0,$SH21,$H. loXi+1. lo
vpmsumd $Xm3,$IN1,$SH,$H. hiXi+1. lo+H. loXi+2. hi
vpmsumd $Xh3,$st1,$SH21,$H. hiXi+1. hi

bLtail_4x
.align4
Lone:
le?vperm$IN0,$IN0,$IN0,$lemask

vsldoi$H4l,$zero,$H,8
vmr$H4, $H
vsldoi$H4h,$H,$zero,8

vxor$Xh,$IN0,$XI
vxor$Xl3,$XL3,$XI3
vxor$Xm3,$XM3,$XM3
vxor$Xh3,$XH3,$XH3

bLtail_4x

Ldone_4x:
le?vperm$XI,$XI,$XI,$lemask
stvx_u$XI,0,$Xip# write out Xi

lir10,'15+6*$SIZE_T'
lir11,'31+6*$SIZE_T'
mtspr256,$vrsave
lvxx20,r10,$sp
addr10,r10,32
lvxx21,r11,$sp
addr11,r11,32
lvxx22,r10,$sp
addr10,r10,32
lvxx23,r11,$sp
addr11,r11,32
lvxx24,r10,$sp
addr10,r10,32
lvxx25,r11,$sp
addr11,r11,32
lvxx26,r10,$sp
addr10,r10,32
lvxx27,r11,$sp
addr11,r11,32
lvxx28,r10,$sp
addr10,r10,32
lvxx29,r11,$sp
addr11,r11,32
lvxx30,r10,$sp
lvxx31,r11,$sp
addi$sp,$sp,$FRAME
blr
.long0
.byte 0,12,0x04,0,0x80,0,4,0
.long 0

} $code.=<<
.size gcm_ghash_p8,-.gcm_ghash_p8

.asciz "GHASH for PowerISA 2.07, CRYPTOGRAMS by <appro@openssl.org>"
.align 2

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

close STDOUT; # enforce flush

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/modes/asm/ghashp8-ppc.pl

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  2.0.16/fips/rand/fips_drbg_selftest.h
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0-16-tar-gz/openssl-fips-2.0.16/crypto/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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2.0.16/fips/des/fips_desmovs.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_aesavs.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-
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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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# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# 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-]*\.$+$/)) {}  
open STDOUT,">$output";

($CTXA,$INP,$NUM) = ("A4","B4","A6");  # arguments
$K512="A3";

($Ahi,$Actxhi,$Bhi,$Bctxhi,$Chi,$Cctxhi,$Dhi,$Dctxhi,
 $Ehi,$Ectxhi,$Fhi,$Gctxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Clo,$Cctxlo,$Dlo,$Dctxlo,
 $Elo,$Ectxlo,$Flo,$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
.asgsha512_block_data_order,sha512_block_data_order
.endif

.asgB3,RA
.asgA15,FP
.asgB15,SP

.if BIG_ENDIAN
.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]|ADD0,SP,SP; alloca(128)
    .if __TI_EABI__
|| [A0]|ANDB0,SP,SP; align stack at 128 bytes
|| [A0]|ADDKPC__sha512_block,B1
|| [A0]|MVKL$PCR_OFFSET(K512,__sha512_block),$K512
|| [A0]|MVKH$PCR_OFFSET(K512,__sha512_block),$K512
|| [A0]|SUBAWS,2,SP; reserve two words above buffer
    .else
|| [A0]|ANDB0,SP,SP; align stack at 128 bytes
|| [A0]|ADDKPC__sha512_block,B1
|| [A0]|MVK(K512__sha512_block),$K512
|| [A0]|MVKH(K512__sha512_block),$K512
|| [A0]|SUBAWS,2,SP; reserve two words above buffer
    .endif
ADDAWS,3,$Xilo
ADDAWS,4*2,$Xihi; ADDAWS,2,$Xihi

.MVSCX,A,SCTXB
LDW*{CTXA}[0^LITTLE_ENDIAN],Sahi; load ctx
|| LDW*{CTXB}[1^LITTLE_ENDIAN],SAl
|| ADDB1,$K512,$K512
LDW*{CTXA}[2^LITTLE_ENDIAN],Sahi
|| LDW*{CTXB}[3^LITTLE_ENDIAN],Sahi
LDW*{CTXA}[4^LITTLE_ENDIAN],Sahi
|| LDW*{CTXB}[5^LITTLE_ENDIAN],Sahi

LDW*{CTXA}[6^\.LITTLE_ENDIAN],SDhi
|LDW*{CTXB}[7^\.LITTLE_ENDIAN],SDlo
LDW*{CTXA}[8^\.LITTLE_ENDIAN],SEhi
|LDW*{CTXB}[9^\.LITTLE_ENDIAN],SElo
LDW*{CTXA}[10^\.LITTLE_ENDIAN],SFhi
|LDW*{CTXB}[11^\.LITTLE_ENDIAN],SFlo
LDW*{CTXA}[12^\.LITTLE_ENDIAN],SGhi
|LDW*{CTXB}[13^\.LITTLE_ENDIAN],SGlo
LDW*{CTXA}[14^\.LITTLE_ENDIAN],SHhi
|LDW*{CTXB}[15^\.LITTLE_ENDIAN],SHlo

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
|MVDSDhi,$Dctxhi
|MVDSDlo,$Dctxlo
MV$Ehi,$Ectxhi
|MV$Elo,$Ectxlo
|MV$Fhi,$Fctxhi
|MV$Flo,$Fctxlo
|MV$Ghi,$Gctxhi
|MV$Glo,$Gctxlo
|MVDS$Hhi,$Hctxhi
|MVDS$Hlo,$Hctxlo
loop0_15?:
|if.BIG_ENDIAN
MVB11,$T1hi
|MVB10,$T1lo
|else
SWAP4B10,$T1hi
|SWAP4B11,$T1lo
SWAP4ST1hi,$T1hi
|SWAP4ST1lo,$T1lo
|endif
STWST1hi,*$Xihi++[2]; original loop16_79?
|STWST1lo,*$Xiilo++[2]; X[i] = T1
|ADD$Hhi,$T1hi,$T1hi
|ADDUS$Hlo,$T1lo,$T1carry:$T1lo; T1 += h
|SHRUSEhi,14,$S1hi
SHLSEhi,32-14,$S1lo
loop16_79?:
XORSFhi,$Ghi,$CHhi
XORSFlo,$Glo,$CHlo
ADDKHI,$T1hi,$T1hi
ADDUKLO,$T1carry,$T1lo,$T1lo; T1 += K512[i]
SHRUSElo,14,$t0lo
SHLSElo,32-14,$t0hi
XORS$lo,$S1hi,$S1hi
XORS$lo,$S1lo,$S1lo
ANDSEhi,$CHhi,$CHhi
ANDSElo,$CHlo,$CHlo
ROTL$Ghi,0,$Hhi
ROTL$Glo,0,$Hlo; h = g
SHRUSEhi,18,$t0hi
SHLSEhi,32-18,$t0lo
XORS$lo,$S1hi,$S1hi
XORS$lo,$S1lo,$S1lo
XOR$Ghi,$CHhi,$CHhi
XOR$Glo,$CHlo,$CHlo; Ch(e,f,g) = ((f^g)&e)^g
ROTL$Fhi,0,$Ghi
ROTL$Flo,0,$Glo; g = f
SHRUSElo,18,$t0lo
SHLSElo,32-18,$t0hi
XORS$lo,$S1hi,$S1hi
XORS$lo,$S1lo,$S1lo
OR$Ahi,$Bhi,$MAJhi
OR$Alo,$Blo,$MAJlo
ROTL$Ehi,0,$Fhi
ROTL$Elo,0,$Flo; f = e
SHRUSEhi,41-32,$t0lo
SHLSEhi,64-41,$t0hi
XORS$lo,$S1hi,$S1hi
XORS$lo,$S1lo,$S1lo
ANDSChi,$MAJhi,$MAJhi
ANDSClo,$MAJlo,$MAJlo
ROTLS$hi,0,$Ehi
ROTLS$lo,0,$Elo; e = d
SHRUSElo,41-32,$t0hi
SHLSElo,64-41,$t0lo
XORS$lo,$S1hi,$S1hi
XORS$lo,$S1lo,$S1lo; Sigma1(e)
ANDSAhi,$Bhi,$t1hi
ANDSAlo,$Blo,$t1lo
ROTLS$hi,0,$Dhi
ROTLS$lo,0,$Dlo; d = c
SHRUSEhi,28,$S0hi
SHLS$hi,32-28,$S0lo
OR$t1hi,$MAJhi,$MAJhi
|| OR$t1lo,$MAJlo,$MAJlo; Maj(a,b,c) = ((a|b)&c)|(a&b)
|| ADDSCHhi,ST1hi,$T1hi
|| ADDUSCHlo,ST1carry:$T1lo,$T1carry:$T1lo; T1 += Ch(e,f,g)
|| ROTL$Bhi,0,$SChi
|| ROTLS$Bllo,0,$Cllo; c = b
|| SHRUS$Alo,28,$St0lo
|| SHLS$Alo,32-28,$St0hi
XOR$t0hi,$S0hi,$S0hi
|| XOR$t0lo,$S0lo,$S0lo
|| ADDS$1hi,ST1hi,$T1hi
|| ADDUS$1lo,ST1carry:$T1lo,$T1carry:$T1lo; T1 += Sigma1(e)
|| ROTL$Ahi,0,$Bhi
|| ROTL$Alo,0,$Blo; b = a
|| SHRUS$Ahi,34-32,$St0lo
|| SHLS$Ahi,64-34,$St0hi
XOR$t0hi,$S0hi,$S0hi
|| XOR$t0lo,$S0lo,$S0lo
|| ADDSMAJhi,$T1hi,$T2hi
|| ADDUSMAJlo,ST1carry:$T1lo,$T2carry:$T2lo; T2 = T1+Maj(a,b,c)
|| SHRUS$Alo,34-32,$St0lo
|| SHLS$Alo,64-34,$St0lo
XOR$t0hi,$S0hi,$S0hi
|| XOR$t0lo,$S0lo,$S0lo
|| ADDS$Ehi,ST1hi,$T1hi
|| ADDUSE$lo,ST1carry:$T1lo,$T1carry:$T1lo; T1 += e
|| SHRUS$Ahi,39-32,$St0lo
|| SHLS$Ahi,64-39,$St0hi
[B0]BNOPloop0_15?
|| [B0]LDNDW*$INP++,B11:B10; pre-fetch input
XOR$t0hi,$S0hi,$S0hi
|| XOR$t0lo,$S0lo,$S0lo
|| SHRUS$Alo,39-32,$St0hi
|| SHLS$Alo,64-39,$St0lo
|| ![B0]LDW*$[Xihi][28].$T1hi
|| ![B0]LDW*$[Xilo][28].$T1lo; X[i+14]
XOR$t0hi,$S0hi,$S0hi
|| XOR$t0lo,$S0lo,$S0lo; Sigma0(a)
|| ADDST1carry,ST1hi,$Ehi
|| ROTLST1lo,0,$Elo; e = T1, "ghost" value
|| ![B1]BNOPbreak?
ADDSS$0hi,$T2hi,$T2hi
|| ADDUS$S0lo,ST2carry:$T2lo,$T2carry:$T2lo; T2 += Sigma0(a)
|| ![B1]LDNDW*$K512++,$Khi:$Klo; pre-fetch K512[i]
NOP; avoid cross-path stall
ADDST2carry,$T2hi,$Ahi
|| MVST2lo,$Alo; a = T2
|| ![B0]SUBB0,1,B0
;====== branch to loop00_15? is taken here
[B1]LDW*${Xihi}[2],ST2hi
|| [B1]LDW*${Xilo}[2],ST2lo; X[i+1]
|| [B1]SHRUST1hi,19,$S1hi
|| [B1]SHLST1hi,32-19,$S1lo
[B1]SHRUST1lo,19,$t0lo
|| [B1]SHLST1lo,32-19,$t0hi
;====== branch to break? is taken here
XOR$t0hi,$S1hi,$S1hi
|| XOR$t0lo,$S1lo,$S1lo
|| SHRU$T1hi,61-32,$t0lo
|| SHL$T1hi,64-61,$t0hi
XOR$t0hi,$S1hi,$S1hi
|| XOR$t0lo,$S1lo,$S1lo
|| SHRU$T1lo,61-32,$t0lo
|| SHL$T1lo,64-61,$t0hi
XOR$t0hi,$S1hi,$S1hi
|| XOR$t0lo,$S1lo,$S1lo
|| SHRU$T1hi,6,$t0hi
|| SHL$T1hi,32-6,$t0lo
XOR$t0hi,$S1hi,$S1hi
|| XOR$t0lo,$S1lo,$S1lo
|| SHRU$T1lo,6,$t0lo
|| LDW*${Xihi}[18],$T1hi
|| LDW*${Xilo}[18],$T1lo; X[i+9]
XOR$t0lo,$S1lo,$S1lo; sigma1(X[i+14])
|| LDW*${Xihi}[0],SCHhi
|| LDW*${Xilo}[0],SCHlo; X[i]
|| SHRUST2hi,1,$S0hi
|| SHLST2hi,32-1,$S0lo
SHRUST2lo,1,$t0lo
|| SHLST2lo,32-1,$t0hi
XOR$t0hi,$S0hi,$S0hi
|| XOR$t0lo,$S0lo,$S0lo
|| SHRUST2hi,8,$t0hi
|| SHLST2hi,32-8,$t0lo
XOR$t0hi,$S0hi,$S0hi
|| XOR$t0lo,$S0lo,$S0lo
|| SHRUST2lo,8,$t0lo
|| SHLST2lo,32-8,$t0hi
XOR$t0hi,$S0hi,$S0hi
|| XOR$t0lo,$S0lo,$S0lo
|| ADD$S1hi,$T1hi,$T1hi
|| ADDUS$1lo,$T1lo,$ST1carry;$T1lo; T1 = X[i+9]+sigma1()
|| SHRUST2hi,7,$t0hi
|| SHLST2hi,32-7,$t0lo
XOR$t0hi,$S0hi,$S0hi
```
||XOR$t0lo,$S0lo,$S0lo
||ADD$CHhi,$ST1hi,$ST1hi
||ADDUS$CHlo,$ST1carry:$ST1lo,$ST1lo,$ST1lo; T1 += X[i]
||SHRUST2lo,7,$ST0lo
||[B1]BNOPloop16_79?
XOR$t0lo,$S0lo,$S0lo; sigma0(X[i+1])

ADD$S0hi,$ST1hi,$ST1hi
||ADDUS$S0lo,$ST1carry:$ST1lo,$ST1lo; T1 += sigma0()
||[B1]SUBB1,1,B1
NOP; avoid cross-path stall
ADDST1carry,$ST1hi,$ST1hi

STW$ST1hi,*$Xhi++[2]; copied "top" bundle
||STW$ST1lo,*$Xilo++[2]; X[i] = T1
||ADD$S$hi,$ST1hi,$ST1hi
||ADDUS$Hlo,$ST1lo,$ST1carry:$ST1lo; T1 += h
||SHRUSEhi,14,$$S$hi
||SHL$Ehi,32-14,$$S$lo
;;===== branch to loop16_79? is taken here
break?:
ADD$SAhi,$Actxhi,$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$SBhi,$Bctxhi,$Bhi
||ADDUS$Blo,$Bctxlo,$Bctxlo;$Blo
|[A0]LD$D*SK512++,SKhi:SKlo; pre-fetch K512[0]

ADD$S$chi,$Cctxhi,$C$hi
||ADDUS$Clo,$Cctxlo,$Cctxlo;$C$lo
||ADD$Actxlo,$$A$hi,$$$A$hi
||[!A0]MV$CTXA,$CTXB
ADD$D$hi,$Dctxhi,$D$hi
||ADDUS$Dlo,$Dctxlo,$Dctxlo;$D$lo
||ADD$B$ctxlo,$$$B$hi,$$$B$hi
||[!A0]STWS$Ahi,*{CTXA}[0^LITTLE_ENDIAN]; save ctx
||[!A0]STWS$Alo,*{CTXB}[1^LITTLE_ENDIAN]
ADD$E$chi,$Cctxhi,$$$E$hi
||ADDUS$E$lo,$Ectxlo,$Ectxlo;$$$E$lo
||ADD$Cctxlo,$$$C$hi,$$$C$hi
||[A0]BNOPouterloop?
||[!A0]STWS$Bhi,*{CTXA}[2^LITTLE_ENDIAN]
||[!A0]STWS$Blo,*{CTXB}[3^LITTLE_ENDIAN]
ADD$F$hi,$Dctxhi,$$$F$hi
||ADDUS$F$lo,$Fctxlo,$Fctxlo;$$$F$lo
||ADD$Dctxlo,$$$D$hi,$$$D$hi
||[!A0]STWS$Chi,*{CTXA}[4^LITTLE_ENDIAN]
```
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||!A0|STWSClo,*{$CTXB}[5^.LITTLE_ENDIAN]
ADDSGhi,SGctxhi,SGhi
||ADDUSGlo,SGctxlo,SGctxlo:SGlo
||ADDSGctxlo,SGhi,SGhi
||!A0|STWSDhi,*{$CTXA}[6^.LITTLE_ENDIAN]
||!A0|STWSDlo,*{$CTXB}[7^.LITTLE_ENDIAN]
ADDSHhi,SHctxhi,SHhi
||ADDUSHlo,SHctxlo,SHctxlo:SHlo
||ADDSFctxlo,SHhi,SFhi
||!A0|STWSEthi,*{$CTXA}[8^.LITTLE_ENDIAN]
||!A0|STWSEthlo,*{$CTXB}[9^.LITTLE_ENDIAN]
ADDSGctxlo,SGhi,SGhi
||!A0|STWSFhi,*{$CTXA}[10^.LITTLE_ENDIAN]
||!A0|STWSFlo,*{$CTXB}[11^.LITTLE_ENDIAN]
ADDSHctxlo,SHhi,SHhi
||!A0|STWSGhi,*{$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
||BNOPRA
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
.align128
K512:
.uword0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
.uword0xb5c0fbcf,0xec4d3b2f, 0x3b1696b1
.uword0xb5c0fbcf,0xec4d3b2f, 0x3b1696b1
.uword0xd807aa98,0xa3030242, 0x12835b01,0x45706fbe
.uword0x72be5d74,0xf27b896f, 0x3b1696b1
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
No license file was found, but licenses were detected in source scan.

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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/ecp_smpl.c

1.73 tdb 1.42.9
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1.75 netbsd-resolv 2.17 196.el7_4.2

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1.76 zlib 1.2.8

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1.77 pcre 8.32 15.el7_2.1
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Written by: Philip Hazel
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1.78 python 3.3.0

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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.

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

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

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

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Mersenne Twister
----------------

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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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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The :mod:`xmlrpc.client` module contains the following notice::

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Select kqueue
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--------

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Original location:
https://github.com/majek/csiphash/
Solution inspired by code from:
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  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
-------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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zlib
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cfuhash
-------

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1.86 tdb 1.44.3
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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>.

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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_SHLIB) $(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-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 <ttyso@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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Index: tdbsa/tdb.c

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

Open Source Used In FXOS MIO 2.10.1.166 1187
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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

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

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

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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   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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entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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To apply these terms, attach the following notices to the library.
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<one line to give the library's name and a brief idea of what it
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Copyright (C) <year> <name of author>

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

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

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

That's all there is to it!
This package was debianized by 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.

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Copyright information:

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

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

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

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

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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.

-- 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 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> 
> 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

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 didnt 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 dictact to application writes what license they should be using.

thus LGPL-2.1 enters to fill this void.

=2Dmike

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
point,
> > it was enough to just get it consistent and documented as to what
it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
>=20
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong, it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
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 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 l91Gxptr020623
 for <nneul@umr.edu> ; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org> ; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 11cOcX-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: <1b1b3fd80710010908k11dadc0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dadc0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=UTF-8; delsp=yes; format=flopped
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFE6E9F@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
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-) 

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

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

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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=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.

-- 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 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> 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:
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> and see if he wants to relicense his code as LGPL... but at this point,
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> clarification of the licensing that was already in place.

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

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
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> > released under. This wasn't actually a license change, just a
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> > applications are also GPL-2 which imo is just wrong. it isnt the
> > place of a
> > library to dictact to application writes what license they should
> be using.
thus LGPL-2.1 enters to fill this void.

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
> > > 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 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 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 2C7734D31
  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)
In-Reply-To: <1b1b3fd8071010010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
  <EC907132772D2BE41B71100CD74E235CEF44F38@UMR-CMAIL1.umr.edu>
  <1b1b3fd8071010010908k11dac0afp1f2dd471059ff9a4@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
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? :-)
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Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
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1.105 tk 8.5.8

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Bell Labs Innovations for Lucent Technologies
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1.110 pcre 8.44
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THE BASIC LIBRARY FUNCTIONS

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1.111 bzip2 1.0.6

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jseward@acm.org

bzip2/libbzip2 version 1.0.2 of 30 December 2001

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 minibz2
 libbz2.dll test program.
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 usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
 */

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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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The End

1.120 sudo 1.8.19p2-10.el7

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Ackeret, Matt
Adler, Mark
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Anderson, Jamie
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The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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

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

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

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

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

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

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c-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.

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***** END LICENSE BLOCK *****
@(#) RCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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1.122 gnutls 3.6.4

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## version 0.1
##
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##
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.125 findutils 4.6.0
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1.134 kerberos 1.10.3

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 lib/krb5/kdb/kdb_convert.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
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
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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---------------------------------------------------------------------------

pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.148 grub 2.16

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1.153 libxcursor 1.1.13
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1.163 gtk 2.24.10

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/* ----------------------------------------------------------------------- */

*/

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* /opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/extern.h

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* /opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
  hpa/tftp/main.c
* /opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
  hpa/tftp/tftp.c

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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

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

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

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

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

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT} %{_bindir}
mkdir -p ${RPM_BUILD_ROOT} %{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT} %{_sbindir}
make INSTALLROOT=${RPM_BUILD_ROOT}
   SBINDIR=%{_sbindir} MANDIR=%{_mandir}
   install
install -m755 -d ${RPM_BUILD_ROOT} %{_sysconfdir}/xinetd.d/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)
%/bin/tftp
%/etc/%{mandir}/man1/*

%files server
%defattr(-,root,root)
%/etc/%{sysconfdir}/xinetd.d/tftpboot
%/etc/tftpboot
%/etc/%{bindir}/in.tftpd
%/etc/%{mandir}/man8/*
%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

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

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

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

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

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Sat Jan  6 2001 Jeff Johnson <bjj@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 <bjj@redhat.com>
  - correct group.
* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

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

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

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

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

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

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

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

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

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

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

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

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

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

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.
* Fri Aug  7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

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

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

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

Found in path(s):
  * /opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
    hpa/tftp.spec.in
No license file was found, but licenses were detected in source scan.

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  * /opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
    hpa/MCONFIG.in

1.165 xz 5.1.2 12alpha.el7

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1.167 sudo 1.8.6p7 16.el7

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

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1.171 boost 1.68.0

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.
The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchoeffmann@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(age@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.) Boost Software License - Version 1.0 - August 17th, 2003

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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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1.176 e2fsprogs 1.42.9 7.el7
1.176.1 Available under license :
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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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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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 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>.

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This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o
23-June-2007

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

That's all there is to it!

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

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

BSDLIB = $(BSDLIB_IMAGE).so.$(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) $(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the 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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Gadi Oxman, August 1995

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1.181 curl 7.28.1
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===============

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

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particular problem was addressed when the [Modified BSD
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1.182 iproute 3.10.0 54.el7_2.1

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Version 2, June 1991

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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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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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Original code by Lee Thomason (www.grinninglizard.com)

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** @mainpage

<h1> TinyXML </h1>
TinyXML is a simple, small, C++ XML parser that can be easily integrated into other programs.

<h2>What it does.</h2>

In brief, TinyXML parses an XML document, and builds from that a Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create your own document markups. Where HTML does a very good job of marking documents for browsers, XML allows you to define any kind of document markup, for example a document that describes a "to do" list for an organizer application. XML is a very structured and convenient format. All those random file formats created to store application data can all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to read spec is at [http://www.w3.org/TR/2004/REC-xml-20040204/](http://www.w3.org/TR/2004/REC-xml-20040204/). An intro to XML (that I really like) can be found at [http://skew.org/xml/tutorial/](http://skew.org/xml/tutorial/).

There are different ways to access and interact with XML data. TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed into a C++ objects that can be browsed and manipulated, and then written to disk or another output stream. You can also construct an XML document from scratch with C++ objects and write this to disk or another output stream.

TinyXML is designed to be easy and fast to learn. It is two headers and four cpp files. Simply add these to your project and off you go. There is an example file - xmltest.cpp - to get you started.

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TinyXML attempts to be a flexible parser, but with truly correct and compliant XML output. TinyXML should compile on any reasonably C++ compliant system. It does not rely on exceptions or RTTI. It can be compiled with or without STL support. TinyXML fully supports the UTF-8 encoding, and the first 64k character entities.

<h2>What it doesn't do.</h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs (eXtensible Stylesheet Language.) There are other parsers out there.
(check out www.sourceforge.org, search for XML) that are much more fully featured. But they are also much bigger, take longer to set up in your project, have a higher learning curve, and often have a more restrictive license. If you are working with browsers or have more complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

@verbatim
<!DOCTYPE Archiv [
  <!ELEMENT Comment (#PCDATA)>
]> @endverbatim

because TinyXML sees this as a !DOCTYPE node with an illegally embedded !ELEMENT node. This may be addressed in the future.

<h2>Tutorials.</h2>

For the impatient, here is a tutorial to get you going. A great way to get started, but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2>Code Status.</h2>

TinyXML is mature, tested code. It is very stable. If you find bugs, please file a bug report on the sourceforge web site (www.sourceforge.net/projects/tinyxml). We'll get them straightened out as soon as possible.

There are some areas of improvement; please check sourceforge if you are interested in working on TinyXML.

<h2>Related Projects</h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

<ul>
  <li><b>TinyXPath</b> (http://tinyxpath.sourceforge.net). TinyXPath is a small footprint XPath syntax decoder, written in C++.</li>
  <li><b>TinyXML++</b> (http://code.google.com/p/ticpp/). TinyXML++ is a completely new interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling.</li>
</ul>

<h2>Features</h2>
<h3>Using STL</h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML uses the std::string class, and fully supports std::istream, std::ostream, operator<<, and operator>>. Many API methods have both 'const char*' and 'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All the string classes are implemented by TinyXML itself. API methods all use the 'const char*' form for input.

Use the compile time #define:

TIXML_USE_STL

to compile one version or the other. This can be passed by the compiler, or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment variable TINYXML_USE_STL=YES/NO will control STL compilation. In the Windows project file, STL and non STL targets are provided. In your project, it's probably easiest to add the line "#define TIXML_USE_STL" as the first line of tinyxml.h.

<h3>UTF-8</h3>

TinyXML supports UTF-8 allowing to manipulate XML files in any language. TinyXML also supports "legacy mode" - the encoding used before UTF-8 support and probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However, by setting the value of TIXML_DEFAULT_ENCODING in the header file, TinyXML can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:
<ol>
<li> If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf) begin the file or data stream, TinyXML will read it as UTF-8. </li>
<li> If the declaration tag is read, and it has an encoding="UTF-8", then TinyXML will read it as UTF-8. </li>
<li> If the declaration tag is read, and it has no encoding specified, then TinyXML will read it as UTF-8. </li>
<li> If the declaration tag is read, and it has an encoding="something else", then TinyXML will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's not clear what that mode does exactly, but old content should keep working. </li>
<li> Until one of the above criteria is met, TinyXML runs in Legacy Mode. </li>
</ol>
What happens if the encoding is incorrectly set or detected? TinyXML will try to read and pass through text seen as improperly encoded. You may get some strange results or mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile( TIXML_ENCODING_LEGACY ) or LoadFile( filename, TIXML_ENCODING_LEGACY ). You may force it to use legacy mode all the time by setting TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY. Likewise, you may force it to TIXML_ENCODING_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You don't need to be aware of UTF-8 or change your code in any way. You can think of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode!
TinyXML does not use or directly support wchar, TCHAR, or Microsoft's _UNICODE at this time.
It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding.
Text encoded as SHIFT-JIS can not be read by TinyXML.
A good text editor can import SHIFT-JIS and then save as UTF-8.

The `<a href="http://skew.org/xml/tutorial/">Skew.org link</a>` does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file "utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that Print() or printf() cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

<h3> Entities </h3>
TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:

@verbatim
These are recognized when the XML document is read, and translated to their UTF-8 equivalents. For instance, text with the XML of:

```
@verbatim
Far &amp; Away
@endverbatim
```
will have the Value() of "Far & Away" when queried from the TiXmlText object, and will be written back to the XML stream/file as an ampersand. Older versions of TinyXML "preserved" character entities, but the newer versions will translate them into characters.

`@verbatim` Far &amp; Away `@endverbatim`

Additionally, any character can be specified by its Unicode code point:
The syntax "&amp;#xA0;" or "&amp;#160;" are both to the non-breaking space character.

`<h3> Printing </h3>`
TinyXML can print output in several different ways that all have strengths and limitations.

- `Print( FILE* )`. Output to a std-C stream, which includes all C files as well as stdout.
- "Pretty prints", but you don't have control over printing options.
- The output is streamed directly to the FILE object, so there is no memory overhead in the TinyXML code.
- used by `Print()` and `SaveFile()`

- `operator<<`. Output to a c++ stream.
- Integrates with standart C++ iostreams.
- Outputs in "network printing" mode without line breaks. Good for network transmission and moving XML between C++ objects, but hard for a human to read.

- `TiXmlPrinter`. Output to a std::string or memory buffer.
- API is less concise
- Future printing options will be put here.
- Printing may change slightly in future versions as it is refined and expanded.

`<h3> Streams </h3>`
With TIXML_USE_STL on TinyXML supports C++ streams (operator <<,>>) streams as well as C (FILE*) streams. There are some differences that you may need to be aware of.

C style output:
- based on FILE*
- the `Print()` and `SaveFile()` methods
Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

C style input:
- based on FILE*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:
- based on std::ostream
- operator<<

Generates condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:
- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that operator>> is somewhat slower than Parse, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>
The world simply does not agree on whether white space should be kept, or condensed. For example, pretend the '_' is a space, and look at "Hello____world". HTML, and at least some XML parsers, will interpret this as "Hello_world". They condense white space. Some XML parsers do not, and will leave it as "Hello___world". (Remember to keep pretending the _ is a space.) Others suggest that __Hello___world__ should become Hello___world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace( bool ) to set the desired behavior. The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace( bool ) before making any calls to Parse XML data, and I don't recommend changing it after
it has been set.

<h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check for null returns from method calls. An error safe implementation can generate a lot of code like:

```verbatim
TiXmlElement* root = document.FirstChildElement( "Document" );
if ( root )
{
    TiXmlElement* element = root->FirstChildElement( "Element" );
    if ( element )
    {
        TiXmlElement* child = element->FirstChildElement( "Child" );
        if ( child )
        {
            TiXmlElement* child2 = child->NextSiblingElement( "Child" );
            if ( child2 )
                // Finally do something useful.
        }
    }
}
@endverbatim

Handles have been introduced to clean this up. Using the TiXmlHandle class, the previous code reduces to:

```verbatim
TiXmlHandle docHandle( &document );
if ( child2 )
    // do something useful
@endverbatim

Which is much easier to deal with. See TiXmlHandle for more information.

<h3> Row and Column tracking </h3>

Being able to track nodes and attributes back to their origin location in source files can be very important for some applications. Additionally, knowing where parsing errors occurred in the original source can be very time saving.

TinyXML can tracks the row and column origin of all nodes and attributes in a text file. The TiXmlBase::Row() and TiXmlBase::Column() methods return
the origin of the node in the source text. The correct tabs can be configured in TiXmlDocument::SetTabSize().

<h2>Using and Installing</h2>

To Compile and Run xmltest:

A Linux Makefile and a Windows Visual C++ .dsw file is provided. Simply compile and run. It will write the file demotest.xml to your disk and generate output on the screen. It also tests walking the DOM by printing out the number of nodes found using different techniques.

The Linux makefile is very generic and runs on many systems - it is currently tested on mingw and MacOSX. You do not need to run 'make depend'. The dependencies have been hard coded.

<h3>Windows project file for VC6</h3>
<ul>
<li>tinyxml: tinyxml library, non-STL</li>
<li>tinyxmlSTL: tinyxml library, STL</li>
<li>tinyXmlTest: test app, non-STL</li>
<li>tinyXmlTestSTL: test app, STL</li>
</ul>

<h3>Makefile</h3>
At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML_USE_STL. Details (such that they are) are in the makefile.

In the tinyxml directory, type "make clean" then "make". The executable file 'xmltest' will be created.

<h3>To Use in an Application:</h3>

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

<h2>How TinyXML works.</h2>
An example is probably the best way to go. Take:

```xml
<?xml version="1.0" standalone="no">
<!-- Our to do list data -->
<ToDo>
<Item priority="1"> Go to the <bold>Toy store!</bold> </Item>
<Item priority="2"> Do bills </Item>
</ToDo>
@endverbatim
```

Its not much of a To Do list, but it will do. To read this file (say "demo.xml") you would create a document, and parse it in:

```cpp
TiXmlDocument doc( "demo.xml" );
doc.LoadFile();
@endverbatim
```

And its ready to go. Now lets look at some lines and how they relate to the DOM.

```xml
<?xml version="1.0" standalone="no">
@endverbatim
```

The first line is a declaration, and gets turned into the TiXmlDeclaration class. It will be the first child of the document node.

This is the only directive/special tag parsed by TinyXML. Generally directive tags are stored in TiXmlUnknown so the commands won't be lost when it is saved back to disk.

```xml
<!-- Our to do list data -->
@endverbatim
```

A comment. Will become a TiXmlComment object.

```xml
<ToDo>
@endverbatim
```

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.
Creates another TiXmlElement which is a child of the "ToDo" element. This element has 1 attribute, with the name "priority" and the value "1".

@verbatim
Go to the
@endverbatim

A TiXmlText. This is a leaf node and cannot contain other nodes. It is a child of the "Item" TiXmlElement.

@verbatim
<bold>
@endverbatim

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:

@verbatim
TiXmlDocument"demo.xml"
TiXmlDeclaration"version='1.0'" "standalone=no"
TiXmlComment" Our to do list data"
TiXmlElement"ToDo"
TiXmlElement"Item" Attributes: priority = 1
TiXmlText"Go to the "
TiXmlElement"bold"
TiXmlText"Toy store!"
TiXmlElement"Item" Attributes: priority=2
TiXmlText"Do bills"
@endverbatim

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox' configuration file.

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The World Wide Web Consortium is the definitive standard body for XML, and their web pages contain huge amounts of information.


I also recommend "XML Pocket Reference" by Robert Eckstein and published by OReilly...the book that got the whole thing started.

<h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and encouragement. It all helps, and makes this project fun. A special thanks to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still in the documentation.) Lee reviews changes and releases new versions, with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you use TinyXML. Hopefully you will enjoy it and find it useful. Please post questions, comments, file bugs, or contact us at:

www.sourceforge.net/projects/tinyxml

Lee Thomason, Yves Berquin, Andrew Ellerton

*/
1.191 libffi 3.0.13 16.el7
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1.192 binutils 2.31.1
1.192.1 Available under license :

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

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++
Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34] & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.193 libtomcrypt 1.17
1.193.1 Available under license :

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/*
 * SHA-512
 * Implementation derived from LibTomCrypt (Tom St Denis)
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 * guarantee it works.
 * Tom St Denis, tomdenis@gmail.com, http://libtomcrypt.org
 */
```

1.194 dhcp 4.2.5 42.el7.centos
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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfff2bb5b6,

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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1.202 json-cpp 1.8.4

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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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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
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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.

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

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

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

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@enumerate a

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

@sp 1
@item
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@item
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@end enumerate

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

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

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and
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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.

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

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

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Version 3, 29 June 2007

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and
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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.

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recipients a copy of this License along with the Program.

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and you may offer support or warranty protection for a fee.

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
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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.

"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.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
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
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  * (the home page for ispell)
  *
  * An almost complete rewrite of MySpell for use by
  * the Mozilla project has been developed by David Einstein
  * (Deinst@world.std.com). David and I are now
  * working on parallel development tracks to help
  * our respective projects (Mozilla and OpenOffice.org
  * and we will maintain full affix file and dictionary
  * file compatibility and work on merging our versions
  * of MySpell back into a single tree. David has been
  * a significant help in improving MySpell.
* Special thanks also go to La'szlo' Ne'meth
* <nemethl@gyorsposta.hu> who is the author of the
* Hungarian dictionary and who developed and contributed
* the code to support compound words in MySpell
* and fixed numerous problems with the encoding
* case conversion tables.
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1.207 curl 7.54.0

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1.208 pam 1.1.8 12.el7_1.1

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1.209 inetutils 1.9.4

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1.213 tcl 8.5.9

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1.214 html5lib 1.1

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December 15, 2011

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

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<!-- 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>

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</xsl:variable>

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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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THE BASIC LIBRARY FUNCTIONS

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

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

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

1.244 tftp-hpa 5.2

1.244.1 Available under license:
No license file was found, but licenses were detected in source scan.

/*
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 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
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 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/main.c

Ty Coon, President of Vice
No license file was found, but licenses were detected in source scan.

/* -*- c -*- ------------------------------------------------------------- *
 * Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
 * This program is free software available under the same license
 * as the "OpenBSD" operating system, distributed at
 * http://www.openbsd.org/
 * *
 * _______________________________________________________________ */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/config.h

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

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* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/
* *
* _______________________________________________________________ */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.c

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

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

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

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

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

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}
make INSTALLROOT=${RPM_BUILD_ROOT} \ 
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \ 
   install install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${{RPM_BUILD_ROOT}}/tftpboot install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

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

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

%clean
rm -rf ${RPM_BUILD_ROOT}

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

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

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

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

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

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

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

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

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

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

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

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

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

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29
* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.
* Wed Apr  7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

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

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

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

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

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

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

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec.in
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

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

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

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

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

%build

%configure
make %{?_smp_mflags}

%install
rm -rf %{_build_root}
mkdir -p %{_bindir}
mkdir -p %{_mandir}/man{1,8}
mkdir -p %{_sbindir}
mkmkdir %{_sysconfdir}/xinetd.d/ 
make INSTALLROOT=${_prefix} 
SBINDIR=%{_bindir} MANDIR=%{_mandir} 
install
install -m755 -d %{_sysconfdir}/xinetd.d/ %{_sysconfdir}/xinetd.d/tftpboot
install -m644 tftp-xinetd %{_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 %{_build_root}

%files
%defattr(-,root,root)
%{bindir}/tftp
%{mandir}/man1/*

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

%changelog
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  - removed completely broken "Malta" patch.
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  - Add /tftpboot directory (#88204)

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  - add BuildPreReq on tcp_wrappers

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* 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

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  - automated rebuild

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* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
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  - don't let configure to guess compiler, it can pick up egcs

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  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
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  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
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  - default to being disabled

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  - correct group.
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  - change user from root to nobody

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

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* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
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  - update to 0.17.

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  - fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
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  - update to 0.16.

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  - tftpd should truncate file when overwriting (#412)

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

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

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

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

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

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

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec
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Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/MCONFIG.in
No license file was found, but licenses were detected in source scan.

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\"DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
\"OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
\"HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
\"LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
\"OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
\"SUCH DAMAGE.
\""
\"----------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in
No license file was found, but licenses were detected in source scan.

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* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h
No license file was found, but licenses were detected in source scan.

\" -*- nroff -*- --------------------------------------------------------- *
\""
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----------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

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*
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* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* --------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.h
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftp/extern.h
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h

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

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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c

1.245 pam 1.3.0-r5

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1.246 dropbear 2013.58

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1.247 unzip 6.0 15.el7

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

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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch],
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--------------------------------------------------------------------------------
1.248 util-linux 2.32.1

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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:$<

$(BSDLIB_LIB): $<OBJS)
(cd pic; ld -Bshareable -o $(BSDLIB_LIB) $(LDFLAGS_SHLIB) $<OBJS))
$(MV) pic/$(BSDLIB_LIB) .
$(RM) -f ../$(BSDLIB_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

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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
- *
- Copyright (C) Andrew Tridgell 2005
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** NOTE! The following LGPL license applies to the tdb
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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
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It is part of the main e2fsprogs distribution, which can be found at:

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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 form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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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* National Center for Supercomputing Applications
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* 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)

/*

For the expat xml parser component:

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 * 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)

*/

For the expat xml parser component:

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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
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*
* M. Welsh, 6 July 1996
* 
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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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(1)

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

Preamble

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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.

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

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

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

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

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Once this change is made in a given copy, it is irreversible for
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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.

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

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

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

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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
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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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1.267 curl 7.18.2
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1.268 free-type 2.5.3

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Keith Packard wrote the pcf driver found in XFree86. His work is at the same time the specification and the sample implementation of the PCF format. Undoubtedly, this driver is inspired from his work.

1.269 sed 4.2.2
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1.273 cjson 3.6-r0

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Also thanks to all the people who reported bugs and suggested new features.

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lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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/* number.c: Implements arbitrary precision numbers. */
/*

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us-mail: Philip A. Nelson
        Computer Science Department, 9062
        Western Washington University
        Bellingham, WA 98226-9062

*************************************************************************/

#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
cbc_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;
}

/* Intialize 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_ref++;
    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);
    }
} else {
    /* 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 = 0;
        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);
      break;
    case 0:
      /* They are equal! return zero! */
      res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
      diff = bc_new_num (1, res_scale);
      memset (diff->n_value, 0, res_scale+1);
      break;
    case 1:
      /* n2 is less than n1, subtract n2 from n1. */
      diff = _bc_do_sub (n1, n2, scale_min);
      diff->n_sign = n1->n_sign;
      break;
  }
  /* Clean up and return. */
  bc_free_num (result);
  *result = diff;
}
/* Here is the full add routine that takes care of negative numbers.
 N1 is added to N2 and the result placed into RESULT. SCALE_MIN
 is the minimum scale for the result. */

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

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

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

/* Recursive vs non-recursive multiply crossover ranges. */
#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)
                carry = 1;
            *accp-- += BASE;
        }
    } 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 = u0 + u1*(b^n)
Let v = v0 + v1*(b^n)
Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0
B is the base of storage, number of digits in u1,u0 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 = (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);
}

_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);
bcs_init_num(&d2);
bcs_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bcs_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

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

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

if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlens, 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! */
broadcast_num (&u1);
broadcast_num (&u0);
broadcast_num (&v1);
broadcast_num (&m1);
broadcast_num (&v0);
broadcast_num (&m2);
broadcast_num (&m3);
broadcast_num (&d1);
broadcast_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)
broadcast n1, n2, *prod;
int scale;
{
    broadcast pval;
    int len1, len2;
    int full_scale, prod_scale;

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

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

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

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

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

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

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

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

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

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

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

    /* Set up the divide. Move the decimal point on n1 by n2's scale.
        Remember, zeros on the end of num2 are wasted effort for dividing. */
    scale2 = n2->n_scale;
    n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
    while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

    len1 = n1->n_len + scale2;
    scale1 = n1->n_scale - scale2;
    if (scale1 < scale)
        extra = scale - scale1;
else
    extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
  n2ptr = num2;
while (*n2ptr == 0)
  {
    n2ptr++;
    len2--;
  }
/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
  {
    qdigits = scale+1;
    zero = TRUE;
  }
else
  {
    zero = FALSE;
    if (len2>len1)
      qdigits = scale+1; /* One for the zero integer part. */
    else
      qdigits = len1-len2+scale+1;
  }
/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale, scale);
memset (qval->n_value, 0, qdigits);
/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory();
/* Now for the full divide algorithm. */
if (!zero)
  {
    /* Normalize */
    norm = 10 / ((int)*n2ptr + 1);
    if (norm != 1)
```c
void _one_mult(int num1, int len1, int scale, int extra, int norm, int n_value) {
    _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 \texttt{NUM1 / NUM2} and \texttt{NUM1 \% NUM2} and puts the results in \texttt{QUOT} and \texttt{REM}, except that if \texttt{QUOT} is NULL then that store will be omitted. */

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

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

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

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

    if (quot)
    {
        bc_free_num (quot);
        *quot = quotient;
    }

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

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

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

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

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

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

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

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

  /* Check the exponent for scale digits. */
  if (exponent->n_scale != 0)
    {
      bc_rt_warn ("non-zero scale in exponent");
      bc_divide (exponent, _one_, &exponent, 0); /*truncate */
    }

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

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

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

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

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

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

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

    /* Special case if exponent is a zero. */
    if (exponent == 0)
    {
        bc_free_num(result);
        *result = bc_copy_num(_one_);
        return;
    }
/* Other initializations. */
if (exponent < 0)
{
    neg = TRUE;
    exponent = -exponent;
    rscale = scale;
}
else
{
    neg = FALSE;
    rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
}

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

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

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

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

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

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

    /* Initialize the variables. */
    rscale = MAX (scale, (*num)->n_scale);
    bc_init_num(&guess);
    bc_init_num(&guess1);
    bc_init_num(&diff);
    point5 = bc_new_num (1,1);
    point5->n_value[1] = 5;
/* Calculate the initial guess. */
if (cmp_res < 0)
{
    /* The number is between 0 and 1. Guess should start at 1. */
    guess = bc_copy_num (_one_);
    cscale = (*num)->n_scale;
}
else
{
    /* The number is greater than 1. Guess should start at 10^(exp/2). */
    bc_int2num (&guess,10);

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

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
    bc_divide (*num, guess, &guess, cscale);
    bc_add (guess, guess1, &guess, 0);
    bc_multiply (guess, point5, &guess, cscale);
    bc_sub (guess, guess1, &diff, cscale+1);
    if (bc_is_near_zero (diff, cscale))
    {
        if (cscale < rscale+1)
            cscale = MIN (cscale*3, rscale+1);
        else
            done = TRUE;
    }
}

/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess, _one_, 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');
            }
        else
            { /* special case ... */
                /* Now the fraction. */
                if (num->n_scale > 0)
                    { /*out_char} ('.');
                    for (index=0; index<num->n_scale; index++)
                        (*out_char) (BCD_CHAR(*nptr++));
                    }
                else
                    { /* special case ... */

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

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

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

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

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

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

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

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

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

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

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

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

    /* Sign. */
    if (val < 0)
        {
            neg = 1;
            val = -val;
        }
    /* Get things going. */
    bptr = buffer;
    *bptr++ = val % BASE;
    val = val / BASE;

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

    /* Make the number. */
    bc_free_num (num);
    *num = bc_new_num (ix, 0);
    if (neg) (*num)->n_sign = MINUS;
/* Assign the digits. */
    vptr = (*num)-n_value;
    while (ix-- > 0)
        *vptr++ = *--bptr;
    }

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

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

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

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

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

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

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

/* Convert strings to bc numbers. Base 10 only.*/
void
bc_str2num (num, str, scale)

  bc_num *num;
  char *str;
  int scale;

{
  int digits, strscale;
  char *ptr, *nptr;
  char zero_int;

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

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

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

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

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

/* pn prints the number NUM in base 10. */
static void
out_char (int c)
{
    putchar(c);
}

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

/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
    char *name;
    unsigned char *num;
    int len;
{
    int i;
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer’s own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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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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<!-- $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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1.291 msgpack 1.0.2

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END OF TERMS AND CONDITIONS

1.292 bsd-mailx 12.5-5
1.292.1 Available under license :

3.0 (quilt)

This package was debianized by Loic Prylli <lpylli@graville.fdn.fr> on Mon, 23 Dec 1996 00:13:13 +0100.
The package is currently maintained by Robert Luberda <robert@debian.org>

It is now based on OpenBSD in directory src/usr.bin/mail on a lot of major ftp sites.
See the README.Debian (and changelog.Debian) for the complicated history of the Debian package.

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SUCH DAMAGE.

bsd-mailx for DEBIAN

The history of this package is quite complicated. The changelog
includes a summary with the different maintainers.

At the beginning of Debian, I think this package was based on a BSD 5.5
mail version from FreeBSD.

There has been a lot on work on the package shipped with Debian
0.93R6, which was based a BSD 8.1 mail version from BSD4.4Lite. The
extensions includes support for dotfile locking, setgid support, POP
support, signal handling hacks.

here is a README originally found:
+ README for Berkely mailx version 8.1 with POP extension
+ This is "mailx", a simple program for sending and receiving email.
+ This is based on mailx version 8.1 (as distributed with BSD 4.4lite).
+ It has been extended to support the post-office protocol (POP). Run
+ "mail -p" and it will retrieve your email from a POP server rather than
+ from your local mail queue. See the manual page for more details.
+ The POP support was written by Jonathan I. Kamens for version mailx 5.5
+ (as distributed with BSD 4.3.)
The POP support was integrated into version 8.1 by Salvatore Valente for no particular reason. (It would have been simpler for me to simply use Jonathan's 5.5 source tree. There are no major differences between the two versions.)

Have a nice day.
-Salvatore Valente. <svalente@athena.mit.edu>
5/12/94

PORTING

Before attempting to compile this for _any_ system, you should do two things:

Edit CFLAGS in Makefile.
Edit pathnames.h.

These sources are _extremely_ BSDish. I have successfully built this for Linux, BSD 4.3, NetBSD, Ultrix, Aix, and SunOS. I have never successfully gotten it to build for Solaris or any System 5ish system.

If you want to try, here are some issues you will face:

It uses BSD signal() semantics. Use sigaction().
It uses BSD longjmp() semantics. Use siglongjmp().
It uses BSD sgtty. Use termios.
It uses BSD signal mask functions. Use posix sigmask functions.

There will probably be other hurdles too. Good luck.

With Debian1.1 a switch was done to a version base on a BSD5.5 mail program, because of signal handling problems (which I think were due to bad compilation options). So no more POP support. Some patches from Ken Whang <Kenneth.C.Whang-1@umn.edu> included, the corresponding README was:

mailx-5.5-kw 5/30/95

WHAT'S IN THIS PATCH

There are a bunch of little features, common in System V and SunOS versions of mailx, that are missing from the NetBSD-based version distributed with Linux. This patch attempts to fill in some of what's missing.

Changes from debian mailx-5.5 include:
+ 5/4/95:
+ -- interpret prompt variable
+ -- interpret ~a and ~A tilde escapes
+ -- updated tildehelp list
+ -- changed mail.rc to ignore nothing (just my personal preference)
+ -- accept From lines with times of the form hh:mm (formerly took only hh:mm:ss)
+
+ 5/7/95:
+ + -- Save (S) command saves to mailbox named after author
+ + -- take startup commands from file named by environment variable MAILRC
+
+ 5/30/95:
+ + -- -H switch for header summary only
+ + Still to be done:
+ + -- pipe ~p output through PAGER (see type1 in cmd1.c for an example)
+ + -- save (s) by default to MBOX (instead of "No file specified.")
+ + -- ~q should save to dead.letter, ~x is not known
+ + -- update man page
+ + -- allnet and showto ("showto" shows recipient instead of sender if sender
+ + is current user)
+
+ Possibly difficult:
+ + -- interpret editheaders variable as in SunOS version
+
+ Bugs:
+ + -- ~a,~A tilde escapes leave an extra trailing blank on each line
+ + -- to conform to original style, I should really be using char *cp
+ + instead of new variables sig and prompt to be looking up variables
+ + -- -H switch implementation is kind of gross. grep for "hdronly" in
+ + source files; much room for improvement!
+
+ HOW TO INSTALL
+
+ Apply Sal Valente's debian patch first, so:
+ + tar xvfz mailx-5.5.tar.gz
+ + cd mailx-5.5
+ + zcat ../mailx-5.5.debian.diff.gz | patch -p1
+ + zcat ../mailx-5.5-kw.diff.gz | patch -p1
+ make
+
+ Or you may wish to just uncompress the diff file and pick and choose
+ the changes that you like.
+
+ AUTHOR
+
+ Ken Whang <Kenneth.C.Wang-1@umn.edu>

This version has no provision for the debian mail policy (permission
on /var/mail+dotfile locking), so Loic Prylli
<lprylli@graville.fdn.fr> finally recreate a package based on the OpenBSD
mail with the minimum number of patches to make it suited for debian
(see changelog). There is no more POP support, nor the added
functionality from Ken Whang, but all these patches are archived, so
mail <lprylli@graville.fdn.fr> if you want them to be incorporated.

Loic Prylli <lprylli@graville.fdn.fr>, Mon, 23 Dec 1996 00:13:13 +0100

Sat Apr 4 14:05:38 CEST 1998:
After a security patch to fix tmp races, a number of things broke.
Here is what I have tried to fix them:
The rationale is to have all file openings go through safe_open:
File opened in mode "w", "w+", are created with O_EXCL mode,
(should coincide with temporary files or new files)
Files with "a" "a+" et "r+" mode do not require the O_EXCL files. "a+" et "r+" do not creat the file.

Still to do: check creat calls
diff-ignore
tar-ignore
#!/usr/bin/make -f

include /usr/share/dpkg/architecture.mk

ifneq ($(DEB_HOST_GNU_TYPE),$(DEB_BUILD_GNU_TYPE))
  export CC = $(DEB_HOST_GNU_TYPE)-gcc
else
  export CC = gcc
endif

%: 
  dh "$@" --parallel

override_dh_auto_clean:
# Don't try to run make clean on unpatched version of Makefile
! grep -q DEBIAN Makefile || dh_auto_clean

override_dh_installchangelogs:
dh_installchangelogs -a debian/EXT/ChangeLog
00-Makefiles.patch
01-Fix-includes.patch
02-Base-fixes-1.patch
03-Base-fixes-2.patch
04-Add-custom-header.patch
05-Mailx-fixes.patch
06-Use-lockf-instead-of-flock.patch
07-Initialize-head-struct.patch
08-Use-liblockfile-library.patch
09-Saved-mbox-message.patch
10-Reply-To-header.patch
11-Showname-option.patch
12-REPLYTO-can-be-set-in-.mailrc-too.patch
13-Mailx-concatenates-messages.patch
14-Truncate-mailbox-instead-of-deleting-it.patch
15-No-space-left-in-tmp.patch
16-Stdin-not-a-tty.patch
17-Initialize-tv_used.patch
18-Wait-for-sendmail.patch
19-Fix-compilation-on-Hurd.patch
20-Don-t-delete-temporary-file.patch
21-Use-wordexpr-instead-of-echo.patch
22-Replace-newlines-with-spaces.patch
24-False-cant-send-email-errors.patch
25-Fix-confusing-error.patch
80-remove_T.patch
81-minus_f.patch
82-expandaddr.patch
83-nosendmail.patch
9
e
c
usr/bin
usr/share/bsd-mailx
usr/share/man/man1

bsd-mailx (8.1.2-0.20131005cvs-1ubuntu0.14.04.1) trusty-security; urgency=medium

* SECURITY UPDATE: shell command injection
  - Apply OpenBSD patches from Todd Miller (taken from Debian update):
    + 80-remove_T.patch (remove undocumented/obsolete -T option)
    + 81-minus_f.patch (adjust -f processing)
    + 82-expandaddr.patch (fix CVE-2014-7844)
    + 83-nosendmail.patch (make -- work for option parsing suppression)
  - CVE-2014-7844
bsd-mailx (8.1.2-0.20131005cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* Remove 23-Treat-new-line-only-messages-as-empty-ones.patch, introduced in 1:8.1.2-0.20071017cvs-1 so that bsd-mailx will behave like other mailx implementations and will not treat messages containing a single new line only as an empty ones (LP: #607099, reopens #355545).
* Extend description of this package to mention the fact that bsd-mailx lacks many features that may be found in other packages like heirloom-mailx or mailutils (closes: #508303).
* Add 26-Fix-confusing-error.patch to make a message given when -b is used without -t less confusing (closes: #327809).
* Fix 00-Makefile.patch not to override CC and pass CPPFLAGS while compiling.
* debian/rules:
  + apply patch from Ubuntu to respect DEB_HOST_GNU_TYPE when selecting CC for cross-compiling;
  + do not try to run make clean on unpatched Makefile.
* Bump Standards-Version to 3.9.4 (no changes).

-- Robert Luberda <robert@debian.org>  Sun, 06 Oct 2013 11:58:42 +0200

bsd-mailx (8.1.2-0.20111106cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* Drop the additional source files from EXT directory, use libbsd-dev instead. Move EXT to debian.
* 00-Makefile: don't override CFLAGS set in environment.
* Switch to dpkg-source 3.0 (quilt) format.
* Use debhelper v9 and tiny debian/rules file.
* debian/control:
  + Build-Depends on libbsd-dev;
  + Standards-Version: 3.9.2;
  + use Breaks instead of versioned Conflicts;
  + add Vcs fields;
  + reformat the dependencies fields with `wrap-and-sort' command.
* Include full text of BSD licence in copyright (lintian).

-- Robert Luberda <robert@debian.org>  Sun, 20 Nov 2011 23:37:22 +0100

bsd-mailx (8.1.2-0.20100314cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* Follow upstream and stop installing the outdated documentation (closes: #455708); also remove doc-base file.
* debian/control:
bsd-mailx (8.1.2-0.20090911cvs-2) unstable; urgency=medium

* Fix a bogus "can't send mail: sendmail process failed" errors appearing rarely on systems under heavy loads (closes: #550116).
  Many thanks to Ivan Zahariev <famzah(at)icdsoft.com> for his investigation and patch.

-- Robert Luberda <robert@debian.org>  Sat, 10 Oct 2009 11:21:11 +0200

bsd-mailx (8.1.2-0.20081101cvs-2) unstable; urgency=low

* New upstream release.
* Fix grammar in description (closes: #515781).
* Drop mailx transitional package.
* Bump debhelper compat mode to 7.
* Standards-Version: 3.8.3

-- Robert Luberda <robert@debian.org>  Fri, 11 Sep 2009 18:14:22 +0200

bsd-mailx (8.1.2-0.20081101cvs-1) experimental; urgency=low

* Upload to unstable.

-- Robert Luberda <robert@debian.org>  Sun, 09 Nov 2008 09:00:25 +0100

bsd-mailx (8.1.2-0.20071201cvs-3) unstable; urgency=low

* Lower priority of mailx package to optional (see #477124).
* copyright: Add a copyright notice (lintian).
* Build depend on debhelper >= 6 (lintian).
* Change doc-base section to Network/Communication (lintian).

-- Robert Luberda <robert@debian.org>  Sat, 26 Apr 2008 09:52:18 +0200
bsd-mailx (8.1.2-0.20071201cvs-2) unstable; urgency=medium

* Add conflict with old mailx packages (closes: #459621).
* Standards-Version: 3.7.3 (no changes).
* Fix invalid regexp in postinst.

-- Robert Luberda <robert@debian.org>  Tue, 08 Jan 2008 23:01:18 +0100

bsd-mailx (8.1.2-0.20071201cvs-1) unstable; urgency=low

* New upstream version.
* Rename package to bsd-mailx, and create dummy mailx package for smooth upgrades.
* Manage /usr/bin/mailx with update-alternatives to allow other packages like mailutils or nail to be installed together with bsd-mailx.
* Remove outdated preinst script.

-- Robert Luberda <robert@debian.org>  Sat, 01 Dec 2007 12:54:13 +0100

mailx (1:8.1.2-0.20071017cvs-2) unstable; urgency=low

* collect.c: Ooops, for debugging I commented out the line responsible for removing temporary, and forgot to uncomment it...

-- Robert Luberda <robert@debian.org>  Fri, 19 Oct 2007 23:10:11 +0200

mailx (1:8.1.2-0.20071017cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* send.c: treat messages which contain only a new line sign as empty messages (closes: #355545).
* Fix `debian-rules-ignores-make-clean-error' lintian warning.
* Bump debhelper compat mode to v6.

-- Robert Luberda <robert@debian.org>  Thu, 18 Oct 2007 23:35:53 +0200

mailx (1:8.1.2-0.20070424cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* Standards-Version: 3.7.2.
* Lower package priority to standard to match the override file.
* main.c: Replace with spaces any embedded newline passed in arguments for `-s' and `-a' options (closes: #419840).
* mail.1: Fix a typo (closes: #411420).

-- Robert Luberda <robert@debian.org>  Thu, 03 May 2007 12:09:36 +0200
mailx (1:8.1.2-0.20050715cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository:
  + fixed segfault in list.c (closes: #313306).
* Standard-Version: 3.6.2 (no changes).

-- Robert Luberda <robert@debian.org> Fri, 15 Jul 2005 00:28:33 +0200

mailx (1:8.1.2-0.20040524cvs-4) unstable; urgency=low

* Fix documentation of sendmail options in the man page and in the
  mailx's usage output (closes: #285259).

-- Robert Luberda <robert@debian.org> Sat, 18 Dec 2004 13:58:28 +0100

mailx (1:8.1.2-0.20040524cvs-3) unstable; urgency=medium

* fio.c: Fix segfault on wildcard expansion introduced in previous upload.
  Thanks to Yuri D'Elia for noticing this (see bug#148389).

-- Robert Luberda <robert@debian.org> Sat, 13 Nov 2004 22:23:14 +0100

mailx (1:8.1.2-0.20040524cvs-2) unstable; urgency=medium

* Bugfix release (closes: #278748):
  + fio.c: Use wordexpr() instead of calling /bin/echo not to allow
    executing external commands while expanding shell variables
    and wildcards.
  + names.c: isfileaddr function return false if '@', ',' or '%' i
    characters occur anywhere (e.g not only before the slash) in the
    recipient name.

-- Robert Luberda <robert@debian.org> Wed, 3 Nov 2004 20:46:39 +0100

mailx (1:8.1.2-0.20040524cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* debian/control: add exim4 alternative to mail-transport-agent
  dependency (closes: #248498).
* USD.doc/mail*.nr: changed references from /usr/lib/Mail.rc to
  /etc/mail.rc.
* USD.doc/Makefile, debian/rules: generate and install manual.txt
  (like in the upstream version).
* Removed lintian override file, it's no longer needed.
* Add lintian source overrides for `cvsignore-file-in-source'
  and `source-contains-CVS-dir'.

-- Robert Luberda <robert@debian.org> Mon, 24 May 2004 23:03:47 +0200

Open Source Used In FXOS MIO 2.10.1.166 3655
mailx (1:8.1.2-0.20031014cvs-2) unstable; urgency=medium

* edit.c: if the external editor (called by ~e or ~v commands) fails for
  some reason, don't delete the temporary file if it has been modified.
  This partly fixes bug#148037.
* popen.c: print exit code of failed commands.
* quit.c: change message saying that mailbox was "removed" to "truncated"
  (closes: #196682); mailx does not remove mailboxes, see the entry
  for 1:8.1.2-0.20020316cvs-2 in this changelog for the reason.

-- Robert Luberda <robert@debian.org>  Wed, 31 Mar 2004 23:42:19 +0200

mailx (1:8.1.2-0.20031014cvs-1) unstable; urgency=low

* New upstream version from OpenBSD.
* Fix problem with building on Hurd (closes: #213929).
* mail.1: removed reference to non-existent lockspool man page.
* Standards-Version: 3.6.1 (no changes).

-- Robert Luberda <robert@debian.org>  Tue, 14 Oct 2003 20:48:51 +0200

mailx (1:8.1.2-0.20030521cvs-1) unstable; urgency=low

* New upstream version from OpenBSD.
* Added EXT/vis.[ch] files, needed for compiling this version.
* Minor fix in Makefile (closes: #181022).
* debian/control: Remove ending dot from synopsis line (lintian).
* Standards-Version: 3.5.10 (no changes).

-- Robert Luberda <robert@debian.org>  Thu, 22 May 2003 21:12:21 +0200

mailx (1:8.1.2-0.20020411cvs-5) unstable; urgency=low

* cmd1.c: Check if return value of screensize() > 0 (closes: #170784).
* Support DEB_BUILD_OPTIONS=noopt instead of debug.
* Build with debhelper v4.
* Standards-Version: 3.5.8.

-- Robert Luberda <robert@debian.org>  Sat,  7 Dec 2002 11:42:34 +0100

mailx (1:8.1.2-0.20020411cvs-4) unstable; urgency=low

* send.c: Always wait for a sendmail process, check its exit code
  and if non-zero, print a warning message to user and save original
  message to ~/dead.letter (closes: #145379).
* popen.c: Make wait_child() return an exit code of the child.
* mail.1: s/^\.ne li$/ne/g to fix groff warnings.

-- Robert Luberda <robert@debian.org> Sat, 24 Aug 2002 22:15:23 +0200

mailx (1:8.1.2-0.20020411 cvs-3) unstable; urgency=low

* aux.c: in function alter() do initialize tv_usec part of the
timeval structure used to set modification time on the mailbox
file (closes: #152038).
Thanks to John Girash for help.

-- Robert Luberda <robert@debian.org> Thu, 11 Jul 2002 05:21:34 +0200

mailx (1:8.1.2-0.20020411 cvs-2) unstable; urgency=low

* collect.c: return from grabh() if stdin is not a terminal.
  This fixes the `-I' option (closes: #149005).

-- Robert Luberda <robert@debian.org> Tue, 18 Jun 2002 22:55:27 +0200

mailx (1:8.1.2-0.20020411 cvs-1) unstable; urgency=high

* New upstream CVS snapshot, with only one change, which fixes
  potential security problem:
+ collect.c:
  Don't do tilde escapes unless we are in interactive mode. Now the
  behavior matches the man page...
* Many thanks to Michal Pajak for pointing out the problem.

-- Robert Luberda <robert@debian.org> Thu, 11 Apr 2002 19:07:59 +0200

mailx (1:8.1.2-0.20020316 cvs-3) unstable; urgency=low

* fio.c: fixed previous patch (closes: #140527,#140485).

-- Robert Luberda <robert@debian.org> Tue, 2 Apr 2002 07:14:58 +0200

mailx (1:8.1.2-0.20020316 cvs-2) unstable; urgency=low

* fio.c: Don't delete mailbox file, always truncate it, because liblockfile
  fails to remove the lock file if mailbox doesn't exist (closes: #111537).

-- Robert Luberda <robert@debian.org> Wed, 27 Mar 2002 09:20:08 +0100

mailx (1:8.1.2-0.20020316 cvs-1) unstable; urgency=low

* Applied patches from Arnaud Giersch <arnaud.giersch@free.fr>
  which fix outstanding problems:
+ closes: #37104: Bug in all mailx* (tested: <=mailx_8.1.1-10).
+ closes: #71759: mailx concatenates messages.
MANY THANKS FOR YOUR HELP, Arnaud!

* New upstream version from OpenBSD CVS repository:
  + closes: #34752: mail causes segmentation fault when pushing Ctrl+C.
* This version uses strlcpy&strlcat functions, appropriate files were
  included in Debian patch.
* Added upstream changelog file, generated by hand from CVS logs using
  `cvs2cl --no-wrap -S'.
* Makefile: added -p option to install (preserve timestamps of installed
  files).

-- Robert Luberda <robert@debian.org>  Tue, 26 Mar 2002 05:47:53 +0100

mailx (1:8.1.2-0.20010922cvs-3) unstable; urgency=low

* debian/copyright: text of BSD license can be found in common-licences,
  so do not include it here...

-- Robert Luberda <robert@debian.org>  Fri,  4 Jan 2002 08:13:30 +0100

mailx (1:8.1.2-0.20010922cvs-2) unstable; urgency=low

* debian/copyright: removed 3th paragraph from the text of BSD license
  as suggested by Branden Robinson (closes: #123828).
* Upgraded standards version to 3.5.6 (no changes needed).

-- Robert Luberda <robert@debian.org>  Sat, 22 Dec 2001 21:56:31 +0100

mailx (1:8.1.2-0.20010922cvs-1) unstable; urgency=low

* New version from OpenBSD cvs repository:
  + aux.c: In skin(), only add a space after a comma if there is actually a
    space in the input buffer. This prevents a rare buffer overflow on very
    long header lines...  (closes: #108677). See #108677 for more info.
  + aux.c: In skin() don't die if realloc() fails since its only purpose is
    to shrink the buffer, not expand it.

* No other changes was made, so I think this version should go to woody
  as well.

-- Robert Luberda <robert@debian.org>  Sun, 23 Sep 2001 21:42:22 +0200

mailx (1:8.1.2-0.20010705cvs-2) unstable; urgency=low

* Removed exim from exim|mail-transport-agent dependency (closes: #106122).
* Added a lintian override file for virtual-package-without-real-package-
dependency warning.
* Fix spelling in description of the package (closes: #106449).

-- Robert Luberda <robert@debian.org>  Wed,  8 Aug 2001 23:31:21 +0200

mailx (1:8.1.2-0.20010705cvs-l) unstable; urgency=low

* New version from OpenBSD cvs.
* Updated copyright and README.Debian files.
* Removed IOSAFE patch - it wasn't used.
* REPLYTO can be set in ~/.mailrc too.

-- Robert Luberda <robert@debian.org>  Thu, 12 Jul 2001 18:58:01 +0200

mailx (1:8.1.2-0.20010319cvs-4) unstable; urgency=low

* Applied patch from Tormod Volden <volden@iqe.phys.ethz.ch>, which adds
  "showname" option to mailx (closes: #96867).
* v7.local.c: Removed /var/spool/mail hack added by Paul in 1:8.1.1-10.1.1
* quit.c: Use lockf instead if flock.
* quit.c: Add missing newline in `Saved ...' message.
* Added doc-base support.
* Added versioned dependency on base-files, as suggested in upgrading-
  checklist for Debian Policy 3.5.4.
* Standards-Version: 3.5.5

-- Robert Luberda <robert@debian.org>  Tue, 12 Jun 2001 23:43:10 +0200

mailx (1:8.1.2-0.20010319cvs-3) unstable; urgency=low

* Applied some patches from FreeBSD:
  + Add Relpy-To header if REPLYTO environment variable is set.
  + Add In-Reply-To header for replies (closes: #23115).
* When saving messages to mbox, print its real filename (closes: #68920).
  Thanks to Tollef Fog Heen for patch.
* /etc/mail.rc: Add Delivered-To to list of ignored headers.

-- Robert Luberda <robert@debian.org>  Wed,  4 Apr 2001 00:20:57 +0200

mailx (1:8.1.2-0.20010319cvs-2) unstable; urgency=low

* Don't ask about (B)Cc: header twice (closes: #90822).

-- Robert Luberda <robert@debian.org>  Fri, 23 Mar 2001 23:47:43 +0100

mailx (1:8.1.2-0.20010319cvs-l) unstable; urgency=medium

* New maintainer (closes: #90146).
* New upstream version from OpenBSD CVS repository.
* Security fix: don't install mailx binary setgid mail.
  Now the liblockfile library is used for mailbox locking.
* cmd3.c: Initialize head variable with NULLs. This should fix
  problem with garbage text when replying (closes: #84166).
* Add conflicts with older suidmanager.
* Helpfiles moved to /usr/share/mailx.
* Added support for DEB_BUILD_OPTIONS=debug,nostrip.
* Updated Standards-Version: 3.5.2
* Switch to debhelper v3.
* Updated Build-Depends field.
* Closing bugs fixed in NMUs (closes: #23901, #64238, #68725, #68745).

-- Robert Luberda <robert@debian.org>  Thu, 22 Mar 2001 08:05:56 +0100

mailx (1:8.1.1-10.3) unstable; urgency=low

* debian/rules: added install dependancy to binary-arch (Closes: Bug#83361).

-- Edward Betts <edward@debian.org>  Sun, 28 Jan 2001 14:40:05 -0700

mailx (1:8.1.1-10.2) unstable; urgency=low

* debian/control: Standards-Version updated.
* debian/control: Build-Depends added.
* debian/control: Depends line fixed (Closes: Bug#41909).
* debian/rules: rewritten, still uses debhelper.
* Makefile: man pages moved to /usr/share/man (Closes: Bug#80758).
* applied patch from Martin Schulze (Closes: Bug#23356, Bug#13756).
* applied patch from Ulf Jaenicke-Roessler <ujr@physik.phy.tu-dresden.de>
  (Closes: Bug#26757, Bug#40424).
* misc/mail.help, USD.doc/mail[1568].nr: changed references from
  /usr/spool/mail to /var/mail (Closes: Bug#41910).
* send.c: Comment out bcc code (Closes: Bug#75232).
* pathnames.h: Change default shell from /bin/csh to /bin/sh.
* pathnames.h: Change default pager from /bin/more to
  /usr/bin/pager (Closes: Bug#41228).
* pathnames.h: Change default editor from /bin/ex to /usr/bin/editor
  (Closes: Bug#66385).
* debian/rules: stop using dh_suidregister

-- Edward Betts <edward@debian.org>  Sun, 14 Jan 2001 12:36:16 -0700

mailx (1:8.1.1-10.1.3) frozen unstable; urgency=high

* Fix the security fix: only accept a couple environment variables
  instead of blindly using them all
mailx (1:8.1.1-10.1.2) frozen unstable; urgency=high

* Another security problem: refuse to get the interactive variable from the environment by explicitly setting it in the hashtable.

mailx (1:8.1.1-10.1.1) frozen unstable; urgency=high

* NMU to fix RC bug. Now accepts both /var/mail and /var/spool/mail as allowed places for setgid file manipulation. fixes:#64238

mailx (1:8.1.1-10.1) stable frozen unstable; urgency=high

* Security fix for a GID=mail shell.

mailx (1:8.1.1-10) frozen unstable; urgency=high

* correct major security flaw, patch from Alvaro Martinez Echevarria <alvaro@lander.es>, bug#23880, bug#23901

* other potential buffer overflow, patch from Juan-Mariano de Goyeneche <jmseyas@selva.dit.upm.es>, bug #22937

mailx (1:8.1.1-9) frozen unstable; urgency=high

* recompile without the signal handling workarounds (lo that eliminate critical bugs where message parts can be lost (#20798) and (#20558)

mailx (1:8.1.1-8) frozen unstable; urgency=high

* previous patch broke most file accesses, corrected safe_open (#20634)
* try to check every access to Fopen, change "a" into "w" for new files, to suit behaviour of safe_open.

--- Loic Prylli <lprylli@graville.fdn.fr> Sat, 4 Apr 1998 22:01:19 +0200
mailx (1:8.1.1-7) frozen; urgency=medium

* security fix for tmp races patch from Martin Schulze (#20059)

-- Loic Prylli <lprylli@graville.fdn.fr>  Mon, 23 Mar 1998 22:52:35 +0100

mailx (1:8.1.1-6) unstable; urgency=low

* convert to debhelper
* changelog now compressed (bug#15431)
* removed .orig and .rej from source (bug#18409)

-- Loic Prylli <lprylli@graville.fdn.fr>  Sat, 14 Feb 1998 14:34:22 +0100

mailx (1:8.1.1-5) unstable; urgency=low

* apply David Brown patch so mailx choose the right window size
  (#12197)
* correct Depends: in control file.

-- Loic Prylli <lprylli@graville.fdn.fr>  Sat, 15 Nov 1997 00:30:38 +0100

mailx (1:8.1.1-4) unstable; urgency=high

* mailx was sending empty message, ignoring user input
  add clearerr when EAGAIN occur in "IOSAFE" code (#14263)

-- Loic Prylli <lprylli@graville.fdn.fr>  Tue, 11 Nov 1997 20:22:35 +0100

mailx (1:8.1.1-3.1) unstable; urgency=low

* Non-maintainer release.
* Libc6 compile. (#11705)
* Install missing symlink to manpage. (#7274)

-- Martin Mitchell <martin@debian.org>  Wed, 29 Oct 1997 04:34:39 +1100

mailx (1:8.1.1-3) unstable; urgency=low

* add dpkg --assert-working-epoch in preinst bug#6850
* add writing of pid in mailbox locking file
* fix:mailx was not removing temporary lock files

-- Loic Prylli <lprylli@graville.fdn.fr>  Sat, 1 Feb 1997 11:44:04 +0100

mailx (1:8.1.1-2) unstable; urgency=low
* correct bug #2733 (occur when no space left) dans quit.c
* detection of From_ lines with tring to match the date bug#2010
* corrected garble output bug #2284

-- Loic Prylli <lprylli@graville.fd.fr>  Sat, 28 Dec 1996 15:02:22 +0100

mailx (1:8.1.1-1) unstable; urgency=medium

* recreate completely starting from OpenBSD mail version (we loose a lot
  of extension but we have a working program now)
* OpenBSD base version is the last one in december 96
* rechange the numbering of version, so epoch 1+8.1 is from 4.4BSD, the
  last upstream digit is to change each time we update to a new openbsd
  version.
* fix the problem of longjmp inside signals inside stdio calls
* reincorporate a patch to be dot file locking+setgid safe
* some fix in signal handling

-- Loic Prylli <lprylli@graville.fd.fr>  Mon, 23 Dec 1996 01:57:44 +0100

Mon Apr 29 17:21:42 1996  Sven Rudolph <sr1@inf.tu-dresden.de>

* releasing 8.5.5-1

* added symlink /usr/bin/Mail -> /usr/bin/mailx

Thu Apr 25 23:55:36 1996  Sven Rudolph <sr1@inf.tu-dresden.de>

* set version number to 8.5.5 because it has to superseed 8.1

* switched back to mailx-5.5-kw (see mailx-5.5-kw.diff.README)

* no POP support

mailx 8.1 Debian 5 - 10/19/95 Sven Rudolph <sr1@inf.tu-dresden.de>
* uses now BSD signal emulation (/usr/include/bsd/signal.h)
* added virtual package names in Depends: and Provides fields (Bug#1460)
* added Section: field
* created symlink for mailx manpage (Bug#1114)

mailx 8.1 Debian 4 - 5/20/95 Carl Streeter <streeter@cae.wisc.edu>
* Added diffs from Delman Lee <delman@mipg.upenn.edu>:

Hi! I got mailx-8.1-3 from the Linux Debian distribution, and have
added a "hold-pop" option to hold messages on the POP server after
retrieving them. (Also fixed a minor bug with mailx thinking that there
is mail even if the POP mailbox is empty. Code around stat() below.)
mailx 8.1 Debian 3 - 4/18/95 Carl Streeter <streeter@cae.wisc.edu>

* Fixed control file to depend on smail|sendmail. Updated to latest guidelines

bsd-mailx source: source-contains-cvs-control-dir
Source: bsd-mailx
Section: mail
Priority: standard
Maintainer: Ubuntu Developers <ubuntu-devel-discuss@lists.ubuntu.com>
XSBC-Original-Maintainer: Robert Luberda <robert@debian.org>
Standards-Version: 3.9.4
Build-Depends: debhelper (>= 9),
               groff,
               libbsd-dev (>= 0.3),
               liblockfile-dev (>= 1.05)
Vcs-Git: git://anonscm.debian.org/users/robert/bsd-mailx.git
Vcs-Browser: http://anonscm.debian.org/gitweb/?p=users/robert/bsd-mailx.git

Package: bsd-mailx
Architecture: any
Depends: base-files (>= 2.2.0),
         default-mta | mail-transport-agent,
         ${misc:Depends},
         ${shlibs:Depends}
Provides: mail-reader, mailx
Breaks: mailutils (<< 1:1.1+dfsg1-4), mailx (<< 1:20071201)
Replaces: mailx (<< 1:20071201)
Description: simple mail user agent

bsd-mailx is the traditional simple command-line-mode mail user agent.
Even if you don't use it, it may be required by other programs.

The /usr/bin/mail command provided by this package is a very simple one,
and does not include many features that can be found in more advanced
mail user agents.

For example bsd-mailx DOES NOT support:
- MIME (i.e. no attachments, no UTF-8 or other charsets support);
- SMTP protocol (/usr/sbin/sendmail interface only is used);
- POP3/IMAP (bsd-mailx reads local mailboxes only);
- maildir format (traditional mbox only format is supported).

If the above features are needed, please consider installing another package
providing similar /usr/bin/mail interface:
- heirloom-mailx package,
- or mailutils package.
1.293 bind 9.9.4 50.el7

1.293.1 Available under license:

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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 textbox 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:variable name="isc.copyright" select="isc.copyright.text"/>
</xsl:stylesheet>
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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 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>

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```
lib/gssapi/generic/gssapi_err_generic
lib/gssapi/mechglue/g_accept_sec_context
lib/gssapi/mechglue/g_acquire_cred
lib/gssapi/mechglue/g_canon_name
lib/gssapi/mechglue/g_compare_name
```
and the initial implementation of incremental propagation, including
the following new or changed files:

```makefile
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.c
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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.. 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_dup_name.c
   lib/gssapi/mechglue/g_dup_status.c
   lib/gssapi/mechglue/g_init_cred.c
   lib/gssapi/mechglue/g_export_name.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_sign.c
   lib/gssapi/mechglue/g_store_cred.c
   lib/gssapi/mechglue/g_unseal.c
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

   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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  var DOCUMENTATION_OPTIONS = {
    URL_ROOT:    './',
    VERSION:     '1.17',
    COLLAPSE_INDEX: false,
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_dup_status.c
lib/gssapi/mechglue/g_dup_name.c
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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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# This program is intended to be used by "make check-copyright". It checks for violations of the coding standards related to copyright and license statements in source code comments.

```python
import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment is a license statement.

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
        return False
    return True
```

Open Source Used In FXOS MIO 2.10.1.166 3772
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'/\* \([^\s]*\)( - .*)? */', 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)

.. _mitK5license:

MIT Kerberos License information
================================

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    :hidden:
    copyright.rst

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/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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*/
1.295 dhcp 4.3.0

1.295.1 Available under license:

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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 form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.298 cracklib 2.9.1
1.298.1 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=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20
-----------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> >=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

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

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

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

-- Nathan
-----Original Message-----
From: cracklib-devel-bounces@li...
[mailto:cracklib-devel-bounces@li...]

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

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

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

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

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

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

Cheers,

Nalin

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

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

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

-mike
>> 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
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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1.301 uip 1.0

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*
* Author: Adam Dunkels <adam@sics.se>
*
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*
* Author: Adam Dunkels <adam@sics.se>
*
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* Author: Adam Dunkels <adam@sics.se>

* $Id: psock.h,v 1.3 2006/06/12 08:00:30 adam Exp $

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* $Id: shell.c,v 1.1 2006/06/07 09:43:54 adam Exp $
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* 
* Author: Adam Dunkels <adam@sics.se>
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* $Id: httpd-fsdata.h,v 1.1 2006/06/07 09:13:08 adam Exp $
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 * Author: Adam Dunkels <adam@sics.se>
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 * $Id: lc-switch.h,v 1.2 2006/06/12 08:00:30 adam Exp $
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*
* Author: Adam Dunkels <adam@sics.se>
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* $Id: httpd-fs.c,v 1.1 2006/06/07 09:13:08 adam Exp $
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/**
\defgroup pt Protothreads

Protothreads are a type of lightweight stackless threads designed for
severely memory constrained systems such as deeply embedded systems or
sensor network nodes. Protothreads provides linear code execution for
Protothreads are a extremely lightweight, stackless type of threads that provides a blocking context on top of an event-driven system, without the overhead of per-thread stacks. The purpose of protothreads is to implement sequential flow of control without complex state machines or full multi-threading. Protothreads provides conditional blocking inside C functions.

The advantage of protothreads over a purely event-driven approach is that protothreads provides a sequential code structure that allows for blocking functions. In purely event-driven systems, blocking must be implemented by manually breaking the function into two pieces - one for the piece of code before the blocking call and one for the code after the blocking call. This makes it hard to use control structures such as if() conditionals and while() loops.

The advantage of protothreads over ordinary threads is that a protothread do not require a separate stack. In memory constrained systems, the overhead of allocating multiple stacks can consume large amounts of the available memory. In contrast, each protothread only requires between two and twelve bytes of state, depending on the architecture.

\note Because protothreads do not save the stack context across a blocking call, <b>local variables are not preserved when the protothread blocks</b>. This means that local variables should be used with utmost care - <b>if in doubt, do not use local variables inside a protothread!</b>

Main features:

- No machine specific code - the protothreads library is pure C
- Does not use error-prone functions such as longjmp()
- Very small RAM overhead - only two bytes per protothread
- Can be used with or without an OS
- Provides blocking wait without full multi-threading or stack-switching

Examples applications:

- Memory constrained systems
- Event-driven protocol stacks

- Deeply embedded systems

- Sensor network nodes

The protothreads API consists of four basic operations:
initialization: PT_INIT(), execution: PT_BEGIN(), conditional
blocking: PT_WAIT_UNTIL() and exit: PT_END(). On top of these, two
convenience functions are built: reversed condition blocking:
PT_WAIT_WHILE() and protothread blocking: PT_WAIT_THREAD().

\section{authors Authors}

The protothreads library was written by Adam Dunkels <adam@sics.se>
with support from Oliver Schmidt <ol.sc@web.de>.

\section{pt-desc Protothreads}

Protothreads are a extremely lightweight, stackless threads that
provides a blocking context on top of an event-driven system, without
the overhead of per-thread stacks. The purpose of protothreads is to
implement sequential flow of control without using complex state
machines or full multi-threading. Protothreads provides conditional
blocking inside a C function.

In memory constrained systems, such as deeply embedded systems,
traditional multi-threading may have a too large memory overhead. In
traditional multi-threading, each thread requires its own stack, that
typically is over-provisioned. The stacks may use large parts of the
available memory.

The main advantage of protothreads over ordinary threads is that
protothreads are very lightweight: a protothread does not require its
own stack. Rather, all protothreads run on the same stack and context
switching is done by stack rewinding. This is advantageous in memory
constrained systems, where a stack for a thread might use a large part
of the available memory. A protothread only requires only two bytes of
memory per protothread. Moreover, protothreads are implemented in pure
C and do not require any machine-specific assembler code.
A protothread runs within a single C function and cannot span over other functions. A protothread may call normal C functions, but cannot block inside a called function. Blocking inside nested function calls is instead made by spawning a separate protothread for each potentially blocking function. The advantage of this approach is that blocking is explicit: the programmer knows exactly which functions that block that which functions the never blocks.

Protothreads are similar to asymmetric co-routines. The main difference is that co-routines uses a separate stack for each co-routine, whereas protothreads are stackless. The most similar mechanism to protothreads are Python generators. These are also stackless constructs, but have a different purpose. Protothreads provides blocking contexts inside a C function, whereas Python generators provide multiple exit points from a generator function.

\section{pt-autovars} Local variables

\note
Because protothreads do not save the stack context across a blocking call, local variables are not preserved when the protothread blocks. This means that local variables should be used with utmost care - if in doubt, do not use local variables inside a protothread!

\section{pt-scheduling} Scheduling

A protothread is driven by repeated calls to the function in which the protothread is running. Each time the function is called, the protothread will run until it blocks or exits. Thus the scheduling of protothreads is done by the application that uses protothreads.

\section{pt-impl} Implementation

Protothreads are implemented using \ref lc "local continuations". A local continuation represents the current state of execution at a particular place in the program, but does not provide any call history or local variables. A local continuation can be set in a specific function to capture the state of the function. After a local continuation has been set can be resumed in order to restore the state of the function at the point where the local continuation was set.

Local continuations can be implemented in a variety of ways:

- # by using machine specific assembler code,
- # by using standard C constructs, or
- # by using compiler extensions.
The first way works by saving and restoring the processor state, except for stack pointers, and requires between 16 and 32 bytes of memory per protothread. The exact amount of memory required depends on the architecture.

The standard C implementation requires only two bytes of state per protothread and utilizes the C switch() statement in a non-obvious way that is similar to Duff's device. This implementation does, however, impose a slight restriction to the code that uses protothreads in that the code cannot use switch() statements itself.

Certain compilers have C extensions that can be used to implement protothreads. GCC supports label pointers that can be used for this purpose. With this implementation, protothreads require 4 bytes of RAM per protothread.

@{

*/

/** @} */ */

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* $Id: smtp-strings.h,v 1.3 2006/06/11 21:46:37 adam Exp $
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* $Id: pt.h,v 1.2 2006/06/12 08:00:30 adam Exp $
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* $Id: tapdev.h,v 1.1 2002/01/10 06:22:56 adam Exp $
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1.302 unzip 6.0

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to use the modified definitions.)

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1.317 webencodings 0.5.1

1.317.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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

from setuptools import setup, find_packages
import io
import re

VERSION = re.search("VERSION = '([^)]+)'", io.open(  
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),  
    encoding='utf-8'").group(1)
```python
).read().strip().group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5-1-1-tar-gz/webencodings-0.5.1/setup.py
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```
Regenerate the webencodings.labels module.

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```python
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = [""
    
    webencodings.labels
    
    Map encoding labels to their name.

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    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    LABELS = {
        ""
    }
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
        repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']
    ]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '  %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
```

---
Open Source Used in FXOS MIO 2.10.1.166 4065

```python
parts.append('}
return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like `Content-Type: text/html; charset=latin1`,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, `US-ASCII` and `iso-8859-1` on the web are actually
aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
```
python-webencodings

This is a Python implementation of the `WHATWG Encoding standard`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

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The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Found in path(s):
1.318 glibc 2.17-196.el7

1.318.1 Available under license:

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will lead to faster development of free libraries.

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1.321 libuser 0.60-7.el7_1

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"Major Component", in this context, means a major essential component
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(if any) on which the executable work runs, or a compiler used to
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1.327 libtecla 1.4.1

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1.328 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
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe 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
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout-------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help):

BSD disklabel command (m for help):
4 partitions:
  #   start  end   size  fstype  [fsize bsize cpg]
c:  4096  20479  16384  unused     0     0     0
d:   0   16064  16065  unused     0     0

BSD disklabel command (m for help):
Command (m for help):

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

b5c121c2091b2ff26b880551f7112 bsd.img

---layout--------

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
  #   start  end   size  fstype  [fsize bsize cpg]
a:  4096  6144  2049  4.2BSD     0     0     0
c:  4096  20479  16384  unused     0     0     0
d:   0   16064  16065  unused     0     0

BSD disklabel command (m for help):
Command (m for help):

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

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

Command (m for help):

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

1.329 nettle 3.4
1.329.1 Available under license:

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1.331 libpcap 1.7.3

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src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
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1.334 keyutils 1.5.8 3.el7
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stdio.c
by Mark Gates <mgates@nlanr.net>
and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>

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

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External code
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==================

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- TSS has been removed  
- MD5 is now external, in the OpenSSL library  
- RC4 support has been replaced with ARC4 support from OpenSSL  
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1.339 zlib 1.2.11

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   version 1.2.11, January 15th, 2017

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1.341 zlib 1.2.1.2

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version 1.2.11, January 15th, 2017

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1.343 openssl 1.1.1j
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1.349 pkix-ssh 12.1

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* @version 3.0 (December 2000)
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1.351 keyutils 1.5.8 3.el7
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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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.

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#!/usr/bin/perl -0777 -pi

# Update b4_copyright invocations or b4_copyright_years definitions to
# include the current year.

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use strict;
use warnings;

my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/^\d{4}$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
    $this_year = $year + 1900;
}
my $old_re = <<'EOF'
 (?:.*
 #BEFORE
 (?: b4_copyright\{[^\[\]*\[\]*
 | m4_(?:push|pop)\{[^\[\]*\[\]*
 )
 #AFTER
 )
 (?: ,\s*
 \s* (?:\d{4}(?:,\s*|-)*)\s*
 )?
 EOF
 :

while (/($old_re)/gx)
{
    my $start = pos() - length ($1);
    my $b4_copyright_line = $2;
    my $year_lines = $3;
    my $final_year = $4;
    $year_lines .= ');

    # If there was a second argument, it contains years, so update them.
    if ($final_year)
    {
        $b4_copyright_line .= ',';
        if ($final_year !~ $this_year)
        {
            # Update the year.
            $year_lines =~ s/\$final_year/$final_year, $this_year/;
        }
        # Normalize all whitespace.
        $year_lines =~ s/\s+/ /g;
        # Put spaces after commas.
        $year_lines =~ s/\, / /g;
    }
}
# Compress to intervals.
$year_lines =~
  s/
    \d{4}
  (?:\)|
    (?!\{ if \($2 eq '-' \) \{ \d{4}; \}
    elsif (!$3) \{ $1 + 1; \}
    else \{ $3 + 1; \}
    \})
  )+
  /$1-$3/gx;

# Format within margin.
my $year_lines_new;
my $indent = index ($b4_copyright_line, '[');
--$indent if ($b4_copyright_line =~ m/\n/); while (length $year_lines)
  {
    my $text_margin = $margin - $indent;
    if (($year_lines =~ s/^(.{1,$text_margin})(?: |$)//)
      || ($year_lines =~ s/^([\S]+)(?: |$)//))
      {
        my $line = "\n" . ("x$indent") . $1;
        ++$indent if (!$year_lines_new);
        $year_lines_new .= $line;
      }
    else
      {
        # Should be unreachable, but we don't want an infinite
        # loop if it can be reached.
        die;
      }
  }

# Replace the old invocation. Should never die.
die if (!s/$old_re\G/$b4_copyright_line$year_lines_new/x);

# Prepare for the next search.
pos () = $start + length ($b4_copyright_line$year_lines_new);

while (/\bb4_copyright\b/) {
  my $start = pos () - length ($1);
}
my $end = pos ();
my $re = Sold_re;
pos () = $start;
$re =~ s/#BEFORE\G/;
if (!/$re/x)
{
    my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
    print STDERR
        "$ARGV:$line: warning: failed to update a b4_copyright\n";
}
pos () = $end;
}

while (/\[/b4_copyright_years\]/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = Sold_re;
    $re =~ s/#AFTER\G/;
    if (!/$re/x)
    {
        # The substr operation blows away pos (), so restoring pos ()
        # at the end is necessary.
        my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
        print STDERR
            "$ARGV:$line: warning: failed to update a b4_copyright_years\n";
    }
pos () = $end;
}

1.354 systemd 219-19.el7_2.13
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1.362 xinetd 2.3.3

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1.363 libnuma 2.0.12

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1.379 diffutils 3.6

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

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<thead>
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<th>Year</th>
<th>Owner</th>
<th>GPL-compatible? (1)</th>
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<td>1.2</td>
<td>1995-1999</td>
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</tr>
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.390 ncurses 6.1
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

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1.391 libjpeg 8d
1.391.1 Available under license :
The Independent JPEG Group's JPEG software

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README for release 9c of 14-Jan-2018

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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.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtan,
rdjpgcom, and wrjpcom.
*.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 Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES
==========
We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in “The Data Compression Book” by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.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/jpegsr9c.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

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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.

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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.
IJK therefore does not and will not support such momentary mistakes
(see REFERENCES).
There exist also distributions under the name "OpenJPEG" promoting such
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We have no sympathy for the promotion of inferior formats. Indeed, one of
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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
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There are currently different distributions in circulation containing the
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name JPEG as described above, while having nothing in common with actual IJK
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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.

1.392 sudo 1.8.23

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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, Pete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vitezslav
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
Fryonger, Mike
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Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
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Hayman, Randy M.
Henke, Joachim
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Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
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Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhani, Timo
Kikuchi, Ayamura
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Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
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Ryabinkin, Eygene
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Sanez, Wilfredo
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Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougai
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
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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  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frédric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kleemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
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Maryanov, Pavel  
Nikoli, Miroslav  
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Sikrom, ka  
Spingos, Dimitris  
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r, Balzs  
Uranga, Mikel Olasagasti  
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*
*@(#)tftpsubs.h8.1 (Berkeley) 6/6/93
*/

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* /opt/ws_local/PERMITS_SQL/1066860113_1597682553.9/0/tftp-ha-0-48-tar/include/tftpsubs.h
1.398 tcl 8.6.8

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1.404 ncurses 5.9 13.20130511.el7

1.404.1 Available under license :

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1.405 libcap-ng 0.7.5 4.el7
1.405.1 Available under license:

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1.409 xorg-server 1.14.2

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 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\n  Module-Build mailing list at <module-build@perl.org>.'
buildRequires:
  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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The End

#!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-compile" );
}

=cut
my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\b([\d\s]+)\b/s
    or die "Year not found in README copyright message '$copyright_msg'';

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987\s+\b([\d\s]+)\b/s
    or die "Copyright statement not found in perl -v output '$output'';

$year;
1.419 grub 0.97

1.419.1 Available under license:

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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) $< \ 
[ -s $@ ] || rm -f $@
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<" \
@$(SHELL) -ec ´$(GEN_DEPS.cc) $< \ 
[ -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

### 1.421 ncurses 5.9-13.20130511.el7

#### 1.421.1 Available under license:

Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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

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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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1.422 fontconfig 2.10.95 11.el7
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1.423 shadow 4.6

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Setuptools is a collection of enhancements to the Python `distutils` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.
Packages built and distributed using ``setuptools`` look to the user like ordinary Python packages based on the ``distutils``. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By including just a single `bootstrap module` (a 12K .py file), your package will automatically download and install ``setuptools`` if the user is building your package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <easy_install.html>`_, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ - a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a `MANIFEST.in` file, and without having to force regeneration of the `MANIFEST` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and
distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

_0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

_Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`

Developer's Guide

Installing `setuptools`

Please follow the `EasyInstall Installation Instructions` to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations` if you are installing anywhere other than Python's `site-packages` directory.

_EasyInstall Installation Instructions: easy_install.html#installation-instructions

_Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first install a stable version, and then run:

```
ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use

For basic use of setuptools, just import things from setuptools instead of
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],
)

As you can see, it doesn't take much to use setuptools in a project.
Run that script in your project folder, alongside the Python packages
you have developed.

Invoke that script to produce eggs, upload to
PyPI, and automatically include all packages in the directory where the
setup.py lives. See the `Command Reference` section below to see what
commands you can give to this setup script. For example,
to produce a source distribution, simply invoke::

    python setup.py sdist

Of course, before you release your project to PyPI, you'll want to add a bit
more information to your setup script to help people find or learn about your
project. And maybe your project will have grown by then to include a few
dependencies, and perhaps some data files and scripts::

from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],
    install_requires = ['docutils>=0.3'],
    package_data = {
        ': ['*.txt', '*.rst'],
        'hello': ['*.msg'],
    },
    author = "Me",
    author_email = "me@example.com",
    description = "This is an Example Package",
)
license = "PSF",
keywords = 'hello world example examples",
url = "http://example.com/HelloWorld/",  # project home page, if any

# could also include long_description, download_url, classifiers, etc.
)

In the sections that follow, we'll explain what most of these `setup()`
arguments do (except for the metadata ones), and the various ways you might use
them in your own project(s).

Specifying Your Project's Version
---------------------------------

Setup tools can work well with most versioning schemes; there are, however, a
few special things to watch out for, in order to ensure that setup tools and
Easy Install can always tell what version of your package is newer than another
version. Knowing these things will also help you correctly specify what
versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release
or post-release tags. A release number is a series of digits punctuated by
dots, such as `2.4` or `0.5`. Each series of digits is treated
numerically, so releases `2.1` and `2.1.0` are different ways to spell the
same release number, denoting the first subrelease of release 2. But `2.10`
is the *tenth* subrelease of release 2, and so is a different and newer release
from `2.1` or `2.1.0`. Leading zeros within a series of digits are also
ignored, so `2.01` is the same as `2.1`, and different from `2.0.1`.

Following a release number, you can have either a pre-release or post-release
tag. Pre-release tags make a version be considered *older* than the version
they are appended to. So, revision `2.4` is *newer* than revision `2.4c1`,
which in turn is newer than `2.4b1` or `2.4a1`. Postrelease tags make
a version be considered *newer* than the version they are appended to. So,
revisions like `2.4-1` and `2.4p3` are newer than `2.4`, but are *older*
than `2.4.1` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before
"final". Some examples of prerelease tags would include `alpha`, `beta`,
`a`, `c`, `dev`, and so on. You do not have to place a dot or dash
before the prerelease tag if it's immediately after a number, but it's okay to
do so if you prefer. Thus, `2.4e1` and `2.4.c1` and `2.4-c1` all
represent release candidate 1 of version `2.4`, and are treated as identical
by setup tools.

In addition, there are three special prerelease tags that are treated as if
they were the letter `c`: `pre`, `preview`, and `rc`. So, version
``2.4rc1``, ``2.4pre1`` and ``2.4preview1`` are all the exact same version as ``2.4c1``, and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (``-``). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, ``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that ``dev`` is a pre-release tag, so this version is a *lower* version number than ``0.6a9``, which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number between them. Version ``1.9adev`` is the ``adev`` prerelease of ``1.9``, not a development pre-release of ``1.9a``. Use ``.dev`` instead, as in ``1.9a.dev``; or separate the prerelease tags with a number, as in ``1.9a0dev``. ``1.9a0dev`` and even ``1.9.a.dev`` are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the ``pkg_resources.parse_version()`` function to compare different version numbers::

>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* "Tagging and "Daily Build" or "Snapshot" Releases",
* "Managing "Continuous Releases" Using Subversion"
* The `egg_info` command

**New and Changed `setup()` Keywords**

The following keyword arguments to `setup()` are added or changed by `setuptools`. All of them are optional; you do not have to supply them unless you need the associated `setuptools` feature.

``include_package_data``
If set to `True`, this tells `setuptools` to automatically include any data files it finds inside your package directories that are specified by your `MANIFEST.in` file. For more information, see the section below on Including Data Files.

``exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back any excess files included by `include_package_data`. For a complete description and examples, see the section below on Including Data Files.

``package_data``
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on Including Data Files. You do not need to use this option if you are using `include_package_data`, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the `bdist_egg` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on Declaring Dependencies for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See Dynamic Discovery of Services and Plugins for details and examples of the format of this argument. In addition, this keyword is used to support Automatic
Script Creation

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to be present in order for the *setup script* to run. ``setuptools`` will attempt to obtain these (even going so far as to download them using ``'EasyInstall'``) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in ``setup_requires`` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the `.eggs` directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to ``install_requires`` **and** ``setup_requires``.)

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by ``setup_requires`` or ``tests_require``. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an `.egg` file.

``namespace_packages``
A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's "zope" package is a namespace package, because subpackages like "zope.interface" and "zope.publisher" may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.

``test_suite``
A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module
has an "additional_tests()" function, it is called and the results are
added to the tests to be run. If the named suite is a package, any
submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the
specified test suite, e.g. via `"setup.py test"`. See the section on the
`test` command below for more details.

``tests_require``

If your project's tests need one or more additional packages besides those
needed to install it, you can use this option to specify them. It should
be a string or list of strings specifying what other distributions need to
be present for the package's tests to run. When you run the `"test"`
command, `"setuptools"` will attempt to obtain these (even going
so far as to download them using `"EasyInstall"`). Note that these
required projects will *not* be installed on the system where the tests
are run, but only downloaded to the project's setup directory if they're
not already installed locally.

.. _test_loader:

``test_loader``

If you would like to use a different way of finding tests to run than what
setuptools normally uses, you can specify a module name and class name in
this argument. The named class must be instantiable with no arguments, and
its instances must support the `"loadTestsFromNames()"` method as defined
in the Python `"unittest"` module's `"TestLoader"` class. Setuptools will
pass only one test "name" in the 'names' argument: the value supplied for
the `"test_suite"` argument. The loader you specify may interpret this
string in any way it likes, as there are no restrictions on what may be
contained in a `"test_suite"` string.

The module name and class name must be separated by a `":"`. The default
value of this argument is `"setuptools.command.test:ScanningLoader"`. If
you want to use the default `"unittest"` behavior, you can specify
`"unittest:TestLoader"` as your `"test_loader"` argument instead. This
will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package,
as long as you use the `"tests_require"` option to ensure that the package
containing the loader class is available when the `"test"` command is run.

``eager_resources``

A list of strings naming resources that should be extracted together, if
any of them is needed, or if any C extensions included in the project are
imported. This argument is only useful if the project will be installed as
a zipfile, and there is a need to have all of the listed resources be
extracted to the filesystem *as a unit*. Resources listed here
should be '/'-separated paths, relative to the source root, so to list a resource `foo.png` in package `bar.baz`, you would include the string `bar/baz/foo.png` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`.

``use_2to3``
Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

``convert_2to3_doctests``
List of doctest source files that need to be converted with 2to3. See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``

For simple projects, it's usually easy enough to manually add packages to the ``packages`` argument of ``setup()``. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what ``setuptools.find_packages()`` is for.

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a ``src`` or ``lib`` directory as the root of their source tree, and those projects would of course use ```src`` or ```lib``` as the first argument to ```find_packages()``. (And such projects also need something like ```package_dir = {'': 'src'}`` in their ```setup()``` arguments, but that's just a normal distutils thing.)

Anyway, ```find_packages()``` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an ```__init__.py``` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, ```find_packages(exclude=['*.tests'])``` will exclude all packages whose

---

Open Source Used In FXOS MIO 2.10.1.166 5337
last name part is "tests". Or, "find_packages(exclude=['*.tests',
'*.tests.*'])" will also exclude any subpackages of packages named "tests", but it still won't exclude a top-level "tests" package or the children thereof. In fact, if you really want no "tests" packages at all, you'll need something like this:

    find_packages(exclude=['*.tests', '*.tests.*', 'tests.*', 'tests'])

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

Automatic Script Creation
========================

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the "-m" option only works for actual "py" files that aren't installed in a package.

`setuptools` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an "exe" file so that users don't have to change their "PATHEXT" settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called "foo" and "bar", and a GUI script called "baz", you might do something like this:

    setup(
        # other arguments here...
        entry_points={
            'console_scripts': [
                'foo = my_package.some_module:main_func',
                'bar = other_module:some_func',
            ],
            'gui_scripts': [
                'baz = my_package_gui:start_func',
            ],
        }
    )
When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of `foo`, `bar`, and `baz` scripts will be installed that import `main_func` and `some_func` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to `sys.exit()`, so you can return an errorlevel or message to print to stderr.

On Windows, a set of `foo.exe`, `bar.exe`, and `baz.exe` launchers are created, alongside a set of `foo.py`, `bar.py`, and `baz.pyw` files. The `.exe` wrappers find and execute the right version of Python to run the `.py` or `.pyw` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to `sys.path` when the script is run. For more information on "extras", see the section below on 'Declaring Extras'. For more information on "entry points" in general, see the section below on 'Dynamic Discovery of Services and Plugins'.

"Eggsecutable" Scripts

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

Occasionally, there are situations where it's desirable to make an `.egg` file directly executable. You can do this by including an entry point such as the following:

```python
setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ],
    }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports `main_func()` from `my_package.some_module`. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `/bin/sh`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`. 

---

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This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, "pkg_resources" will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies
======================
``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `"<",">","<=",">=","==",or "!=```, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `"\"`.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. `">1,">=2"` becomes `">1"`, and `"<2,"<3"` becomes `"<3"`). `"!=``` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. `"<2,">=2"` or `"==2,"!=2"`) is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers:

```
docutils >= 0.3

# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
     ==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST] >=0.5a4

setuptools==0.5a7
```

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The simplest way to include requirement specifiers is to use the `install_requires` argument to `setup()`. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, `setup.py install`, or `setup.py develop`, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.

2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as long as you either install the project or use `setup.py develop` to do development work on it. (See "Development Mode" below for more details on using `setup.py develop`.)

Dependencies that aren't in PyPI
-------------------------------

If your project depends on packages that aren't registered in PyPI, you may still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils `sdist` format,
- a single `.py` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to `setup()`. The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL
In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `~py~` file, you must include an `''#egg=project-version''` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `''setup.py''` to wrap the single `~py~` file as an egg.

In the case of a VCS checkout, you should also append `''#egg=project-version''` in order to identify for what package that checkout should be used. You can append `''@REV''` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `''svn+URL''` for Subversion,
- `''git+URL''` for Git, and
- `''hg+URL''` for Mercurial

A more complete example would be:

```
``vcs+proto://host/path@revision#egg=project-version``
```

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the `''requires''` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `''setup.py bdist_egg''`.

The `''dependency_links''` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed::

```python
setup(
...
    dependency_links = [
        "http://peak.telecommunity.com/snapshots/"]
)
```

.. _Declaring Extras:
Declaring "Extras" (optional features with their own dependencies)

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires`.

For example, let's say that Project A offers optional PDF and reST support:

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': ['ReportLab>=1.2', 'RXP'],
        'reST': ['docutils>=0.3'],
    }
)
```

As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry_points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run:

```python
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF],
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    }
)
```
Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this:

```python
setup(
    name="Project-B",
    install_requires = ['Project-A[PDF]'],
    ...
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `extras_require` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this:

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ['docutils>=0.3'],
    }
)
```

so that Package B doesn't have to remove the `"[PDF]"` from its requirement specifier.

### Including Data Files

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your
packages. First, you can simply use the `include_package_data` keyword, e.g.:

```python
from setuptools import setup, find_packages
setup(
    ...,
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils' `MANIFEST.in` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems` for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the `package_data` keyword, e.g.:

```python
from setuptools import setup, find_packages
setup(
    ...,
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        ': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    }
)
```

The `package_data` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this:

```python
setup.py
src/
    mypkg/
        __init__.py
        mypkg.txt
data/
        somefile.dat
        otherdata.dat
```

The setuptools setup file might look like this:

```python
from setuptools import setup, find_packages
```
setup(
...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'':'src'},  # tell distutils packages are under src

    package_data = {
        # If any package contains *.txt files, include them:
        ': [ '*.txt' ],
        # And include any *.dat files found in the 'data' subdirectory
        # of the 'mypkg' package, also:
        'mypkg': [ 'data/*.dat' ],
    }
)
)

Notice that if you list patterns in `package_data` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the `mypkg.txt` file gets included even though it's not listed in the patterns for `mypkg`.

Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the `package_data` argument was previously only available in `setuptools`, it was also added to the Python `distutils` package as of Python 2.4; there is some documentation for the feature [available on the python.org website](http://docs.python.org/dist/node11.html). If using the setuptools-specific `include_package_data` argument, files specified by `package_data` will *not* be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

Sometimes, the `include_package_data` or `package_data` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this::

    from setuptools import setup, find_packages
    setup(
        ...
        packages = find_packages('src'),  # include all packages under src
        package_dir = {'':'src'},  # tell distutils packages are under src

        include_package_data = True,  # include everything in source control

        # ...but exclude README.txt from all packages

        exclude_package_data = {'src': ['README.txt']},  # exclude README.txt
    )
exclude_package_data = { `'': ['README.txt'] },
)

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

`include_package_data`
Accept all data files and directories matched by `MANIFEST.in`.

`package_data`
Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.

`exclude_package_data`
Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run `setup.py clean --all` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run `setup.py clean --all`.

Accessing Data Files at Runtime
-------------------------------

Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API` of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
Non-Package Data Files

The `distutils` normally install general "data files" to a platform-specific location (e.g. `/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`, by specifying a `Requirement` instead of a package name:

```python
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the `shutil` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `eager_resources` argument to `setup()`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other*
than distutils-built C extensions, and those shared libraries use file extensions other than ``.dll``, ``.so``, or ``.dylib``, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the ``native_libs.txt`` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as ``eager_resources``, because they need to be present in the filesystem when he C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract *all* C extensions and `eager_resources` at the same time, whenever *any* C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in `eager_resources` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of `eager_resources` being relevant to your project.

Extensible Applications and Frameworks
======================================

.. _Entry Points:

Dynamic Discovery of Services and Plugins
------------------------------------------

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called `blogtool.parsers`, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more
parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an `.rst` file parser entry point in the `blogtool.parsers` entry point group, for our hypothetical blogging tool:

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```python
setup(
    # ...
    entry_points = 
        ['blogtool.parsers':
         '.rst = some.nested.module:SomeClass.some_classmethod [reST]
         ''
         ,
         extras_require = dict(reST = "Docutils>=0.3.5")
        ]
)
```

The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)
Defining Additional Metadata

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the "pkg_resources" metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their "ProjectName.egg-info" directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to `setup()` in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on `Creating distutils Extensions` for more details, especially the subsection on `Adding new EGG-INFO Files`.

"Development Mode"

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special `.egg-link` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.
If you have enabled the `use_2to3` flag, then of course the `.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using `setup.py develop --uninstall`, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the `develop` command; see the section on the `develop` command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this:

```python
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a `setuptools`-based project
=========================================

Using `setuptools`... Without bundling it!
------------------------------------------

Your users might not have `setuptools` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py` and put it in the same directory as your `setup.py` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

```python
import ez_setup
```
ez_setup.use_setuptools()

That's it. The ``ez_setup`` module will automatically download a matching version of ``setuptools`` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' ``ez_setup.py`` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use ``setup.py sdist upload`` or ``setup.py bdist_egg upload`` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use ``setup.py register`` to do that. Or you can do it all in one step, e.g. ``setup.py register sdist bdist_egg upload`` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of ``setuptools``, you can specify the exact version and base download URL as parameters to the ``use_setuptools()`` function. See the function's docstring for details.)

What Your Users Should Know
---------------------------

In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to ``site-packages``, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and ``easy_install``.

Network Access
If your project is using ``ez_setup``, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`_. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations
You should inform your users that if they are installing your project to somewhere other than the main ``site-packages`` directory, they should first install setuptools using the instructions for `Custom Installation Locations`_, before installing your project.

Your Project's Dependencies
If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don’t have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the `-f` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use `-f` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn’t able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers

Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual’s sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project’s best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn’t `easy_install`! Setuptools currently supports `bdist_rpm`, `bdist_wininst`, and `bdist_dumb` formats for system packaging. If a user has a locally-installed `bdist` packaging tool that internally uses the distutils `install` command, it should be able to work with `setuptools`’s `bdist` commands. Some examples of “bdist” formats that this should work with include the `bdist_nsi` and `bdist_msi` formats for Windows.

However, packaging tools that build binary distributions by running
``setup.py install`` on the command line or as a subprocess will require modification to work with setuptools. They should use the ``--single-version-externally-managed`` option to the ``install`` command, combined with the standard ``--root`` or ``--record`` options. See the `install command`_ documentation below for more details. The ``bdist_deb`` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the ``zip_safe`` flag
----------------------------

For some use cases (such as bundling as part of a larger application), Python packages may be run directly from a zip file. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, ``setuptools`` can install your project as a zipfile or a directory, and its default choice is determined by the project's ``zip_safe`` flag.

You can pass a True or False value for the ``zip_safe`` argument to the `setup()` function, or you can omit it. If you omit it, the ``bdist_egg`` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the ``bdist_egg`` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no ``__file__`` or ``__path__`` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses ``pkg_resources`` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime`_ section above for more information.)

However, if ``bdist_egg`` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set ``zip_safe`` to "True" in your `setup()` call. If it turns out that it doesn't work, you can always change it to "False", which will force ``setuptools`` to install your project as a directory rather than as a zipfile.
Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok .` or `setup.py easy_install --always-unzip .` in your project directory. to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `True` or `False` for the `zip_safe` flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

Namespace Packages

----------

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its `__init__.py`, and that it is merely a container for modules and subpackages.

The `pkg_resources` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The `namespace_packages` argument to `setup()` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this:

```python
setup(
    # ...
    namespace_packages = ['zope']
)
```

because it contains a `zope.interface` package that lives in the `zope` namespace package. Similarly, a project for a standalone `zope.publisher` would also declare the `zope` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" `zope` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's
``zope.app`` package is a namespace package, and in the future PEAK's
``peak.util`` package will be too.

Note, by the way, that your project's source tree must include the namespace
packages' ``__init__.py`` files (and the ``__init__.py`` of any parent
packages), in a normal Python package layout. These ``__init__.py`` files
*must* contain the line:

```python
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that
the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's
``__init__.py``. Even though it may appear to work during development, or when
projects are installed as ``.egg`` files, it will not work when the projects
are installed using "system" packaging tools -- in such cases the
``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of
*every* project that has contents for the namespace package in question, in
order to ensure that the namespace will be declared regardless of which
project's copy of ``__init__.py`` is loaded first. If the first loaded
``__init__.py`` doesn't declare it, it will never *be* declared, because no
other copies will ever be loaded!

TRANSITIONAL NOTE

~~~

Setuptools automatically calls ``declare_namespace()`` for you at runtime,
but future versions may *not*. This is because the automatic declaration
feature has some negative side effects, such as needing to import all namespace
packages during the initialization of the ``pkg_resources`` runtime, and also
the need for ``pkg_resources`` to be explicitly imported before any namespace
packages work at all. In some future releases, you'll be responsible
for including your own declaration lines, and the automatic declaration feature
will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools
will warn you about missing ``declare_namespace()`` calls in your
``__init__.py`` files, and you should correct these as soon as possible
before the compatibility support is removed.

Namespace packages without declaration lines will not work
correctly once a user has upgraded to a later version, so it's important that
you make this change now in order to avoid having your code break in the field.

Our apologies for the inconvenience, and thank you for your patience.
Tagging and "Daily Build" or "Snapshot" Releases

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, ``setuptools`` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (``--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (``--tag-svn-revision, -r``)

* An 8-character representation of the build date (``--tag-date, -d``), as a postrelease tag

You can add these tags by adding ``egg_info`` and the desired options to the command line ahead of the ``sdist`` or ``bdist`` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info` command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version` for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like::

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the
If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias` command, which would let each package define an alias like ``daily`` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run ``setup.py daily`` in each project directory. (And, you could also define sitewide or per-user default versions of the `daily` alias, so that projects that didn't define their own would use the appropriate defaults.)

Generating Source Distributions
-------------------------------

``setuptools`` enhances the distutils' default algorithm for source file selection with pluggable endpoints for looking up files to include. If you are using a revision control system, and your source distributions only need to include files that you're tracking in revision control, use a corresponding plugin instead of writing a ``MANIFEST.in`` file. See the section below on 'Adding Support for Revision Control Systems' for information on plugins.

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a ``MANIFEST.in`` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with `MANIFEST` or how it's generated from `MANIFEST.in`; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's `.egg-info` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its ``sdist`` command omits nearly all of the options that the distutils' more complex ``sdist`` process requires. For all practical purposes, you'll probably use only the ``--formats`` option, if you use any option at all.

Making your package available for EasyInstall
---------------------------------------------
If you use the `register` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the `docs for the register command` for more details.)

.. `docs for the register command`: http://docs.python.org/dist/package-index.html

If you also use the `upload` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

``url`` and ``download_url``
These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links.

``long_description``
EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an `#egg=project` or `#egg=project-version` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your `url` or `download_url` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either `#egg=project` or `#egg=project-version` added to the URL. You should replace `project` and `version` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the `#egg=` suffix, and
it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ``#egg=projectname-dev``), so that users can do something like this:

```
easy_install --editable projectname==dev
```

in order to check out the in-development version of ``projectname``.

Managing "Continuous Releases" Using Subversion
-----------------------------------------------

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's ``setup.cfg`` file:

```
.. code-block:: ini

[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell ``setuptools`` to generate package version numbers like ``1.0a1.dev-r1263`` which will be considered to be an *older* release than ``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg infrastructure (including ``setuptools``, ``pkg_resources`` and EasyInstall) will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the ``tag_build=.dev`` , and always use the *last* release as a version number, so that your post-1.0 builds are labelled ``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an ``#egg=projectname-dev`` suffix. This allows users to request EasyInstall to download ``projectname==dev`` in order to get the latest in-development
code. Note that if your project depends on such in-progress code, you may wish to specify your `install_requires` (or other requirements) to include `==dev`, e.g.:

```python
install_requires = ['OtherProject>=0.2a1.dev-r143,==dev']
```

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an `#egg=OtherProject-dev` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run `setup.py develop` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the `develop` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run `setup.py develop` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from `setup.cfg`, so that you don't end up registering versions like `foobar-0.7a1.dev-r34832`. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to `setup.cfg` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like:

```bash
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

The first part of this command (`egg_info -RDb ""`) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your `setup.py`, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal
alias for this operation, e.g.::

```
python setup.py alias -u release egg_info -RDb ""
```

You can then use it like this::

```
python setup.py release sdist bdist_egg register upload
```

Or of course you can create more elaborate aliases that do all of the above.
See the sections below on the `egg_info`_ and `alias`_ commands for more ideas.

Distributing Extensions compiled with Pyrex
-------------------------------------------

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, *not* ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source of your ``Extension`` objects in the setup script. ``setuptools`` will detect at build time whether Pyrex is installed or not. If it is, then ``setuptools`` will use it. If not, then ``setuptools`` will silently change the ``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx`` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original ``.pyx`` files. This means that you will probably want to include current ``.c`` files in your revision control system, rebuilding them whenever you check changes in for the ``.pyx`` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

-----------------
Command Reference
-----------------

.. _alias:

``__alias__`` - Define shortcuts for commonly used commands

```
__alias__
```

Sometimes, you need to use the same commands over and over, but you can't
necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different `egg_info` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using `setup.py alias aliasname expansion`, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various `egg_info` tagging options:

```
setup.py alias --global-config daily egg_info --tag-svn-revision \
    --tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.:

```
setup.py daily bdist_egg    # generate a daily-build .egg file
setup.py daily sdist       # generate a daily-build source distro
setup.py daily sdist bdist_egg # generate both
```

The above commands are interpreted as if the word `daily` were replaced with `egg_info --tag-svn-revision --tag-build=development`.

Note that setuptools will expand each alias at most once in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias:

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the `bdist_egg` command so that it always runs the `rotate` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on `bdist_egg` because the alias is only expanded once when used.

You can remove a defined alias with the `--remove` (or `-r`) option, e.g.:

```
setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of
the `configuration file options` (listed under the `saveopts` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the `alias` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

``bdist_egg`` - Create a Python Egg for the project

This command generates a Python Egg (*.egg* file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (*.egg-info*) directory. If you have added any extra metadata files to the `*.egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may be occasionally useful:

``--dist-dir=DIR, -d DIR``
Set the directory where the *.egg* file will be placed. If you don't supply this, then the `--dist-dir` setting of the `bdist` command will be used, which is usually a directory named `dist` in the project directory.

``--plat-name=PLATFORM, -p PLATFORM``
Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.
``--exclude-source-files``

Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

``--keep-temp, -k``

Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

``--bdist-dir=DIR, -b DIR``

Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

``--skip-build``

Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:

``develop`` - Deploy the project source in "Development Mode"

==============================================
that the project is on ``sys.path`` by default for all programs run using that Python installation.

The ``develop`` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on ``sys.path`` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the ``develop`` command invokes the ``build_ext -i`` command to ensure any C extensions in the project have been built and are up-to-date, and the ``egg_info`` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the ``develop`` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning ``develop``, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the ``develop`` or ``test`` commands to keep the distribution updated.

Here are some of the options that the ``develop`` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use ``--exclude-scripts`` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the ``develop`` command, if you need finer control over the installation options for dependencies.

``--uninstall, -u``
Un-deploy the current project. You may use the ``--install-dir`` or ``-d`` option to designate the staging area. The created ``.egg-link`` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from ``easy-install.pth`` if the staging area is Python's ``site-packages`` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the ``--exclude-scripts`` (aka ``-x``) option when you run ``develop`` to deploy the project.

``--multi-version, -m``
"Multi-version" mode. Specifying this option prevents ``develop`` from adding an ``easy-install.pth`` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use
``pkg_resources.require()`` to put it on ``sys.path``, or you are running a wrapper script generated by ``setuptools`` or EasyInstall. (In which case the wrapper script calls ``require()`` for you.)

Note that if you install to a directory other than ``site-packages``, this option is automatically in effect, because ``.pth`` files can only be used in ``site-packages`` (at least in Python 2.3 and 2.4). So, if you use the ``--install-dir`` or ``-d`` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

``--install-dir=DIR, -d DIR``
Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the ``site-packages`` directory, but if you are using distutils configuration files, setting things like ``prefix`` or ``install_lib``, then those settings are taken into account when computing the default staging area.

``--script-dir=DIR, -s DIR``
Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an ``--install-dir`` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

``--exclude-scripts, -x``
Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they are already present in another directory on ``sys.path``. By default, if a requirement can be met using a distribution that is already available in a directory on ``sys.path``, it will not be copied to the staging area.

``--egg-path=DIR``
Force the generated ``.egg-link`` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.
In addition to the above options, the `develop` command also accepts all of the same options accepted by `easy_install`. If you've configured any `easy_install` settings in your `setup.cfg` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `[develop]` section or on the command line.

``easy_install`` - Find and install packages
==============================================================================

This command runs the `EasyInstall tool <easy_install.html>` for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your `setup.cfg` or other distutils config files.

.. _egg_info:
``egg_info`` - Create egg metadata and set build tags
==============================================================================

This command performs two operations: it updates a project's `egg-info` metadata directory (used by the `bdist_egg`, `develop`, and `test` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while executing other commands. (It also generates the `.egg-info/SOURCES.txt` manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and required by `pkg_resources`, this command can be extended to write other metadata files as well, by defining entry points in the `egg_info.writers` group. See the section on `Adding new EGG-INFO Files` below for more details. Note that using additional metadata writers may require you to include a `setup_requires` argument to `setup()` in order to ensure that the desired writers are available on `sys.path`. 

---

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Release Tagging Options
-----------------------

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:

``--tag-build=NAME, -b NAME``

Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off --tag-build and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `--tag-build=""` or `--tag-build=`` as an argument to the `egg_info` command.

``--tag-svn-revision, -r``

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form "-rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a "-rNNNN" string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with "-r" and a number, then "-r0" is used.

``--no-svn-revision, -R``

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

``--tag-date, -d``

Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.
``--no-date, -D``

Don't include a date stamp in the version number. This option is included so you can override a default setting in ``setup.cfg``.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other `egg_info` Options
------------------------

``--egg-base=SOURCEDIR, -e SOURCEDIR``

Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a `src` or `lib` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `package_dir` argument to the `setup()` function, if any. If there is no `package_dir` set, this option defaults to the current directory.

`egg_info` Examples
-------------------

Creating a dated "nightly build" snapshot egg::

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default tags are specified in `setup.cfg`::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

(Notice that `egg_info` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. _install command:
``install`` - Run ``easy_install`` or old-style installation

The setuptools ``install`` command is basically a shortcut to run the
``easy_install`` command on the current project. However, for convenience
in creating "system packages" of setuptools-based projects, you can also
use this option:

``--single-version-externally-managed``
This boolean option tells the ``install`` command to perform an "old style"
installation, with the addition of an ``.egg-info`` directory so that the
installed project will still have its metadata available and operate
normally. If you use this option, you *must* also specify the ``--root``
or ``--record`` options (or both), because otherwise you will have no way
to identify and remove the installed files.

This option is automatically in effect when ``install`` is invoked by another
distutils command, so that commands like ``bdist_wininst`` and ``bdist_rpm``
will create system packages of eggs. It is also automatically in effect if
you specify the ``--root`` option.

``install_egg_info`` - Install an ``.egg-info`` directory in ``site-packages``

Setuptools runs this command as part of ``install`` operations that use the
``--single-version-externally-managed`` options. You should not invoke it
directly; it is documented here for completeness and so that distutils
extensions such as system package builders can make use of it. This command
has only one option:

``--install-dir=DIR, -d DIR``
The parent directory where the ``.egg-info`` directory will be placed.
Defaults to the same as the ``--install-dir`` option specified for the
``install_lib`` command, which is usually the system ``site-packages``
directory.

This command assumes that the ``egg_info`` command has been given valid options
via the command line or ``setup.cfg``, as it will invoke the ``egg_info``
command and use its options to locate the project's source ``.egg-info``
directory.

``rotate`` - Delete outdated distribution files

.. _rotate:
As you develop new versions of your project, your distribution ("dist") directory will gradually fill up with older source and/or binary distribution files. The "rotate" command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

```
--match=PATTERNLIST, -m PATTERNLIST``
Comma-separated list of glob patterns to match. This option is *required*. The project name and "-*" is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like "*.zip" or "*.egg" to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

```
--keep=COUNT, -k COUNT``
Number of matching distributions to keep. For each group of files identified by a pattern specified with the ``--match`` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

```
--dist-dir=DIR, -d DIR``
Directory where the distributions are. This defaults to the value of the "bdist" command's "--dist-dir" option, which will usually be the project's "dist" subdirectory.

**Example 1**: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::

setup.py rotate --match=.tar.gz --keep=3

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

setup.py rotate --match=*.py2.3*.egg,*.py2.4*.egg --keep=1

.. _saveopts:

```
``saveopts`` - Save used options to a configuration file
```
===============================================================================

Finding and editing `distutils` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the `saveopts` command. Just add it to the command line to save the options you used. For example, this command builds the project using the `mingw32` C compiler, then saves the --compiler setting as the default
for future builds (even those run implicitly by the `install` command):

    setup.py build --compiler=mingw32 saveopts

The `saveopts` command saves all options for every command specified on the command line to the project's local `setup.cfg` file, unless you use one of the `configuration file options` to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration:

    setup.py build --compiler=mingw32 saveopts -g

Note that it doesn't matter where you place the `saveopts` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example:

    setup.py saveopts -g build --compiler=mingw32

Note, however, that all of the commands specified are always run, regardless of where the `saveopts` is placed on the command line.

Configuration File Options
--------------------------
Normally, settings such as options and aliases are saved to the project's local `setup.cfg` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

```--global-config, -g``
Save settings to the global `distutils.cfg` file inside the `distutils` package directory. You must have write access to that directory to use this option. You also can't combine this option with `--u` or `--f`.

```--user-config, -u``
Save settings to the current user's `~/.pydistutils.cfg` (POSIX) or `$HOME/pydistutils.cfg` (Windows) file. You can't combine this option with `--g` or `--f`.

```--filename=FILENAME, -f FILENAME``
Save settings to the specified configuration file to use. You can't combine this option with `--g` or `--u`. Note that if you specify a non-standard filename, the `distutils` and `setuptools` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other `setuptools` commands that modify configuration files, such as the `alias` and `setopt` commands.
.. _setopt:

``setopt`` - Set a distutils or setuptools option in a config file
==================================================================

This command is mainly for use by scripts, but it can also be used as a quick
and dirty way to change a distutils configuration option without having to
remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to ``mingw32`` (using long option
names)::

    setup.py setopt --command=build --option=compiler --set-value=mingw32

**Example 2**. Remove any setting for the distutils default package
installation directory (short option names)::

    setup.py setopt -c install -o install_lib -r

Options for the ``setopt`` command:

``--command=COMMAND, -c COMMAND``
Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``
The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``
The value to set the option to. Not needed if ``-r`` or ``--remove`` is
set.

``--remove, -r``
Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file
options`_ (listed under the `saveopts`_ command, above) to determine which
distutils configuration file the option will be added to (or removed from).

.. _test:

``test`` - Build package and run a unittest suite
=================================================

When doing test-driven development, or running automated builds that need
testing before they are deployed for downloading or use, it's often useful
for you to run your project's unit tests without actually deploying the project
anywhere, even using the `develop` command. The `test` command runs a
project's unit tests without actually deploying it, by temporarily putting the
project's source on `sys.path`, after first running `build_ext -i` and
`egg_info` to ensure that any C extensions and project metadata are
up-to-date.

To use this command, your project's tests must be wrapped in a `unittest`
test suite by either a function, a `TestSuite` class or method, or a module
or package containing `TestSuite` classes. If the named suite is a module,
and the module has an `additional_tests()` function, it is called and the
result (which must be a `unittest.TestSuite`) is added to the tests to be
run. If the named suite is a package, any submodules and subpackages are
recursively added to the overall test suite. (Note: if your project specifies
a `test_loader`, the rules for processing the chosen `test_suite` may
differ; see the `test_loader` documentation for more details.)

Note that many test systems including `doctest` support wrapping their
non-`unittest` tests in `TestSuite` objects. So, if you are using a test
package that does not support this, we suggest you encourage its developers to
implement test suite support, as this is a convenient and standard way to
aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the `unittest`
package's text test runner, but you can get the "quiet" mode (just dots) if
you supply the `--quiet` or `--quiet` option, either as a global option to
the setup script (e.g. `setup.py -q test`) or as an option for the `test`
command itself (e.g. `setup.py test -q`). There is one other option
available:

``--test-suite=NAME, -s NAME``

Specify the test suite (or module, class, or method) to be run
(e.g. `some_module.test_suite`). The default for this option can be
set by giving a `test_suite` argument to the `setup()` function, e.g.:

```python
setup(
    # ...
    test_suite = "my_package.tests.test_all"
)
```

If you did not set a `test_suite` in your `setup()` call, and do not
provide a `--test-suite` option, an error will occur.

.. _upload:

``upload`` - Upload source and/or egg distributions to PyPI
The ``upload`` command is implemented and documented
in distutils.

Setuptools augments the ``upload`` command with support
for `keyring <https://pypi.python.org/pypi/keyring>`_,
allowing the password to be stored in a secure
location and not in plaintext in the .pypirc file. To use
keyring, first install keyring and set the password for
the relevant repository, e.g.::

    python -m keyring set <repository> <username>
    Password for '<username>' in '<repository>': ********

Then, in .pypirc, set the repository configuration as normal,
but omit the password. Thereafter, uploads will use the
password from the keyring.

New in 20.1: Added keyring support.

``upload_docs`` - Upload package documentation to PyPI

PyPI now supports uploading project documentation to the dedicated URL
https://pythonhosted.org/<project>/.

The ``upload_docs`` command will create the necessary zip file out of a
documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version
must already be registered with PyPI, using the distutils ``register``
command -- just like the ``upload`` command.

Assuming there is an ``Example`` project with documentation in the
subdirectory ``docs``, e.g.::

    Example/
    |-- example.py
    |-- setup.cfg
    |-- setup.py
    |-- docs
    |    |-- build
    |    |    |-- html
    |    |    |    |-- index.html
You can simply pass the documentation directory path to the `upload_docs` command:

```bash
python setup.py upload_docs --upload-dir=docs/build/html
```

If no `--upload-dir` is given, `upload_docs` will attempt to run the `build_sphinx` command to generate uploadable documentation.

For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_ must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful defaults in the `setup.cfg` of your Python project, e.g.:

```ini
[upload_docs]
upload-dir = docs/build/html
```

The `upload_docs` command has the following options:

`--upload-dir`

The directory to be uploaded to the repository.

`--show-response`

Display the full response text from server; this is useful for debugging PyPI problems.

`--repository=URL, -r URL`

The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).

Extending and Reusing Setuptools
---------------------------------

Creating `distutils` Extensions
===============================

It can be hard to add new commands or setup arguments to the `distutils`. But the `setuptools` package makes it a bit easier, by allowing you to distribute a `distutils` extension as a separate project, and then have projects that need the extension just refer to it in their `setup_requires` argument.
With `setuptools`, your distutils extension projects can hook in new commands and `setup()` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on "Dynamic Discovery of Services and Plugins" above for some more background on entry points.)

**Adding Commands**

You can add new `setup` commands by defining entry points in the `distutils.commands` group. For example, if you wanted to add a `foo` command, you might add something like this to your distutils extension project's `setup` script:

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [  
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the `--command-packages` option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the distutils to search for entry points in the active distributions on `sys.path`. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

**Adding `setup()` Arguments**

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your distutils extension project's `setup` script:

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [  
            "bar_baz = mypackage.some_module:bar_baz",
        ],
    },
)
```
setup(
    # ...  
    entry_points = {  
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it's supplied. The `Distribution` object will have the initial value of the attribute set to `None`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here's an example validation function::

    def assert_bool(dist, attr, value):
        
        """Verify that value is True, False, 0, or 1""
        if bool(value) != value:
            raise DistutilsSetupError(
                "%r must be a boolean value (got %r)" % (attr, value)
            )

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

Adding new EGG-INFO Files

-------------------------------
Some extensible applications or frameworks may want to allow third parties to
develop plugins with application or framework-specific metadata included in
the plugins' EGG-INFO directory, for easy access via the `pkg_resources`-
metadata API. The easiest way to allow this is to create a distutils extension
to be used from the plugin projects' setup scripts (via `setup_requires`)-
that defines a new setup keyword, and then uses that data to write an EGG-INFO
file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers`-
group, and calls them to write the files. Here's a simple example of a
distutils extension defining a setup argument `foo_bar`, which is a list of
lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any
project that uses the argument::

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)
```

This simple example makes use of two utility functions defined by setuptools
for its own use: a routine to validate that a setup keyword is a sequence of
strings, and another one that looks up a setup argument and writes it to
a file. Here's what the writer utility looks like::

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '
'.join(value)+'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, `egg_info.writers` entry points must be a function taking
three arguments: a `egg_info` command instance, the basename of the file to
write (e.g. `foo_bar.txt`), and the actual full filename that should be
written to.

In general, writer functions should honor the command object's `dry_run`
setting when writing files, and use the `distutils.log` object to do any
console output. The easiest way to conform to this requirement is to use
the `cmd` object's `write_file()`, `delete_file()`, and
`write_or_delete_file()` methods exclusively for your file operations. See
those methods’ docstrings for more details.

Adding Support for Revision Control Systems
----------------------------------------------

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked by another revision control system, you can do so by adding an entry point to the `setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```python
def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this:

```python
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `setup_requires`. When you create a source distribution with the `sdist` command, setuptools automatically records what files were found in the `SOURCES.txt` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:
* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named ``some/dir`` under the current directory should NOT be rendered as ``./some/dir`` or ``/somewhere/some/dir``, but *always* as simply ``some/dir``

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *may*, however, use ``distutils.log.warn()`` to inform the user of the missing program(s).

Subclassing ``Command``
-----------------------

Sorry, this section isn't written yet, and neither is a lot of what's below this point.

XXX

Reusing ``setuptools`` Code
===========================

``ez_setup``
-------------

XXX

``setuptools.archive_util``
----------------------------

XXX

``setuptools.sandbox``
----------------------

XXX

``setuptools.package_index``
XXX

Mailing List and Bug Tracker
-------------------------------

Please use the `distutils-sig mailing list` for questions and discussion about setuptools, and the `setuptools bug tracker` ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision
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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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

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1.441 ipmi-tool 1.8.17

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