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md5.c: NCSA HTTPd code which uses the md5.c RSA Code

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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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<script src="./style/scripts/prettify.min.js" type="text/javascript"></script>
</head>
<body id="manual-page" class="no-sidebar">
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<p class="apache">Apache HTTP Server Version 2.4</p>
<img alt="" src="./images/feather.png" /></div>
<div class="up"><a href="./"><img title="&lt;-
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1.7 kerberos 1.13.2-12.el7_2

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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
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lib/kdb/iprop.x
lib/kdb/kdb_convert.c
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1.10 binutils 2.31.1

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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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uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

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

It may happen that this requirement contradicts the license
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END OF TERMS AND CONDITIONS

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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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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.

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

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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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  Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,
  Peter Allworth <linsol at zeta dot org dot au>,
  James Bottomley <jejb at parisc-linux dot org>,
  Lars Marowsky-Bree <lmb at suse dot de>,
  Kurt Garloff <garloff at suse dot de>,
  Grant Grundler <grundler at parisc-linux dot org>,
  Christophe Varoqui <christophe dot varoqui at free dot fr>,
  Michael Weller <eowmob at exp-math dot uni-essen dot de>,
  Eric Youngdale <eric at andante dot org>

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Upstream Authors: Douglas Gilbert <dgilbert at interlog dot com>,
Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,
Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
Grant Grundler <grundler at parisc-linux dot org>,
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1.19 gnutls 3.6.4

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

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

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

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

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

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

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

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

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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 distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.22 libidn 1.33 1
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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
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We call this license the "Lesser" General Public License because it
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For example, on rare occasions, there may be a special need to
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allowed to use the library. A more frequent case is that a free
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In other cases, permission to use a particular library in non-free
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Although the Lesser General Public License is Less protective of the
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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 distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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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.

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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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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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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The End

1.28 wxwidgets 2.9.4

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```c
printf("%s",png_get_copyright(NULL));
```

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December 15, 2011

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This package was debianized by Ron Lee <ron@debian.org> on Sun, 13 Feb 2000 18:40:00 +1030.

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

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used
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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 distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

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

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   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such
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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.31 jcommon 1.0.12.jar.pack

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1.38 pip 8.1.1

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1.50 pcre 8.32 15.el7_2.1

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

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

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

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

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

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

## Shared library options
LD_SOOPTIONS = -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

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

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\{GEN_DEPS.cc\} $< \n| sed \"s/(\$\*).o[ :]*/\1.o $@ : /g\" > $@;\n[ -s $@ ] \|| rm -f $@

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {*F}.$(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup

1.55 systemtap 2.8 10.el7
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For the server\util_md5.c component:

/*************************************************************************
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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/*                   ZeusBench V1.01
   =================

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

Thanks to the following people for their input:
   Mike Belshe (mbelshe@netscape.com)
   Michael Campanella (campanella@stevms.enet.dec.com)

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

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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1.65 libjpeg 8d
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The Independent JPEG Group's JPEG software

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DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
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, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.
The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES
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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30–44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology. If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


The 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/jpegsrc9c.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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ACKNOWLEDGMENTS
===============

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Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

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FILE FORMAT WARS
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The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions.

One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

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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.

1.66 dc 1.4

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________________________________________________________________________

AUTHOR: Michael J. McLennan

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mmclennan@lucent.com

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1.69 vim 7.4.160 1.el7
1.69.1 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 been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

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

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

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

USA: The methods mentioned below can be used. Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

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

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

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

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruethof 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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Arnaud LE HORS  BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)
Internet: lehors@sophia.inria.fr
Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
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

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

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

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

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

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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".

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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.

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

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1.74 xz 5.2.2 1.el7

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1.75 python 2.7.12

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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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Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)
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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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<tr>
<td>2.1.1</td>
<td>2.1+2.0.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.2</td>
<td>2.1.1</td>
<td>2002</td>
<td>PSF</td>
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</tr>
<tr>
<td>2.1.3</td>
<td>2.1.2</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2 and above</td>
<td>2.1.1</td>
<td>2001-now</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

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/* ---------------------------------------------
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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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Unicode version: 3.2
Table version: 1.0
Table format: Format A
Date: 2005-10-25
Authors: Marc-Andre Lemburg <mal@egenix.com>

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#
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#
# limited xinclude support for element trees
# history:
# 2003-08-15 fl   created
# 2003-11-14 fl   fixed default loader
#
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#
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Coded by Takuji Nishimura and Makoto Matsumoto.

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Sockets
-------
The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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--------------------------------

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```
Several paragraphs of disclaimer text follow, including the MD5 message digest algorithm.

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```
Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

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

Asynchronous socket services
--------------------------------

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

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test_epoll
----------

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1.90 zlib 1.2.5
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010

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

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

*/

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@enumerate 0
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End:
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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
Axel Haslam
Janet Head
Shivananda Hebbar
Hari Kanigeri
Tony Lindgren
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Omar Ramirez Luna
Ernesto Ramos
Chris Ring
Larry Schiefer
Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
   AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorg.uku.org.uk>
   Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
   Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
   Radio card (ITT sound processor)

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

+ many more (please mail me if you are missing in this list and would
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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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for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
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for the IR code for the ttusb-dec driver

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for the nxt2004 frontend driver

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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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1.106 zlib 1.2.11
1.106.1 Available under license:
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
1.107 atk 1.33.6

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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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the user installs one, as long as the modified version is
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1.110 coreutils 8.22 15.el7_2.1
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End

1.114 dhcp 4.2.5 42.el7.centos

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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">
    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.
  </xsl:variable>
</xsl:stylesheet>
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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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@c
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Accompany the work with the complete corresponding machine-readable
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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
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  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice
}
```
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@c @bye

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1.121 junit 4.1.jar.pack

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1.124 strace 4.8 11.el7
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X-Original-To: mps@bridge.intra
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Received: from localhost (localhost [127.0.0.1])
by localhost (Postfix) with ESMTP id B8C814E4F
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--
Peter S. Mazinger <ps dot m at gmx dot net>           ID: 0xA5F059F2
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1.129 sudo 1.8.23
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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
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Andric, Dimitry
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Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieuima, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

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

Blittermann, Mario
Bogusz, Jakub
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, Fredric
Hein, Jochen
Hufthammer, Karl Ove
Jerovec, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Kriznar, Tomislav
Marchal, Fredric
Margeviuus, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.130 libsoup 2.36.1
1.131 nettle 3.4

1.131.1 Available under license:

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### 1.132 python-setuptools 20.10.1

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* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/specifiers.py
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Building and Distributing Packages with Setuptools

``Setuptools`` is a collection of enhancements to the Python ``distutils`` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using ``setuptools`` look to the user like ordinary Python packages based on the ``distutils``. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By including just a single `bootstrap module`_, a 12K .py file, your package will automatically download and install ``setuptools`` if the user is building your package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/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

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.. _ez_setup.py: `bootstrap module`

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Developer's Guide

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Installing `setuptools`

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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 the distutils. Here's a minimal setup script using setuptools:

```
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
)
```

As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.

Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference` section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke:

```
python setup.py sdist
```

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts:

```
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],

    # Project uses reStructuredText, so ensure that the docutils get
    # installed or upgraded on the target machine
install_requires = ['docutils>=0.3'],

package_data = {
    # If any package contains *.txt or *.rst files, include them:
    '*.txt', '*.rst'],
    # And include any *.msg files found in the 'hello' package, too:
    'hello': '*.msg'],
},

# metadata for upload to PyPI
author = "Me",
author_email = "me@example.com",
description = "This is an Example Package",
license = "PSF",
keywords = "hello world example examples",
url = "http://example.com/HelloWorld/",  # project home page, if any

# could also include long_description, download_url, classifiers, etc.

In the sections that follow, we'll explain what most of these `setup()`
arguments do (except for the metadata ones), and the various ways you might use
them in your own project(s).

Specifying Your Project's Version
---------------------------------

Setuptools can work well with most versioning schemes; there are, however, a
few special things to watch out for, in order to ensure that setuptools and
EasyInstall can always tell what version of your package is newer than another
version. Knowing these things will also help you correctly specify what
versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release
or post-release tags. A release number is a series of digits punctuated by
dots, such as ``2.4`` or ``0.5``. Each series of digits is treated
numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the
same release number, denoting the first subrelease of release 2. But ``2.10``
is the *tenth* subrelease of release 2, and so is a different and newer release
from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also
ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release
tag. Pre-release tags make a version be considered *older* than the version
they are appended to. So, revision ``2.4`` is *newer* than revision ``2.4c1``,
which in turn is newer than ``2.4b1`` or ``2.4a1``. Postrelease tags make a
version be considered *newer* than the version they are appended to. So,
revisions like ``2.4-1`` and ``2.4pl3`` are newer than ``2.4``, but are *older* than ``2.4.1`` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include ``alpha``, ``beta``, ``a``, ``c``, ``dev``, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, ``2.4c1`` and ``2.4.c1`` and ``2.4-c1`` all represent release candidate 1 of version ``2.4``, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter ``c``: ``pre``, ``preview``, and ``rc``. So, version ``2.4rc1``, ``2.4pre1`` and ``2.4preview1`` are all the exact same version as ``2.4c1``, and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (``-``). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, ``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that ``dev`` is a pre-release tag, so this version is a *lower* version number than ``0.6a9``, which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the most part, setuptools’ interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number between them. Version ``1.9adev`` is the ``adev`` prerelease of ``1.9``, not a development pre-release of ``1.9a``. Use ``.dev`` instead, as in ``1.9a.dev``, or separate the prerelease tags with a number, as in ``1.9a0dev``. ``1.9a.dev``, ``1.9a0dev`` and even ``1.9.a.dev`` are identical versions from setuptools’ point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the ``pkg_resources.parse_version()`` function to compare different version numbers::

  >>> from pkg_resources import parse_version
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

```python
"unittest"
```
``unittest:TestLoader`` as your ``test_loader`` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the ``tests_require`` option to ensure that the package containing the loader class is available when the ``test`` command is run.

``eager_resources``
A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem as a unit. Resources listed here should be `/`-separated paths, relative to the source root, so to list a resource ``foo.png`` in package ``bar.baz``, you would include the string ``bar/baz/foo.png`` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`.

``use_2to3``
Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

``convert_2to3_doctests``
List of doctest source files that need to be converted with 2to3. See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``
-------------------------
For simple projects, it's usually easy enough to manually add packages to the ``packages`` argument of ``setup()``. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what ``setuptools.find_packages()`` is for.

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a ``src`` or ``lib``
directory as the root of their source tree, and those projects would of course use "src" or "lib" as the first argument to find_packages(). (And such projects also need something like `package_dir = {'': 'src'}` in their `setup()` arguments, but that's just a normal distutils thing.)

Anyway, find_packages() walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an `__init__.py` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, `find_packages(exclude=['*.tests'])` will exclude all packages whose last name part is `tests`. Or, `find_packages(exclude=['*.tests', '*.tests.*'])` will also exclude any subpackages of packages named `tests`, but it still won't exclude a top-level `tests` package or the children thereof. In fact, if you really want no `tests` packages at all, you'll need something like this:

```python
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:

```python
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

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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 and calls `main_func()` from `my_package.some_module`. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `/bin/sh`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies

```
``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `<=`, `>`, `<=`, `==`, `!=`, `>=`, `==`, `!=` or `!=`, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `"\"`. Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. `">1, >2"` becomes `">1"`, and `"<2, <3"` becomes `"<3"`). `"!="` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. `"<2,>2"` or `"==2,!=2"`) is meaningless and may
therefore produce bizarre results.)

Here are some example requirement specifiers::

docutils >= 0.3

# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5,\
 ==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST] >=0.5a4

setuptools==0.5a7

The simplest way to include requirement specifiers is to use the `install_requires` argument to `setup()`. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, `setup.py install`, or `setup.py develop`, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.

2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as long as you either install the project or use `setup.py develop` to do development work on it. (See "Development Mode" below for more details on using `setup.py develop`.)

Dependencies that aren't in PyPI
----------------------------------

If your project depends on packages that aren't registered in PyPI, you may still be able to depend on them, as long as they are available for download as:
- an egg, in the standard distutils `sdist` format,
- a single `.py` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to `setup()`.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL.

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project.

You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `.py` file, you must include an `#egg=project-version` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single `.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version` in order to identify for what package that checkout should be used. You can append `@REV` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:

```
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::

```bash
...
extras_require = {
    'PDF': ["ReportLab>=1.2", "RXP"],
    'reST': ["docutils>=0.3"],
}
...
```

```bash
entry_points={
    'console_scripts': [
        'rst2pdf = Project-A:main',
    ],
}
```
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.::

    from setuptools import setup, find_packages
    setup(
        ...
        include_package_data = True
    )

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils’ `MANIFEST.in` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems`_ for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the `package_data` keyword, e.g.::

    from setuptools import setup, find_packages
    setup(
        ...
        package_data = {  # If any package contains *.txt or *.rst files, include them:
            ':': ['*.txt', '*.rst'],  # And include any *.msg files found in the 'hello' package, too:
            'hello': ['*.msg'],
        }
    )

The `package_data` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

```
setup.py
src/
  mypkg/
    __init__.py
  mypkg.txt
data/
    somefile.dat
    otherdata.dat

The setuptools setup file might look like this:

    from setuptools import setup, find_packages
    setup(
        ...  
        packages = find_packages('src'), # include all packages under src
        package_dir = {'':'src'},   # tell distutils packages are under src

        package_data = {
            # If any package contains *.txt files, include them:
            ': ['*.txt'],
            # And include any *.dat files found in the 'data' subdirectory
            # of the 'mypkg' package, also:
            'mypkg': ['data/*.dat'],
        }
    )

Notice that if you list patterns in ``package_data`` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the ``package_data`` argument was previously only available in setuptools, it was also added to the Python ``distutils`` package as of Python 2.4; there is some documentation for the feature available on the python.org website. If using the setuptools-specific ``include_package_data`` argument, files specified by ``package_data`` will *not* be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

__ http://docs.python.org/dist/node11.html

Sometimes, the ``include_package_data`` or ``package_data`` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control
system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this:

```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

    include_package_data = True,  # include everything in source control

    # ...but exclude README.txt from all packages
    exclude_package_data = { '' : ['README.txt'] },
)
```

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

```
`include_package_data`
   Accept all data files and directories matched by `MANIFEST.in`.
```

```
`package_data`
   Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.
```

```
`exclude_package_data`
   Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.
```

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run `"setup.py clean --all"` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run `"setup.py clean --all"`.

Accessing Data Files at Runtime
---------------------------------
Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API` of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

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 distutils and higher automatically detects as shared libraries and adds to the `native_libs.txt` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `eager_resources`, because they need to be present in the filesystem when the C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract *all* C extensions and `eager_resources` at the same time, whenever any C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in `eager_resources` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of `eager_resources` being relevant to your project.

Extensible Applications and Frameworks
======================================

.. _Entry Points:

Dynamic Discovery of Services and Plugins

---
``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called `blogtool.parsers`, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an `.rst` file parser entry point in the `blogtool.parsers` entry point group, for our hypothetical blogging tool:

```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`.

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::
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 most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias` command, which would let each package define an alias like `daily` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run `setup.py daily` in each project directory. (And, you could also define sitewide or per-user default versions of the `daily` alias, so that projects that didn't define their own would use the appropriate defaults.)

Generating Source Distributions
-------------------------------
``setuptools`` enhances the distutils' default algorithm for source file selection with pluggable endpoints for looking up files to include. If you are using a revision control system, and your source distributions only need to include files that you're tracking in revision control, use a corresponding plugin instead of writing a `MANIFEST.in` file. See the section below on `Adding Support for Revision Control Systems` for information on plugins.

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a `MANIFEST.in` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the `MANIFEST.in` file.

But, be sure to ignore any part of the distutils documentation that deals with `MANIFEST*` or how it's generated from `MANIFEST.in`; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the
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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 HREFs 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:

```
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell `setuptools` to generate package version numbers like `1.0a1.dev-r1263`, which will be considered to be an *older* release than `1.0a1`. Thus, when you actually release `1.0a1`, the entire egg infrastructure (including `setuptools`, `pkg_resources` and EasyInstall) will know that `1.0a1` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in `setup.py` should always be the *next* version of your software, not the last released version.)
Alternately, you can leave out the ``tag_build=.dev`` and always use the *last* release as a version number, so that your post-1.0 builds are labelled ``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an ``#egg=projectname-dev`` suffix. This allows users to request EasyInstall to download ``projectname==dev`` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your ``install_requires`` (or other requirements) to include ``==dev``, e.g.:

```
.. code-block:: python

    install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]
```

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an ``#egg=OtherProject-dev`` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run ``setup.py develop`` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ``develop`` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run ``setup.py develop`` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from ``setup.cfg``, so that you don't end up registering versions like ``foobar-0.7a1.dev-r34832``. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to ``setup.cfg`` after branching or tagging the release, so the trunk will still produce development snapshots.
Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like:

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

The first part of this command (`egg_info -RDb ""`) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your `setup.py`, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.:

    python setup.py alias -u release egg_info -RDb ""

You can then use it like this:

    python setup.py release sdist bdist_egg register upload

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the `egg_info` and `alias` commands for more ideas.

Distributing Extensions compiled with Pyrex
-------------------------------------------
``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using `setuptools.Extension`, *not* `distutils.Extension`. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list `*.pyx` files as the source of your `Extension` objects in the setup script. `setuptools` will detect at build time whether Pyrex is installed or not. If it is, then `setuptools` will use it. If not, then `setuptools` will silently change the `Extension` objects to refer to the `*.c` counterparts of the `*.pyx` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original `*.pyx` files. This means that you will probably want to include current `*.c` files in your revision control system, rebuilding them whenever you check changes in for the `*.pyx` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don’t have Pyrex installed, and that your source releases will be similarly usable with or

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without Pyrex.

-----------------
Command Reference
-----------------

.. _alias:
``alias`` - Define shortcuts for commonly used commands

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different ``egg_info`` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using ``setup.py alias aliasname expansion``, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various ``egg_info`` tagging options:

    setup.py alias --global-config daily egg_info --tag-svn-revision --tag-build=development

Once the alias is defined, it can then be used with other setup commands, e.g.::

    setup.py daily bdist_egg   # generate a daily-build .egg file
    setup.py daily sdist       # generate a daily-build source distro
    setup.py daily sdist bdist_egg # generate both

The above commands are interpreted as if the word "daily" were replaced with "egg_info --tag-svn-revision --tag-build=development".

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

    setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
redefines the ``bdist_egg`` command so that it always runs the ``rotate`` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on ``bdist_egg`` because the alias is only expanded once when used.

You can remove a defined alias with the ``--remove`` (or ``-r``) option, e.g.::

    setup.py alias --global-config --remove daily

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the 'configuration file options' (listed under the 'saveopts' command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the `alias` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

``bdist_egg`` - Create a Python Egg for the project
===================================================

This command generates a Python Egg ('.egg' file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata ('.egg-info') directory. If you have added any extra metadata files to the `.egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use ``bdist_egg`` and you're done. But there are a few options that may be occasionally useful:

``--dist-dir=DIR, -d DIR``

Set the directory where the `.egg` file will be placed. If you don't supply this, then the ``--dist-dir`` setting of the `bdist` command
will be used, which is usually a directory named `dist` in the project
directory.

``--plat-name=PLATFORM, -p PLATFORM``
Set the platform name string that will be embedded in the egg's filename
(assuming the egg contains C extensions). This can be used to override
the distutils default platform name with something more meaningful. Keep
in mind, however, that the egg runtime system expects to see eggs with
distutils platform names, so it may ignore or reject eggs with non-standard
platform names. Similarly, the EasyInstall program may ignore them when
searching web pages for download links. However, if you are
cross-compiling or doing some other unusual things, you might find a use
for this option.

``--exclude-source-files``
Don't include any modules``,.py`` files in the egg, just compiled Python,
C, and data files. (Note that this doesn't affect any``.py`` files in the
EGG-INFO directory or its subdirectories, since for example there may be
scripts with a``.py`` extension which must still be retained.) We don't
recommend that you use this option except for packages that are being
bundled for proprietary end-user applications, or for "embedded" scenarios
where space is at an absolute premium. On the other hand, if your package
is going to be installed and used in compressed form, you might as well
exclude the source because Python's``traceback`` module doesn't currently
understand how to display zipped source code anyway, or how to deal with
files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there
because they were copied from similar``bdist`` commands used as an example for
creating this one. They may be useful for testing and debugging, however,
which is why we kept them:

``--keep-temp, -k``
Keep the contents of the``--bdist-dir`` tree around after creating the
``.egg`` file.

``--bdist-dir=DIR, -b DIR``
Set the temporary directory for creating the distribution. The entire
contents of this directory are zipped to create the``.egg`` file, after
running various installation commands to copy the package's modules, data,
and extensions here.

``--skip-build``
Skip doing any "build" commands; just go straight to the
install-and-compress phases.
`develop` - Deploy the project source in "Development Mode"

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The `develop` command works by creating an `.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

`--uninstall, -u`

Un-deploy the current project. You may use the `--install-dir` or `--dir` 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 un-installing.

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
In addition to writing the core egg metadata defined by `setuptools` and required by `pkg_resources`, this command can be extended to write other metadata files as well, by defining entry points in the `egg_info.writers` group. See the section on `Adding new EGG-INFO Files` below for more details. Note that using additional metadata writers may require you to include a `setup_requires` argument to `setup()` in order to ensure that the desired writers are available on `sys.path`.

Release Tagging Options
-----------------------

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:

```
--tag-build=NAME, -b NAME
```

Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off `--tag-build` and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `--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
If there is no ``PKG-INFO`` file, or the version number contained therein does not end with ``-r`` and a number, then ``-r0`` is used.

``--no-svn-revision, -R``

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

``--tag-date, -d``

Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.

``--no-date, -D``

Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other `egg_info` Options
------------------------
``--egg-base=SOURCEDIR, -e SOURCEDIR``
Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a ``src`` or ``lib`` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `package_dir` argument to the `setup()` function, if any. If there is no `package_dir` set, this option defaults to the current directory.

`egg_info` Examples
--------------------
Creating a dated "nightly build" snapshot egg::
python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default tags are specified in `"setup.cfg``:

python setup.py egg_info -RDb "" sdist bdist_egg register upload

(Notice that `"egg_info`` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run `"easy_install`` or old-style installation

The setuptools `"install`` command is basically a shortcut to run the `"easy_install`` command on the current project. However, for convenience in creating "system packages" of setuptools-based projects, you can also use this option:

`"--single-version-externally-managed``

This boolean option tells the `"install`` command to perform an "old style" installation, with the addition of an `".egg-info`` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the `"--root`` or `"--record`` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when `"install`` is invoked by another distutils command, so that commands like `"bdist_wininst`` and `"bdist_rpm`` will create system packages of eggs. It is also automatically in effect if you specify the `"--root`` option.

`"install_egg_info`` - Install an `".egg-info`` directory in `"site-packages``

Setuptools runs this command as part of `"install`` operations that use the `"--single-version-externally-managed`` options. You should not invoke it directly; it is documented here for completeness and so that distutils extensions such as system package builders can make use of it. This command has only one option:

`"--install-dir=DIR, -d DIR``

The parent directory where the `".egg-info`` directory will be placed. Defaults to the same as the `"--install-dir`` option specified for the
``install_lib`` command, which is usually the system ``site-packages`` directory.

This command assumes that the ``egg_info`` command has been given valid options via the command line or ``setup.cfg``, as it will invoke the ``egg_info`` command and use its options to locate the project's source ``.egg-info`` directory.

.. _rotate:

``rotate`` - Delete outdated distribution files

As you develop new versions of your project, your distribution (``dist``) directory will gradually fill up with older source and/or binary distribution files. The ``rotate`` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``
Comma-separated list of glob patterns to match. This option is *required*. The project name and ``-*`` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like ``.zip`` or ``.egg`` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``
Number of matching distributions to keep. For each group of files identified by a pattern specified with the ``--match`` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

``--dist-dir=DIR, -d DIR``
Directory where the distributions are. This defaults to the value of the ``bdist`` command's ``--dist-dir`` option, which will usually be the project's ``dist`` subdirectory.

**Example 1**: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::

``setup.py rotate --match=.tar.gz --keep=3``

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

``setup.py rotate --match=~py2.3*.egg,-py2.4*.egg --keep=1``
``saveopts`` - 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):

```bash
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:

```bash
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:

```bash
setup.py saveopts -g build --compiler=mingw32
```

Note, however, that all of the commands specified are always run, regardless of where `saveopts` is placed on the command line.

Configuration File Options

Normally, settings such as options and aliases are saved to the project's local `setup.cfg` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``

Save settings to the global `distutils.cfg` file inside the `distutils` package directory. You must have write access to that directory to use this option. You also can't combine this option with `--u` or `--f`.

``--user-config, -u``
Save settings to the current user's ``~/.pydistutils.cfg`` (POSIX) or ``$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option with ``--g`` or ``--f``.

``--filename=FILENAME, -f FILENAME``
Save settings to the specified configuration file to use. You can't combine this option with ``--g`` or ``--u``. Note that if you specify a non-standard filename, the ``distutils`` and ``setuptools`` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other ``setuptools`` commands that modify configuration files, such as the `alias` and `setopt` commands.

.. _setopt:
``setopt`` - Set a distutils or setuptools option in a config file
==================================================================
This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to ``mingw32`` (using long option names)::

``setup.py setopt --command=build --option=compiler --set-value=mingw32``

**Example 2**. Remove any setting for the distutils default package installation directory (short option names)::

``setup.py setopt -c install -o install_lib -r``

Options for the ``setopt`` command:

``--command=COMMAND, -c COMMAND``
Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``
The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``
The value to set the option to. Not needed if ``-r`` or ``--remove`` is set.

``--remove, -r``
Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options` (listed under the `saveopts` command, above) to determine which distutils configuration file the option will be added to (or removed from).

.. _test:

``test`` - Build package and run a unittest suite

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the `develop` command. The `test` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on `sys.path`, after first running `build_ext -i` and `egg_info` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a `unittest` test suite by either a function, a `TestCase` class or method, or a module or package containing `TestCase` classes. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the result (which must be a `unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `test_loader`, the rules for processing the chosen `test_suite` may differ; see the `test_loader` documentation for more details.)

Note that many test systems including `doctest` support wrapping their non-`unittest` tests in `TestSuite` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the `unittest` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the `--q` or `--quiet` option, either as a global option to the setup script (e.g. `setup.py -q test`) or as an option for the `test` command itself (e.g. `setup.py test -q`). There is one other option available:

``--test-suite=NAME, -s NAME``

Specify the test suite (or module, class, or method) to be run (e.g. `some_module.test_suite`). The default for this option can be set by giving a `test_suite` argument to the `setup()` function, e.g.:
setup(
    # ...
    test_suite = "my_package.tests.test_all"
)

If you did not set a `test_suite` in your `setup()` call, and do not provide a `--test-suite` option, an error will occur.

.. _upload:

``upload`` - Upload source and/or egg distributions to PyPI

The ``upload`` command is implemented and documented `<https://docs.python.org/3.1/distutils/uploading.html>`_ in distutils.

Setuptools augments the `upload` command with support for `keyring` `<https://pypi.python.org/pypi/keyring>`_, allowing the password to be stored in a secure location and not in plaintext in the .pypirc file. To use keyring, first install keyring and set the password for the relevant repository, e.g.::

    python -m keyring set <repository> <username>
    Password for '<username>' in '<repository>': ********

Then, in .pypirc, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the keyring.

New in 20.1: Added keyring support.

.. _upload_docs:

``upload_docs`` - Upload package documentation to PyPI

PyPI now supports uploading project documentation to the dedicated URL https://pythonhosted.org/<project>/.

The `upload_docs` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils `register`
command -- just like the ```upload``` command.

Assuming there is an ```Example``` project with documentation in the subdirectory ```docs```, e.g.::

Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
 | |-- build
 | | `-- html
 | | | `-- index.html
 | | `-- tips_tricks.html
 ||-- conf.py
 ||-- index.txt
 |`-- tips_tricks.txt

You can simply pass the documentation directory path to the ```upload_docs``` command::

    python setup.py upload_docs --upload-dir=docs/build/html

If no ```--upload-dir``` is given, ```upload_docs``` will attempt to run the ```build_sphinx``` command to generate uploadable documentation.

For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_ must be installed in the same environment as distribute.

As with other ```setuptools```-based commands, you can define useful defaults in the ```setup.cfg``` of your Python project, e.g.:

.. code-block:: ini

    [upload_docs]
    upload-dir = docs/build/html

The ```upload_docs``` command has the following options:

``--upload-dir``
The directory to be uploaded to the repository.

``--show-response``
Display the full response text from server; this is useful for debugging PyPI problems.

``--repository=URL, -r URL``
The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).
Extending and Reusing Setuptools

Creating ``distutils`` Extensions

It can be hard to add new commands or setup arguments to the distutils. But the `setuptools` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their `setup_requires` argument.

With `setuptools`, your distutils extension projects can hook in new commands and `setup()` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins` above for some more background on entry points.)

Adding Commands

You can add new `setup` commands by defining entry points in the `distutils.commands` group. For example, if you wanted to add a `foo` command, you might add something like this to your distutils extension project's setup script:

```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:

```
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:
        ....
```
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
.. code-block:: python

def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this:

```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/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20.10.1-1.tar-gz/setuptools-20.10.1/docs/setuptools.txt
No license file was found, but licenses were detected in source scan.

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* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/six.py
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-
  20.10.1/pkg_resources/_vendor/pyparsing.py

1.133 libtomcrypt 1.17

1.133.1 Available under license :

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

1.134 bind 9.9.4 50.el7

1.134.1 Available under license :

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    <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;')"/>
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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
  3a0982da308228d796df35f98d787c5cfe2bb5b6.

  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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1.135 util-linux 2.23.2 26.el7_2.3
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 */

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

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

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---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/optional): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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

Create 2nd primary partition
1bebf87248e05d6e4e626749da65d023 bsd.img
Set 2nd partition type
2d8e8ddf51a88a045db233418dd73f6e 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 [fsizes 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 [fs size 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):
4 partitions:
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):

1.136 pam 1.3.0-r5
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**1.137 expat 2.1.0**

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1.138 openssl 1.0.1e-51.el7_2.7

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    hpa/common/tftpsubs.h
  * /opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp- 
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* /opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
  hpa/tftpd/recvfrom.h
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Found in path(s):
* /opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
  hpa/tftpd/remap.h
* /opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
  hpa/tftpd/misc.c
* /opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
  hpa/tftpd/remap.c
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Found in path(s):
* /opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-9820.zip/tftp-hpa-distrotech-tftp-
hpa/tftp/tftpd/tftpd.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/ $[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 <sjb@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <sjb@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-1.zip/tftp-hpa-distrotech-tftp-hpa/tftp.spec.in

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Found in path(s):
* /opt/cola/permits/1077592975_1618469868.28/0/tftp-hpa-distrotech-tftp-hpa-1.zip/tftp-hpa-distrotech-tftp-hpa/MCONFIG.in

---

1.141 wireshark 2.6.20

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1.145 curl 7.29.0 25.el7.centos

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

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

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krb4

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1.147 pcre 8.38

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THE BASIC LIBRARY FUNCTIONS

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

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Written by: Zoltan Herczeg
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1.148 sed 4.2.2
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@item
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cf2fbb5b6.

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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1.156 tdb  1.44.3-r0

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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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# 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) $(LINKBUILD_FLAGS) \ 
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..$(BSD_LIB)
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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

- trivial database library - private includes

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Theodore Ts'o
23-June-2007

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

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

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(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.)

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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:

http://sourceforge.net/projects/e2fsprogs

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

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This is the Debian GNU/Linux prepackaged version of the ss
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distributed together with the EXT2 file system utilities, which are
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This package was put together by Yann Dirson <dirson@debian.org>,
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1.164 systemd-shim 219-19.el7_2.13

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
  * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
  * public domain.

### 1.169 glibc 2.28

#### 1.169.1 Available under license :

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1.176 sudo 1.8.19p2-10.el7

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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
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
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Saucier, Jean-Francois
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Scott, Dougal
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Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
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Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
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Thomas, Matthew
Todd, Giles
Toft, Martin
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Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
The following people have worked to translate sudo into other languages:

- Blttermann, Mario
- Bogusz, Jakub
- Casagrande, Milo
- Castro, Felipe
- Cho, Seong-ho
- Chornoivan, Yuri
- Diguez, Francisco
- Ferreira, Rafael
- Garca-Fontes, Walter
- Gezer, Volkan
- Hamasaki, Takeshi
- Hamming, Peter
- Hansen, Joe
- Hantrais, Frédric
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- Hufthammer, Karl Ove
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- Nylander, Daniel
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- Qun, Trn Ngc
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- Sarer, zgr
- Sendn, Abel
- Sikrom, ka
- Spingos, Dimitris
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jloup@gzip.org            madler@alumni.caltech.edu

1.177 tcl 8.5.9
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>>> [incr Tcl] <<<<<<<<<<<<<

AUTHOR:  Michael J. McLennan
          Bell Labs Innovations for Lucent Technologies
          mmclennan@lucent.com
          http://www.tcltk.com/tcl

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abstract: 'Build and install Perl modules'
The "Artistic License"

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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-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{


my $current_year = (gmtime)[5] + 1900;

is $v_year, $current_year, 'perl -v copyright includes current year';

is $readme_year, $current_year, 'README copyright includes current year';

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\d{4,}\b/; 
  or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /\d{4}/;

  or die "Copyright statement not found in perl -v output '$output'";

  $year;
}

1.193 open-ldap 2.4.57
1.193.1 Available under license:

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

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

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all,
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## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

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## libressl

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## c-ares

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

## zlib

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

## MIT Kerberos

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## Heimdal

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## OpenLDAP

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

## libssh2

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

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## 1.204 gawk 4.2.1

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1.205 vim 8.1.0347
1.206 free-type 2.4.11

1.206.1 Available under license:

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2006-Jan-27

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Version 2, June 1991

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
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* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.209 zlib 1.2.11
1.209.1 Available under license :

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

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1.210 gmp 6.0.0 12.el7_1

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### 1.211 zlib 1.2.8

#### 1.211.1 Available under license:

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

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

### 1.212 curl 7.54.0

#### 1.212.1 Available under license:

License Mixing

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

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

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## c-ares

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

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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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* configure.ac, Makefile.am: The original versions were derived from the
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* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
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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  <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>
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</xsl:stylesheet>
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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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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
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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e) Verify that the user has already received a copy of these
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TERMS AND CONDITIONS

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work under this License, and how to view a copy of this License. If 
the interface presents a list of user commands or options, such as a 
menu, a prominent item in the list meets this criterion.


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 
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The "System Libraries" of an executable work include anything, other 
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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 
produce the work, or an object code interpreter used to run it.

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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 
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the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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

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

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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.

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

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/**
 * rijndael-alg-fst.c
 *
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
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* 2.0.16/crypto/md32_common.h

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  2.0.16/fips/rand/fips_rand.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_locl.h
   /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16-tar-gz/openssl-fips-2.0.16/crypto/asn1/asn1t.h

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/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/lhash/lhash.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/stack/stack.h
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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/rpc_des.h
/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/cryptlib.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips_dsatest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/bn/bn_lib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/e_os.h
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/des/cfb_enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/des/des_enc.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/crypto/des/des_ver.h
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#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
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# ====================================================================
#
# SHA512 for C64x+.
#
# January 2012
#
# Performance is 19 cycles per processed byte. Compared to block
# transform function from sha512.c compiled with cl6x with -mv6400+
# -o2 -DOPENSSL_SMALL_FOOTPRINT it's almost 7x faster and 2x smaller.
# Loop unroll won't make it, this implementation, any faster, because
# it's effectively dominated by SHR||SHL pairs and you can't schedule
# more of them.
#
# !!!! Note that this module uses AMR, which means that all interrupt
# service routines are expected to preserve it and for own well-being
# zero it upon entry.

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

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

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

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

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

$code.=<<<___;
.text
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.global sha512_block_data_order
.sha512_block_data_order:
.asmfunc stack_usage(40+128)
MV$NUM,A0; reassign $NUM
||MVK-128,B0
||!A0]BNOPRA; if ($NUM==0) return;
||[A0]STWFP,*SP--; save frame pointer
||[A0]MVSP,FP
||[A0]MVK0x00404,B1
||[A0]STDWB11:B10,*SP[3]
||[A0]STDWA13:A12,*FP[-3]
||[A0]MVKH0x60000,B1
||[A0]STDWA11:A10,*SP[1]
||[A0]MVCB1,AMR; setup circular addressing
||[A0]ADDB0,SP,SP; alloca(128)
||[A0]ANDB0,SP,SP; align stack at 128 bytes
||[A0]ADDKPC_sha512_block_data_order,B1
||[A0]MVKL(K512-_sha512_block_data_order),$K512
||[A0]MVKH(K512-_sha512_block_data_order),$K512
||[A0]SUBAWSP,2,SP; reserve two words above buffer
ADDAWSP,3,$Xilo
ADDAWSP,2,$Xihi

||MV5CTXA,SCTXB
LDW*${CTXA}[0^.LITTLE_ENDIAN],$Ahi; load ctx
||LDW*${CTXA}[1^.LITTLE_ENDIAN],$Alo
||ADDB1,$K512,$K512
LDW*${CTXA}[2^.LITTLE_ENDIAN],$Bhi
||LDW*${CTXA}[3^.LITTLE_ENDIAN],$Blo
LDW*${CTXA}[4^.LITTLE_ENDIAN],$Chi
||LDW*${CTXA}[5^.LITTLE_ENDIAN],$Clo
LDW*${CTXA}[6^.LITTLE_ENDIAN],$Dhi
||LDW*${CTXA}[7^.LITTLE_ENDIAN],$Dlo
LDW*${CTXA}[8^.LITTLE_ENDIAN],$Ehi
\[\text{LDW} \*$\{CTXB\}[9^\wedge \text{LITTLE_ENDIAN}], $\text{SElo}\]
\[\text{LDW} \*$\{CTXA\}[10^\wedge \text{LITTLE_ENDIAN}], $\text{SFhi}\]
\[\text{LDW} \*$\{CTXB\}[11^\wedge \text{LITTLE_ENDIAN}], $\text{SFlo}\]
\[\text{LDW} \*$\{CTXA\}[12^\wedge \text{LITTLE_ENDIAN}], $\text{SGhi}\]
\[\text{LDW} \*$\{CTXB\}[13^\wedge \text{LITTLE_ENDIAN}], $\text{SGlo}\]
\[\text{LDW} \*$\{CTXA\}[14^\wedge \text{LITTLE_ENDIAN}], $\text{SHhi}\]
\[\text{LDW} \*$\{CTXB\}[15^\wedge \text{LITTLE_ENDIAN}], $\text{SHlo}\]

\[\text{LDNDW} \*$\{INP++\}, B11:B10; \text{pre-fetch input}\]
\[\text{LDDW} \*$\{K512++\}, $\text{SKhi}: $\text{SKlo}; \text{pre-fetch K512[0]}\]

outerloop?:
\[\text{MVK}15, B0; \text{loop counters}\]
\[\text{MVK}64, B1\]
\[\text{SUBA}0, 1, A0\]
\[\text{MVS}Ah, $\text{Actxhi}\]
\[\text{MVS}Alo, $\text{Actxlo}\]
\[\text{MVS}Bhi, $\text{Bctxhi}\]
\[\text{MVS}Blo, $\text{Bctxlo}\]
\[\text{MVS}Chi, $\text{Cctxhi}\]
\[\text{MVS}Clo, $\text{Cctxlo}\]
\[\text{MVDS}Dhi, $\text{Dctxhi}\]
\[\text{MVDS}Dlo, $\text{Dctxlo}\]
\[\text{MVSE}hi, $\text{Ectxhi}\]
\[\text{MVSE}lo, $\text{Ectxlo}\]
\[\text{MVS}Fhi, $\text{Fctxhi}\]
\[\text{MVS}Flo, $\text{Fctxlo}\]
\[\text{MVS}Ghi, $\text{Gctxhi}\]
\[\text{MVS}Glo, $\text{Gctxlo}\]
\[\text{MVDS}Hhi, $\text{Hctxhi}\]
\[\text{MVDS}Hlo, $\text{Hctxlo}\]

loop0_15?:
\[\text{if} \! . \! \text{BIG_ENDIAN}\]
\[\text{MVB}11, ST1hi\]
\[\text{MVB}10, ST1lo\]
\[\text{else}\]
\[\text{SWAP}4B10, ST1hi\]
\[\text{SWAP}4B11, ST1lo\]
\[\text{SWAP}2ST1hi, ST1hi\]
\[\text{SWAP}2ST1lo, ST1lo\]
\[\text{endif}\]

loop16_79?:
\[\text{STW}1hi, *$\text{Xhi}++[2]\]
\[\text{STW}ST1lo, *$\text{Xlo}++[2]; X[i] = T1\]
\[\text{ADD}SHhi, ST1hi, ST1hi\]
\[\text{ADDU}SHlo, ST1lo, ST1carry: ST1lo; T1 += h\]
\[\text{SHR}SEhi, 14, SS1hi\]
\[\text{SHL}SEhi, 32-14, SS1lo\]
\[\text{XOR}SFhi, SGhi, SCHhi\]
||XOR$Flo,$Glo,$CHlo
||ADDKHI,$T1hi,$T1hi
||ADDU$T1lo,$T1lo,$T1lo; T1 += K512[i]
||SHRUSElo,14,$t0lo
||SHLSElo,32-14,$t0hi
XORS$lo,$Slhi,$Slhi
||XORS$lo,$Sllo,$Sllo
||AND$Ehi,$CHhi,$CHhi
||AND$Elo,$CHlo,$CHlo
||ROTL$Ghi,0,$Hhi
||ROTLS$Glo,0,$Hlo; h = g
||SHRUSEhi,18,$t0hi
||SHLSEhi,32-18,$t0lo
XORS$lo,$Slhi,$Slhi
||XORS$lo,$Sllo,$Sllo
||XOR$Ghi,$CHhi,$CHhi
||XOR$Glo,$CHlo,$CHlo
||ROTL$Fhi,0,$Ghi
||ROTLS$Flo,0,$Glo; g = f
||SHRUSElo,18,$t0lo
||SHLSElo,32-18,$t0hi
XORS$lo,$Slhi,$Slhi
||XORS$lo,$Sllo,$Sllo
||OR$Ahi,$Bhi,$MAJhi
||OR$Alo,$Blo,$MAJlo
||ROTL$Ehi,0,$Ehi
||ROTLS$Elo,0,$Flo; f = e
||SHRUSEhi,41-32,$t0lo
||SHLSEhi,64-41,$t0hi
XORS$lo,$Slhi,$Slhi
||XORS$lo,$Sllo,$Sllo
||AND$Chi,$MAJhi,$MAJhi
||AND$Clo,$MAJlo,$MAJlo
||ROTLS$Dhi,0,$Ehi
||ROTLS$Dlo,0,$Elo; e = d
||SHRUSElo,41-32,$t0hi
||SHLSElo,64-41,$t0lo
XORS$lo,$Slhi,$Slhi
||XORS$lo,$Sllo,$Sllo; Sigma1(e)
||AND$Ahi,$Bhi,$St1hi
||AND$Alo,$Blo,$St1lo
||ROTLS$Chi,0,$Dhi
||ROTLS$Clo,0,$Dlo; d = c
||SHRUS$Ahi,28,$S0hi
||SHLS$Ahi,32-28,$S0lo
OR$St1hi,$MAJhi,$MAJhi
||OR$St1lo,$MAJlo,$MAJlo; Maj(a,b,c) = ((a|b)&c)|(a&b)
||ADD$CHhi,$T1hi,$T1hi
ADDUSCHlo,$T1lo,$T1lo,$T1lo; $T1 += Ch(e,f,g)
| ROTLSBhi,0,$SChi
| ROTLSBlo,0,$SClo; c = b
| SHRUSAllo,28,$t0lo
| SHLSAllo,32-28,$t0hi
| XORSt0hi,$S0hi,$S0hi
| XORSt0lo,$S0lo,$S0lo
| ADDSS1hi,$T1hi,$T1hi
| ADDUS$1lo,$T1hi,$T1hi; $T1 += Sigma1(e)
| ROTLS$Ahi,0,$SBllo
| ROTLSAllo,0,$SBllo; b = a
| SHRUSAhi,34-32,$t0lo
| SHLSAhi,64-34,$t0hi
| XORSt0hi,$S0hi,$S0hi
| XORSt0lo,$S0lo,$S0lo
| ADDSMA$Ahi,$T1hi,$T2hi
| ADDUSMA$Allo,$T1car$y:$T1lo,$T2c.$y:$T2lo; $T2 = $T1+Maj(a,b,c)
| SHRUSAllo,34-32,$t0hi
| SHLSAllo,64-34,$t0lo
| XORSt0hi,$S0hi,$S0hi
| XORSt0lo,$S0lo,$S0lo
| ADDS$Ehi,$T1hi,$T1hi
| ADDUSE$lo,$T1car$y:$T1lo,$T1car$y:$T1lo; $T1 += e
| [B0]BNOPloop0_15?
| [B0]BNOPbreak?
| SHRUSAllo,39-32,$t0lo
| SHLSAllo,64-39,$t0hi
| XORSt0hi,$S0hi,$S0hi
| XORSt0lo,$S0lo,$S0lo
| [B0]LDNDW*INP++,B11:B10; pre-fetch input
| ![B1]BNOPbreak?
| SHRUSAhi,39-32,$t0hi
| SHLSAhi,64-39,$t0lo
| XORSt0hi,$S0hi,$S0hi
| XORSt0lo,$S0lo,$S0lo; Sigma0(a)
| ADDST1carry,$ST1hi,$Ehi
| MVST1lo,$Elo; e = $T1
| ![B0]LDW*$[Xihi][28],$T1hi
| ![B0]LDW*$[Xihi][28],$T1lo; $X[i+14]
| ADDSSH0hi,$T2hi,$T2hi
| ADDUS$S0lo,$ST2lo,$ST2lo,$ST2lo; $T2 += Sigma0(a)
| [B1]LD$D*$K512++,$Khi:$Klo; pre-fetch K512[i]
NOP; avoid cross-path stall
ADDST2$carry,$ST2hi,$ST2hi
| MVST2lo,$SAllo; a = $T2
| ![B0]SUBB0,1,B0
;;;;= branch to loop00_15? is taken here
NOP
;;;;= branch to break? is taken here
LDW*${Xhi}[2],ST2hi
LDW*${Xilo}[2],ST2lo; X[i+1]
SHRUST1hi,19,$S1hi
SHLST1hi,32-19,$S1lo
SHRUST1lo,19,$t0lo
SHLST1lo,32-19,$t0hi
XORS0hi,$S1hi,$S1hi
XORS0lo,$S1lo,$S1lo
SHRUST1hi,6-32,$t0lo
SHLST1hi,64-61,$t0hi
XORS0hi,$S1hi,$S1hi
XORS0lo,$S1lo,$S1lo
SHRUST1lo,61-32,$t0hi
SHLST1lo,64-61,$t0lo
XORS0hi,$S1hi,$S1hi
SHRUST1hi,6,$t0hi
SHLST1hi,32-6,$t0lo
XORS0hi,$S1hi,$S1hi
XORS0lo,$S1lo,$S1lo
SHRUST1lo,6,$t0lo
LDW*${Xhi}[18],ST1hi
LDW*${Xilo}[18],ST1lo; X[i+9]
XORS0lo,$S1lo,$S1lo; sigma1(Xi[i+14])

LDW*${Xhi}[0],SCHhi
LDW*${Xilo}[0],SCHlo; X[i]
SHRUST2hi,1,$S0hi
SHLST2hi,32-1,$S0lo
SHRUST2lo,1,$t0lo
SHLST2lo,32-1,$t0hi
XORS0hi,$S0hi,$S0hi
XORS0lo,$S0lo,$S0lo
SHRUST2hi,8,$t0hi
SHLST2hi,32-8,$t0lo
XORS0hi,$S0hi,$S0hi
XORS0lo,$S0lo,$S0lo
SHRUST2lo,8,$t0lo
SHLST2lo,32-8,$t0hi
XORS0hi,$S0hi,$S0hi
XORS0lo,$S0lo,$S0lo
ADD$S1hi,ST1hi,ST1hi
ADDU$S1lo,ST1lo,ST1carry;ST1lo; T1 = X[i+9]+sigma1()
[B1]BNOPloop16_79?
SHRUST2hi,7,$t0hi
SHLST2hi,32-7,$t0lo
XORS0hi,$S0hi,$S0hi
XORS0lo,$S0lo,$S0lo
ADD$CHhi,$T1hi,$T1hi
|| ADDUS$CHlo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += X[i]
|| SHRUST2lo,7,$t0lo
XORS$0lo,$S0lo,$S0lo; sigma0(X[i]+1)

ADD$S0hi,$T1hi,$T1hi
|| ADDUS$S0lo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += sigma0()
|| [B1]SUBB1,1,B1
NOP; avoid cross-path stall
ADDST1carry,$T1hi,$T1hi
;====== branch to loop16_79? is taken here

break?:
ADD$SAhi,$Actxhi,$Ahi; accumulate ctx
|| ADDUS$Alolo,$Actxlolo,$Actxlo:$Alo
|| [A0]LDNDW*$INP++,B11:B10; pre-fetch input
|| [A0]ADDK-640,$K512; rewind pointer to K512
ADD$Bhi,$Betxhi,$Bhi
|| ADDUS$Bilo,$Bctxlo,$Bctxlo:$Bilo
|| [A0]LDDW*$K512++,SKhi:SKlo; pre-fetch K512[0]
ADD$SChi,$Cctxhi,$Chi
|| ADDUS$Clo,$Cctxlo,$Cctxlo:$Clo
|| ADD$Actxlo,$Ahi,$Ahi
||[!A0]MV$CTXA,$CTXB
ADD$Dhi,$Dctxhi,$Dhi
|| ADDUSDlo,$Dctxlo,$Dctxlo:$Dlo
|| ADDSBctxlo,$Bhi,$Bhi
||[!A0]STWSAhi,*{CTXA}[0^.LITTLE_ENDIAN]; save ctx
||[!A0]STWSAlolo,*{CTXB}[1^.LITTLE_ENDIAN]
ADD$Ehi,$Ectxhi,$Ehi
|| ADDUSEclo,$Ectxlo,$Ectxlo:$Elo
|| ADD$Cctxlo,$Chi,$Chi
||[!A0]BNOPouterloop?
||[!A0]STWSBhi,*{CTXA}[2^.LITTLE_ENDIAN]
||[!A0]STWSBilo,*{CTXB}[3^.LITTLE_ENDIAN]
ADD$Fhi,$Fctxhi,$Fhi
|| ADDUSDflo,$Fctxlo,$Fctxlo:$Flo
|| ADD$Dctxlo,$Dhi,$Dhi
||[!A0]STWSChi,*{CTXA}[4^.LITTLE_ENDIAN]
||[!A0]STWSClo,*{CTXB}[5^.LITTLE_ENDIAN]
ADD$Ghi,$Gctxhi,$Ghi
|| ADDUSGlo,$Gctxlo,$Gctxlo:$Glo
|| ADD$Ectxlo,$Ehi,$Ehi
||[!A0]STWSDhi,*{CTXA}[6^.LITTLE_ENDIAN]
||[!A0]STWSDilo,*{CTXB}[7^.LITTLE_ENDIAN]
ADD$Hhi,$Hctxhi,$Hhi
|| ADDUSHilo,$Hctxlo,$Hctxlo:$Hlo
|| ADD$Fctxlo,$Fhi,$Fhi
||!A0||STWSEhi,$(CTXA)[8^.LITTLE_ENDIAN]||
||!A0||STWSElo,$(CTXB)[9^.LITTLE_ENDIAN]||
ADDSGctxlo,Ghi,Ghi
||!A0||STWSPhi,$(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||
ADDFF,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

.sect".const:sha_asm"
.align128
K512:
.uword0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
.uword0xb5c0fbcf,0xec4d3b2f, 0xe9b5dba5,0x8189dbbc
.uword0x3956c25b,0xf348b538, 0x59f111f1,0xb605d019
.uword0x9bdc06a7,0xc19bf174, 0xcf692694
.uword0xe49b69c1,0x9ef14ad2, 0xefbe4786,0x384f25e3
.uword0xc6e00bf3,0x3da88fc2, 0xd5a79147,0x930aa725
.uword0x4d2c6dfc,0x5ac42aed, 0x53380d13,0x9d95b3df
.uword0x81c2c92e,0x47edaee6, 0x92722c85,0x1482353b
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 commandline instead. Here, wildcards may be embedded. (Be sure to escape those to prevent the shell from expanding them for you when you wish mkerr.pl to do so instead.)

Default: take file list to scan from the command line.

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

Default: keep previously assigned numbers. (You are warned when collisions are detected.)

-nostatic Generates a different source code, where these additional
functions are generated for each library specified in the config file:

void ERR_load_<LIB>_strings(void);
void ERR_unload_<LIB>_strings(void);
void ERR_<LIB>_error(int f, int r, char *fn, int ln);
#define <LIB>err(f,r) ERR_<LIB>_error(f,r,__FILE__,__LINE__)  

while the code facilitates the use of these in an environment where the error support routines are dynamically loaded at runtime.
Default: 'static' code generation.

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

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

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

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

EOF
exit 1;
} else {
  last;
}
}

if($recurse) {
  @source = ( <crypto/*.c>, <crypto/*/*.c>, <ssl/*.c>, 
<crypto/*.c>, <crypto/*/*.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+)/) {
      $inc{$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+)\s+(\S+)/) {
  $rextra{$1} = $2;
  $rcodes{$1} = $2;
}

close IN;

# Scan each header file in turn and make a list of error codes
# and function names

while (($hdr, $lib) = each %libinc)
{
  next if($hdr eq "NONE");
  print STDERR "Scanning header file $hdr\n" if $debug;
  my $line = "", $def= "", $linenr = 0, $gotfile = 0;
  if (open(IN, "<$hdr")) {
    $gotfile = 1;
    while(<IN>) {
      $linenr++;
      print STDERR "line: $linenr\r" if $debug;
      last if/BEGIN\s+ERROR\s+CODES/;
      if ($line ne "") {
        $_ = $line . ";";
      }
      if (/\$/) {
        $line = $_;
        next;
      }
    }
    if (/\^\*/) {
      if (not ^\v/) { # 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/\^[\s\v]*//g;
s/\[^\s\v]*$/g;

# Skip over recognized non-function declarations
next if(/typedef\W/ or /DECLARE_STACK_OF/ or /TYPEDEF_.*\W*/);

# Remove STACK_OF(foo)
s/STACK_OF\(\w+\)/void/;

# Reduce argument lists to empty ()
# fold round brackets recursively: (t(*v)(t),t) -> (t[ ,].,t) -> {}
while(/\(.*\)/s) {
if (/\(\w+\)\(\s*\(\s*\(\s*\)/\s*\)/\s*\)/s) { # first token prior [first] () is my $name = $1; # a function name! $name =~ tr/[a-z]/[A-Z]/; $ftrans{$name} = $1;
    } elsif (/\(\)/\(\/ and not (/\=\)/) {
print STDERR "Header $hdr: cannot parse: $\_\n";
    }
}

if ($reindex) {
    # Scan function and reason codes and store them: keep a note of the # maximum code used.

    if ($gotfile) {
        while(<IN>) {

            if (/\#define\s+(\S+)\s+(\S+)/) {
                $name = $1;
                $code = $2;
                next if $name =~ /^${lib}err/;
                unless($name =~ /^${lib}_(\[RF\])_(\w+)$/) {
                    print STDERR "Invalid error code $name
                   next;
                } elseif ($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} .= "$code:";
                    if (!($code > $rmax{$lib})) &&
                        ($code > $rmmax{$lib}) ) {
                        $rmmax{$lib} = $code;
                    }
                } else {
                    if ($fassigned{$lib} =~ /:$code:/) {
                        print STDERR "!! ERROR: $lib function code $code assigned twice (collision at $name)\n"
                        ++$errcount;
                    }
                    $fassigned{$lib} .= "$code:";
                }

            }
        }
    }
print STDERR "                                  \r" if $debug;
next if $reindex;
}
if ($code > $fmax{$lib}) {
    $fmax{$lib} = $code;
    }
$fcodes{$name} = $code;
    }
    }
    }
}

if ($debug) {
if (defined($fmax{$lib})) {
    print STDERR "Max function code fmax" . "[" . "$lib" . "] = $fmax{$lib}\n";
    $fassigned{$lib} =~ m/^:(.*):$/;
    @fassigned = sort {
        $a <=> $b
    } split(";", $1);
    print STDERR "  @fassigned\n";

    if (defined($rmax{$lib})) {
        print STDERR "Max reason code rmax" . "[" . "$lib" . "] = $rmax{$lib}\n";
        $rassigned{$lib} =~ m/^:(.*):$/;
        @rassigned = sort {
            $a <=> $b
        } split(";", $1);
        print STDERR "  @rassigned\n";
    }
}
if ($lib eq "SSL") {
    if ($rmax{$lib} >= 1000) {
        print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\n"
        print STDERR "!!    Any new alerts must be added to $config.\n"
        ++$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!
        last if(/\#error\s+obsolete/);

        if(/((A-Z0-9-9]+)_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;
            } else {
        } else {
            last if /=\#error\s+obsolete/;
        }
    }
    close IN;
}

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" if $debug;
        next unless $rebuild;
    } else {
        print STDERR "$lib:\t\t$fnew{$lib} New Functions,\n        "$rnew{$lib} New Reasons.\n" if $debug;
        next unless $dowrite;
    }
    print STDERR "$lib:\t\t\n" if $debug;

    # Now process each library in turn.

    foreach $hfile (keys %$hinc) {
        my $hinc = $hinc{$hfile};
        my $csrc = $csrc{$hfile};
        if(!exists $csrc || !$rebuild) {
            print STDERR "$hinc:\t\t$csrc\n" if $debug;
            next unless $dowrite;$
        } else {
            print STDERR "$hinc:\t\t$csrc\n" if $debug;
            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.

def my @function = sort grep(/^${lib}_/,keys %fcodes);
def my @reasons = sort grep(/^${lib}_/,keys %rcodes);

# Rewrite the header file

def if (open(IN, "<$hfile")) {
    # Copy across the old file
    while(<IN>) {
        push @out, $_
    }
    close IN;
} else {
    push @out,
    "/* ====================================================================
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     *
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     */

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 * 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.
 * ====================================================================
 */

#ifndef HEADER_${lib}_ERR_H
#define HEADER_${lib}_ERR_H

#ifdef  __cplusplus
extern "C" {
#endif

/* BEGIN ERROR CODES */

open (OUT, ">$hfile") || die "Can't Open File $hfile for writing"
print OUT @out;
undef @out;
print OUT <$"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);


extern int warn_errno;

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") {
$assigned{$lib} =~ m:^:(.*):/;
$findcode = $1;
if (!defined($findcode)) {
$findcode = $fmax{$lib};
}
while ($assigned{$lib} =~ m/:$findcode:/) {
$findcode++;
}
$fcodes{$i} = $findcode;
$assigned{$lib} .= "$findcode:";
print STDERR "New Function code $i
" if $debug;
}
printf OUT "#define $i#${
",	" X " x $z;
}

print OUT "\n/* Reason codes. */

EOF

foreach $i (@reasons) {

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

print OUT "\n/* Reason codes. */

EOF
$rassigned{$lib} .= "$findcode:";
print STDERR "New Reason code $i\n" if $debug;
}
printf OUT "#define $i%s $rcodes{$i}\n","t" x $z;
) print OUT "<<EOF";

#ifdef __cplusplus
}
#endif
#endif
EOF
close OUT;

# Rewrite the C source file containing the error details.

# First, read any existing reason string definitions:
my %err_reason_strings;
if (open(IN,"<$cfile")) {
while (<IN>) {
if (/\b(${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 =~ /\([^/\]+)\/s;
$hincf = "<${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 */
/* ====================================================================
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* Hudson (tjh[@cryptsoft.com]). *
* /*

/* NOTE: this file was auto generated by the mkerr.pl script: any changes *
* made to it will be overwritten when the script next updates this file, *
* only reason strings will be preserved. */

#include <stdio.h>
#include <openssl/err.h>
#include $hincf

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

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

static ERR_STRING_DATA ${lib}_str_reasons[] =

EOF
# Add each reason code.
foreach $i (@reasons) {
    my $rn;
    my $rstr = "ERR_REASON($i)";
    my $nspc = 0;
    if (exists $err_reason_strings{$i}) {
        $rn = $err_reason_strings{$i};
    } else {
        $i =~ /%${lib}_R_(\S+)$/;
        $rn = $1;
        $rn =~ tr/_[A-Z]// [a-z]/;
    }
    $nspc = 40 - length($rstr) unless length($rstr) > 40;
    $nspc = " " x $nspc;
    print OUT "{"${rstr}${nspc},"$rn"},
";
}
if($static) {
    print OUT <<"EOF";
    {0,NULL}
};

#endif

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

EOF

```c
#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)
  {
    ${lib}_error_init=0;
    #ifndef OPENSSL_NO_ERR
    ERR_load_strings(${lib}_lib_error_code,${lib}_str_functs);
    ERR_load_strings(${lib}_lib_error_code,${lib}_str_reasons);
    #endif
    #ifdef ${lib}_LIB_NAME
    ${lib}_lib_name->error = ERR_PACK(${lib}_lib_error_code,0,0);
    ERR_load_strings(0,${lib}_lib_name);
    #endif
  }
}

${staticloader}void ERR_unload_${lib}_strings(void)
{
  if (${lib}_error_init == 0)
  {
    #ifndef OPENSSL_NO_ERR
    ERR_unload_strings(${lib}_lib_error_code,${lib}_str_functs);
    ERR_unload_strings(${lib}_lib_error_code,${lib}_str_reasons);
    #endif
    #ifdef ${lib}_LIB_NAME
    ERR_unload_strings(0,${lib}_lib_name);
    #endif
    ${lib}_error_init=1;
  }
}
```

---

Open Source Used In FXOS MIO 2.11.1 2712
${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line)
{
if (${lib}_lib_error_code == 0)
${lib}_lib_error_code=ERR_get_next_error_library();
ERR_PUT_error(${lib}_lib_error_code,function,reason,file,line);
}
EOF

close OUT;
defined %err_reason_strings;
}

if($debug && defined(%trans)) {
print STDERR "The following function codes were not translated:\n";
foreach(sort keys %notrans)
{
p
print STDERR "$\n";
}
}

# Make a list of unreferenced function and reason codes

foreach (keys %fcodes) {
push (@funref, $_) unless exists $ufcodes{$_};
}

foreach (keys %rcodes) {
push (@runref, $_) unless exists $urcodes{$_};
}

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

if($debug && defined(@runref) ) {
print STDERR "The following reason codes were not referenced:\n";
foreach(sort @runref)
{
p
print STDERR "$\n";
}
}
if($errcount) {
  print STDERR "There were errors, failing...\n\n";
  exit $errcount;
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/util/mkerr.pl
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# ================================================================

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

# -m64-m32
# -----------------------------
# PPC970,gcc-4.0.0+76%+59%
# Power6,xlc-7+68%+33%

$flavour = shift;

if ($flavour =~ /64/) {
    $SIZE_T=8;
    $LRSAVE=2*$SIZE_T;
    $UCMP="cmpld";
    $STU="stdu";
    $POP="ld";
    $PUSH="std";
} elsif ($flavour =~ /32/) {
    $SIZE_T=4;
    $LRSAVE=$SIZE_T;
    $UCMP="cmplw";
    $STU="stwu";
    $POP="lwz";
    $PUSH="stw";
} else { die "nonsense $flavour"; }

$0 =~ m/(.*[\[\]])[^\[\]+$/; $dir=$1;
( $xlate="$dir/ppc-xlate.pl" and -f $xlate ) or
( $xlate="$dir/../perlasm/ppc-xlate.pl" and -f $xlate ) or
die "can't locate ppc-xlate.pl";

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

$FRAME=24*$SIZE_T+64;
$LOCALS=6*$SIZE_T;

$K ="r0";
$sp ="r1";
$toe="r2";
$ctx="r3";
$inp="r4";
$num="r5";
$t0 ="r15";
$t1 ="r6";

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

@V=(\$A,\$B,\$C,\$D,\$E,\$T);
@X=("r16","r17","r18","r19","r20","r21","r22","r23",
"r24","r25","r26","r27","r28","r29","r30","r31");

sub BODY_00_19 {
my ($i,$a,$b,$c,$d,$e,$f)=@_; my $j=$i+1;
$code.=<<< if ($i==0);
lwz @X[$i],"$i*4"($inp)
<<<

$code.=<<< if ($i<15);
lwz @X[$j],"$j*4"($inp)
addf,$f,$K,$e
rotlwi $e,$a,5
addf,$f,$f,\@X[$i]
andt0,$c,$b
addf,$f,$f
andc$t1,$d,$b
rotlwi$b,$b,30
or$t0,$t0,$t1
addf,$f,$f,0
<<<

$code.=<<< if ($i>=15);
addf,$K,$e
rotlwi$e,sa,5
addf,$f,\@X[$i]
andt0,$c,$b
addf,$f,$f
andc$t1,$d,$b
rotlwi$b,$b,30
or$t0,$t0,$t1
addf,$f,$f,0
<<<

xor@X[$j%16],@X[$j%16],@X[($j+2)%16]
addf,$f,\@X[+$i-16]
andt0,$c,$b
xor@X[$j%16],@X[$j%16],@X[($j+2)%16]
addf,$f,$f
andc$t1,$d,$b
rotlwi$b,$b,30
or$t0,$t0,$t1
xor@X[$j%16],@X[$j%16],@X[($j+13)%16]
addf,$f,$f,0
rotlwi@X[Sj%16],@X[Sj%16],1

sub BODY_20_39 {
  my ($i,$a,$b,$c,$d,$e,$f)=@_;  
  my $j=$i+1;  
  $code.=<<___ if ($i<79);  
  add$Sf,$K,$e  
  rotlwi$e,$a,5  
  xor@X[Sj%16],@X[Sj%16],@X[(J+2)%16]  
  add$Sf,$f,X[Sj%16]  
  xor@X[Sj%16],@X[Sj%16],@X[(J+8)%16]  
  add$Sf,$f,$e  
  rotlwi$b,$b,30  
  xor$t0,$b,$c  
  lwztr16,0($ctx)  
  add$Sf,$f,@X[Sj%16]  
  xor$t0,$t0,$d  
  lwztr18,8($ctx)  
  add$Sf,$f,$t0  
  lwztr20,16($ctx)  
  ___  
  $code.=<<___ if ($i==79);  
  add$Sf,$K,$e  
  rotlwi$e,$a,5  
  lwztr16,0($ctx)  
  add$Sf,$f,X[Sj%16]  
  xor$t0,$b,$c  
  lwztr18,8($ctx)  
  add$Sf,$f,$t0  
  lwztr20,16($ctx)  
  ___  
}

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

}

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

.globl_sha1_block_data_order
.align4
.sha1_block_data_order:
$STU$sp,-$FRAME($sp)
mflr0
SPUSHr15,'$FRAME-$SIZE_T*17'($sp)
SPUSHr16,'$FRAME-$SIZE_T*16'($sp)
SPUSHr17,'$FRAME-$SIZE_T*15'($sp)
SPUSHr18,'$FRAME-$SIZE_T*14'($sp)
SPUSHr19,'$FRAME-$SIZE_T*13'($sp)
SPUSHr20,'$FRAME-$SIZE_T*12'($sp)
SPUSHr21,'$FRAME-$SIZE_T*11'($sp)
SPUSHr22,'$FRAME-$SIZE_T*10'($sp)
SPUSHr23,'$FRAME-$SIZE_T*9'($sp)
SPUSHr24,'$FRAME-$SIZE_T*8'($sp)
SPUSHr25,'$FRAME-$SIZE_T*7'($sp)
SPUSHr26,'$FRAME-$SIZE_T*6'($sp)
SPUSHr27,'$FRAME-$SIZE_T*5'($sp)
SPUSHr28,'$FRAME-$SIZE_T*4'($sp)
SPUSHr29,'$FRAME-$SIZE_T*3'($sp)
SPUSHr30,'$FRAME-$SIZE_T*2'($sp)
SPUSHr31,'$FRAME-$SIZE_T*1'($sp)
SPUSHr0,'$FRAME+$LRSAVE'($sp)
lwz$A,0($ctx)
lwz$B,4($ctx)
lwz$C,8($ctx)
lwz$D,12($ctx)
lwz$E,16($ctx)
andi.r0,$inp,3
bneLunaligned
Laligned:
mtctr$num
bl_sha1_block_private
bLdone

; PowerPC specification allows an implementation to be ill-behaved
; upon unaligned access which crosses page boundary. "Better safe
; than sorry" principle makes me treat it specially. But I don't
; look for particular offending word, but rather for 64-byte input
; block which crosses the boundary. Once found that block is aligned
; and hashed separately...
.align4
Lunaligned:
subfic$t1,$inp,4096
andi.$t1,$t1,4095; distance to closest page boundary
srwi.$t1,$t1,6; t1/=64
beqLcross_page
UCMP$num,$t1
bleLaligned; didn't cross the page boundary
mtctr$t1
subfc$num,$t1,$num
bL_sha1_block_private
Lcross_page:
il$t1,16
mtctr$t1
addi20,$sp,$LOCALS; spot within the frame
Lmemcpy:
lbz$r16,0($inp)
lbz$r17,1($inp)
lbz$r18,2($inp)
lbz$r19,3($inp)
add$i$inp,$inp,4
stbr16.0(r20)
stbr17.1(r20)
stbr18.2(r20)
stbr19.3(r20)
addi20,r20,4
bdnzLmemcpy

$PUSH$inp,'$FRAME-$SIZE_T*18'($sp)
il$t1,1
add$i$inp,$sp,$LOCALS
mtctr$t1
bLL_sha1_block_private
$SPOP$inp,'$FRAME-$SIZE_T*18'($sp)
addi$c.num,$num,-1
bncLunaligned

Ldone:
$SPOP$0,'$FRAME+$LRSAVE'($sp)
$SPOP$15,'$FRAME-$SIZE_T*17'($sp)
# 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...

```assembly
$code.=<<___;
.align 4
Lsha1_block_private:
___
$Lcode.=<<___;# load K_00_19
lis$K,0x5a82
ori$K,$K,0x7999
___
for($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
$Lcode.=<<___;# load K_20_39
lis$K,0x6ed9
ori$K,$K,0xeba1
___
for($i<40;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$Lcode.=<<___;# load K_40_59
lis$K,0x8f1b
ori$K,$K,0xbbcd
___
for($i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
$Lcode.=<<___;# load K_60_79
```
lis$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, CRYPTOAMS by <appro@fy.chalmers.se>"

$code =~ s/'`([\^\w]*)`'/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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2.0.16/crypto/bn/bn_gcd.c
*/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_prime.c
*/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
2.0.16/crypto/bn/bn_rand.c
*/opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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* 2.0.16/crypto/fips_err.h

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#
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# ====================================================================
#
# December 2011
#
# The module implements GCM GHASH function and underlying single
# multiplication operation in GF(2^128). Even though subroutines
# have _4bit suffix, they are not using any tables, but rely on
# hardware Galois Field Multiply support. Streamed GHASH processes
# byte in ~7 cycles, which is >6x faster than "4-bit" table-driven
# code compiled with TI's cl6x 6.0 with -mv6400+ -o2 flags. We are
# comparing apples vs. oranges, but compiler surely could have done
# better, because theoretical [though not necessarily achievable]
# estimate for "4-bit" table-driven implementation is ~12 cycles.

while (($output=shift) && ($output!~/\w\[\w-]*\.\w+$/)) {} # skip files
open STDOUT,">$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
||MV5Xip,${xip}; reassign Xi
||MVK15,B1; SPLOOPD constant

MVK0xE1,$E10000
||[LDBU*++${xip}[15],$x1; Xi[15]
MVK0xFF,$FF000000
||[LDBU*--${xip},$x0; Xi[14]
SHLSE10000,16,$E10000; [pre-shifted] reduction polynomial
SHL$FF000000,24,$FF000000; upper byte mask
||BNOPghash_loop?
||MVK1,B0; take a single spin

PACKH2$H0,$H1,$xia; pack H0' and H1's upper bytes
AND$H2,$FF000000,$H2u; H2's upper byte
AND$H3,$FF000000,$H3u; H3's upper byte
||SHRUSH2u,8,$H2u
SHRUSH3u,8,$H3u
||ZEROSZ1:$Z0
SHRU25xia,8,$H01u
||ZEROSZ3:$Z2
.endasmfunc

.global_gcm_ghash_4bit
_gcm_ghash_4bit:
.asmfunc
LDDW*${Htable}[<-1],$H1:$H0; H.lo
||SHRUSHlen,4,B0; reassign len
LDDW*${Htable}[<-2],$H3:$H2; H.hi
||MV5Xip,${xip}; reassign Xi
||MVK15,B1; SPLOOPD constant
MVK0xE1,SE10000
|| [B0]LDNDW*${inp}[1],$H1x:$H0x
MVK0xFF,SEFF000000
|| [B0]LDNDW*${inp}++[2], $H3x:$H2x
SHL$E10000,16,SE10000; [pre-shifted] reduction polynomial
|| LDDW*${xip}[1],$Z1:$Z0
SHL$FF000000,24,SEFF000000; upper byte mask
|| LDDW*${xip}[0],$Z3:$Z2

PACKH2$H0,$H1,$xia; pack H0' and H1's upper bytes
AND$H2,$FF000000,$H2u; H2's upper byte
AND$H3,$FF000000,$H3u; H3's upper byte
|| SHRUS2u,8,$H2u
SHRUS3u,8,$H3u
SHRU2$xia,8,$H01u

|| [B0]XOR$H0x,$Z0,$Z0; Xi^=inp
|| [B0]XOR$H1x,$Z1,$Z1
.if LITTLE_ENDIAN
 [B0]XOR$H2x,$Z2,$Z2
|| [B0]XOR$H3x,$Z3,$Z3
|| [B0]SHRUS2z1,24,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*${xip}[1]
|| [B0]SHRUS2z1,16,$x0; Xi[14]
|| [B0]ZERO$SZ1:$Z0
.else
 [B0]XOR$H2x,$Z2,$Z2
|| [B0]XOR$H3x,$Z3,$Z3
|| [B0]MV$SZ0,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*${xip}[1]
|| [B0]SHRUS2z0,8,$x0; Xi[14]
|| [B0]ZERO$SZ2:$Z0
.endif
STDWSZ3:$Z2,*${xip}[0]
|| [B0]ZERO$SZ3:$Z2
|| [B0]MV$xia,$x1
 [B0]ADDK14,${xip}

ghash_loop?:
SPLOOPD6; 6*16+7
|| MVCB1,ILC
|| [B0]SUBB0,1,B0
|| ZEROA0
|| ADD5x1,$x1,$xb; SHLSx1,1,$xia
|| SHLSx1,1,$xia
####
# 0  D2.  M1  M2  |  
# 1    M1  |  
# 2    M1  M2  |  
# 3  D1.  M1  M2  |  
# 4    S1.  L1  |  
# 5  S2  S1x  L1  D2  |  L2  |  
# 6/0  L1  S1  L2  S2x  D2.  M1  M2  |  
# 7/1  L1  S1  L1x  S2  M2  |  |  M1  |  
# 8/2  S1  L1x  S2  M2  |  |  M1  |  
# 9/3  S1  L1x  |  |  D1.  M1  M2  |  
# 10/4  D1x  |  |  S1.  L1  |  
# 11/5  S2  S1x  L1  D2  L2  |  |  
# 12/6/0  D1x  |  |  L1  S1  L2  S2x  D2.  |  ....  
# 7/1  L1  S1  L1x  S2  M2  |  |  ....  
# 8/2  S1  L1x  S2  |  |  ....  
###

S.code.=<<___;
XORMPYH0.$x1a,$H0x0; 0; HX[i]
||XORMPYH01,$x1b,$H01y
||[A0]LDBU*--${xip},$x0
XORMPYH1.$x1a,$H1x1; 1
XORMPYH2.$x1a,$H2x; 2
||XORMPYH2u.$x1b,$H2y
XORMPYH3.$x1a,$H3x; 3
||XORMPYH3u.$x1b,$H3y
||[!A0]MVK.D15,A0; *--${xip} counter
XOR.LSH0x,$Z0,$Z0; 4; Z^=HX[i]
||[A0]SUB.SA0,1,A0
XOR.LSH1x,$Z1,$Z1; 5
||AND.D$H01y,$F0000000,$H0z
||SWAP2.L$H01y,$H1y; SHL.$H01y,16,$H1y
||SHL.$x0,1,$x1b
||SHL.$x0,1,$x1a
XOR.LSH2x,$Z2,$Z2; 6/0; [0,0] in epilogue
||SHL.$Z0,1,$rem; rem=$Z<<1
||SHRMB.$S$Z1,$Z0,$Z0; Z>>=8
||AND.L$H1y,$F0000000,$H1z
XOR.LSH3x,$Z3,$Z3; 7/1
||SHRMB.$S$Z2,$Z1,$Z1
||XOR.D$H0z,$Z0,$Z0; merge upper byte products
||AND.S$H2y,$F0000000,$H2z
||XORMPY$E10000,$rem,$res; implicit rem&0x1FE
XOR.LSH1z,$Z1,$Z1; 8/2
||SHRMB.$S$Z3,$Z2,$Z2
||AND.$H3y,$F0000000,$H3z
XOR.LSH2z,$Z2,$Z2; 9/3
||SHRUSZ3,8,$Z3
XOR.D$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*$[inp][1],SH1x:SH0x; 8/
[B0]LDNDW*$[inp]+[2],SH3x:SH2x; 9/
NOP; 10/
.if LITTLE_ENDIAN
SWAP2$Z0,$Z1; 11/-
||SWAP4$Z1,$Z0
SWAP4$Z1,$Z1; 12/-
||SWAP2$Z0,$Z0
SWAP2$Z2,$Z3
||SWAP4$Z3,$Z2
||![B0]BNOPRA
SWAP4$Z3,$Z3
||SWAP2$Z2,$Z2
||[B0]BNOPghash_loop?
[B0]XOR$H0x,$Z0,$Z0; Xi*=inp
||[B0]XOR$H1x,$Z1,$Z1
[B0]XOR$H2x,$Z2,$Z2
||[B0]XOR$H3x,$Z3,$Z3
||[B0]SHRUSZ1,14,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*$[xip][1]
||[B0]SHRUSZ1,16,$x0; Xi[14]
||[B0]ZERO$Z1:$Z0
.else
![B0]BNOPRA; 11/-
[B0]BNOPghash_loop?; 12/-
[B0]XOR$H0x,$Z0,$Z0; Xi*=inp
||[B0]XOR$H1x,$Z1,$Z1
[B0]XOR$H2x,$Z2,$Z2
||[B0]XOR$H3x,$Z3,$Z3
||[B0]MVS$Z0,$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:$Z2
||[B0]MVS$zia,$x1
[B0]ADDK1,4,$[xip]
.endasmfunc
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---

```perl
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/modes/asm/ghash-c64xplus.pl

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* 2.0.16/crypto/ec/ec_key.c

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/*! thelp32.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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* 2.0.16/ms/thelp32.h

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

$code.=<<___;
.text

.if ASSEMBLER_VERSION<700000
.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
MVKLTIMER_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
 ||SHRUB4,3,B0; is length >= 8
 ||ADD1,A4,B6
 ||[!B0]BNOPA
 ||[B0]SUBB0,1,B2
 ||ZEROA1
 ||ZEROB1
 ||![B0]CMPLT0,B4,A1
 ||![B0]CMPLT1,B4,B1
 ||ZEROB5
 ||![B0]CMPLT2,B4,A1
 ||![B0]CMPLT3,B4,B1
 ||![B0]CMPLT4,B4,A1
 ||![B0]CMPLT5,B4,B1
 ||![B0]CMPLT6,B4,A1

cleanse_loop?:
STNDWA3:A2,*A4++
||SUBB4,8,B4

MVB4,B0; remaining bytes
||ADD1,A4,B6
||BNOPRA
 ||[B0]CMPLT0,B0,A1
 ||[B0]CMPLT1,B0,B1
 ||[B0]CMPLT2,B0,A1
 ||[B0]CMPLT3,B0,B1
[B0]CMPLT4,B0,A1
[B0]CMPLT5,B0,B1
[B0]CMPLT6,B0,A1
.endasmfunc

.if0
.global_CRYPTO_memcmp
_CRYPTO_memcmp:
.asmfunc
MV A6,B0
[B0]BNOP RA
[B0]ZERO A4
[B0]ZERO A1:A0
[B0]LDBU*A4++,A5
[B0]LDBU*B4++,B5
[B0]BDECmemcmp_loop?,B0
[B0]LDBU*A4++,A5
[B0]LDBU*B4++,B5
[B0]BDECmemcmp_loop?,B0
[B0]LDBU*A4++,A5
[B0]LDBU*B4++,B5
[B0]BDECmemcmp_loop?,B0
[B0]LDBU*A4++,A5
[B0]LDBU*B4++,B5
[B0]BDECmemcmp_loop?,B0
[B0]LDBU*A4++,A5
[B0]LDBU*B4++,B5
[B0]BDECmemcmp_loop?,B0
[B0]LDBU*A4++,A5
[B0]LDBU*B4++,B5
[B0]BDECmemcmp_loop?,B0
XORA5,B5,A1
[B0]LDBU*A4++,A5
[B0]LDBU*B4++,B5
[B0]BDECmemcmp_loop?,B0
XORA5,B5,A1
[B0]LDBU*A4++,A5
[B0]LDBU*B4++,B5
[B0]BDECmemcmp_loop?,B0

OR A1,A0,A0
[XORA5,B5,A1
[B0]LDBU*A4++,A5
[B0]LDBU*B4++,B5
[B0]BDECmemcmp_loop?,B0

BNOPRA,3
ZERO A4
[A0]MVK1,A4
.endasmfunc
.endif
.global _OPENSSL_atomic_add
.OPENSSL_atomic_add:
.asmfunc
BNOP atomic_store?; pre-C64x+ systems are uni-processor, it's
||LDW* A4,B5; enough to hold interrupts off through
; the load-update-store cycle to achieve
; atomicity
NOP
BNOPRA.3; and this branch stretches even over store
ADDB4,B5,B5
atomic_store?:
STWB5,*A4
||MVB5,A4
.endasmfunc

.global _OPENSSL_wipe_cpu
 OPENSSL_wipe_cpu:
.asmfunc
ZERO A0
||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
.endasmfunc

CLFLUSH .macro CONTROL, ADDR, LEN
  B passthrough?
  [STWADDR, *CONTROL[0]]
  STWLEN, *CONTROL[1]
  spinlock?:
  LDW*CNTOL[1], A0
  NOP3
  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
  [MVK0x00004030, A3
  [MVKL_TIMER_BASE, B16
  MVBO, A4; return value
  [MVK1, A1
  [MVKH0x01840000, A3; L1DWIBAR
  [MVKHTIMER_BASE, B16
  LDW*B16[2], B8; collect 1st tick
  [MVK0x00004010, A5
  NOP4
  MVBB8, B9; lasttick = tick
  [MVK0, B7; lastdiff = 0
  [MVKH0x01840000, A5; L2WIBAR
  CLFLUSH A3, B4, A1; write-back and invalidate L1D line
  CLFLUSH A5, B4, A1; write-back and invalidate L2 line
  LDW*B4, B5
  NOP4
  ADDB7, B5, B5

...
STWB5,*B4
bus_loop1?:
LWD*B16[2],B8
|| [B0]SUBB0,1,B0
NOP4
SUBB8,B9,B7; lastdiff = tick - lasttick
|| MVB8,B9; lasttick = tick
CLFLUSHA3,B4,A1; write-back and invalidate L1D line
CLFLUSHA5,B4,A1; write-back and invalidate L2 line
LWD*B4,B5
NOP4
ADDB7,B5,B5
STWB5,*B4; [!B1] is removed to flatten samples
|| ADDK4,B4
|| [B0]BNOPbus_loop1?,5

BNOPRA,5
.endasmfunc

.global _OPENSSL_instrument_bus2
._OPENSSL_instrument_bus2:
.asmfunc
MVA6,B0; reassign max
|| MVB4,A6; reassign sizeof(output)
|| MKV0x00004030,A3
|| MKVLTIMER_BASE,B16
MVA4,B4; reassign output
|| MKV0,A4; return value
|| MKV1,A1
|| MKVH0x01840000,A3; L1DWIBAR
|| MKVHTIMER_BASE,B16
LWD*B16[2],B8; collect 1st tick
|| MKV0x00004010,A5
NOP4
MVB8,B9; lasttick = tick
|| MKV0,B7; lastdiff = 0
|| MKVH0x01840000,A5; L2WIBAR
CLFLUSHA3,B4,A1; write-back and invalidate L1D line
CLFLUSHA5,B4,A1; write-back and invalidate L2 line
LWD*B4,B5
NOP4
ADDB7,B5,B5
STWB5,*B4

LWD*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
ADDB7,B5,B5
STWB5,*B4; ![B1] is removed to flatten samples
!!!B0|NOPbus_loop2_done?,2
!!SUBB0,1,B0
LDW*B16[2],B8
NOP4
SUBB8,B9,B8
!!!MV8,B9
CMPEQB8,B7,B2
!!!MV8,B7
!![B2]ADDAWB4,1,B4
!!![B2]ADDK1,A4
CMPEQA4,A6,A2
!![A2]NOPbus_loop2?,5

bus_loop2_done?:
BNOPRA,5
.endasmfunc

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

print $code;
close STDOUT;

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/c64xcpuid.pl
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 * 
 * Contributed by Steve Marquess.
 *
 */

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2.0.16/crypto/sha/asm/sha512-armv4.pl

* /opt/ws_local/PERMITS_SQL/1031011564_1595296426.38/0/openssl-fips-2.0.16.tar.gz
* /opt/ws_local/PERMITS_SQL/1031011564_1595296426.38/0/openssl-fips-2.0.16/crypto/modes/asm/ghash-sparcv9.pl
* /opt/ws_local/PERMITS_SQL/1031011564_1595296426.38/0/openssl-fips-2.0.16/crypto/aes/asm/aes-c64xplus.pl
* /opt/ws_local/PERMITS_SQL/1031011564_1595296426.38/0/openssl-fips-2.0.16/crypto/sha/asm/sha1-c64x.pl

* /opt/ws_local/PERMITS_SQL/1031011564_1595296426.38/0/openssl-fips-2.0.16/crypto/modes/asm/ghash-sparcv9.pl
* /opt/ws_local/PERMITS_SQL/1031011564_1595296426.38/0/openssl-fips-2.0.16/crypto/aes/asm/aes-c64xplus.pl
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* /opt/ws_local/PERMITS_SQL/1031011564_1595296426.38/0/openssl-fips-2.0.16/crypto/sha/asm/sha1-c64x.pl

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* /opt/ws_local/PERMITS_SQL/1031011564_1595296426.38/0/openssl-fips-2.0.16/crypto/aes/asm/aes-c64xplus.pl
* /opt/ws_local/PERMITS_SQL/1031011564_1595296426.38/0/openssl-fips-2.0.16/crypto/sha/asm/sha1-c64x.pl
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#!/usr/bin/env perl
#
# ====================================================================
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# ====================================================================
# February 2012
#
# The module implements bn_GF2m_mul_2x2 polynomial multiplication
# used in bn_gf2m.c. It's kind of low-hanging mechanical port from
# C for the time being... The subroutine runs in 37 cycles, which is
# 4.5x faster than compiler-generated code. Though comparison is
# totally unfair, because this module utilizes Galois Field Multiply
# instruction.

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

($rp,$a1,$a0,$b1,$b0)=("A4","B4","A6","B6","A8");  # argument vector

($Alo,$Alox0,$Alox1,$Alox2,$Alox3)=map("A$_",(16..20));
($Ahi,$Ahix0,$Ahix1,$Ahix2,$Ahix3)=map("B$_",(16..20));
($B_0,$B_1,$B_2,$B_3)=("B5","A5","A7","B7");
($A,$B)=($Alo,$B_1);
$xFF="B1";

sub mul_1x1_upper {
  my ($A,$B)=@_; 
  $code.=<<___;
  EXTU8,24,$B_2; smash $B to 4 bytes
  || AND8,$xFF,$B_0
  || SHRU8,24,$B_3
  SHRUS,16, $Ahi; smash $A to two halfwords
  || EXTUS,16,16,$Alo
  XORMPY8,$Alo,$SB_2,$Alox2; 16x8 bits multiplication
  || XORMPY8,$Ahi,$SB_2,$Ahix0
  || EXTUS,16,24,$B_1
  XORMPY8,$Alo,$SB_0,$Alox0
  || XORMPY8,$Ahi,$SB_0,$Ahix0
  XORMPY8,$Alo,$SB_3,$Alox3
  || XORMPY8,$Ahi,$SB_3,$Ahix3
  XORMPY8,$Alo,$SB_1,$Alox1
  || XORMPY8,$Ahi,$SB_1,$Ahix1
___ 
}

sub mul_1x1_merged {
  my ($OUTlo,$OUThi,$A,$B)=@_; 
  $code.=<<___;
  EXTU8,24,$B_2; smash $B to 4 bytes
  || AND8,$xFF,$B_0
  || SHRU8,24,$B_3
  SHRUS,16, $Ahi; smash $A to two halfwords
  || EXTUS,16,16,$Alo
  XORH8,$Ahix0,$Alox2,$Ahix0

  XORH8,$Ahix0,$Alox2,$Ahix0

sub mul_1x1_lower {
    my ($OUTlo,$OUThi)=@_;  
    $code.=<<___;
    ;NOP
    XOR $Ahix0,$Alox2,$Ahix0
    MV $Ahix2,$OUThi
    NOP
    XOR $Ahix1,$Alox3,$Ahix1
    SHL $Ahix0,16,$OUTlo
    ;NOP
    XOR $Ahix0,$OUThi,$OUThi
    XORMPY $Ahi,$B_0,$Ahix0
    XORMPY $Alo,$B_3,$Alox0
    SHL $Alox1,8,$Alox1
    SHL $Ahix3,8,$Ahix3
    XOR $Alox1,$OUTlo,$OUTlo
    XOR $Ahix3,$OUThi,$OUThi
    SHL $Ahix1,24,$Alox1
    XORMPY $Ahi,$B_3,$Ahix3
    SHRU $Ahix1,8,$Ahix1
    XOR $Alox1,$OUTlo,$OUTlo
    XOR $Ahix1,$OUThi,$OUThi
    XORMPY $Alo,$B_1,$Alox1
    XORMPY $Ahi,$B_1,$Ahix1
    MV $A1,$Alox0
    ___
}
$code.=<<___;
.text

.global_bn_GF2m_mul_2x2
_bn_GF2m_mul_2x2:
.asmfunc
MVK0xFF,$xFF
___
&mul_1x1_upper($a0,$b0);# a0b0
$code.=<<___;
||MV$5b1,$B
MV$a1,$A
___
&mul_1x1_merged("A28","B28",$A,$B);# a0b0/a1b1
$code.=<<___;
||XOR$b0,$b1,$B
XOR$a0,$a1,$A
___
&mul_1x1_merged("A31","B31",$A,$B);# a1b1/(a0+a1)(b0+b1)
$code.=<<___;
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/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_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
* 2.0.16/fips/ecdh/fips_ecdh_selftest.c
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/des.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/des_locl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/objects/objects.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/objects/obj_dat.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/objects/obj_mac.h

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#!/usr/bin/env perl
#
#===================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGRAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
#===================================================================
#
# SHA1 for C64x.
#
# November 2016
#
# This is fully-unrolled SHA1 implementation. It's 25% faster than
# one with compact loops, doesn't use in-memory ring buffer, as
# everything is accomodated in registers, and has "perfect" interrupt
# agility. Drawback is obviously the code size...
while (($output=shift) && ($output!~/\w\[\w-]*\.[\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);

sub BODY_00_19 {
    my ($i,$a,$b,$c,$d,$e) = @_; $code.=<<___
    _____
    $code.=<<___

    if ($i<14);
    ROTL$s,5,$Arot; $i
    || ANDSc,$b,$F
    || ANDNS$d,$b,$F0
    || ADDSK,$e,$e; E+=K
    || LDNW*$[INP]+,$X[si+2]
    ORSF0,$F,$F; F_00_19(B,C,D)
    || ROTL$s,30,$b
    || SWAP2@X[si+1],@X[si+1]
    || ADD@X[si],$e,$e; E+=X[i]
    ADDSArrot,$e,$e; E+=rot(A,5)
    || SWAP4@X[si+1],@X[si+1]
    ADDSF,$e,$e; E+=F_00_19(B,C,D)

    if ($i==14);
    ROTL$s,5,$Arot; $i
    || ANDSc,$b,$F
    || ANDNS$d,$b,$F0
    || ADDSK,$e,$e; E+=K
    ORSF0,$F,$F; F_00_19(B,C,D)
    || ROTL$s,30,$b
    || ADD@X[si],$e,$e; E+=X[i]
    || SWAP2@X[si+1],@X[si+1]
    ADDSArrot,$e,$e; E+=rot(A,5)
    || SWAP4@X[si+1],@X[si+1]
    ADDSF,$e,$e; E+=F_00_19(B,C,D)

    if ($i==15);
    XOR@X[(s+2)&15],@X[s],@X[$s]
    ROTL$s,5,$Arot; $i
    || ANDSc,$b,$F
    || ANDNS$d,$b,$F0
    || ADDSK,$e,$e; E+=K
    || XOR@X[(s+8)&15],@X[s],@X[$s]
    __

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ORSF0, SF, SF; F_00_19(B, C, D)
[ROTL$b, 30, $b
|| ADD@X[i], $e, $e; E+=X[i]
|| XOR@X[(i+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[(j+2)&15], @X[j], @X[j]
ROTLsa, 5, $Arot; $i
|| ANDSc, $b, SF
|| ANDNSd, $b, SF
|| ADDSK, $e, $e; E+=K
|| XOR@X[(j+8)&15], @X[j], @X[j]
ORSF0, SF, SF; F_00_19(B, C, D)
[ROTL$b, 30, $b
|| ADD@X[i&15], $e, $e; E+=X[i]
|| XOR@X[(j+13)&15], @X[j], @X[j]
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<79);
|| XOR@X[(j+2)&15], @X[j], @X[j]
ROTLsa, 5, $Arot; $i
|| XORSc, $b, SF
|| ADDSK, $e, $e; E+=K
|| XOR@X[(j+8)&15], @X[j], @X[j]
XORSd, SF, SF; F_20_39(B, C, D)
[ROTL$b, 30, $b
|| ADD@X[i&15], $e, $e; E+=X[i]
|| XOR@X[(j+13)&15], @X[j], @X[j]
ADDSArot, $e, $e; E+=rot(A, 5)
|| ROTL@X[j], 1, @X[j]
ADDSF, $e, $e; E+=F_20_39(B, C, D)
___
$code.=<<___ if ($i==79);
|| [A0] Bloop?
|| [A0] LDNW*{1NP}++, @X[0]; pre-fetch input
ROTLsa, 5, $Arot; $i
|| XORSc, $b, SF
.asgB3,RA
.asgA15,FP
.asgB15,SP

.if BIG_ENDIAN
.asgMV,SWAP2
.asgMV,SWAP4
.endif

.global _sha1_block_data_order
_sha1_block_data_order:
.asmfunc
MV$NUM,A0; reassign $NUM
[A0]BNOPRA: if ($NUM==0) return;
|| [A0]LDW*{CTX}[0],$A; load A-E...
  [A0]LDW*{CTX}[1],$B
  [A0]LDW*{CTX}[2],$C
  [A0]LDW*{CTX}[3],$D
  [A0]LDW*{CTX}[4],$E
  [A0]LDNW*{INP}++,$X[0]; pre-fetch input
  [A0]LDNW*{INP}++,$X[1]
NOPE3
loop?:
SUBA0,1,A0
||MVSA,SActx
||MVD$B,SBctx
||SWAP2@X[0],@X[0]
||MVKL0x5a827999,SK
MVKH0x5a827999,SK; K_00_19
||MV$C,SCtx
||MVSD,SDctx
||MVDS$E,SEctx
||SWAP4@X[0],@X[0]
___
for ($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V, pop(@V)); }
$code.=<<<___;
||MVKL0x6ed9eba1,SK
MVKH0x6ed9eba1,SK; K_20_39
___
for (;$i<40;$i++) { &BODY_20_39($i,@V); unshift(@V, pop(@V)); }
$code.=<<<___;
||MVKL0x8f1bbcdc,SK
MVKH0x8f1bbcdc,SK; K_40_59
___
for (;$i<60;$i++) { &BODY_40_59($i,@V); unshift(@V, pop(@V)); }
$code.=<<<___;
for (;$i<80;$i++) { &BODY_20_39($i,@V); unshift(@V, pop(@V)); }

$code.=<<___;
BNOPRA; return
STW$A,*${CTX}[0]; emit A-E...
STW$B,*${CTX}[1]
STW$C,*${CTX}[2]
STW$D,*${CTX}[3]
STW$E,*${CTX}[4]
.endasmfunc

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

print $code;
close STDOUT;

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-c64x-large.pl
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips_dsa_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
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_utl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_post.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_auth.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/fips/fips.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_loc1.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/fips/dsa/fips_dsa_lib.c
  */opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/fips_rsa_sign.c
  */opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecsrsa/fips_ecdsa_lib.c
  */opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dh/fips_dh_lib.c

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  2.0.16/crypto/rsa/rsa_x931.c
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/crypto/bn/bn_x931p.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_rsastest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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#define FIPS_AUTH_CRYPTO_OFFICER "7f92562d409e903322c0f94a1188ae8178339a4f"
#define FIPS_AUTH_CRYPTO_USER "cb6cabaad26cd210a8b31a5d56a876ee1d51a96c"

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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/fips/sha/fips_standalone_sha1.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/sha/fips_sha1_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_rand_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/aes/fips_aes_selftest.c
* /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
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_rand.h

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

#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# This module implements support for AES instructions as per PowerISA
# specification version 2.07, first implemented by POWER8 processor.
# The module is endian-agnostic in sense that it supports both big-
# and little-endian cases. Data alignment in parallelizable modes is
# handled with VSX loads and stores, which implies MSR.VSX flag being
# set. It should also be noted that ISA specification doesn't prohibit
# alignment exceptions for these instructions on page boundaries.
# Initially alignment was handled in pure AltiVec/VMX way [when data
# is aligned programmatically, which in turn guarantees exception-
# free execution], but it turned to hamper performance when vcipher
# instructions are interleaved. It's reckoned that eventual
# misalignment penalties at page boundaries are in average lower
# than additional overhead in pure AltiVec approach.
#
# May 2016
#
# Add XTS subroutine, 9x on little- and 12x improvement on big-endian
# systems were measured.
#
######################################################################
# Current large-block performance in cycles per byte processed with
# 128-bit key (less is better).
#
#CBC en-/decryptCTRXTS
# POWER8[le]3.96/0.720.741.1
# POWER8[be]3.75/0.650.661.0

$flavour = shift;

if ($flavour =~ /64/) {
    $SIZE_T=8;
    $LRSAVE=2*$SIZE_T;
    $STU="stdu";
    $POP="ld";
    $PUSH="std";
    $UCMP="cmpld";
    $SHL="sldi";
} elsif ($flavour =~ /32/) {
    $SIZE_T=4;
    $LRSAVE=$SIZE_T;
    $STU="stwu";
    $POP="lwz";
    $PUSH="stw";
    $UCMP="cmplw";
    $SHL="slwi";
} else { die "nonsense $flavour"; }

$LITTLE_ENDIAN = ($flavour=~/le$/) ? $SIZE_T : 0;

$0 =~ m/(.*[\/]\[^\/]\+\$\:\$dir=\$1; ( $xlate="$\{dir \}ppc-xlate.pl" and -f $xlate ) or ( $xlate="$\{dir \}../perlasm/ppc-xlate.pl" and -f $xlate) or die "can't locate ppc-xlate.pl";

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

$FRAME=8*$SIZE_T;
$prefix="aes_p8";

$sp="r1";
$vrsave="r12";

#########################################################################
{{{
# Key setup procedures

my ($inp,$bits,$out,$ptr,$cnt,$rounds)=map("r\$_",3..8));
my ($zero,$in0,$in1,$key,$rcon,$mask,$tmp)=map("v\$_",0..6));
my ($stage,$outperm,$outmask,$outhead,$outtail)=map("v\$_",7..11));
}}}}

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$code.=<<\___;
.machine"any"

.text

.align7
rcon:
.long 0x01000000, 0x01000000, 0x01000000, 0x01000000?rev
.long 0x1b000000, 0x1b000000, 0x1b000000, 0x1b000000?rev
.long 0xd0e0f0c, 0xd0e0f0c, 0xd0e0f0c, 0xd0e0f0c?rev
.long 0,0,0,0?asis
Lconsts:
mflr0
bci20,31,\$+4
mflr$ptr #vvvv "distance between . and rcon
addi$ptr,$ptr,-0x48
mflr0
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
.asciz"AES for PowerISA 2.07, CRYPTOGRAMS by <appro@openssl.org>"

.globl.${prefix}_set_encrypt_key
.align5
.${prefix}_set_encrypt_key:
.Lset_encrypt_key:
mflr11
SPUSHr11,$LRSAVE($sp)

li$sprtr,-1
${UCMP}i$inp,0
beq-Lenc_key_abort if ($inp==0) return -1;
${UCMP}i$out,0
beq-Lenc_key_abort if ($out==0) return -1;
li$sprtr,-2
cmpwi$bits,128
blt-Lenc_key_abort
cmpwi$bits,256
bgt-Lenc_key_abort
andi.r0,$bits,0x3f
bne-Lenc_key_abort

lisr0,0xff0
mfspr$vrsave,256
mtps256,r0

blLconsts
mflr11
neg\ r9,$inp
lvx\ %in0,0,$inp
addi\ %inp,%inp,15 # 15 is not typo
lvx\ $key,0,r9 # borrow $key
li\ r8,0x20
cmpwi\ $bits,192
lvx\ %in1,0,$inp
le?vspltisb\ $mask,0x0f # borrow $mask
lvx\ $rcon,0,$ptr
le?vxor\ $key,$key,$mask # adjust for byte swap
lvx\ $mask,r8,$ptr
addi\ $ptr,$ptr,0x10
vperm\ %in0,%in0,%in1,%key # align [and byte swap in LE]
li\ $cnt,8
vxor\ $zero,$zero,$zero
mtctr\ $cnt

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

blt\ Loop128
addi\ %inp,%inp,8
beq\ L192
addi\ %inp,%inp,8
bl\ L256

.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
cipherlast\ $key,$key,$rcon
stvx\ $stage,0,$out
addi\ $out,$out,16
vxor\ %in0,%in0,$tmp
vsldoi\ $tmp,$zero,$tmp,12 # >>32
vxor\ %in0,%in0,$tmp
vsldoi\ $tmp,$zero,$tmp,12 # >>32
vxor\ %in0,%in0,$tmp
vadduwm\ $rcon,$rcon,$rcon
vxor\ %in0,%in0,$key
bdnz\ Loop128
lvx$rcon,0,$ptr# last two round keys

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

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

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

li$rounds,10
bLdone

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

Loop192:
vperm$skey,$in1,$in1,$mask # roate-n-splat
vsldoi$tmp,$zero,$in0,12 # >>32
vcipherlast$key,$key,$rcon

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

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

vperm$skey,$in1,$in1,$mask # rotate-n-splat
vsldoi$tmp,$zero,$in0,12 # >>32
vperm$souttail,$stage,$stage,$outperm # rotate
vsel$stage,$outhead,$souttail,$outmask
vmr$southead,$souttail
vcipherlast$key,$key,$rcon
stvx$stage,0,$out
addi$sout,$out,16

vsldoi$stage,$in0,$in1,8
vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12 # >>32
vperm$souttail,$stage,$stage,$outperm # rotate
vsel$stage,$outhead,$souttail,$outmask
vmr$southead,$souttail
vxor\$in0,\$in0,\$tmp
vsldoi\$tmp,\$zero,\$tmp,12# >>32
vxor\$in0,\$in0,\$tmp
stvx\$stage,0,\$out
addi\$out,\$out,16

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

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

.align4
L256:
lvx\$tmp,0,\$inp
li\$cnt,7
li\$rrounds,14
vperm\$outtail,\$in0,\$in0,\$outperm# rotate
vsel\$stage,\$outhead,\$outtail,\$outmask
vmr\$outhead,\$outtail
stvx\$stage,0,\$out
addi\$out,\$out,16
vperm\$in1,\$in1,\$tmp,\$key# align [and byte swap in LE]
mtctr\$cnt

Loop256:
vperm\$key,\$in1,\$in1,\$mask# rotate-n-splat
vsldoi\$tmp,\$zero,\$in0,12# >>32
vperm\$outtail,\$in1,\$in1,\$outperm# rotate
vsel\$stage,\$outhead,\$outtail,\$outmask
vmr\$outhead,\$outtail
vcipherlast\$key,\$key,\$rcon
stvx\$stage,0,\$out
addi\$out,\$out,16
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vadduwm $rcon,$rcon,$rcon
vxor $in0,$in0,$key
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$outhead,$outtail,$outmask
vmr $outhead,$outtail
stvx $stage,0,$out
addi $inp,$out,15 # 15 is not typo
addi $out,$out,16
bdz Ldone
vspltw $key,$in0,3 # just splat
vsldoi $tmp,$zero,$in1,12 # >>32
vsbox $key,$key
vxor $in1,$in1,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in1,$in1,$tmp
vxor $in1,$in1,$key
b Loop256

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

Lenc_key_abort:
mrr3,$ptr
blr
.long 0
.byte 0,12,0x14,1,0,0,3,0
.long 0
.size .${prefix}_set_encrypt_key,-.${prefix}_set_encrypt_key
.globl .${prefix}_set_decrypt_key
.align5
.${prefix}_set_decrypt_key:
$STUSp,-$FRAME($sp)
mflr10
SPUSHr10,$FRAME+$LRSAVE($sp)
blL.set_encrypt_key
mflr10

cmpwir3,0
bne-Ldec_key_abort

slwi$cnt,$rounds,4
subi$inp,$out,240# first round key
srwi$rounds,$rounds,1
addSout,$inp,$cnt# last round key
mtctr$rounds

Ldekey:
lwzr0, 0($inp)
lwzr6, 4($inp)
lwzr7, 8($inp)
lwzr8, 12($inp)
add$inp,$inp,16
lwzr9, 0($out)
lwzr10,4($out)
lwzr11,8($out)
lwzr12,12($out)
stw0, 0($out)
stw6, 4($out)
stwr7, 8($out)
stwr8, 12($out)
subiSout,$out,16
stwr9, -16($inp)
stwr10,-12($inp)
stwr11,-8($inp)
stwr12,-4($inp)
bdnzLdekey

xor$r3,r3,r3# return value
Ldec_key_abort:
addi$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:
  lwz$rounds,240($key)
  lisr0,0xfc00
  mfspr$vrsave,256
  li$idx,15# 15 is not typo
  mtspr256,r0

  lvxv0,0,$inp
  negr11,$out
  lvxv1,$idx,$inp
  lvslv2,0,$inp# inpperm
  le?vsplitisbv4,0x0f
  ?!vslv3,0,r11# outperm
  le?vxorv2,v2,v4
  li$idx,16
  vpermv0,v0,v1,v2# align [and byte swap in LE]
  lvxv1,0,$key
  ?!vslv5,0,$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
  mtcrr$rounds

  Loop_${dir}c:
  ?vpermv2,v2,v1,v5
  v$[n]cpherv0,v0,v2
  lvxv2,$idx,$key
  addi$idx,$idx,16
  ?vpermv1,v1,v2,v5
  v$[n]cpherv0,v0,v1
  lvxv1,$idx,$key
  addi$idx,$idx,16
  bdnzLoop_${dir}c
?vpermv2,v2,v1,v5
v${n}cipherv0,v0,v2
lvxv2,Sidx,Sk

?vpermv1,v1,v2,v5
v${n}cipherlastv0,v0,v1

vspltisb2,-1
vxorv1,v1,v1
liSidx,15# 15 is not typo

?vpermv2,v1,v2,v3# outmask
le?vxorv3,v3,v4

lvx1,0,Sout# outhead
vpermv0,v0,v0,v3# rotate [and byte swap in LE]

vselv1,v1,v0,v2
lvxv4,Sidx,Sout
stvxv1,0,Sout
vselv0,v0,v4,v2
stvxv0,Sidx,Sout

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

.size .${prefix}_${dir}crypt,.-.${prefix}_${dir}crypt

{{

	# 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));

Scode.=<<____;
.globl .${prefix}_${dir}encrypt
.align 5

.S${prefix}_${dir}encrypt:
$[UCMP]i$len,16
bltr-

cmpwi$enc,0# test direction
lisr0,0xffe0
mf spr$vrsave,256
mtspr256,0
li $idx, 15
vxor $rndkey0, $rndkey0, $rndkey0
le?vspltisb $tmp, 0x0f

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

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

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

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

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

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

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

Loop_cbc_enc:
?vperm $rndkey1, $rndkey1, $rndkey0, $keyperm
vcipher $inout, $inout, $rndkey1
lvx $rndkey1, $idx, $key
addi $idx, $idx, 16
?vperm $rndkey0, $rndkey0, $rndkey1, $keyperm
vcipher $inout, $inout, $rndkey0
lvx $rndkey0, $idx, $key
addi $idx, $idx, 16
bdnz Loop_cbc_enc

?vperm $rndkey1, $rndkey1, $rndkey0, $keyperm
vcipher $inout, $inout, $rndkey1
lvx $rndkey1, $idx, $key
li $idx, 16
?vperm $rndkey0, $rndkey0, $rndkey1, $keyperm
vcipher $inout, $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, $inp, $perm
lvx $rndkey1, $idx, $key
addi $idx, $idx, 16
?vperm $rndkey0, $rndkey0, $rndkey1, $keyperm
vxor $inout, $tmp, $rndkey0
lvx $rndkey0, $idx, $key
addi $idx, $idx, 16

Loop_cbc_dec:
?vperm $rndkey1, $rndkey1, $rndkey0, $keyperm
vncipher$inout,$inout,$rndkey1
lvx$rndkey1,$idx,$key
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key
addi$idx,$idx,16
bdnz Loop_cbc_dec

?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher$inout,$inout,$rndkey1
lvx$rndkey1,$idx,$key
li$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher$inout,$inout,$rndkey0
/${UCMP}i$len,16
vxor$inout,$inout,$ivec
vmr$ivec,$tmp
?vperm$tmp,$inout,$outperm
vsel$inout,$outhead,$tmp,$outmask
vmr$outhead,$tmp
stvx$inout,0,$out
addi$out,$out,16
bge Lcbc done:

Lcbc done:
addi$out,$out,-1
lvx$inout,0,$out# redundant in aligned case
vsel$inout,$outhead,$inout,$outmask
stvx$inout,0,$out

neg$enc,$ivp# write [unaligned] iv
li$idx,15# 15 is not typo
vxor$rndkey0,$rndkey0,$rndkey0
vspltisb$outmask,-1
le?$vspltisb$tmp,0x0f
?vsl$outperm,0,$enc
?vperm$outmask,$rndkey0,$outmask,$outperm
le?$vxor$outperm,$outperm,$tmp
lvx$outhead,0,$ivp
vperm$ivec,$ivec,$ivec,$outperm
vsel$inout,$outhead,$ivec,$outmask
lvx$inptail,$idx,$ivp
stvx$inout,0,$ivp
vsel$inout,$ivec,$inptail,$outmask
stvx$inout,$idx,$ivp
## Optimized CBC Decrypt Procedure

```perl
my $key_ = "$r11";
my ($x00, $x10, $x20, $x30, $x40, $x50, $x60, $x70) = map("r$_", (0, 8, 26..31));
$x00 = 0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7) = map("v$_", (0..3, 10..13));
my ($out0, $out1, $out2, $out3, $out4, $out5, $out6, $out7) = map("v$_", (14..21));
my $rndkey0 = "v23";  # v24-v25 rotating buffer for first found keys
# v26-v31 last 6 round keys
my ($tmp, $keyperm) = ($in3, $in4);  # aliases with "caller", redundant assignment

$code.=<<___;
.align 5
_aesp8_cbc_decrypt8:
  STU $sp,-(${FRAME+21*16+6*$SIZE_T})($sp)
  li r10, ${FRAME+8*16+15}
  li r11, ${FRAME+8*16+31}
  stvx v20, r10, $sp  # ABI says so
  addi r10, r10, 32
  stvx v21, r11, $sp
  addi r11, r11, 32
  stvx v22, r10, $sp
  addi r10, r10, 32
  stvx v23, r11, $sp
  addi r11, r11, 32
  stvx v24, r10, $sp
  addi r10, r10, 32
  stvx v25, r11, $sp
  addi r11, r11, 32
  stvx v26, r10, $sp
  addi r10, r10, 32
  stvx v27, r11, $sp
  addi r11, r11, 32
  stvx v28, r10, $sp
  addi r10, r10, 32
  stvx v29, r11, $sp
  addi r11, r11, 32
  stvx v30, r10, $sp
  stvx v31, r11, $sp
  li r0, -1
  stw $vrsave, ${FRAME+21*16-4}($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

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

Load_cbc_dec_key:
?vpermv24,v30,v31,$keyperm
lvx30,$x10,$key
addi$key,$key,0x20
stvvx24,$x00,$key_# off-load round[1]
?vpermv25,v31,v30,$keyperm
lvx31,$x00,$key
stvvx25,$x10,$key_# off-load round[2]
addi$key_,$key_0x20
bdnzLoad_cbc_dec_key

lvx26,$x10,$key
?vpermv24,v30,v31,$keyperm
lvx27,$x20,$key
stvvx24,$x00,$key_# off-load round[3]
?vpermv25,v31,v26,$keyperm
lvx28,$x30,$key
stvvx25,$x10,$key_# off-load round[4]
addi$key_,$sp,$FRAME+15# rewind $key_
?vpermv26,v26,v27,$keyperm
lvx29,$x40,$key
?vpermv27,v27,v28,$keyperm
lvx30,$x50,$key
?vpermv28,v28,v29,$keyperm
lvxv31,$x60,$key
?vpermv29,v29,v30,$keyperm
lvx$out0,$x70,$key# borrow $out0
?vpermv30,v30,v31,$keyperm
lvx24,$x00,$key # pre-load round[1]
?vpermv31,v31,$out0,$keyperm
lvx25,$x10,$key # pre-load round[2]

#lvx$inptail,0,$in# "caller" already did this
#addisinp,$inp,15# 15 is not typo
subisinp,$inp,15# undo "caller"

le?li$idx,8
lvx_u$sin0,0x00,$in# load first 8 "words"
le?vsl$inperm,0,$idx
le?vsltusb$tmp,0x0f
lvx_u$sin1,5x10,$inp
le?vxorinperm,$inperm,$tmp# transform for lvx_u/stvx_u
lvx_u$sin2,5x20,$inp
le?vperm$in0,$in0,$in0,$inperm
lvx_u$sin3,5x30,$inp
le?vperm$in1,$in1,$in1,$inperm
lvx_u$sin4,5x40,$inp
le?vperm$in2,$in2,$in2,$inperm
vxor$out0,$in0,$rndkey0
lvx_u$sin5,5x50,$inp
le?vperm$in3,$in3,$in3,$inperm
vxor$out1,$in1,$rndkey0
lvx_u$sin6,5x60,$inp
le?vperm$in4,$in4,$in4,$inperm
vxor$out2,$in2,$rndkey0
lvx_u$sin7,5x70,$inp
addisinp,$inp,0x80
le?vperm$in5,$in5,$in5,$inperm
vxor$out3,$in3,$rndkey0
le?vperm$in6,$in6,$in6,$inperm
vxor$out4,$in4,$rndkey0
le?vperm$in7,$in7,$in7,$inperm
vxor$out5,$in5,$rndkey0
vxor$out6,$in6,$rndkey0
vxor$out7,$in7,$rndkey0

mtctr$rounds
bLoop_cbc_dec8x
.align5
Loop_cbc_dec8x:
vncipher$out0,$out0,v24
vncipher $out1, $out1, v24
vncipher $out2, $out2, v24
vncipher $out3, $out3, v24
vncipher $out4, $out4, v24
vncipher $out5, $out5, v24
vncipher $out6, $out6, v24
vncipher $out7, $out7, v24
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

and $r0, $r0, $len
vncipher $out0, $out0, v26
vncipher $out1, $out1, v26
vncipher $out2, $out2, v26
vncipher $out3, $out3, v26
vncipher $out4, $out4, v26
vncipher $out5, $out5, v26
vncipher\$out6,\$out6,v26
vncipher\$out7,\$out7,v26

add\$inp,\$inp,\$r0# \$inp is adjusted in such
# way that at exit from the
# loop \$inX-\$in7 are loaded
# with last "words"
vncipher\$out0,\$out0,v27
vncipher\$out1,\$out1,v27
vncipher\$out2,\$out2,v27
vncipher\$out3,\$out3,v27
vncipher\$out4,\$out4,v27
vncipher\$out5,\$out5,v27
vncipher\$out6,\$out6,v27
vncipher\$out7,\$out7,v27

add\$key_,$sp,$FRAME+15# rewind $key_
vncipher\$out0,\$out0,v28
vncipher\$out1,\$out1,v28
vncipher\$out2,\$out2,v28
vncipher\$out3,\$out3,v28
vncipher\$out4,\$out4,v28
vncipher\$out5,\$out5,v28
vncipher\$out6,\$out6,v28
vncipher\$out7,\$out7,v28
lvx\$v24,$x00,$key_# re-pre-load round[1]

vncipher\$out0,\$out0,v29
vncipher\$out1,\$out1,v29
vncipher\$out2,\$out2,v29
vncipher\$out3,\$out3,v29
vncipher\$out4,\$out4,v29
vncipher\$out5,\$out5,v29
vncipher\$out6,\$out6,v29
vncipher\$out7,\$out7,v29
lvx\$v25,$x10,$key_# re-pre-load round[2]

vncipher\$out0,\$out0,v30
vxor\$ivec,$ivec,v31# xor with last round key
vncipher\$out1,\$out1,v30
vxor\$in0,$in0,v31
vncipher\$out2,\$out2,v30
vxor\$in1,$in1,v31
vncipher\$out3,\$out3,v30
vxor\$in2,$in2,v31
vncipher\$out4,\$out4,v30
vxor\$in3,$in3,v31
vncipher\$out5,\$out5,v30
vxor $in4, $in4, v31
vncipher $out6, $out6, v30
vxor $in5, $in5, v31
vncipher $out7, $out7, v30
vxor $in6, $in6, v31

vncipherlast $out0, $out0, $ivec
vncipherlast $out1, $out1, $in0
  lvx_u $in0, $x00, $inp  # load next input block
vncipherlast $out2, $out2, $in1
  lvx_u $in1, $x10, $inp
vncipherlast $out3, $out3, $in2
  le?$perm $in0, $in0, $in0, $inpperm
  lvx_u $in2, $x20, $inp
vncipherlast $out4, $out4, $in3
  le?$perm $in1, $in1, $in1, $inpperm
  lvx_u $in3, $x30, $inp
vncipherlast $out5, $out5, $in4
  le?$perm $in2, $in2, $in2, $inpperm
  lvx_u $in4, $x40, $inp
vncipherlast $out6, $out6, $in5
  le?$perm $in3, $in3, $in3, $inpperm
  lvx_u $in5, $x50, $inp
vncipherlast $out7, $out7, $in6
  le?$perm $in4, $in4, $in4, $inpperm
  lvx_u $in6, $x60, $inp
vmr $ivec, $in7
  le?$perm $in5, $in5, $in5, $inpperm
  lvx_u $in7, $x70, $inp
addi $inp, $inp, 0x80

  le?$perm $out0, $out0, $out0, $inpperm
le?$perm $out1, $out1, $out1, $inpperm
stvx_u $out0, $x00, $out
le?$perm $in6, $in6, $in6, $inpperm
vxor $out0, $in0, $rndkey0
le?$perm $out2, $out2, $out2, $inpperm
stvx_u $out1, $x10, $out
le?$perm $in7, $in7, $in7, $inpperm
vxor $out1, $in1, $rndkey0
le?$perm $out3, $out3, $out3, $inpperm
stvx_u $out2, $x20, $out
vxor $out2, $in2, $rndkey0
le?$perm $out4, $out4, $out4, $inpperm
stvx_u $out3, $x30, $out
vxor $out3, $in3, $rndkey0
le?$perm $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

mtctr5rounds
beq Loop_cbc_dec8x # did $len-=128 borrow?

addi $len, $len, 128
beq Lcbc_dec8x_done
nop

nop

Loop_cbc_dec8x_tail: # up to 7 "words" tail...
vncipher $out1, $out1, v24
vncipher $out2, $out2, v24
vncipher $out3, $out3, v24
vncipher $out4, $out4, v24
vncipher $out5, $out5, v24
vncipher $out6, $out6, v24
vncipher $out7, $out7, v24
lvx24, $x20, $key_ # round[3]
addi $key_, $key_, 0x20

vncipher $out1, $out1, v25
vncipher $out2, $out2, v25
vncipher $out3, $out3, v25
vncipher $out4, $out4, v25
vncipher $out5, $out5, v25
vncipher $out6, $out6, v25
vncipher $out7, $out7, v25
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,\$out5,0x30
vxor\$in4,\$in4,0x31
vncipher\$out6,\$out6,0x30
vxor\$in5,\$in5,0x31
vncipher\$out7,\$out7,0x30
vxor\$in6,\$in6,0x31

cmplwi\$len,32 # switch(\$len)
bblCcbc_dec8x_one
nop
beqCcbc_dec8x_two
cmplwi\$len,64
bblCcbc_dec8x_three
nop
beqCcbc_dec8x_four
cmplwi\$len,96
bblCcbc_dec8x_five
nop
beqCcbc_dec8x_six

Lcbc_dec8x_seven:
vncipherlast\$out1,\$out1,\$ivec
vncipherlast\$out2,\$out2,\$in1
vncipherlast\$out3,\$out3,\$in2
vncipherlast\$out4,\$out4,\$in3
vncipherlast\$out5,\$out5,\$in4
vncipherlast\$out6,\$out6,\$in5
vncipherlast\$out7,\$out7,\$in6
vmr\$ivec,\$in7

le?vperm\$out1,\$out1,\$out1,\$inpperm
le?vperm\$out2,\$out2,\$out2,\$inpperm
stvx_u\$out1,\$x00,\$out
le?vperm\$out3,\$out3,\$out3,\$inpperm
stvx_u\$out2,\$x10,\$out
le?vperm\$out4,\$out4,\$out4,\$inpperm
stvx_u\$out3,\$x20,\$out
le?vperm\$out5,\$out5,\$out5,\$inpperm
stvx_u\$out4,\$x30,\$out
le?vperm\$out6,\$out6,\$out6,\$inpperm
stvx_u\$out5,\$x40,\$out
le?vperm\$out7,\$out7,\$out7,\$inpperm
stvx_u\$out6,\$x50,\$out
stvx_u\$out7,\$x60,\$out
addi\$out,\$out,0x70
bLcbc_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, $inperm
stvx_u $out5, $x30, $out
le?vperm $out7, $out7, $out7, $inperm
stvx_u $out6, $x40, $out
stvx_u $out7, $x50, $out
addi $out, $out, 0x60
b Lcbc_dec8x_done

.align 5

Lcbc_dec8x_five:
vncipherlast $out3, $out3, $ivec
vncipherlast $out4, $out4, $in3
vncipherlast $out5, $out5, $in4
vncipherlast $out6, $out6, $in5
vncipherlast $out7, $out7, $in6
vmr $ivec, $in7
le?vperm $out3, $out3, $out3, $inperm
le?vperm $out4, $out4, $out4, $inperm
stvx_u $out3, $x00, $out
le?vperm $out5, $out5, $out5, $inperm
stvx_u $out4, $x10, $out
le?vperm $out6, $out6, $out6, $inperm
stvx_u $out5, $x20, $out
le?vperm $out7, $out7, $out7, $inperm
stvx_u $out6, $x30, $out
stvx_u $out7, $x40, $out
addi $out, $out, 0x50
b Lcbc_dec8x_done

.align 5

Lcbc_dec8x_four:
vncipherlast $out4, $out4, $ivec
vncipherlast $out5, $out5, $in4
vncipherlast $out6, $out6, $in5
vncipherlast $out7, $out7, $in6
vmr $ivec, $in7

le?vperm $out4, $out4, $out4, $inperm
le?vperm $out5, $out5, $out5, $inperm
stvx_u $out4, $x00, $out
le?vperm $out6, $out6, $out6, $inperm
stvx_u $out5, $x10, $out
le?vperm $out7, $out7, $out7, $inperm
stvx_u $out6, $x20, $out
stvx_u $out7, $x30, $out
addi $out, $out, 0x40
b Lcbc_dec8x_done

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

le?vperm $out5, $out5, $out5, $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
b Lcbc_dec8x_done

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

le?vperm $out6, $out6, $out6, $inperm
le?vperm $out7, $out7, $out7, $inperm
stvx_u $out6, $x00, $out
stvx_u $out7, $x10, $out
addi $out, $out, 0x20
b Lcbc_dec8x_done

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

le?vperm\$out7,\$out7,\$out7,\$inpperm
stvx_u\$out7.0,\$out
addi\$out7,\$out,0x10

Lcbe_dec8x_done:
le?vperm\$ivec,\$ivec,\$ivec,\$inpperm
stvx_u\$ivec.0,\$ivp# write [unaligned] iv

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

mtspr256,\$vrsave
lvx20,r10,\$sp# ABI says so
addi r10,r10,32
lvx21,r11,\$sp
addi r11,r11,32
lvx22,r10,\$sp
addi r10,r10,32
lvx23,r11,\$sp
addi r11,r11,32
lvx24,r10,\$sp
addi r10,r10,32
lvx25,r11,\$sp
addi r11,r11,32
lvx26,r10,\$sp
addi r10,r10,32
lvx27,r11,\$sp
addi r11,r11,32
lvx28,r10,\$sp
addi r10, r10, 32
lvx29, r11, $sp
addi r11, r11, 32
lvx30, r10, $sp
lvx31, r11, $sp
$SPOP26, $SFRAME+21*16+0*SIZE_T($sp)
$SPOP27, $SFRAME+21*16+1*SIZE_T($sp)
$SPOP28, $SFRAME+21*16+2*SIZE_T($sp)
$SPOP29, $SFRAME+21*16+3*SIZE_T($sp)
$SPOP30, $SFRAME+21*16+4*SIZE_T($sp)
$SPOP31, $SFRAME+21*16+5*SIZE_T($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-

lisr0, 0xffff
mfsp$vrsave, 256
mtspr256, r0
li $idx, 15
vxor$rndkey0, $rndkey0, $rndkey0
le$vsplitisb$tmp, 0x0f

lvx$ivec, 0, $ivp# load [unaligned] iv
lvx$inpperm, 0, $ivp
lvx$inptail, $idx, $ivp
vsplit$one, 1
le$vxor$inpperm, $inpperm, $tmp

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vperm$sivec,$ivec,$inptail,$inpperm
vsldoi$one,$rndkey0,$one,1

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

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

srwi$rrounds,$rounds,1
li$sidx,16
subi$rrounds,$rounds,1

${UCMP}i$tlen,8
bge_aes_p8_ctr32_encrypt8x

?lsr$outperm,0,$out # prepare for unaligned store
vspltisb$outmask,-1
lvx$outehead,0,$out
?vperm$outmask,$rndkey0,$outmask,$outperm
le?vxor$outperm,$outperm,$tmp

lvx$rndkey0,0,$key
mtctr$rrounds
lvx$rndkey1,$sidx,$key
addi$sidx,$sidx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$inout,$ivec,$rndkey0
lvx$rndkey0,$sidx,$key
addi$sidx,$sidx,16
bLoop_ctr32_enc

.align5
Loop_ctr32_enc:
?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$inout,$inout,$rndkey1
lvx$rndkey1,$sidx,$key
addi$sidx,$sidx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher$inout,$inout,$rndkey0
lvx$rndkey0,$sidx,$key
addi$sidx,$sidx,16
bdnzLoop_ctr32_enc

vadduwmsivec,$ivec,$one
```assembly
vmr$dat,$inptail
1vx$inptail,0,$inp
addi$inp,$inp,16
subi.$len,$len,1 # blocks--

?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$inout,$inout,$rndkey1
1vx$rndkey1,1,$key
?vperm$sdat,$dat,sinptail,$inpperm
li$idx,16
?vperm$rndkey1,$rndkey0,$rndkey1,$keyperm
1vx$rndkey0,0.0,$key
vxor$sdat,$dat,$rndkey1 # last round key
vcipherlast$inout,$inout,$sdat

1vx$rndkey1,1,$key
addi$idx,$idx,16
?vperm$srndkey0,$rndkey0,$rndkey1,$keyperm
vmr$southead,$inout
vxor$sinout,$ivec,$rndkey0
1vx$rndkey0,1,$key
addi$idx,$idx,16
stvx$sdat,0,$out
addi$out,$out,16
bneLoop_ctr32_enc

addi$out,$out,-1
1vx$inout,0,$out # redundant in aligned case
vsel$inout,$outhead,$inout,$outmask
stvx$inout,0,$out

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

#########################################################################
{ # Optimized CTR procedure#
   my $key_="r11";
   my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
   $x00=0 if ($flavour =~ /osx/);
   my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7 )=map("v$_",(0..3,10,12..14));
   my ($out0,$out1,$out2,$out3,$out4,$out5,$out6,$out7)=map("v$_",(15..22));
   my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
```
# v26-v31 last 6 round keys
my ($tmp,$keyperm)=(in3,in4); # aliases with "caller", redundant assignment
my ($two,$three,$four)=(outhead,outhead,outhead);

$code.=<<___;
.align5
_aesps_ctr32_encrypt8x:
    STU		$sp,-`(SP+21*16+6*SIZE_T)`($sp)
    li10,`$FRAME+8*16+15`
    li11,`$FRAME+8*16+31`
    stvxv20,r10,$sp # ABI says so
    addir10,r10,32
    stvxv21,r11,$sp
    addir11,r11,32
    stvxv22,r10,$sp
    addir10,r10,32
    stvxv23,r11,$sp
    addir11,r11,32
    stvxv24,r10,$sp
    addir10,r10,32
    stvxv25,r11,$sp
    addir11,r11,32
    stvxv26,r10,$sp
    addir10,r10,32
    stvxv27,r11,$sp
    addir11,r11,32
    stvxv28,r10,$sp
    addir10,r10,32
    stvxv29,r11,$sp
    addir11,r11,32
    stvxv30,r10,$sp
    stvxv31,r11,$sp
    li0,-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

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

lvx $rndkey0,$x00,$key # load key schedule
lvx 30,$x10,$key
addi $key,$key,0x20
lvx 31,$x00,$key
?vperm $rndkey0,$rndkey0,v30,$keyperm
addi $key,_$sp,$FRAME+15
mtctr $rounds

Load_ctr32_enc_key:
?vperm v24,v30,v31,$keyperm
lvx 30,$x10,$key
addi $key,$key,0x20
stvx v24,$x00,$key_
# off-load round[1]
?vperm v25,v31,v26,$keyperm
lvx 28,$x30,$key
stvx v25,$x10,$key_
# off-load round[2]
addi $key_,_0x20
bdnz Load_ctr32_enc_key

lvx 26,$x10,$key
?vperm v24,v30,v31,$keyperm
lvx 27,$x20,$key
stvx v24,$x00,$key_
# off-load round[3]
?vperm v25,v31,v26,$keyperm
lvx 28,$x30,$key
stvx v25,$x10,$key_
# off-load round[4]
addi $key_,_0x20
?vperm v26,v26,v27,$keyperm
lvx 29,$x40,$key
?vperm v27,v27,v28,$keyperm
lvx 30,$x50,$key
?vperm v28,v28,v29,$keyperm
lvx 31,$x60,$key
?vperm v29,v29,v30,$keyperm
lvx $out0,$x70,$key # borrow $out0
?vperm v30,v30,$keyperm
lvx 24,$x00,$key # pre-load round[1]
?vperm v31,v31,$out0,$keyperm
lvx 25,$x10,$key_
# pre-load round[2]

vadduwms $two,$one,$one
subi $inp,$inp,15 # undo "caller"
$SHL $len,$len,4
vadduwms $out1,$ivec,$one # counter values ...
vadduwm\$out2,\$ivec,\$two
vxor\$out0,\$ivec,\$rndkey0# ... xored with rndkey[0]
le?\$i\$\$idx,8
vadduwm\$out3,\$out1,\$two
vxor\$out1,\$out1,\$rndkey0
le?\$vl\$\$inpperm,0,\$idx
vadduwm\$out4,\$out2,\$two
vxor\$out2,\$out2,\$rndkey0
le?vsp\$\$tmp,0x0f
vadduwm\$out5,\$out3,\$two
vxor\$out3,\$out3,\$rndkey0
le?vxor\$\$inpperm,\$inpperm,\$tmp# transform for lvx_u/stvx_u
vadduwm\$out6,\$out4,\$two
vxor\$out4,\$out4,\$rndkey0
vadduwm\$out7,\$out5,\$two
vxor\$out5,\$out5,\$rndkey0
vadduwm\$ivec,\$out6,\$two# next counter value
vxor\$out6,\$out6,\$rndkey0
vxor\$out7,\$out7,\$rndkey0

mtctr\$rounds
bLoop_ctr32_enc8x
.align5
Loop_ctr32_enc8x:
vcipher \$out0,\$out0,v24
vcipher \$out1,\$out1,v24
vcipher \$out2,\$out2,v24
vcipher \$out3,\$out3,v24
vcipher \$out4,\$out4,v24
vcipher \$out5,\$out5,v24
vcipher \$out6,\$out6,v24
vcipher \$out7,\$out7,v24
Loop_ctr32_enc8x_middle:
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
vcipher \$out6,\$out6,v25
vcipher \$out7,\$out7,v25
lvxv25,\$x10,\$key_# round[4]
bdnzLoop_ctr32_enc8x

subicr11,\$len,256# $len-256, borrow $key_
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vcipher $out4,$out4,v24
vcipher $out5,$out5,v24
vcipher $out6,$out6,v24
vcipher $out7,$out7,v24

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

and		r0,r0,r11
addi		$key_,$sp,$FRAME+15	# rewind $key_
vcipher $out0,$out0,v26
vcipher $out1,$out1,v26
vcipher $out2,$out2,v26
vcipher $out3,$out3,v26
vcipher $out4,$out4,v26
vcipher $out5,$out5,v26
vcipher $out6,$out6,v26
vcipher $out7,$out7,v26
lvx		v24,$x00,$key_		# re-pre-load round[1]

subic		$len,$len,129		# $len-=129
vcipher $out0,$out0,v27
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
add $inp, $inp, 0x80
vcipher $out0, $out0, v29
le?vperm $in0, $in0, $in0, $inpperm
vcipher $out1, $out1, v29
le?vperm $in1, $in1, $in1, $inpperm
vcipher $out2, $out2, v29
le?vperm $in2, $in2, $in2, $inpperm
vcipher $out3, $out3, v29
le?vperm $in3, $in3, $in3, $inpperm
vcipher $out4, $out4, v29
le?vperm $in4, $in4, $in4, $inpperm
vcipher $out5, $out5, v29
le?vperm $in5, $in5, $in5, $inpperm
vcipher $out6, $out6, v29
le?vperm $in6, $in6, $in6, $inpperm
vcipher $out7, $out7, v29
le?vperm $in7, $in7, $in7, $inpperm
add $inp, $inp, r0  # $inp is adjusted in such
  # way that at exit from the
  # loop inX-in7 are loaded
  # with last "words"
subfe r0, r0, r0  # borrow? -1:0
vcipher $out0, $out0, v30
vxor $in0, $in0, v31  # xor with last round key
vcipher $out1, $out1, v30
vxor $in1, $in1, v31
vcipher $out2, $out2, v30
vxor $in2, $in2, v31
vcipher $out3, $out3, v30
vxor $in3, $in3, v31
vcipher $out4, $out4, v30
vxor $in4, $in4, v31
vcipher $out5, $out5, v30
vxor $in5, $in5, v31
vcipher $out6, $out6, v30
vxor $in6, $in6, v31
vcipher $out7, $out7, v30
vxor $in7, $in7, v31

bne Lctr32_enc8x_break # did $len-129 borrow?

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

vcipher $out0, $out0, v24
stvx_u $out0, $x00, $out
le?vperm $in2, $in2, $in2, $inperm
vcipher $out1, $out1, v24
stvx_u $in1, $x10, $out
le?vperm $in3, $in3, $in3, $inperm
vcipher $out2, $out2, v24
stvx_u $in2, $x20, $out
le?vperm $in4, $in4, $in4, $inperm
vcipher $out3, $out3, v24
stvx_u $in3, $x30, $out
le?vperm $in5, $in5, $in5, $inperm
vcipher $out4, $out4, v24
stvx_u $in4, $x40, $out
le?vperm$in6,$in6,$in6,$inpperm
vcipher$out5,$out5,v24
stvx_u$in5,$x50,$out
le?vperm$in7,$in7,$in7,$inpperm
vcipher$out6,$out6,v24
stvx_u$in6,$x60,$out
vcipher$out7,$out7,v24
stvx_u$in7,$x70,$out
addi$out,$out,0x80
b Loop_ctr32_enc8x_middle

.align 5
Lctr32_enc8x_break:  
cmpwi$len,-0x60
blt Lctr32_enc8x_one
nop
beq Lctr32_enc8x_two
  cmpwi$len,-0x40
  blt Lctr32_enc8x_three
  nop
  beq Lctr32_enc8x_four
  cmpwi$len,-0x20
  blt Lctr32_enc8x_five
  nop
  beq Lctr32_enc8x_six
  cmpwi$len,0x00
  blt Lctr32_enc8x_seven

Lctr32_enc8x_eight:
  vcipherlast$out0,$out0,$in0
  vcipherlast$out1,$out1,$in1
  vcipherlast$out2,$out2,$in2
  vcipherlast$out3,$out3,$in3
  vcipherlast$out4,$out4,$in4
  vcipherlast$out5,$out5,$in5
  vcipherlast$out6,$out6,$in6
  vcipherlast$out7,$out7,$in7

le?vperm$out0,$out0,$out0,$inpperm
le?vperm$out1,$out1,$out1,$inpperm
stvx_u$out0,$x00,$out
le?vperm$out2,$out2,$out2,$inpperm
stvx_u$out0,$x10,$out
le?vperm$out3,$out3,$out3,$inpperm
stvx_u$out2,$x20,$out
le?vperm$out4,$out4,$out4,$inpperm
stvx_u$out3,$x30,$out
le?vperm	$out5,$out5,$out5,$inpperm
stvx_u	$out4,$x40,$out
le?vperm	$out6,$out6,$out6,$inpperm
stvx_u	$out5,$x50,$out
le?vperm	$out7,$out7,$out7,$inpperm
stvx_u	$out6,$x60,$out
stvx_u	$out7,$x70,$out
addi	$out,$out,0x80
bLctr32_enc8x_done

.align 5
Lctr32_enc8x_seven:
vcipherlast	$out0,$out0,$in1
vcipherlast	$out1,$out1,$in2
vcipherlast	$out2,$out2,$in3
vcipherlast	$out3,$out3,$in4
vcipherlast	$out4,$out4,$in5
vcipherlast	$out5,$out5,$in6
vcipherlast	$out6,$out6,$in7

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

.align 5
Lctr32_enc8x_six:
vcipherlast	$out0,$out0,$in2
vcipherlast	$out1,$out1,$in3
vcipherlast	$out2,$out2,$in4
vcipherlast	$out3,$out3,$in5
vcipherlast	$out4,$out4,$in6
vcipherlast	$out5,$out5,$in7

le?vperm	$out0,$out0,$out0,$inpperm
le?vperm	$out1,$out1,$out1,$inpperm
stvx_u	out0,$x00,Out
le?vperm	out2,Out2,Out2,Inpperm
stvx_u	Out1,$x10,Out
le?vperm	Out3,Out3,Out3,Inpperm
stvx_u	Out2,$x20,Out
le?vperm	Out4,Out4,Out4,Inpperm
stvx_u	Out3,$x30,Out
le?vperm	Out5,Out5,Out5,Inpperm
stvx_u	Out4,$x40,Out
addi	Out,Out,0x60
bLctr32_enc8x_done

.align 5
Lctr32_enc8x_five:
vcipherlast	out0,Out0,In3
vcipherlast	out1,Out1,In4
vcipherlast	out2,Out2,In5
vcipherlast	out3,Out3,In6
vcipherlast	out4,Out4,In7
le?vperm	out0,Out0,Out0,Inpperm
le?vperm	out1,Out1,Out1,Inpperm
stvx_u	Out0,$x00,Out
le?vperm	Out2,Out2,Out2,Inpperm
stvx_u	Out1,$x10,Out
le?vperm	Out3,Out3,Out3,Inpperm
stvx_u	Out2,$x20,Out
le?vperm	Out4,Out4,Out4,Inpperm
stvx_u	Out3,$x30,Out
stvx_u	Out4,$x40,Out
addiOut,Out,0x50
bLctr32_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
bLctr32_enc8x_done

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

le?vperm$out0,$out0,$out0,$inperm
le?vperm$out1,$out1,$out1,$inperm
stvx_u$out0,$x00,$out
le?vperm$out2,$out2,$out2,$inperm
stvx_u$out1,$x10,$out
stvx_u$out2,$x20,$out
addi$out,$out,0x30
bLcbc_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
bLcbc_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
addi11,r11,32
stvx$inpperm,r10,$sp
addi10,r10,32
stvx$inpperm,r11,$sp
addi11,r11,32
stvx$inpperm,r10,$sp
addi10,r10,32
stvx$inpperm,r11,$sp
addi11,r11,32

mtspr256,$vrsave
lvx20,r10,$sp # ABI says so
addi10,r10,32
lvx21,r11,$sp
addi11,r11,32
lvx22,r10,$sp
addi10,r10,32
lvx23,r11,$sp
addi11,r11,32
lvx24,r10,$sp
addi10,r10,32
lvx25,r11,$sp
addi11,r11,32
lvx26,r10,$sp
addi10,r10,32
lvx27,r11,$sp
addi11,r11,32
lvx28,r10,$sp
addi10,r10,32
lvx29,r11,$sp
addi11,r11,32
lvx30,r10,$sp
lvx31,r11,$sp
SPOPr26,'$FRAME+21*16+0*SIZE_T'($sp)
SPOPr27,'$FRAME+21*16+1*SIZE_T'($sp)
SPOPr28,'$FRAME+21*16+2*SIZE_T'($sp)
SPOPr29,'$FRAME+21*16+3*SIZE_T'($sp)
SPOPr30,'$FRAME+21*16+4*SIZE_T'($sp)
SPOPr31,'$FRAME+21*16+5*SIZE_T'($sp)
addiSp,$sp,'$FRAME+21*16+6*SIZE_T'
blr
.long0
.byte0,12,0x04,0,0x80,6,6,0
.long0
.size.${prefix}_ctr32_encrypt_blocks,-.${prefix}_ctr32_encrypt_blocks

____
}}}))}


{{{
# XTS procedures

my ($inp,$out,$len,$key1,$key2,$ivp,$rounds,$idx) = map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout) = map("v$_",(0..2));
my ($output,$inptail,$inpperm,$leperm,$keyperm) = map("v$_",(3..7));
my ($tweak,$seven,$eighty7,$tmp,$tweak1) = map("v$_",(8..12));
my $taillen = $key2;

($inp,$idx) = ($idx,$inp); # reassign

code.=<<___:
.globl.$[prefix]_xts_encrypt
.align5
.$[prefix]_xts_encrypt:

mr$inp,r3 # reassign
li3,-1
${UCMP}i$len,16
bltrl-

lisr0,0xffff
mfspr12,256# save vrsave
li11.0
mtspr256,r0

vsplitisb$seven,0x07 0x070707..07
le?lvxlepermr11,r11
le?vsplitisbtjmp,0x0f
le?vxorlepermsleperm,$seven

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

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

negr11,$inp
lvx$inpperm,0,r11# prepare for unaligned load
lvx$inptail,0,$inp
addi$inp,$inp,15# 15 is not typo
le?vxor$inpperm,$inpperm,$tmp

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

ltweak_xts_enc:
?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$tweak,$tweak,$rndkey1
lvx$rndkey1,$idx,$key2
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher$tweak,$tweak,$rndkey0
lvx$rndkey0,$idx,$key2
addi$idx,$idx,16
bdnzLtweak_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

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

$[UCMP]i$len,96
bge_aesp8_xts_encrypt6x

andi.$taillen,$len,15
subic$r,$len,32
subi$taillen,$taillen,16
subfer0,r0,r0
andr0,r0,$taillen
add$inp,$inp,r0

1vx$rndkey0,0,$key1
1vx$rndkey1,$idx,$key1
add$idx,$idx,16
vperm$sinout,$inout,$sinptail,$inpperm
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$sinout,$inout,$tweak
vxor$sinout,$inout,$rndkey0
1vx$rndkey0,$idx,$key1
add$idx,$idx,16
mtctr$rounds
b Loop_xts_enc

.align5
Loop_xts_enc:
?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$sinout,$inout,$rndkey1
1vx$rndkey1,$idx,$key1
add$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher$sinout,$inout,$rndkey0
1vx$rndkey0,$idx,$key1
add$idx,$idx,16
bdnz Loop_xts_enc

?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$sinout,$inout,$rndkey1
1vx$rndkey1,$idx,$key1
li$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$rndkey0,$rndkey0,$tweak
vcipher_last$output,$inout,$rndkey0

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

subic.$len,$len,16
beq L_xts_enc_done

vmr$sinout,$sinptail
1vx$sinptail,0,$inp
add$inp,$inp,16
lvx$rndkey0,0,$key1
lvx$rndkey1,$idx,$key1
addi$idx,$idx,16

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

vsrab$tmp,$tweak,$seven  # next tweak value
vaddubm$tweak,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
vand$tmp,$tmp,$eighty7
vxor$tweak,$tweak,$tmp

vperm$inout,$inout,$inptail,$sinperm
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$inout,$inout,$tweak
vxor$output,$output,$rndkey0# just in case $len<16
vxor$inout,$inout,$rndkey0
1vx$rndkey0,$idx,$key1
addi$idx,$idx,16

mtctr$rounds
/${UCMP}i$len,16
bgeLoop_xts_enc

vxor$output,$output,$tweak
1vrsinperm,0,$len# $sinperm is no longer needed
vxor$inptail,$inptail,$inptail# $inptail is no longer needed
vspltisb$tmp,-1
vperm$inptail,$inptail,$tmp,$sinperm
vsel$inout,$inout,$output,$inptail

subi$r11,$out,17
subi$out,$out,16
mtctr$len
li$len,16
Loop_xts_enc_steal:
1bzur0,1(r11)
stbr0,16(r11)
bdnzLoop_xts_enc_steal

mtctr$rounds
bLoop_xts_enc# one more time...

Lxts_enc_done:
mtspr256,r12# restore vrsave
li r3, 0
blr
.long 0
.byte 0, 0, 0x04, 0, 0x80, 6, 6, 0
.long 0
.size .{prefix}_xts_encrypt, .-{prefix}_xts_encrypt

.globl .{prefix}_xts_decrypt
.align 5
.{prefix}_xts_decrypt:
   mr $inp, r3 # reassign
   li r3, -1
   ${UCMP}i $len, 16
   blblr-

   lisr 0, 0xfff8
   mfspr 12, 256 # save vrsave
   li r11, 0
   mt spr 256, r0

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

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

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

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

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

---

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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
bdnzLtweak_xts_dec

?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$tweak,$tweak,$rndkey1
lvx$rndkey1,$idx,$key2
li$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher$last$tweak,$tweak,$rndkey0

lvx$inptail,0,$inp
addi$inp,$inp,16

?vsl$keyperm,0,$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
vsplitb$tmp,1# 0x010101..01
vsldoi$eighty7,$eighty7,$tmp,15# 0x870101..01

$[UCMP]$len,96
bge_aes_p8_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,$rndkey0
1vx$rndkey0,$idx,$key1
addi$idx,$idx,16
mtcr$srounds

$(UCMP)i$len,16
blt$Ltail_xts_dec
be?bLoop_xts_dec

.align 5
Loop_xts_dec:
?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher$inout,$inout,$rndkey1
1vx$rndkey1,$idx,$key1
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher$inout,$inout,$rndkey0
1vx$rndkey0,$idx,$key1
addi$idx,$idx,16
bdnzLoop_xts_dec

?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher$inout,$inout,$rndkey1
1vx$rndkey1,$idx,$key1
li$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$rndkey0,$rndkey0,$tweak
vncipherlast$output,$inout,$rndkey0

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

subic.$len,$len,16
beq$Lxts_dec_done

vmr$inout,$inptail
1vx$inptail,0,$inp
addi$inp,$inp,16
1vx$rndkey0,0,$key1
1vx$rndkey1,$idx,$key1
addi$idx,$idx,16
vsrab$tmp,$tweak,$seven
vaddubm$tweak,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
vand$tmp,$tmp,$eighty7
vxor$tweak,$tweak,$tmp
vperm$inout,$inout,$inptail,$inpperm
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$inout,$inout,$tweak
vxor$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key1
addi$idx,$idx,16
mtctr$rounds
${UCMP}i$len,16
bgeLoop_xts_dec

L.tail_xts_dec:
vsrab$tmp,$tweak,$seven
vaddubm$tweak1,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
vand$tmp,$tmp,$eighty7
vxor$tweak1,$tweak1,$tmp
subi$inp,$inp,16
add$inp,$inp,$len
vxor$inout,$inout,$tweak # :-(
vxor$inout,$inout,$tweak1 # :-)

Loop_xts_dec_short:
?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher$inout,$inout,$rndkey1
lvx$rndkey1,$idx,$key1
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key1
addi$idx,$idx,16
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			$tmp,0,$output
be?stvx_u					$output,0,$output

vmr		$inout,$sinptail
lvx				$sinptail,0,$inp
#addi		$inp,$inp,16
lvx		$rndkey0,0,$key1
lvx		$rndkey1,$idx,$key1
addi		$idx,$idx,16
vperm		$inout,$inptail,
inpperm
?vperm		$rndkey0,$rndkey0,$rndkey1,$keyperm

lvx
sinptail,$len# $inpperm is no longer needed
vxor
sinptail,$inptail# $inptail is no longer needed
vsplitisb	$tmp,-1
vperm		$inptail,$inptail,$tmp,$inpperm
vsel		$inout,$inout,$output,$inptail

vxor		$rndkey0,$rndkey0,$tweak
vxor		$inout,$sinout,$rndkey0
lvx		$rndkey0,$idx,$key1
addi		$idx,$idx,16
subi		r11,$out,1
mtctr		$len
li		$len,16
Loop_xts_dec_steal:
lbzu		r0,1(r11)
stb		r0,16(r11)
bdnz		Loop_xts_dec_steal

mtctr		$rounds
b		Loop_xts_dec# one more time...

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

#########################################################################
{{
# Optimized XTS procedures
						

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#########################################################################
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
$x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5 )=map("v$_",(0..5));
my ($out0, $out1, $out2, $out3, $out4, $out5)=map("v$_",(7,12..16));
my ($twk0, $twk1, $twk2, $twk3, $twk4, $twk5)=map("v$_",(17..22));
my $rndkey0="v23";
# v24-v25 rotating buffer for first found keys
# v26-v31 last 6 round keys
my ($keyperm)=($out0);
my $taillen=$x70;

$code.=<<___;
.align5
_aesp8_xts_encrypt6x:
$STU		$sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
mflr0
li7,’$FRAME+8*16+15’
li8,’$FRAME+8*16+31’
$PUSHr0,’$FRAME+21*16+6*$SIZE_T+$LRSAVE’($sp)

stvx20,r7,$sp	# ABI says so
addi7,r7,32
stvx21,r8,$sp
addir8,r8,32
stvx22,r7,3sp
addir7,r7,32
stvx23,r8,$sp
addir8,r8,32
stvx24,r7,3sp
addir7,r7,32
stvx25,r8,$sp
addir8,r8,32
stvx26,r7,3sp
addir7,r7,32
stvx27,r8,$sp
addir8,r8,32
stvx28,r7,3sp
addir7,r7,32
stvx29,r8,$sp
addir8,r8,32
stvx30,r7,3sp
stvx31,r8,$sp

mr7,r0
li0,-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$x30,0x30
SPUSHr28,`$FRAME+21*16+2*$SIZE_T`($sp)
li$x40,0x40
SPUSHr29,`$FRAME+21*16+3*$SIZE_T`($sp)
li$x50,0x50
SPUSHr30,`$FRAME+21*16+4*$SIZE_T`($sp)
li$x60,0x60
SPUSHr31,`$FRAME+21*16+5*$SIZE_T`($sp)
li$x70,0x70
mtspr256,r0

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

li$x30,$x00,$key1# load key schedule
livx30,$x10,$key1
addi$key1,$key1,0x20
livx31,$x00,$key1
?vperm$rndkey0,$rndkey0,v30,$keyperm
addi$key_,$sp,$FRAME+15
mtcrr$rounds

Load_xts_enc_key:
?vpermv24,v30,v31,$keyperm
livx30,$x10,$key1
addi$key1,$key1,0x20
stvxv24,$x00,$key_ # off-load round[1]
?vpermv25,v31,v30,$keyperm
livx31,$x00,$key1
stvxv25,$x10,$key_ # off-load round[2]
addi$key_,$sp,$FRAME+15
bdnzLoad_xts_enc_key

livxv26,$x10,$key1
?vpermv24,v30,v31,$keyperm
livxv27,$x20,$key1
stvxv24,$x00,$key_ # off-load round[3]
?vpermv25,v31,v26,$keyperm
livxv28,$x30,$key1
stvxv25,$x10,$key_ # off-load round[4]
addi$key_,$sp,$FRAME+15# rewind $key_
?vpermv26,v26,v27,$keyperm
livxv29,$x40,$key1
?vpermv27,v27,v28,$keyperm
livxv30,$x50,$key1
?vpermv28,v28,v29,$keyperm
livxv31,$x60,$key1
?vpermv29,v29,v30,$keyperm
livx$twk5,$x70,$key1# borrow $twk5
?vpermv30,v30,v31,$keyperm
lvxv24,$x00,$key_ # pre-load round[1]
?vpermv31,v31,$twk5,$keyperm
lvxv25,$x10,$key_ # pre-load round[2]

$vperm\sin0,\sinout,\sinptail,\sinpperm$
$subi\sinp,\sinp,31# undo “caller”
$vxor\stwk0,\stweak,\srdkey0$
$vrsab\tmp,\stweak,\$seven# next tweak value$
$vaddubm\stweak,\$stweak,\$stweak$
$vsldoi\tmp,\$tmp,\$tmp,15$
$vand\tmp,\$tmp,\$eighty7$
$vxor\sout0,\sin0,\$twk0$
$vxor\stweak,\$stweak,\$tmp$

$lvx\_u\sin1,5\times10,\$inp$
$vxor\stwk1,\stweak,\srdkey0$
$vrsab\tmp,\stweak,\$seven# next tweak value$
$vaddubm\stweak,\$stweak,\$stweak$
$vsldoi\tmp,\$tmp,\$tmp,15$
$le?vperm\sin1,\sin1,\sin1,\slperm$
$vand\tmp,\$tmp,\$eighty7$
$vxor\sout1,\sin1,\$twk1$
$vxor\stweak,\$stweak,\$tmp$

$lvx\_u\sin2,5\times20,\$inp$
$andi.\staillen,\$len,15$
$vxor\stwk2,\$stweak,\srdkey0$
$vrsab\tmp,\stweak,\$seven# next tweak value$
$vaddubm\stweak,\$stweak,\$stweak$
$vsldoi\tmp,\$tmp,\$tmp,15$
$le?vperm\sin2,\sin2,\sin2,\slperm$
$vand\tmp,\$tmp,\$eighty7$
$vxor\sout2,\sin2,\$twk2$
$vxor\stweak,\$stweak,\$tmp$

$lvx\_u\sin3,5\times30,\$inp$
$sub\$len,\$len,\staillen$
$vxor\stwk3,\$stweak,\srdkey0$
$vrsab\tmp,\stweak,\$seven# next tweak value$
$vaddubm\stweak,\$stweak,\$stweak$
$vsldoi\tmp,\$tmp,\$tmp,15$
$le?vperm\sin3,\sin3,\sin3,\slperm$
$vand\tmp,\$tmp,\$eighty7$
$vxor\sout3,\sin3,\$twk3$
$vxor\stweak,\$stweak,\$tmp$

$lvx\_u\sin4,5\times40,\$inp$
subi$len,$len,0x60
vxor$twk4,$tweak,$rndkey0
vsrab$tmpl,$tweak,$seven# next tweak value
vaddub$m$tweak,$tweak,$tweak
vsldoi$tmpl,$tmpl,$tmpl,15
le?$perm$sin4,$sin4,$sin4,$leperm
vand$tmpl,$tmpl,$eighty7
vxor$out4,$in4,$twk4
vxor$twk,$tweak,$tmpl

lvx$_sin5,$x50,$in4
addi$in4,$in4,0x60
vxor$twk5,$tweak,$rndkey0
vsrab$tmpl,$tweak,$seven# next tweak value
vaddub$m$tweak,$tweak,$tweak
vsldoi$tmpl,$tmpl,$tmpl,15
le?$perm$sin5,$sin5,$sin5,$leperm
vand$tmpl,$tmpl,$eighty7
vxor$out5,$in5,$twk5
vxor$twk,$tweak,$tmpl
vxor$31,v31,$rndkey0
mtctr$rounds
bLoop_xts_enc6x

.align5
Loop_xts_enc6x:
vcipher$out0,$out0,v24
vcipher$out1,$out1,v24
vcipher$out2,$out2,v24
vcipher$out3,$out3,v24
vcipher$out4,$out4,v24
vcipher$out5,$out5,v24
lvx$v24,$x20,$key_# round[3]
addi$key_,$key_,0x20
vcipher$out0,$out0,v25
vcipher$out1,$out1,v25
vcipher$out2,$out2,v25
vcipher$out3,$out3,v25
vcipher$out4,$out4,v25
vcipher$out5,$out5,v25
lvx$v25,$x10,$key_# round[4]
bdnzLoop_xts_enc6x
subi$len,$len,96# $len=-96
vxor$sin0,$twk0,v31# xor with last round key
vcipher$out0,$out0,v24
vcipher\$out1,\$out1,v24
vsrab\$tmp,\$st\w0,\$se\w7
vxor\$twk0,\$st\w0,\$rnd\w0
vaddubm\$st\w0,\$st\w0,\$st\w0
vcipher\$out2,\$out2,v24
vcipher\$out3,\$out3,v24
vsldoi\$tmp,\$tmp,\$tmp,15
vcipher\$out4,\$out4,v24
vcipher\$out5,\$out5,v24

subfeb\$r0,\$r0,\$r0\# borrow? -1:0
vand\$tmp,\$tmp,\$eight\w07
vcipher\$out0,\$out0,v25
vcipher\$out1,\$out1,v25
vxor\$st\w0,\$st\w0,\$st\w0
vcipher\$out2,\$out2,v25
vcipher\$out3,\$out3,v25
vxor\$st\w1,\$st\w1,\$st\w1,v31
vsrab\$tmp,\$st\w0,\$se\w7\# next tweak value
vxor\$twk1,\$st\w0,\$rnd\w0
vcipher\$out4,\$out4,v25
vcipher\$out5,\$out5,v25

and\$r0,\$\l3n
vaddubm\$st\w0,\$st\w0,\$st\w0
vsldoi\$tmp,\$tmp,\$tmp,15
vcipher\$out0,\$out0,v26
vcipher\$out1,\$out1,v26
vand\$tmp,\$tmp,\$eight\w07
vcipher\$out2,\$out2,v26
vcipher\$out3,\$out3,v26
vxor\$st\w0,\$st\w0,\$st\w0
vcipher\$out4,\$out4,v26
vcipher\$out5,\$out5,v26

add\$inp,\$inp,\$r0\# \$inp is adjusted in such
# way that at exit from the
# loop inX-in5 are loaded
# with last "words"
vxor\$in2,\$twk2,v31
vsrab\$tmp,\$st\w0,\$se\w7\# next tweak value
vxor\$twk2,\$st\w0,\$rnd\w0
vaddubm\$st\w0,\$st\w0,\$st\w0
vcipher\$out0,\$out0,v27
vcipher\$out1,\$out1,v27
vsldoi\$tmp,\$tmp,\$tmp,15
vcipher\$out2,\$out2,v27
vcipher\$out3,\$out3,v27
vand$tmp,$tmp,$eighty7
vcipher$out4,$out4,v27
vcipher$out5,$out5,v27

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,$tweak
vsldoir$tmp,$tmp,$tmp,15
vcipher$out4,$out4,v28
vcipher$out5,$out5,v28
lvx24,$x00,$key_ # re-pre-load round[1]
vand$tmp,$tmp,$eighty7

vcipher$out0,$out0,v29
vcipher$out1,$out1,v29
vxor$tweak,$tweak,$tmp
vcipher$out2,$out2,v29
vcipher$out3,$out3,v29
vxor$sin4,$twk4,v31
vsrab$tmp,$tweak,$seven # next tweak value
vxor$twk4,$tweak,$rndkey0
vcipher$out4,$out4,v29
vcipher$out5,$out5,v29
lvx25,$x10,$key_ # re-pre-load round[2]
vaddubm$tweak,$tweak,$tweak
vsldoir$tmp,$tmp,$tmp,15

vcipher$out0,$out0,v30
vcipher$out1,$out1,v30
vand$tmp,$tmp,$eighty7
vcipher$out2,$out2,v30
vcipher$out3,$out3,v30
vxor$tweak,$tweak,$tmp
vcipher$out4,$out4,v30
vcipher$out5,$out5,v30
vxor$sin5,$twk5,v31
vsrab$tmp,$tweak,$seven # next tweak value
vxor$twk5,$tweak,$rndkey0

vcipherlast$out0,$out0,$in0
lvx_u$sin0,$x00,$inp # load next input block
vaddubm$tweak, $tweak, $tweak
vsldoi$tmp, $tmp, $tmp, 15
vcipherlast$out1, $out1, $in1
lvx_u$in1, $x10, $inp
vcipherlast$out2, $out2, $in2
le?vperm$in0, $in0, $in0, $leperm
lvx_u$in2, $x20, $inp
vcipherlast$out3, $out3, $in3
le?vperm$in1, $in1, $in1, $leperm
lvx_u$in3, $x30, $inp
vcipherlast$out4, $out4, $in4
le?vperm$in2, $in2, $in2, $leperm
lvx_u$in4, $x40, $inp
vxor$tweak, $tweak, $tmp
vcipherlast$tmp, $out5, $in5# last block might be needed
# in stealing mode
le?vperm$in3, $in3, $in3, $leperm
lvx_u$in5, $x50, $inp
addi$inp, $inp, 0x60
le?vperm$in4, $in4, $in4, $leperm
le?vperm$in5, $in5, $in5, $leperm
le?vperm$out0, $out0, $out0, $leperm
le?vperm$out1, $out1, $out1, $leperm
stvx_u$out0, $x00, $out# store output
vxor$out0, $in0, $twk0
le?vperm$out2, $out2, $out2, $leperm
stvx_u$out1, $x10, $out
vxor$out1, $in1, $twk1
le?vperm$out3, $out3, $out3, $leperm
stvx_u$out2, $x20, $out
vxor$out2, $in2, $twk2
le?vperm$out4, $out4, $out4, $leperm
stvx_u$out3, $x30, $out
vxor$out3, $in3, $twk3
le?vperm$out5, $tmp, $tmp, $leperm
stvx_u$out4, $x40, $out
vxor$out4, $in4, $twk4
le?stvx_u$out5, $x50, $out
be?stvx_u$tmp, $x50, $out
vxor$out5, $in5, $twk5
addi$out, $out, 0x60

mtctr$rounds
beq Loop_xts_enc6x# did $len-=96 borrow?
addi$len, $len, 0x60
beq Lxts_enc6x_zero
cmpwi $len, 0x20
bl Lxts_enc6x_one
nop
beq Lxts_enc6x_two
cmpwi $len, 0x40
bl 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, 0x00, $out # store output
le?vperm $out2, $out2, $out2, $leperm
stvx u $out1, 0x10, $out
le?vperm $out3, $out3, $out3, $leperm
stvx u $out2, 0x20, $out
vxor $tmp, $out4, $twk5 # last block prep for stealing
le?vperm $out4, $out4, $out4, $leperm
stvx u $out3, 0x30, $out
stvx u $out4, 0x40, $out
addi $out, $out, 0x50
bne Lxts_enc6x_steal
bl Lxts_enc6x_done

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

bl aesp8_xts_enc5x

le?vperm $out0, $out0, $out0, $leperm
vmr $twk0, $twk4 # unused tweak
le?vperm $out1, $out1, $out1, $leperm
stvx_u out0,$x00,$out# store output
le?vperm out1,out2,out2,$leperm
stvx_u out1,$x10,$out
vxor tmp,out3,$twk4# last block prep for stealing
le?vperm out3,out3,out3,$leperm
stvx_u out3,$x20,$out
stvx_u out3,$x30,$out
addi out, out, 0x40
bne Lxts_enc6x_steal
b Lxts_enc6x_done
.align 4
Lxts_enc6x_three:
vxor out0,in3,twk0
vxor out1,in4,twk1
vxor out2,in5,twk2
vxor out3,out3,out3
vxor out4,out4,out4
bl_aesp8_xts_enc5x
le?vperm out0,out0,out0,$leperm
vmr twk0,twk3# unused tweak
le?vperm out1,out1,out1,$leperm
stvx_u out0,$x00,$out# store output
vxor tmp,out2,$twk3# last block prep for stealing
le?vperm out2,out2,out2,$leperm
stvx_u out1,$x10,$out
stvx_u out2,$x20,$out
addi out, out, 0x30
bne Lxts_enc6x_steal
b Lxts_enc6x_done
.align 4
Lxts_enc6x_two:
vxor out0,in4,twk0
vxor out1,in5,twk1
vxor out2,out2,out2
vxor out3,out3,out3
vxor out4,out4,out4
bl_aesp8_xts_enc5x
le?vperm out0,out0,out0,$leperm
vmr twk0,twk2# unused tweak
vxor tmp,out1,$twk2# last block prep for stealing
le?vperm out1,out1,out1,$leperm
stvx_u out0,$x00,$out# store output
stvx_uoutine,$x10,out
addi$outine,out,0x20
bneLxts_enc6x_steal
bLxts_enc6x_done

.align4
Lxts_enc6x_one:
vxor$outine0,sin5,$twk0
nop
Loop_xts_enc1x:
vcipher$outine0,$outine0,v24
lvxv24,$x20,$key_ # round[3]
addi$key_,$key_0x20
vcipher$outine0,$outine0,v25
lvxv25,$x10,$key_ # round[4]
bdnzLoop_xts_enc1x

add$inps,inp,$taillen
cmpeq$taillen,0
vcipher$outine0,$outine0,v24

subi$inps,inp,16
vcipher$outine0,$outine0,v25

lvr$inpperm0,$taillen
vcipher$outine0,$outine0,v26
lvx_u$in00,inp
vcipher$outine0,$outine0,v27

addi$key_,$sp,$FRAME+15 # rewind $key_
vcipher$outine0,$outine0,v28
lvxv24,$x00,$key_ # re-pre-load round[1]

vcipher$outine0,$outine0,v29
lvxv25,$x10,$key_ # re-pre-load round[2]
vxor$twk0,$twk0,v31

le?vperm$in0,$in0,$in0,$leperm
vcipher$outine0,$outine0,v30

vperm$in0,$in0,$in0,$inpperm
vcipherlast$outine0,$outine0,$twk0

vmr$twk0,$twk1 # unused tweak
vxor$tmp,$out0,$twk1 # last block prep for stealing
le?vperm$outine0,$outine0,$outine0,$leperm
stvx_u$out0,$x00,$out	# store output
addi$out,$out,0x10
bneLxts_enc6x_steal
bLxts_enc6x_done

.align4
Lxts_enc6x_zero:
cmpwi$taillen,0
beqLxts_enc6x_done

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

subi$r3,$out,17
subi$out,$out,16
mtctr$taillen
Loop_xts_enc6x_steal:
lbzur0,1(r3)
stbbr0,16(r3)
bdnzLoop_xts_enc6x_steal

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

.align4
Lxts_enc6x_done:
mtdfr7
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
addi r11, r11, 32
stvx $seven, r10, $sp
addi r10, r10, 32
stvx $seven, r11, $sp
addi r11, r11, 32
stvx $seven, r10, $sp
addi r10, r10, 32
stvx $seven, r11, $sp
addi r11, r11, 32
mtspr 256, $vrsave
lvx v20, r10, $sp  # ABI says so
addi r10, r10, 32
lvx v21, r11, $sp
addi r11, r11, 32
lvx v22, r10, $sp
addi r10, r10, 32
lvx v23, r11, $sp
addi r11, r11, 32
lvx v24, r10, $sp
addi r10, r10, 32
lvx v25, r11, $sp
addi r11, r11, 32
lvx v26, r10, $sp
addi r10, r10, 32
lvx v27, r11, $sp
addi r11, r11, 32
lvx v28, r10, $sp
addi r10, r10, 32
lvx v29, r11, $sp
addi r11, r11, 32
lvx v30, r10, $sp
lvx v31, r11, $sp
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 0, 12, 0x04, 1, 0x80, 6, 6, 0
.long 0
.align 5
_aesp8_xts_enc5x:
vcipher $out0, $out0, v24
vcipher\$out1,\$out1,v24
vcipher\$out2,\$out2,v24
vcipher\$out3,\$out3,v24
vcipher\$out4,\$out4,v24
lvx\$x24,0x20,\$key_  round[3]
add\$key_ ,\$key_ ,0x20

vcipher\$out0,\$out0,v25
vcipher\$out1,\$out1,v25
vcipher\$out2,\$out2,v25
vcipher\$out3,\$out3,v25
vcipher\$out4,\$out4,v25
lvx\$x25,0x10,\$key_  round[4]
bdnz_aesp8_xts_enc5x

add\$inp,\$inp,\$taillen
cmpwi\$taillen,0
vcipher\$out0,\$out0,v24
vcipher\$out1,\$out1,v24
vcipher\$out2,\$out2,v24
vcipher\$out3,\$out3,v24
vcipher\$out4,\$out4,v24
subi\$inp,\$inp,16
vcipher\$out0,\$out0,v25
vcipher\$out1,\$out1,v25
vcipher\$out2,\$out2,v25
vcipher\$out3,\$out3,v25
vcipher\$out4,\$out4,v25
vxor\$twk0,\$twk0,v31

vcipher\$out0,\$out0,v26
lvsr\$inpperm,r0,\$taillen$\$in5 is no more
vcipher\$out1,\$out1,v26
vcipher\$out2,\$out2,v26
vcipher\$out3,\$out3,v26
vcipher\$out4,\$out4,v26
vxor\$in1,\$twk1,v31

vcipher\$out0,\$out0,v27
lvx_u\$inp,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\$24,\$x00,\$key_ \# re-pre-load round[1]
vxor\$in3,\$twk3,v31

vcipher\$out0,\$out0,v29
le?\$perm\$in0,\$in0,\$in0,\$le\$perm
vcipher\$out1,\$out1,v29
vcipher\$out2,\$out2,v29
vcipher\$out3,\$out3,v29
vcipher\$out4,\$out4,v29
lvx\$25,\$x10,\$key_ \# re-pre-load round[2]
vxor\$in4,\$twk4,v31

vcipher\$out0,\$out0,v30
vperm\$in0,\$in0,\$in0,\$vperm
vcipher\$out1,\$out1,v30
vcipher\$out2,\$out2,v30
vcipher\$out3,\$out3,v30
vcipher\$out4,\$out4,v30

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

.align5
.aesp8_xts_decrypt6x:
\$STU\$sp,-`(\$FRAME+21*16+6*\$SIZE_T)`($sp)
mflrr0
li\$r7,`\$FRAME+8*16+15`
li\$r8,`\$FRAME+8*16+31`
SPUSHr0,`\$FRAME+21*16+6*\$SIZE_T+$LRSAVE`(\$sp)
stvx\$20,\$r7,\$sp# ABI says so
addir\$r7,\$r7,32
stvx\$21,\$r8,\$sp
addir\$r8,\$r8,32
stvx\$22,\$r7,\$sp
addir\$r7,\$r7,32
stvx\$23,\$r8,\$sp
addir\$r8,\$r8,32
stvxv24,r7,sp
addi7,r7,32
stvxv25,r8,sp
addi8,r8,32
stvxv26,r7,sp
addi7,r7,32
stvxv27,r8,sp
addi8,r8,32
stvxv28,r7,sp
addi7,r7,32
stvxv29,r8,sp
addi8,r8,32
stvxv30,r7,sp
stvxv31,r8,sp
mr7,r0
li0,-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
lvx31,$x00,$key1
stvx25,$x10,$key_ # off-load round[2]
addi$key_,$key_,0x20
bdnzLoad_xts_dec_key

lvx26,$x10,$key1
?vperm24,v30,v31,$keyperm
lvx27,$x20,$key1
stvx24,$x00,$key_ # off-load round[3]
?vperm25,v31,v26,$keyperm
lvx28,$x30,$key1
stvx25,$x10,$key_ # off-load round[4]
addi$key_,$sp,$FRAME+15# rewind $key_
?vperm26,v26,v27,$keyperm
lvx29,$x40,$key1
?vperm27,v27,v28,$keyperm
lvx30,$x50,$key1
?vperm28,v28,v29,$keyperm
lvx31,$x60,$key1
?vperm29,v29,v30,$keyperm
lvxtwk5,$x70,$key1# borrow Stwk5
?vperm30,v30,v31,$keyperm
lvx24,$x00,$key_ # pre-load round[1]
?vperm31,v31,$twk5,$keyperm
lvx25,$x10,$key_ # pre-load round[2]

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

1vx_u$sin1,$x10,$inp
vxor$twk1,$tweak,$rndkey0
vsrab$tmp,$tweak,$seven# next tweak value
vaddubm$tweak,$tweak,$tweak
vlsdoi$tmp,$tmp,$tmp,15
le?vperm$sin1,$sin1,$sin1,$leperm
vand$tmp,$tmp,$eighty7
vxor$out1,$sin1,$twk1
vxor$tweak,$tweak,$tmp

1vx_u$sin2,$x20,$inp
andi.$tailen,$len,15
vxor$twk2,$tweak,$rndkey0
vsrab$tmp,$tweak,$seven    # next tweak value
vaddubm$tweak,$tweak,$tweak
vsldoi$tmp,$tmp,$tmp,15
le?vperm$in2,$in2,$in2,$leperm
vand$tmp,$tmp,$eighty7
vxor$out2,$in2,$twk2
vxor$tweak,$tweak,$tmp

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

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

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

vxorv31,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
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
lvx25,$x10,$key_ # round[4]
bdnz Loop_xts_dec6x

subic $len,$len,-96	# $len-=96
vxor $in0,$twk0, v31 # xor with last round key
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vrcab $tmp,$tweak,$seven # next tweak value
vxor $twk1,$tweak,$rndkey0
vaddubm $tweak,$tweak,$tweak
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vsldoi $tmp,$tmp,$tmp,15
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24

subfe r0,r0,r0 # borrow?-1:0
vand $tmp,$tmp,$eighty7
vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vxor $stk,$twk,$tmp
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vxor $stk1,$stk1,$stk
vrcab $tmp,$tweak,$seven # next tweak value
vxor $stk1,$tweak,$rndkey0
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25

and $r0,r0,$len
vaddubm $tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vncipher $out0,$out0,v26
vncipher$out1,$out1.v26
vand$stamp,stamp,seighty7
vncipher$out2,$out2.v26
vncipher$out3,$out3.v26
vxor$tweak,tweak,stamp
vncipher$out4,$out4.v26
vncipher$out5,$out5.v26

add$inp,inp,ro# inp is adjusted in such
# way that at exit from the
# loop inX-in5 are loaded
# with last "words"
vxor$in2,$twk2,v31
vsrab$stamp,tweak,$seven# next tweak value
vxor$twk2,tweak,$rndkey0
vncipher$out0,$out0,v27
vncipher$out1,$out1,v27
vsldoi$tmp,$tmp,$tmp,15
vncipher$out2,$out2,v27
vncipher$out3,$out3,v27
vand$stamp,stamp,seighty7
vncipher$out4,$out4,v27
vncipher$out5,$out5,v27

add$key_,sp,$frame+15# rewind $key_
vxor$tweak,tweak,stamp
vncipher$out0,$out0,v28
vncipher$out1,$out1,v28
vxor$in3,$twk3,v31
vsrab$stamp,tweak,$seven# next tweak value
vxor$twk3,tweak,$rndkey0
vncipher$out2,$out2,v28
vncipher$out3,$out3,v28
vaddubm$tweak,tweak,tweak
vsldoi$tmp,$tmp,$tmp,15
vncipher$out4,$out4,v28
vncipher$out5,$out5,v28
lvvx24,$x00,$key_# re-pre-load round[1]
vand$stamp,stamp,seighty7

vncipher$out0,$out0,v29
vncipher$out1,$out1,v29
vxor$tweak,tweak,stamp
vncipher$out2,$out2,v29
vncipher$out3,$out3,v29
vxor$in4,$twk4,v31
vsrab$stamp,tweak,$seven# next tweak value
vxor $twk4,$tweak,$rndkey0
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
lvxv25,$x10,$key_ # re-pre-load round[2]
vaddubm $tweak,$tweak,$tweak
svldoi $tmp,$tmp,$tmp,15

vncipher $out0,$out0,v30
vncipher $out1,$out1,v30
vncipher $out2,$out2,v30
vncipher $out3,$out3,v30
vxor $tweak,$tweak,$tmp
vncipher $out4,$out4,v30
vncipher $out5,$out5,v30
vxor $in5,$twk5,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk5,$tweak,$rndkey0

vncipherlast $out0,$out0,$in0
lvx_u $in0,$x00,$in0 # load next input block
vaddubm $tweak,$tweak,$tweak
svldoi $tmp,$tmp,$tmp,15
vncipherlast $out1,$out1,$in1
lvx_u $in1,$x10,$in0
vncipherlast $out2,$out2,$in2
le?vperm $in0,$in0,$in0,$leperm
lvx_u $in2,$x20,$in0
vand $tmp,$tmp,$eighty7
vncipherlast $out3,$out3,$in3
le?vperm $in1,$in1,$in1,$leperm
lvx_u $in3,$x30,$in0
vncipherlast $out4,$out4,$in4
le?vperm $in2,$in2,$in2,$leperm
lvx_u $in4,$x40,$in0
vxor $tweak,$tweak,$tmp
vncipherlast $out5,$out5,$in5
le?vperm $in3,$in3,$in3,$leperm
lvx_u $in5,$x50,$in0
addi $in0,$in0,0x60
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$out5,$out5,$out5,$leperm
stvx_u$out4,$x40,$out
vxor$out4,$in4,$twk4
stvx_u$out5,$x50,$out
vxor$out5,$in5,$twk5
addi$out,$out,0x60

mtctr$rounds
beqLoop_xts_dec6x# did $len-=96 borrow?

addic.$len,$len,0x60
beqLxts_dec6x_zero
cmpwi$len,0x20
bltLxts_dec6x_one
nop
beqLxts_dec6x_two
cmpwi$len,0x40
bltLxts_dec6x_three
nop
beqLxts_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_aes8_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
bneLxts_dec6x_steal
bLxts_dec6x_done

.align4
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
bneLxts_dec6x_steal
bLxts_dec6x_done

.align4
Lxts_dec6x_three:
vxor\$out0,$in3,$twk0
vxor\$out1,$in4,$twk1
vxor\$out2,$in5,$twk2
vxor\$out3,$out3,$out3
vxor\$out4,$out4,$out4
bl_aesp8_xts_dec5x

le?vperm\$out0,$out0,$out0,$leperm
vmr\$twk0,$twk3 # unused tweak
vmr\$twk1,$twk4
le?vperm\$out1,$out1,$out1,$leperm
stvx_u\$out0,$x00,$out # store output
vxor\$out0,$in0,$twk4
le?vperm$out2,$out2,$out2,$leperm
stvx_u$out1,$x10,$out
stvx_u$out2,$x20,$out
addi$out,$out,0x30
bneLxts_dec6x_steal
bLxts_dec6x_done

.align4
Lxts_dec6x_two:
vxor$out0,$in4,$twk0
vxor$out1,$in5,$twk1
vxor$out2,$out2,$out2
vxor$out3,$out3,$out3
vxor$out4,$out4,$out4
bl_aesp8_xts_dec5x

le?vperm$out0,$out0,$out0,$leperm
vmr$twk0,$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

subi$r0,$taillen,1
vncipher$out0,$out0,v24

andi$r0,r0,16
cmpwi$taillen,0
vncipher$out0,$out0,v25
sub$inp,$inp,r0
vncipher$sout0,$out0,v26

lvx_u$in0,0,$inp
vncipher$sout0,$out0,v27

addi$key_,$sp,$FRAME+15	# rewind $key_
vncipher$sout0,$out0,v28
lvx24,$x00,$key_ # re-pre-load round[1]

vncipher$sout0,$out0,v29
lvx25,$x10,$key_ # re-pre-load round[2]
vxor$twk0,$twk0,v31

le?vperm$in0,$in0,$in0,$leperm
vncipher$sout0,$out0,v30

mtctr$rounds
vncipher$last$sout0,$out0,$twk0

vmr$twk0,$twk1,$twk0 # unused tweak
vmr$twk1,$twk2
le?vperm$sout0,$out0,$out0,$leperm
stvx_u$sout0,$x00,$out# store output
addi$out,$out,0x10
vxor$out0,$in0,$twk2
bne$Lxts_dec6x_steal
b$Lxts_dec6x_done

.align4
L_xts_dec6x_zero:
cmpwi$taillen,0
beq$Lxts_dec6x_done

lvx_u$in0,0,$inp
le?vperm$in0,$in0,$in0,$leperm
vxor$out0,$in0,$twk1
L_xts_dec6x_steal:
vncipher$sout0,$out0,v24
lvx24,$x20,$key_ # round[3]
addi$key_,$key_0x20

vncipher$sout0,$out0,v25
lvx25,$x10,$key_ # round[4]
bdnz$Lxts_dec6x_steal

add$inp,$inp,$taillen
vncipher$sout0,$out0,v24
cmpwi $staillen, 0
vncipher $out0, $out0, v25

lvx_u $in0, 0, $inp
vncipher $out0, $out0, v26

lvx $inpperm, 0, $staillen # $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
lvx25, $x10, $key_ # re-pre-load round[2]
vxor $twk1, $twk1, v31

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

vperm $in0, $in0, $in0, $inperm
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, $inperm
vsel $out0, $in0, $tmp, $out0
vxor $out0, $out0, $twk0

subir3, $out, 1
mtctr $staillen
Loop_xts_dec6x_steal:
lbzr0, 1(r3)
stbr0, 16(r3)
bdnz Loop_xts_dec6x_steal

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

.align 4
L_xts_dec6x_done:
mtlrr
lir10, $FRAME+15
lir11, $FRAME+31
stvx $seven, r10, $sp  # wipe copies of round keys
addi r10, r10, 32
stvx $seven, r11, $sp
addi r11, r11, 32
stvx $seven, r10, $sp
addi r10, r10, 32
stvx $seven, r11, $sp
addi r11, r11, 32
stvx $seven, r10, $sp
addi r10, r10, 32
stvx $seven, r11, $sp
addi r11, r11, 32
stvx $seven, r10, $sp
addi r10, r10, 32
stvx $seven, r11, $sp
addi r11, r11, 32

mtspr256, $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
SPOPr26, $FRAME+16+0*SIZE_T($sp)
SPOPr27, $FRAME+16+1*SIZE_T($sp)
SPOPr28, $FRAME+16+2*SIZE_T($sp)
SPOPr29, $FRAME+16+3*SIZE_T($sp)
SPOPr30, $FRAME+16+4*SIZE_T($sp)
SPOPr31, $FRAME+16+5*SIZE_T($sp)
addi $sp, $sp, `$FRAME+21*16+6*$SIZE_T`
blr
.long 0
.byte 0,12,0x04,1,0x80,6,6,0
.long 0
.align 5

_aesp8_xts_dec5x:
vncipher $out0, $out0, v24
vncipher $out1, $out1, v24
vncipher $out2, $out2, v24
vncipher $out3, $out3, v24
vncipher $out4, $out4, v24
lvx v24, $x20, $key_ # round[3]
addi $key_ $key_ 0x20
vncipher $out0, $out0, v25
vncipher $out1, $out1, v25
vncipher $out2, $out2, v25
vncipher $out3, $out3, v25
vncipher $out4, $out4, v25
lvx v25, $x10, $key_ # round[4]
bdnz _aesp8_xts_dec5x
subi $r0, $taillen, 1
vncipher $out0, $out0, v24
vncipher $out1, $out1, v24
vncipher $out2, $out2, v24
vncipher $out3, $out3, v24
vncipher $out4, $out4, v24
andi $r0, $r0, 16
cmpwi $taillen, 0
vncipher $out0, $out0, v25
vncipher $out1, $out1, v25
vncipher $out2, $out2, v25
vncipher $out3, $out3, v25
vncipher $out4, $out4, v25
vxor $twk0, $twk0, v31
sub $inp, $inp, $r0
vncipher $out0, $out0, v26
vncipher $out1, $out1, v26
vncipher $out2, $out2, v26
vncipher $out3, $out3, v26
vncipher $out4, $out4, v26
vxor $in1, $twk1, v31
vncipher$out0,$out0,v27
lvx_u$in0,0,$inp
vncipher$out1,$out1,v27
vncipher$out2,$out2,v27
vncipher$out3,$out3,v27
vncipher$out4,$out4,v27
vxor$in2,$twk2,v31
addi$key_,$sp,$FRAME+15 # rewind $key_
vncipher$out0,$out0,v28
vncipher$out1,$out1,v28
vncipher$out2,$out2,v28
vncipher$out3,$out3,v28
vncipher$out4,$out4,v28
lvx$v24,$x00,$key_ # re-pre-load round[1]
vxor$in3,$twk3,v31
le?vperm$in0,$in0,$in0,$leperm
vncipher$out0,$out0,v29
vncipher$out1,$out1,v29
vncipher$out2,$out2,v29
vncipher$out3,$out3,v29
vncipher$out4,$out4,v29
lvx$v25,$x10,$key_ # re-pre-load round[2]
vxor$in4,$twk4,v31
vncipher$out0,$out0,v30
vncipher$out1,$out1,v30
vncipher$out2,$out2,v30
vncipher$out3,$out3,v30
vncipher$out4,$out4,v30
vncipherlast$out0,$out0,$twk0
vncipherlast$out1,$out1,$in1
vncipherlast$out2,$out2,$in2
vncipherlast$out3,$out3,$in3
vncipherlast$out4,$out4,$in4
mtctr$rounds
blr
    .long 0
    .byte 0,12,0x14,0,0,0,0,0,0
___}
}

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\?/#be#/oor
s/\?lvsr/lvsl/oor
s/\?lvsl/lvsr/oor
s/\?(vperm\s+v[0-9]+,\s*)(v[0-9]+,\s*)(v[0-9]+,\s*)(v[0-9]+)/$1$3$2$4/o or
s/\?(vsldoi\s+v[0-9]+,\s*)(v[0-9]+,)\s*(v[0-9]+,\s*)([0-9]+)/$1$3$2 16-$4/o or
s/\?(vspltw\s+v[0-9]+,\s*)(v[0-9]+,)\s*([0-9])/$1$2 3-$3/o;
} else {# big-endian
s/le\?/#le#/oor
s/be\?//oor
s/\?([a-z]+)/$1/o;
}
print $_,"\n";
}

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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/aes/asm/aesp8-ppc.pl
No license file was found, but licenses were detected in source scan.

/ * =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
  * Copyright (c) 2010 The OpenSSL Project. All rights reserved.
  *
  * Redistribution and use is governed by OpenSSL license.
  */

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

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  * The implementation was written so as to conform with Netscapes SSL.
  *
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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_gf2m.c
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#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
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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

$0 =~ m/(.*[\/])[\^\M]+$/; $dir=$1;
  ($xlate="$dir ppc-xlate.pl" and -f $xlate ) or
  ($xlate="$dir ../../perlasm/ppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";

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

my ($Xip,$Htbl,$Sinp,$Slen)=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:
  lir0,-4096
  lir8,0x10
  mfspr$vrsave,256
  lir9,0x20
  mtspr256,r0
  lir10,0x30
  lvx_u$H,0,r4 # load H

  vspltisb$xC2,-16# 0xf0
  vspltisb$x0,1# one
  vaddubm$xC2,$xC2,$xC2# 0xe0
  vxor$zero,$zero,$zero
  vor$xC2,$xC2,$t0# 0xe1
  vsldoi$xX2,$xC2,$zero,15# 0xe1...
  vsldoi$t1,$zero,$t0,1# ...1
  vaddubm$xC2,$xC2,$xC2# 0xc2...
  vsplitbs$t2,7
  vor$x2,$xC2,$t1# 0xc2....01
  vsplitbs$t1,SH,0# most significant byte
  vsl$H,SH,$t0# H<<=1
  vsrah$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
lir8,0x40
stvx_u\$H, r9,r3
lir9,0x50
stvx_u\$Hh,r10,r3
lir10,0x60

vpmsumd\$Xl,\$IN,\$Hl# H.loH.lo
vpmsumd\$Xm,\$IN,\$H# H.hiH.lo+H.loH.hi
vpmsumd\$Xh,\$IN,\$Hh# H.hiH.hi

vpmsumd\$t2,\$Xl,\$xC2# 1st reduction phase

vsldoi\$t0,\$Xm,\$zero,8
vsldoi\$t1,\$zero,\$Xm,8
vxor\$Xl,\$Xl,\$t0
vxor\$Xh,\$Xh,\$t1

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

vsldoi\$t1,\$Xl,\$Xl,8# 2nd reduction phase
vpmsumd\$Xl,\$Xl,\$xC2
vxor\$t1,\$t1,\$Xh
vxor\$IN1,\$Xl,\$t1

vsldoi\$H2,\$IN1,\$IN1,8
vsldoi\$H2l,\$zero,\$H2,8
vsldoi\$H2h,\$H2,\$zero,8

stvx_u\$H2l,r8,r3# save H^2
lir8,0x70
stvx_u\$H2,r9,r3
lir9,0x80
stvx_u\$H2h,r10,r3
lir10,0x90

___
|
my (\$t4,\$t5,\$t6) = (\$H1,\$H,\$Hh);
$code.=<<___;
vpmsund\$xl,\$in,\$h2l\#  H.loH^2.lo
vpmsund\$xl1,\$in1,\$h2l\#  H^2.loH^2.lo
vpmsund\$xm,\$in,\$h2\#  H.hiH^2.lo+H.loH^2.hi
vpmsund\$xm1,\$in1,\$h2\#  H^2.hiH^2.lo+H^2.loH^2.hi
vpmsund\$xh,\$in,\$h2h\#  H.hiH^2.hi
vpmsund\$xh1,\$in1,\$h2h\#  H^2.hiH^2.hi

vpmsund\$t2,\$xl,\$xc2\#  1st reduction phase
vpmsund\$t6,\$xl1,\$xc2\#  1st reduction phase

vsldoi\$t0,\$xm,\$zero,8
vsldoi\$t1,\$zero,\$xm,8
vsldoi\$t4,\$xm1,\$zero,8
vsldoi\$t5,\$zero,\$xm1,8
vxor\$xl,\$xl,\$t0
vxor\$xh,\$xh,\$t1
vxor\$xl1,\$xl1,\$t4
vxor\$xh1,\$xh1,\$t5

vsldoi\$xl,\$xl,\$xl,8
vsldoi\$xl1,\$xl1,\$xl1,8
vxor\$xl,\$xl,\$t2
vxor\$xl1,\$xl1,\$t6

vsldoi\$t1,\$xl,\$xl1,8\#  2nd reduction phase
vsldoi\$t5,\$xl1,\$xl1,8\#  2nd reduction phase
vpmsund\$xl,\$xl,\$xc2
vpmsund\$xl1,\$xl1,\$xc2
vxor\$t1,\$t1,\$xh
vxor\$t5,\$t5,\$xh1
vxor\$xl,\$xl,\$t1
vxor\$xl1,\$xl1,\$t5

vsldoi\$h,\$xl,\$xl,8
vsldoi\$h2,\$xl1,\$xl1,8
vsldoi\$h,\$zero,\$h,8
vsldoi\$hh,\$h,\$zero,8
vsldoi\$h2,\$zero,\$h2,8
vsldoi\$h2h,\$h2,\$zero,8

stvx_u\$hl,\$r8,\$r3\#  save H^3
li\$r8,0xa0
stvx_u\$hr,\$r9,\$r3
li\$r9,0xb0
stvx_u\$hh,\$r10,\$r3
li\$r10,0xc0
stvx_u\$h2l,\$r8,\$r3\#  save H^4
stvx_u\$h2r,\$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

$code.=<<___;
.globl gcm_gmult_p8
.align5
.globl gcm_gmult_p8:
    li r0,0xffff8
    li r8,0x10
    mfspr$vrsave,256
    li r9,0x20
    mtspr256,r0
    li r10,0x30
    lvx_u$IN,0,$Xip# load Xi

    lvx_u$HI,r8,$Htbl# load pre-computed table
    le?lvsl$lemask,r0,r0
    lvx_u$HI, r9,$Htbl
    le?vshisb$t0,0x07
    lvx_u$HH,r10,$Htbl
    le?vxor$lemask,$lemask,$t0
    lvx_u$xC2,0,$Htbl
    le?vperm$IN,$IN,$IN,$lemask
    vxor$zero,$zero,$zero

    vpmsumd$XI,$IN,$HI# H.loXi.lo
    vpmsumd$Xm,$IN,$SH# H.hiXi.lo+H.loXi.hi
    vpmsumd$Xh,$IN,$SHh# 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
lir8,16
lvx_uSH2, r9,SHtbl
addr9,Sinp,Slen# end of input
lvx_uSH2h, r10,SHtbl
be?bLoop_2x

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

  subic$len,$len,32
  vpmsumdxl,$IN,$SH2# H^2.loXi.lo
  vpmsumdxl,$IN1,$SH1# H.loXi+1.lo
  subber0,ro,ro# borrow?-1:0
  vpmsumdxm,$IN,$SH2# H^2.hiXi.lo+H^2.loXi.hi
  vpmsumdxm,$IN1,$SH# H.hiXi+1.lo+H.loXi+1.hi
  andro0,ro,$len
  vpmsumdxh,$IN,$SH2h# H^2.hiXi.hi
  vpmsumdxh,$IN1,$SHh# H.hiXi+1.hi
  add$inp,$inp,ro

  vxor$Xl,$Xl,$Xl1
  vxor$Xm,$Xm,$Xm1

  vpmsumdst2,$Xl,$x$C2# 1st reduction phase

  vsldoir0,$Xm,$zero,8
  vsldoir1,$zero,$Xm,8
  vxor$Xh,$Xh,$Xh1
  vxor$Xl,$Xl,$Xl0
  vxor$Xh,$Xh,$Xt1

  vsldoir1,$Xl,$Xl,8
  vxor$Xl,$Xl,$Xt2
  lvx_u$IN,r8,$inp
  addi$inp,$inp,32

  vsldoir1,$Xl,$Xl,8# 2nd reduction phase
  vpmsumdxl,$x$C2
  le?vperm$IN,$IN,$IN,$lemask
  vxor$t1,$t1,$Xh
  vxor$IN,$IN,$t1
  vxor$IN,$IN,$Xl
  $UCMPr9,$inp
  bgtLoop_2x# done yet?

  cmplwi$len,0
bneLeven

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

vpmsumd$t2,$Xl,$xC2# 1st reduction phase
vsldoi$t0,$Xm,$zero,8
vsldoi$t1,$zero,$Xm,8
vxor$Xl,$Xl,$t0
vxor$Xh,$Xh,$t1

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

vsldoi$t1,$Xl,$Xl,8# 2nd reduction phase
vpmsumd$X1,$Xl,$xC2
vxor$t1,$t1,$Xh
vxor$t1,$t1,$Xl
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
stvxv20,r10,$sp
addir10,r10,32
stvxv21,r11,$sp
addi11, r11, 32
stvx22, r10, $sp
addi10, r10, 32
stvx23, r11, $sp
addi11, r11, 32
stvx24, r10, $sp
addi10, r10, 32
stvx25, r11, $sp
addi11, r11, 32
stvx26, r10, $sp
addi10, r10, 32
stvx27, r11, $sp
addi11, r11, 32
stvx28, r10, $sp
addi10, r10, 32
stvx29, r11, $sp
addi11, r11, 32
stvx30, r10, $sp
li10, 0x60
stvx31, r11, $sp
li0, -1
stw$vrsave, "$FRAME-4" ($sp)# save vrsave
mtspr256, r0# preserve all AltiVec registers

li$t0, 0, r8# 0x0001..0e0f
#lvx_uSH21, r8, $Htbl# load H^2
li8, 0x70
lvx_uSH2, r9, $Htbl
li9, 0x80
vsplitisb$t1, 8# 0x0808..0808
#lvx_uSH2h, r10, $Htbl
li10, 0x90
lvx_uSH3l, r8, $Htbl# load H^3
li8, 0xa0
lvx_uSH3, r9, $Htbl
li9, 0xb0
lvx_uSH3h, r10, $Htbl
li10, 0xc0
lvx_uSH4l, r8, $Htbl# load H^4
li8, 0x10
lvx_uSH4, r9, $Htbl
li9, 0x20
lvx_uSH4h, r10, $Htbl
li10, 0x30

vsldoi$t2, $zero, $t1, 8# 0x0000..0808
vaddubm$hiperm, $t0, $t2# 0x0001..1617
vaddubm$sloperm, $t1, $hiperm# 0x0809..1e1f
$SHRI\text{len},\text{len},4$ this allows to use sign bit
# as carry
lvx_u$IN0,0,\text{inp}$ load input
lvx_u$IN1,r8,\text{inp}$
subic.$\text{len},\text{len},8$
lvx_u$IN2,r9,\text{inp}$
lvx_u$IN3,r10,\text{inp}$
addi\text{inp},\text{inp},0x40
le?vperm$IN0,\text{IN0},\text{IN0},\text{lemask}$
le?vperm$IN1,\text{IN1},\text{IN1},\text{lemask}$
le?vperm$IN2,\text{IN2},\text{IN2},\text{lemask}$
le?vperm$IN3,\text{IN3},\text{IN3},\text{lemask}$
vxor$Xh,\text{IN0},\text{SXl}$

vpmsumd$X11,\text{IN1},\text{SH3l}$
vpmsumd$Xm1,\text{IN1},\text{SH3}$
vpmsumd$Xh1,\text{IN1},\text{SH3h}$

vperm$H21l,\text{SH2},\text{SH},\text{Shiperm}$
vperm$St0,\text{IN2},\text{IN3},\text{Shloperm}$
vperm$H21h,\text{SH2},\text{SH},\text{Shloperm}$
vperm$St1,\text{IN2},\text{IN3},\text{Shiperm}$

vpmsumd$Xm2,\text{IN2},\text{SH2}$ # H^2.loXi+2.hi+H^2.hiXi+2.lo
vpmsumd$XI3,St0,\text{SH21l}$ # H^2.loXi+2.lo+H.loXi+3.%
vpmsumd$Xm3,\text{IN3},\text{SH}# H.loXi+3.lo +H.loXi+3.hi

vpmsumd$Xh3,St1,\text{SH21h}$ # H^2.hiXi+2.hi+H.hiXi+3.hi

vxor$Xm2,\text{SXm2},\text{SXm1}$
vxor$X13,\text{SX13},\text{SX11}$
vxor$Xm3,\text{SXm3},\text{SXm2}$
vxor$Xh3,\text{SXh3},\text{SXh1}$

blt\text{Tail_4x}$

Loop_4x:
lvx_u$IN0,0,\text{inp}$
lvx_u$IN1,r8,\text{inp}$
subic.$\text{len},\text{len},4$
lvx_u$IN2,r9,\text{inp}$
lvx_u$IN3,r10,\text{inp}$
addi\text{inp},\text{inp},0x40
le?vperm$IN1,\text{IN1},\text{IN1},\text{lemask}$
le?vperm$IN2,\text{IN2},\text{IN2},\text{lemask}$
le?vperm$IN3,\text{IN3},\text{IN3},\text{lemask}$
le?vperm$IN0,\text{IN0},\text{IN0},\text{lemask}$
vpmsumd$Xl,$Xh,$H4l# H^4.loXi.lo
vpmsumd$Xm,$Xh,$H4# H^4.hiXi.lo+H^4.loXi.hi
vpmsumd$Xh,$Xh,$H4h# H^4.hiXi.hi
vpmsumd$X1l,$IN1,$H3l
vpmsumd$X1m,$IN1,$H3
vpmsumd$X1h,$IN1,$H3h

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

vpmsumd$t2,$Xl,$xC2# 1st reduction phase
vpmsumd$X3l,$IN1,$H2# H.loXi+3.lo +H^2.loXi+2.lo
vpmsumd$X3h,$IN1,$H2h# H.hiXi+3.hi +H^2.hiXi+2.hi

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

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

vsldoi$t1,$Xl,$Xl,8# 2nd reduction phase
vpmsumd$X2m,$IN2,$H2# H^2.hiXi+2.lo+H^2.loXi+2.hi
vpmsumd$X3m,$IN3,$H# H.hiXi+3.lo +H.loXi+3.hi
vpmsumd$X3l,$Xl,$xC2

vxor$X3l,$X3l,$X1l
vxor$X3n,$X3h3,$Xh1
vxor$Xh,$Xh,$IN0
vxor$Xm2,$Xm2,$Xm1
vxor$Xh,$Xh,$t1
vxor$X3m,$Xm3,$Xm2
vxor$Xh,$Xh,$Xl
bgeLoop_4x

Ltail_4x:
vpmsumd$Xl,$Xh,$H4l# H^4.loXi.lo
vpmsumd$Xm,$Xh,$H4# H^4.hiXi.lo+H^4.loXi.hi
vpmsumd$Xh,$Xh,$H4h# H^4.hiXi.hi

vxor$Xl,$Xl,$Xl3
vxor$Xm,$Xm,$Xm3

vpmsumd$t2,$Xl,$xC2# 1st reduction phase
vsldoi$t0,$Xm,$zero,8
vsldoi$t1,$zero,$Xm,8
vxor$Xh,$Xh,$Xh3
vxor$Xl,$Xl,$st0
vxor$Xh,$Xh,$st1
vsldoi$Xl,$Xl,$Xl,8
vxor$Xl,$Xl,$Xl
vsldoi$t1,$Xl,$Xl,8# 2nd reduction phase
vpmsumds$Xl,$Xl,$xC2
vxor$t1,$t1,$Xh
vxor$Xl,$Xl,$t1
addic.$len,$len,4
beq$Ldone_4x

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

Lthree:
lvx_u$IN2,r9,$inp
le?vperm$IN0,$IN0,$IN0,$lemask
le?vperm$IN1,$IN1,$IN1,$lemask
le?vperm$IN2,$IN2,$IN2,$lemask
vxor$Xh,$IN0,$Xl
vmr$H4l,$H3l
vmr$H4,$H3
vmr$H4h,$H3h
vperm$st0,$IN1,$IN2,$loperm
vperm$t1,$IN1,$IN2,$hperm
vpmsumds$Xm2,$IN1,$SH2# $H^2$.loXi+1.hi+$H^2$.hiXi+1.lo
vpmsumds$Xm3,$IN2,$SH# $H$.hiXi+2.lo +$H$.loXi+2.hi
vpmsumds$Xm3,$st0,$SH21# $H^2$.loXi+1.lo+$H$.loXi+2.hi
vpmsumds$Xm3,$st1,$SH21h# $H^2$.hiXi+1.hi+$H$.hiXi+2.hi
vxor$Xm3,$Xm3,$Xm2
b$Ltail_4x

.align4
Ltwo:
le?vperm $IN0,$IN0,$IN0,$lemask
le?vperm $IN1,$IN1,$IN1,$lemask

vxor $Xh,$IN0,$X1
vperm $t0,$zero,$IN1,$loperm
vperm $t1,$zero,$IN1,$hiperm

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

vpmsumd $X13,$t0,$H21l # H.loXi+1.lo
vpmsumd $Xm3,$IN1,$H # H.hiXi+1.lo+H.loXi+2.hi
vpmsumd $Xh3,$t1,$H21h # H.hiXi+1.hi

b LTail_4x

.align 4
Lone:
le?vperm $IN0,$IN0,$IN0,$lemask

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

vxor $Xh,$IN0,$X1
vxor $X13,$X13,$X13
vxor $Xm3,$Xm3,$Xm3
vxor $Xh3,$Xh3,$Xh3

b LTail_4x

Ldone_4x:
le?vperm $X1,$X1,$X1,$lemask
stvx_u $X1,0,$Xip # write out Xi

lir10,`15+6*SIZE_T`
lir11,`31+6*SIZE_T`
mtspr256,$vrsave
lvvx20,r10,$sp
addir10,r10,32
lvvx21,r11,$sp
addir11,r11,32
lvvx22,r10,$sp
addir10,r10,32
lvvx23,r11,$sp
addir11,r11,32
lvvx24,r10,$sp
addi10,r10,32
lvx25,r11,$sp
addi11,r11,32
lvx26,r10,$sp
addi10,r10,32
lvx27,r11,$sp
addi11,r11,32
lvx28,r10,$sp
addi10,r10,32
lvx29,r11,$sp
addi11,r11,32
lvx30,r10,$sp
lvx31,r11,$sp
addi$sp,$sp,$FRAME
blr
.long0
.byte0,12,0x04,0,0x80,0,4,0
.long0

foreach (split("\n",$code)) {
  s/`([^`]*)`/eval $1/geo;
  if ($flavour =~ /le$/o) {# little-endian
    s/lle!//oor
    s/be!/?#be#/o;
  } else {
    s/lle!/?#le#/oor
    s/be!/?#e#/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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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/aes_ofb.c

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/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-2.0.16/crypto/symhacks.h
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* 2.0.16/crypto/ec/ec_lib.c
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/o_time.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/cryptlib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/crypto.h
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#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# SHA512 for C64x.
#
# 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,$Fhi,$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,$t1lo)=(Khi,"B2");
SCTXB=$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
.asg$Khi,KHI
.asg$Klo,KLO
.else
.asg$Khi,KLO
.asg$Klo,KHI
.endif

.global_sha512_block_data_order
_sha512_block_data_order:
_sha512_block:
.asmfunc stack_usage(40+128)
MV$NUM,A0; reassign $NUM
||MVK-128,B0
||[A0]BNOPRA; if ($NUM==0) return;
||[A0]STWF,*SP--(40); save frame pointer
||[A0]MVSP,FP
||[A0]MVK0x00404,B1
||[A0]STDWB11:B10,*SP[3]
||[A0]STDWA13:A12,*FP[-3]
||[A0]MVKH0x60000,B1
||[A0]STDWA11:A10,*SP[1]
||[A0]MVCB1,AMR; setup circular addressing
||[A0]ADDB0,SP,SP; alloca(128)
.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]MVK$PCR_OFFSET(K512,___sha512_block),$K512
||[A0]SUBAWSP,2,SP; reserve two words above buffer
.else
||[A0]ANDB0,SP,SP; align stack at 128 bytes
|| [A0] ADDKPC__sha512_block,B1
|| [A0] MVKL(K512__sha512_block),$K512
\[A0]\ MVKH(K512__sha512_block),$K512
|| [A0] SUBAASP,2,SP; reserve two words above buffer
.endif
ADDAWSP,3,$Xilo
ADDSP,4*2,$Xhi; ADDAWSP,2,$Xhi

|| MVSCCTXA,$CTXB
LDW*$\{CTXA\}[0^.LITTLE_ENDIAN],$Ahi; load ctx
|| LDW*$\{CTXB\}[1^.LITTLE_ENDIAN],$Alo
|| ADDB1,$K512,$K512
LDW*$\{CTXA\}[2^.LITTLE_ENDIAN],$Bhi
|| LDW*$\{CTXB\}[3^.LITTLE_ENDIAN],$Blo
LDW*$\{CTXA\}[4^.LITTLE_ENDIAN],$Chi
|| LDW*$\{CTXB\}[5^.LITTLE_ENDIAN],$Clo
LDW*$\{CTXA\}[6^.LITTLE_ENDIAN],$Dhi
|| LDW*$\{CTXB\}[7^.LITTLE_ENDIAN],$Dlo
LDW*$\{CTXA\}[8^.LITTLE_ENDIAN],$Ehi
|| LDW*$\{CTXB\}[9^.LITTLE_ENDIAN],$Elo
LDW*$\{CTXA\}[10^.LITTLE_ENDIAN],$Fhi
|| LDW*$\{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:$Klo; pre-fetch K512[0]
outerloop?:
MVK15,B0; loop counters
|| MVK64,B1
|| SUBA0,1,A0
MV$Ah,$ctxhi
|| MV$Ah,$ctxlo
|| MV$Bh,$ctxhi
|| MV$Bh,$ctxlo
|| MV$Ch,$ctxhi
|| MV$Ch,$ctxlo
|| MV$Dh,$ctxhi
|| MV$Dh,$ctxlo
MV$Eh,$ctxhi
|| MV$Eh,$ctxlo
|| MV$Fh,$ctxhi
|| MV$Fh,$ctxlo
|| MV$Gh,$ctxhi
|| MV$Gh,$ctxlo
|| MV$Hh,$ctxhi
|| MV$Hh,$ctxlo
|| MV$S
||MVDSHlo,$Hctxlo
loop0_15?:
  .if BIG_ENDIAN
  MV B11,$T1hi
  ||MV B10,$T1lo
  .else
  SWAP4B10,$T1hi
  ||SWAP4B11,$T1lo
  SWAP2T1hi,$T1hi
  ||SWAP2T1lo,$T1lo
  .endif
  STWST1hi,*$Xihi++[2]; original loop16_79?
||STWST1lo,*$Xilo++[2]; X[i] = T1
||ADD$Hhi,$T1hi,$T1hi
||ADDUSHlo,$T1lo,$T1carry:$T1lo; T1 += h
||SHRUSEhi,14,$S1hi
||SHLSEhi,32-14,$S1lo
loop16_79?:
||XORFhi,$Ghi,$CHhi
||XOR$Flo,$Glo,$CHlo
||ADDKH$hi,$T1hi,$T1hi
||ADDUKLO,$T1carry:$T1lo,$T1carry:$T1lo; T1 += K512[i]
||SHRUSElo,14,$t0lo
||SHLSElo,32-14,$t0hi
XORS$t0hi,$S1hi,$S1hi
||XORS$t0lo,$S1lo,$S1lo
||AND$Ehi,$CHhi,$CHhi
||AND$Elo,$CHlo,$CHlo
||ROTL$Ghi,0,$Hhi
||ROTLS$Glo,0,$Hlo; h = g
||SHRUSEhi,18,$t0hi
||SHLSEhi,32-18,$t0lo
XORS$t0hi,$S1hi,$S1hi
||XORS$t0lo,$S1lo,$S1lo
||XORS$Ghi,$CHhi,$CHhi
||XORS$Glo,$CHlo,$CHlo; Ch(e,f,g) = ((f^g)&e)^g
||ROTL$Fhi,0,$Ghi
||ROTLS$Flo,0,$Glo; g = f
||SHRUSElo,18,$t0lo
||SHLSElo,32-18,$t0hi
XORS$t0hi,$S1hi,$S1hi
||XORS$t0lo,$S1lo,$S1lo
||ORS$Ahi,$Bhi,$MAJhi
||ORS$Alo,$Blo,$MAJlo
||ROTL$Ehi,0,$Fhi
||ROTLS$Elo,0,$Flo; f = e
||SHRUSEhi,41-32,$t0lo
||SHLSEhi,64-41,$t0hi
XOR$t0hi,$S1hi,$S1hi
||XOR$t0lo,$S1lo,$S1lo
||AND$Chi,MAJhi,MAJhi
||AND$Clo,MAJlo,MAJlo
||ROTL$Dhi,0,$Ehi
||ROTLS$Dlo,0,$Elo; e = d
||SHRUSElo,41-32,$t0hi
||SHL$Elo,64-41,$t0lo
XORS$t0hi,$S1hi,$S1hi
||XORS$t0lo,$S1lo,$S1lo; Sigma1(e)
||AND$Ahi,$Bhi,$t1hi
||AND$Alo,$Blo,$t1lo
||ROTL$Chi,0,$Dhi
||ROTL$Clo,0,$Dlo; d = c
||SHRUSEhi,28,$S0hi
||SHL$Ahi,32-28,$S0lo
ORS$t1hi,MAJhi,MAJhi
||ORS$t1lo,MAJlo,MAJlo; Maj(a,b,c) = ((a|b)&c)|(a&b)
||ADD$CHhi,$T1hi,$T1hi
||ADDUSCHlo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += Ch(e,f,g)
||ROTLS$Bhi,0,$CChi
||ROTLS$Bl,0,$Clo; c = b
||SHRUSElo,28,$t0lo
||SHL$Alo,32-28,$t0hi
XORS$t0hi,$S0hi,$S0hi
||XORS$t0lo,$S0lo,$S0lo
||ADD$S1hi,$T1hi,$T1hi
||ADDUS$S1lo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += Sigma1(e)
||ROTLS$Ahi,0,$Bhi
||ROTLS$Alo,0,$Blo; b = a
||SHRUSEhi,34-32,$t0hi
||SHL$Ahi,64-34,$t0hi
XORS$t0hi,$S0hi,$S0hi
||XORS$t0lo,$S0lo,$S0lo
||ADD$MAJhi,$T1hi,$T2hi
||ADDUSMAJlo,$T1carry:$T1lo,$T2carry:$T2lo; T2 = T1+Maj(a,b,c)
||SHRUSElo,34-32,$t0hi
||SHL$Alo,64-34,$t0lo
XORS$t0hi,$S0hi,$S0hi
||XORS$t0lo,$S0lo,$S0lo
||ADD$Ehi,$T1hi,$T1hi
||ADDUSElo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += e
||SHRUSEhi,39-32,$t0lo
||SHL$Ahi,64-39,$t0hi
[B0]BNOP loop0_15?
||[B0]LDNDW*$INP++,B11:B10; pre-fetch input
XORS$t0hi,$S0hi,$S0hi
||XORS$t0lo,$S0lo,$S0lo
SHRU $Alo, 39-32, $t0hi
SHL $Alo, 64-39, $t0lo

!B0|LDW*{$Xhi}[28], $T1hi
!B0|LDW*{$Xilo}[28], $T1lo; X[i+14]
XOR $t0hi, $S0hi, $S0hi
XOR $t0lo, $S0lo, $S0lo; Sigma0(a)

ADDST1carry, ST1hi, $Ehi

[!B0] BNOP break?
ADD $S0hi, $T2hi, $T2hi
ADDU $S0lo, $T2carry, $T2lo, $T2carry; T2 += Sigma0(a)

!B1|LDDW*SK512++, $Khi: $Klo; pre-fetch K512[i]
NOP; avoid cross-path stall
ADDST2carry, $T2hi, $Ahi

!MVST2lo, $Alo; a = T2
!

[B0] SUBBO0, 1, B0

;;;; branch to loop00_15? is taken here

[B1]|LDW*{$Xhi}[12], $T2hi

[B1]|LDW*{$Xilo}[12], $T2lo; 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

SHRUST1hi, 61-32, $t0lo

SHLST1hi, 64-61, $t0hi
XOR $t0hi, $S1hi, $S1hi

XOR $t0lo, $S1lo, $S1lo

SHRUST1lo, 61-32, $t0hi

SHLST1lo, 64-61, $t0lo
XOR $t0hi, $S1hi, $S1hi

XOR $t0lo, $S1lo, $S1lo

SHRUST1lo, 6, $t0hi

SHLST1hi, 32-6, $t0lo
XOR $t0hi, $S1hi, $S1hi

XOR $t0lo, $S1lo, $S1lo

SHRUST1lo, 6, $t0lo

LDW*{$Xhi}[18], $T1hi

LDW*{$Xilo}[18], $T1lo; X[i+9]
XOR $t0lo, $S1lo, $S1lo; sigma1(X[i+14])

[LDDW*{$Xhi}[0], SCHhi
LDW*{$Xilo}[0], SCHlo; X[i]

SHRUST2hi, 1, $S0hi

SHLST2hi, 32-1, $S0lo

SHRUST2lo, 1, $t0lo
||SHL$T2lo,32-1,$t0hi
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||SHRU$T2hi,8,$t0hi
||SHL$T2lo,8,$t0lo
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||ADD$S0hi,$T1hi,$T1hi
||ADDUS$S1lo,$T1lo,$T1carry:$T1lo; T1 = X[i+9]+sigma1()
||SHRU$T2hi,7,$t0hi
||SHL$T2hi,32-7,$t0lo
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||ADD$S0hi,$T1hi,$T1hi
||ADDUS$CHlo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += X[i]
||SHRU$T2lo,7,$t0lo
||[B1]BNOP$loop16_79?
XOR$t0lo,$S0lo,$S0lo; sigma0(X[i+1])

ADD$S0hi,$T1hi,$T1hi
||ADDUS$0lo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += sigma0()
||[B1]SUBB1,1,B1
NOP; avoid cross-path stall
ADD$ST1carry,$T1hi,$T1hi

STW$ST1hi,*$Xih++[2]; copied "top" bundle
||STW$ST1lo,*$Xilo++[2]; X[i] = T1
||ADD$S$Hhi,$T1hi,$ST1hi
||ADDUS$Hlo,$T1lo,$T1carry:$T1lo; T1 += h
||SHRU$S$Ehi,14,$S1hi
||SHL$S$Ehi,32-14,$S1lo
;;===== branch to loop16_79? is taken here

break?:
ADD$Ahi,$Actxhi,$Ahi; accumulate ctx
||ADD$US$Alo,$Actxlo,$Actxlo:$Alo
||[A0]LDNDW*$INP++,B11:B10; pre-fetch input
||[A0]ADDRK-640,$K512; rewind pointer to K512
ADD$SBhi,$Bctxhi,$Bhi
||ADDUS$Blo,$Bctxlo,$Bctxlo:$Blo
||[A0]LDDW*$K512++,$Khi:$Klo; pre-fetch K512[0]
ADD$S$Chi,$Cctxhi,$Chi
||ADDUS$Clo,$Cctxlo,$Cctxlo:$Clo
||ADD$Actxlo,$Ahi,$Ahi
Open Source Used In FXOS MIO 2.11.1 2929

[36x36]MV $CTXA,$CTXB
ADDSDhi,$Dctxhi,$Dhi
||[A0]ADDSDlo,$Dctxlo,$Dctxlo:$Dlo
||[A0]STWShi,*$ (CTXA)[0^LITTLE_ENDIAN]; save ctx
||[A0]STWSAllo,*$ (CTXB)[1^LITTLE_ENDIAN]
ADDSEhi,$Ectxhi,$Ehi
||ADDUSElo,$Ectxlo,$Ectxlo:$Elo
||ADDSCctxlo,$Cctxlo,$Cctxlo:$Clo
|[A0]BNOP outerloop?
||[A0]STWSBhi,*$ (CTXA)[2^LITTLE_ENDIAN]
||[A0]STWSBllo,*$ (CTXB)[3^LITTLE_ENDIAN]
ADD$Fhi,$Fctxhi,$Fhi
||ADDUSFlo,$Fctxlo,$Fctxlo:$Flo
||ADDSDctxlo,$Dhi,$Dhi
||[A0]STWSChi,*$ (CTXA)[4^LITTLE_ENDIAN]
||[A0]STWSClo,*$ (CTXB)[5^LITTLE_ENDIAN]
ADD$Ghi,$Gctxhi,$Ghi
||ADDUSGlo,$Gctxlo,$Gctxlo:$Glo
||ADDSEctxlo,$Ehi,$Ehi
||[A0]STWSDhi,*$ (CTXA)[6^LITTLE_ENDIAN]
||[A0]STWSDlo,*$ (CTXB)[7^LITTLE_ENDIAN]
ADD$Hhi,$Hctxhi,$Hhi
||ADDUSHlo,$Hctxlo,$Hctxlo:$Hlo
||ADD$Fctxlo,$Fhi,$Fhi
||[A0]STWSEhi,*$ (CTXA)[8^LITTLE_ENDIAN]
||[A0]STWSEllo,*$ (CTXB)[9^LITTLE_ENDIAN]
ADD$Gctxlo,$Ghi,$Ghi
||[A0]STWSFhi,*$ (CTXA)[10^LITTLE_ENDIAN]
||[A0]STWSFllo,*$ (CTXB)[11^LITTLE_ENDIAN]
ADD$Hctxlo,$Hhi,$Hhi
||[A0]STWSGhi,*$ (CTXA)[12^LITTLE_ENDIAN]
||[A0]STWSGllo,*$ (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
print $code;

close STDOUT;

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-c64x.pl

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* /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

1.232 hd-parm 9.32-1

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 cmd/krb5/slave/kpropd_rpc.c
 lib/gss_mechs/mech_krb5/et/kdb5_err.c
 lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
 lib/gss_mechs/mech_spnego/mech/spnego_mech.c
 lib/krb5/kadm5/kadm_host_srv_names.c
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 lib/krb5/kdb/kdb_hdr.h
 lib/krb5/kdb/kdb_log.c
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lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
and the initial implementation of incremental propagation, including
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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 * SUCH DAMAGE.
 */

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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Version 2, June 1991

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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
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbd bsd.img

---layout-------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout-------

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:

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

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

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

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

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

Command (m for help):

BSD disklabel command (m for help):

<table>
<thead>
<tr>
<th></th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsize bsize cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>unused</td>
<td>5</td>
<td>4.1BSD</td>
<td>9</td>
<td>4.4LFS d boot</td>
</tr>
<tr>
<td>1</td>
<td>swap</td>
<td>6</td>
<td>Eighth Edition</td>
<td>a unknown</td>
<td>e ADOS</td>
</tr>
<tr>
<td>2</td>
<td>Version 6</td>
<td>7</td>
<td>4.2BSD</td>
<td>b HPFS</td>
<td>f HFS</td>
</tr>
<tr>
<td>3</td>
<td>Version 7</td>
<td>8</td>
<td>MS-DOS</td>
<td>c ISO-9660</td>
<td>10 AdvFS</td>
</tr>
<tr>
<td>4</td>
<td>System V</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BSD disklabel command (m for help):
1.235 expat 1.95.8

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1.236 libtecla 1.4.1

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1.237 ncurses 5.9-13.20130511.el7

1.237.1 Available under license:

Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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1.238 pciutils 3.2.1 4.el7
1.238.1 Available under license:

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Version 2, June 1991

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1.239 libxml 2.9.1

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 *
 * Reference: Your favorite introductory book on algorithms
 *
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 *
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 */

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1.240 libdevmapper 2.02.97-r4.0

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```
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```
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**1.241 bsd-mailx 12.5-5**

**1.241.1 Available under license :**

3.0 (quilt)

This package was debianized by Loic Prylli <lprylli@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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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.

dora

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 mail 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.Whang-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

usr/bin
usr/share/bsd-mailx
* 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

-- Marc Deslauriers <marc.deslauriers@ubuntu.com> Mon, 05 Jan 2015 11:36:44 -0500

* New upstream version from OpenBSD CVS repository.
* Remove 23-Treat-new-line-only-messages-as-empty-ones.patch, introduced in 1:8.1.2-0.20071017 cvs-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
* 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:
  + depend on default-mta instead of exim4 (closes: #555495);
  + add $[misc:Depends] dependency (lintian);
  + Standards-Version: 3.8.4 (no changes).

-- Robert Luberda <robert@debian.org> Sun, 14 Mar 2010 13:22:18 +0100

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 (8.1.2-0.20090911cvs-1) unstable; urgency=low

* New upstream release from OpenBSD repository.
* 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-2) unstable; urgency=low

* Upload to unstable.

-- Robert Luberda <robert@debian.org> Sun, 09 Nov 2008 09:00:25 +0100

bsd-mailx (8.1.2-0.20081101cvs-1) experimental; urgency=low

* New upstream release.
* Lower priority of mailx package to extra.
* Standards-Version: 3.8.0 (no changes).
* Remove duplicated `it' from description (lintian).
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, 01 Nov 2008 12:40:12 +0100

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> Sat, 26 Apr 2008 09:52:18 +0200

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> Tue, 08 Jan 2008 23:01:18 +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

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: /%ne li$/ne/g to fix groff warnings.

-- Robert Luberda <robert@debian.org> Sat, 24 Aug 2002 22:15:23 +0200

mailx (1:8.1.2-0.20020411cvs-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 (1:8.1.2-0.20020411cvs-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 (1:8.1.2-0.20020411cvs-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 (1:8.1.2-0.20020316cvs-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 (1:8.1.2-0.20020316cvs-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 (1:8.1.2-0.20020316cvs-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-1) 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-1) 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

-- Wichert Akkerman <wakkerma@debian.org>  Tue,  8 Aug 2000 11:42:02 -0700

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.

-- Wichert Akkerman <wakkerma@debian.org>  Mon,  7 Aug 2000 12:36:10 -0700

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

-- Paul Slootman <paul@debian.org>  Thu,  8 Jun 2000 19:51:14 +0200

mailx (1:8.1.1-10.1) stable frozen unstable; urgency=high

* Security fix for a GID=mail shell.

-- Daniel Jacobowitz <dan@debian.org>  Sun,  4 Jun 2000 22:45:19 -0700

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

-- Loic Prylli <Loic.Prylli@graville.fdn.fr>  Sun, 28 Jun 1998 20:15:18 -0400

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.

mailx (1:8.1.1-7) frozen; urgency=medium

* security fix for tmp races patch from Martin Schulze (#20059)

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)

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.

mailx (1:8.1.1-4) unstable; urgency=high

* mailx was sending empty message, ignoring user input
  add clearer when EAGAIN occur in "IOSAFE" code (#14263)

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.fdn.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.fdn.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.

1.242 apr 1.5.1

1.242.1 Available under license:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.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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* cvt - IEEE floating point formatting routines.
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

1.244 smartmontools 7.0
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1.245 unzip 6.0

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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
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claims a patent on LZW encoding and on LZW decoding _in an apparatus
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The original unzip source code has been extensively modified and
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rather than sequential; replacement of unimplode() with explode();
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placement 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
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* A collection of File Manager and related routines

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* 
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* 
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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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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
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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.

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

1.246 sed 4.2.2 5.el7

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1.248 unzip 6.0
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1.249 libestr 0.1.9 2.el7

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1.250 zlib 1.2.1.2

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1.251 diffutils 3.6

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1.257 zlib 1.2.5

1.257.1 Available under license :
/* zlib.h -- interface of the ‘zlib’ general purpose compression library
version 1.2.11, January 15th, 2017

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1.258 geo-ip 1.5.0 11.el7

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1.259 grep 3.1

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1.262 ncurses 6.1
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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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1.263 procps 3.3.10-5.el7_2
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1.269 strongSwan 5.6.3

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    '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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src/gzip/inftutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#

src/tools/frandom/frandom.c
#
# EOF

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The End

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```

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1.282 systemd 219 19.el7_2.13

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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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The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(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.)

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoocom) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un506n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAufe.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganauge (Gottfried.Ganssauge -at- HAufe.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuitinnen ilari.kuitinnen -at- housemarque.fi)
Howard Hinnant (hinnant -at- tweny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrvi (jjarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbhandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbhandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintemandtel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
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* Author: Adam Dunkels <adam@sics.se>

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Author: Adam Dunkels <adam@sicse>

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* Author: Adam Dunkels <adam@sics.se>

* $Id: timer.c,v 1.2 2006/06/12 08:00:30 adam Exp $

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 * $Id: resolv.c,v 1.5 2006/06/11 21:46:37 adam Exp $
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* $Id: memb.h,v 1.1 2006/06/12 08:21:43 adam Exp $
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Protothreads are a type of lightweight stackless threads designed for severely memory constrained systems such as deeply embedded systems or sensor network nodes. Protothreads provides linear code execution for event-driven systems implemented in C. Protothreads can be used with or without an RTOS.

Protothreads are 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.
systems, the overhead of allocating multiple stacks can consume large amounts of the available memory. In contrast, each protothread only requires between two and twelve bytes of state, depending on the architecture.

\note Because protothreads do not save the stack context across a blocking call, local variables are not preserved when the protothread blocks. This means that local variables should be used with utmost care - if in doubt, do not use local variables inside a protothread!

Main features:

- No machine specific code - the protothreads library is pure C
- Does not use error-prone functions such as longjmp()
- Very small RAM overhead - only two bytes per protothread
- Can be used with or without an OS
- Provides blocking wait without full multi-threading or stack-switching

Examples applications:

- Memory constrained systems
- Event-driven protocol stacks
- Deeply embedded systems
- Sensor network nodes

The protothreads API consists of four basic operations:
initialization: PT_INIT(), execution: PT_BEGIN(), conditional blocking: PT_WAIT_UNTIL() and exit: PT_END(). On top of these, two convenience functions are built: reversed condition blocking: PT_WAIT_WHILE() and protothread blocking: PT_WAIT_THREAD().

\sa \ref pt "Protothreads API documentation"

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\section authors Authors
The protothreads library was written by Adam Dunkels <adam@sics.se> with support from Oliver Schmidt <ol.sc@web.de>.

\section{pt-desc Protothreads}

Protothreads are a extremely lightweight, stackless threads that provides a blocking context on top of an event-driven system, without the overhead of per-thread stacks. The purpose of protothreads is to implement sequential flow of control without using complex state machines or full multi-threading. Protothreads provides conditional blocking inside a C function.

In memory constrained systems, such as deeply embedded systems, traditional multi-threading may have a too large memory overhead. In traditional multi-threading, each thread requires its own stack, that typically is over-provisioned. The stacks may use large parts of the available memory.

The main advantage of protothreads over ordinary threads is that protothreads are very lightweight: a protothread does not require its own stack. Rather, all protothreads run on the same stack and context switching is done by stack rewinding. This is advantageous in memory constrained systems, where a stack for a thread might use a large part of the available memory. A protothread only requires only two bytes of memory per protothread. Moreover, protothreads are implemented in pure C and do not require any machine-specific assembler code.

A protothread runs within a single C function and cannot span over other functions. A protothread may call normal C functions, but cannot block inside a called function. Blocking inside nested function calls is instead made by spawning a separate protothread for each potentially blocking function. The advantage of this approach is that blocking is explicit: the programmer knows exactly which functions that block that which functions the never blocks.

Protothreads are similar to asymmetric co-routines. The main difference is that co-routines uses a separate stack for each co-routine, whereas protothreads are stackless. The most similar mechanism to protothreads are Python generators. These are also stackless constructs, but have a different purpose. Protothreads provides blocking contexts inside a C function, whereas Python generators provide multiple exit points from a generator function.

\section{pt-autovars Local variables}

\note
Because protothreads do not save the stack context across a blocking
call, local variables are not preserved when the protothread blocks. This means that local variables should be used with utmost care - if in doubt, do not use local variables inside a protothread!

\section{pt-scheduling Scheduling}

A protothread is driven by repeated calls to the function in which the protothread is running. Each time the function is called, the protothread will run until it blocks or exits. Thus the scheduling of protothreads is done by the application that uses protothreads.

\section{pt-impl Implementation}

Protothreads are implemented using \ref lc "local continuations". A local continuation represents the current state of execution at a particular place in the program, but does not provide any call history or local variables. A local continuation can be set in a specific function to capture the state of the function. After a local continuation has been set can be resumed in order to restore the state of the function at the point where the local continuation was set.

Local continuations can be implemented in a variety of ways:

- by using machine specific assembler code,
- by using standard C constructs, or
- by using compiler extensions.

The first way works by saving and restoring the processor state, except for stack pointers, and requires between 16 and 32 bytes of memory per protothread. The exact amount of memory required depends on the architecture.

The standard C implementation requires only two bytes of state per protothread and utilizes the C switch() statement in a non-obvious way that is similar to Duff's device. This implementation does, however, impose a slight restriction to the code that uses protothreads in that the code cannot use switch() statements itself.

Certain compilers has C extensions that can be used to implement protothreads. GCC supports label pointers that can be used for this purpose. With this implementation, protothreads require 4 bytes of RAM per protothread.

@{ }

*/
/** @} */

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Author: Adam Dunkels <adam@sics.se>

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1.294 tcp-wrappers 7.6 77.el7

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1.296 libatasmart 0.18-3

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1.298 pcre 8.42
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* 
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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
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--------------------------------------------------------------------------

1.302 util-linux 2.32.1

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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1.314 bind 9.11.4

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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 3a0982da308228d796df35f98d787c5cffe2bbeb6.

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
</!

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</!

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


<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">
  <xsl:text>
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</xsl:text>
</xsl:variable>
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1.315 grep 2.20 2.el7
1.315.1 Available under license:

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1.317 bash 4.2.46 20.el7_2
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From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+ cwru/CWRU-2.1-ins) id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+ cwru/CWRU-2.3) id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1) id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

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

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

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

From specedt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: specedt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

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

Hi. I'm the maintainer of bash (the GNU "Bourne Again shell") for the FSF.

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

Chet Ramey
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

From mikel@ora.com Tue Aug  1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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

That's great!

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1.318 libusb 1.0.18

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1.327 glibc 2.17-106.el7_2.8

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

However, unrestricted linking of non-free programs would deprive the
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That's all there is to it!

1.328 pc re 8.32

1.328.1 Available under license:

PCRE LICENCE

Please see the file LICENCE in the PCRE distribution for licensing details.

End

PCRE LICENCE

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Release 8 of PCRE is distributed under the terms of the "BSD" licence, as specified below. The documentation for PCRE, supplied in the "doc" directory, is distributed under the same terms as the software itself.

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

THE BASIC LIBRARY FUNCTIONS

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1.329 cracklib 2.9.0 11.el7
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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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   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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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!
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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obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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

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

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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

=mike

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:
> 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 didn't notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir applications are also GPL-2 which imo is just wrong. it isn't the place of =
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
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> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
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> not
> GPL-2 ... it was a modified artistic license ... i didn't notice the
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> >=20
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> 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.
> -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
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> > > 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
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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
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.
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde= r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- 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 their
applications are also GPL-2 which imo is just wrong. it isn't the place of
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: 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
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> place of a
> library to dictact to application writes what license they should
> be using.
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> -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > > I am sympathetic. Guys, what do you reckon?
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> >
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...
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> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
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> GPLv2 with the option of using the library under a later version of the
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> 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
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-ipv6.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 i91Gxtpr020623
    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, 01 Oct 2007 09:59:50 -0700 (PDT)
    Received: from [82.68.43.14] (helo=[192.168.1.13])
    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: <1b1b3fd80710010908k1ldac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B710CCCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k1ldac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=fowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56F7FEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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

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

Happy now? :-)

-a

1.330 e2fsprogs 1.42.9 7.el7
1.330.1 Available under license :

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
** NOTE! The following LGPL license applies to the tdb library. This does NOT imply that all of Samba is released.

This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

From the original distribution:

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

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

http://sourceforge.net/projects/e2fsprogs

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

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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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

Packaging is Copyright (c) 2003-2006 Theodore Ts'o <tytso@mit.edu>
   Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
   Copyright (c) 2001 Alcove <http://www.alcove.com/>
   Copyright (c) 1997 Klee Dienes
   Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

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

Copyright notice:

This package, the EXT2 filesystem utilities, is protected by the GNU
Public License.


On Debian GNU systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'.

---

Open Source Used In FXOS MIO 2.11.1 4131
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

http://sourceforge.net/projects/e2fsprogs

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

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On Debian systems, the complete text of the GNU Lesser (Library) General Public License can be found in /usr/share/common-licenses/LGPL-2.
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

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The most recent officially distributed version can be found at http://e2fsprogs.sourceforge.net. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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

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Version 2, June 1991

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That's all there is to it!
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
In order to use this stub, the following makefile variables must be defined.

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

```
all:: image

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

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

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(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)"
$(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install-shlibs

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>.

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Gadi Oxman, August 1995

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```
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```

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```
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<signature of Ty Coon>, 1 April 1989
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1.331 python 3.8.6

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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.

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.
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*
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*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1. [1] Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
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11. [12] Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
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18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for
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19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows
    port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
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26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
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    author)
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    comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX
    modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
    GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
    code for Version 3 as specified in RFC-1305
    Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision
    kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon
    Hart-Davis <d@hd.org> ACRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code
    maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
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45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajjit@ee.udel.edu> IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atlsoft.de
4. mailto:%20vbaish@mailman1.intel.co
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
8. mailto:%20greg.brackley@bigfoot.com
9. mailto:%20Marc.Brett@westgeo.com
10. mailto:%20Piete.Brooks@cl.cam.ac.uk
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21. mailto:%20davehart@davehart.com
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THE BASIC LIBRARY FUNCTIONS
-------------------------------

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

University of Cambridge Computing Service,
PCRE JUST-IN-TIME COMPILATION SUPPORT
-------------------------------------

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

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AUTHOR:  Michael J. McLennan
          Bell Labs Innovations for Lucent Technologies
          mmclennan@lucent.com
          http://www.tcltk.com/tcl

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1.353 xz 5.1.2 12alpha.el7

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/*

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

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

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

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

/* Storage used for special numbers. */
bc_num _zero_;
bc_num _one_;
bc_num _two_;

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */
bc_num
bc_new_num (length, scale)

    int length, scale;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
    temp->n_ptr = (char *) malloc (length+scale);
    if (temp->n_ptr == NULL) bc_out_of_memory();
    temp->n_value = temp->n_ptr;
    memset (temp->n_ptr, 0, length+scale);
    return temp;
}

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

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

/* Initialize the number package! */

void
bc_init_numbers ()
{

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

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

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

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

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

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

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

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just compare the magnitudes. */
static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
  bc_num n1, n2;
  int use_sign;
  int ignore_last;
{
  char *n1ptr, *n2ptr;
  int count;

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

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

  /* If we get here, they have the same number of integer digits.
   check the integer part and the equal length part of the fraction. */
  count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
  n1ptr = n1->n_value;
  n2ptr = n2->n_value;
  while ((count > 0) && (*n1ptr == *n2ptr))
  {
    n1ptr++;
n2ptr++; count--;  
}  
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale) return (0);  
if (count != 0)  
  if (*n1ptr > *n2ptr)  
    /* Magnitude of n1 > n2. */  
    if (!use_sign || n1->n_sign == PLUS) return (1);  
    else return (-1);  
  else  
    /* Magnitude of n1 < n2. */  
    if (!use_sign || n1->n_sign == PLUS) return (-1);  
    else return (1);  
}  
/* They are equal up to the last part of the equal part of the fraction. */  
if (n1->n_scale != n2->n_scale)  
  if (n1->n_scale > n2->n_scale)  
    for (count = n1->n_scale-n2->n_scale; count>0; count--)  
      if (*n1ptr++ != 0)  
        /* Magnitude of n1 > n2. */  
        if (!use_sign || n1->n_sign == PLUS) return (1);  
        else return (-1);  
    else  
    /* 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;
/* Now add carry the longer integer part. */
if (n1bytes == 0)
  { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
  {
    *sumptr = *n1ptr-- + carry;
    if (*sumptr > (BASE-1))
      {
        carry = 1;
        *sumptr -= BASE;
      }
    else
      carry = 0;
    sumptr--;
  }
/* Set final carry. */
if (carry == 1)
  *sumptr += 1;
/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;

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

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

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

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

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

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

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

/* Now do the equal length scale and integer parts. */
for (count = 0; count < min_len + min_scale; count++)
{
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
    {
        val += BASE;
        borrow = 1;
    }
    else
        borrow = 0;

    *diffptr-- = val;
}

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

        *diffptr-- = val;
    }
}

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

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

void
bc_sub (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
    int res_scale:
if (n1->n_sign != n2->n_sign)
{
    diff = _bc_do_add (n1, n2, scale_min);
    diff->n_sign = n1->n_sign;
}
else
{
    /* subtraction must be done. */
    /* Compare magnitudes. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
    switch (cmp_res)
    {
    case -1:
        /* n1 is less than n2, subtract n1 from n2. */
        diff = _bc_do_sub (n2, n1, scale_min);
        diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
        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++;
    }
/* A special adder/subtractor for the recursive divide and conquer multiply algorithm. Note: if sub is called, accum must be larger that what is being subtracted. Also, accum and val must have n_scale = 0. (e.g. they must look like integers. *) */
static void _bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
  signed char *accp, *valp;
  int count, carry;
  count = val->n_len;
  if (val->n_value[0] == 0)
    count--;
  assert (accum->n_len+accum->n_scale >= shift+count);

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

  if (sub) {
    /* Subtraction, carry is really borrow. */
    while (count--) {
      *accp -= *valp-- + carry;
      if (*accp < 0) {
        carry = 1;
        *accp -= BASE;
      } else {
        carry = 0;
        accp--;
      }
    }
    while (carry) {
      *accp -= carry;
      if (*accp < 0) *accp += BASE;
    else
      carry = 0;
    }
  } else {
    /* Addition, carry is really borrow. */
    while (count--) {
      *accp += *valp-- + carry;
      if (*accp > BASE) *
        accp += BASE;
    else
      carry = 0;
    }
  }
}
/* 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, prodlcen, 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);
bcc_init_num(&d2);
bcc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bcc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

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

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

if (bc_is_zero(u0) || bc_is_zero(v0))
m3 = bc_copy_num (_zero_);
else
   _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

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

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

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

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

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

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

   /* Do the multiply */
/* 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;
b_des_free (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;
            }
        }
    } /* 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 \( N_1 / N_2 \). 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;
um2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
{
    n2ptr++;
    len2--;
}

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

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

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory();
/* Now for the full divide algorithm. */
if (!zero)
{
    /* Normalize */
    norm = 10 / ((int)*n2ptr + 1);
    if (norm != 1)
    {
        _one_mult (num1, len1+scale1+extra+1, norm, num1);
        _one_mult (n2ptr, len2, norm, n2ptr);
    }

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

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

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

    /* Multiply and subtract. */
borrow = 0;
    if (qguess != 0)
    {
        *mval = 0;
        _one_mult (n2ptr, len2, qguess, mval+1);
        ptr1 = (unsigned char *) num1+qdig+len2;
        ptr2 = (unsigned char *) mval+len2;
for (count = 0; count < len2+1; count++)
{
    val = (int) *ptr1 - (int) *ptr2-- - borrow;
    if (val < 0)
    {
        val += 10;
        borrow = 1;
    }
    else
        borrow = 0;
    *ptr1-- = val;
}

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

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

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

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

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

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

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

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

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

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

    return 0; /* Everything is OK. */
}
/* Modulo for numbers. This computes NUM1 % NUM2 and puts the result in RESULT. */

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

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

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

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

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

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

    /* Check the exponent for scale digits. */
    if (exponent->n_scale != 0)
        { bc_rt_warn ("non-zero scale in exponent");
        bc_divide (exponent, _one_, &exponent, 0); /*truncate */
        }

    /* Check the modulus for scale digits. */
    if (mod->n_scale != 0)
        bc_rt_warn ("non-zero scale in modulus");
/* Do the calculation. */
rscale = MAX(scale, base->n_scale);
while ( !bc_is_zero(exponent) )
{
    (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
    if ( !bc_is_zero(parity) )
    {
        bc_multiply (temp, power, &temp, rscale);
        (void) bc_modulo (temp, mod, &temp, scale);
    }
    bc_multiply (power, power, &power, rscale);
    (void) bc_modulo (power, mod, &power, scale);
}
/* Assign the value. */
b_c_free_num (&power);
b_c_free_num (&exponent);
b_c_free_num (result);
*result = temp;
return 0; /* Everything is OK. */
}

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

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

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

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

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

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

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

/* Assign the value. */
if (neg)
{

bc_divide (_one_, temp, result, rscale);
broadcast (temp, result, rscale);
}
else
{
    broadcast (result);
    *result = temp;
    if ((*result)->n_scale > rscale)
        (*result)->n_scale = rscale;
}
broadcast (&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)
        {
            broadcast (num);
            *num = bc_copy_num (_zero_);
            return 1;
        }
    }
    cmp_res = bc_compare (*num, _one_);
    if (cmp_res == 0)
    {
        broadcast (num);
        *num = bc_copy_num (_one_);
        return 1;
    }

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

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

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

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
    bc_free_num(&guess1);
    guess1 = bc_copy_num(guess);
    bc_divide(*num,guess,&guess,cscale);
    bc_add(guess,guess1,&guess,0);
    bc_multiply(guess,point5,&guess,cscale);
    bc_sub(guess,guess1,&diff,cscale+1);
    if (bc_is_near_zero(diff,cscale))
    {
        if (cscale < rscale+1)
            cscale = MIN(cscale*3,rscale+1);
        else
            done = TRUE;
    }
}

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

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

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

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

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

void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#endif
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
    char digits[40];
    int len, ix;

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

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

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

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

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

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

        /* Now the fraction. */
        if (num->n_scale > 0)
          
            /*out_char) ('.');
          for (index=0; index<num->n_scale; index++)
/* 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);
broadcast free_num (&frac_part);
broadcast free_num (&base);
broadcast free_num (&cur_dig);
broadcast 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)
broadcast 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. */

c
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))
{ /* number was not found */
    *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 == '-')
    { /* negative number */
        zero_int = FALSE;
        /* ... */
    }
    else
    { /* positive number */
        zero_int = FALSE;
        /* ... */
    }
}
(*num)->n_sign = MINUS;
    ptr++;
}
else
{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
    digits = 0;
}
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);

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

/* pn prints the number NUM in base 10. */
static void
out_char (int c)
{
    putchar(c);
}

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

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

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Version 2.1, February 1999

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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
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of these things:

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with the Library, with the complete machine-readable "work that
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user can modify the Library and then relink to produce a modified
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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
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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.

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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.

Author: Julio Merino <jmmv84@gmail.com>

---

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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1.367 libsm 1.2.2

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1.368 kerberos 1.16

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```
cmd/krb5/prop/prop.x
```
```
cmd/krb5/prop/prop_hdr.h
```
```
cmd/krb5/kadmin/server/ipropd_svc.c
```
```
cmd/krb5/kprop_log/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
```
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```
```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
```
```
lib/krb5/kdb/kdb_convert.c
```
```
lib/krb5/kdb/kdb_hdr.h
```
```
lib/krb5/kdb/kdb_log.c
```
```
lib/krb5/kdb/kdb_log.h
```
```
lib/libgss/g_accept_sec_context.c
```
```
lib/libgss/g_acquire_cred.c
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```
lib/libgss/g_canon_name.c
```
```
lib/libgss/g_compare_name.c
```
```
lib/libgss/g_context_time.c
```
```
lib/libgss/g_delete_sec_context.c
```
```
lib/libgss/g_dsp_name.c
```
```
lib/libgss/g_dsp_status.c
```
```
lib/libgss/g_dup_name.c
```
```
lib/libgss/g_exp_sec_context.c
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```
lib/libgss/g_export_name.c
```
```
lib/libgss/g_glue.c
```
```
lib/libgss/g_imp_name.c
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lib/libgss/g_imp_sec_context.c
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lib/libgss/g_init_sec_context.c
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lib/libgss/g_initialize.c
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lib/libgss/g_inquire_context.c
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lib/libgss/g_inquire_cred.c
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lib/libgss/g_inquire_names.c
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lib/libgss/g_process_context.c
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lib/libgss/g_rel_buffer.c
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lib/libgss/g_rel_cred.c
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lib/libgss/g_rel_name.c
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lib/libgss/g_rel_oid_set.c
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lib/libgss/g_seal.c
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lib/libgss/g_sign.c
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lib/libgss/g_store_cred.c
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lib/libgss/g_unseal.c
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```
lib/libgss/g_userok.c
```
```
lib/libgss/g_utils.c
```
```
lib/libgss/g_verify.c
```
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in src/lib/gssapi, including the following files:
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_acquire_cred</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_canon_name</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_compare_name</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_context_time</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_delete_sec_context</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_dsp_name</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_dsp_status</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_dup_name</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_exp_sec_context</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_export_name</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_glue</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_imp_name</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_imp_sec_context</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_init_sec_context</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_initialize</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_inquire_context</span><span class="o">.</span><span class="n">c</span>
and the initial implementation of incremental propagation, including
the following new or changed files:

- include/iprop_hdr.h
- kadm5/server/ipropd_svc.c
- lib/kdb/iprop/ipropd.c
- lib/kdb/kdb_log.c
- lib/kdb/kdb_log.h
- lib/krb5/error_tables/kdb5_err.et
- kprop/kprop/kpropd_rpc.c
- kprop/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_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
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/krb5_err.et
    kprop/kpropd_rpc.c
    kprop/kproplg.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
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if indicates_license(line):
            is_license = True
            break
    return is_license

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# Open Source Used In FXOS MIO 2.11.1  4706
if not is_license and indicates_license(line):
    is_license = True
if text_seen:
    warn(fname, ln, 'License begins after first line of comment')
elif code_seen:
    warn(fname, ln, 'License after code')
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
break
# DB2 licenses start with '/*- ' and we don't want to change them.
if line != '' and line != ' ':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* (.*) (- .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\*.*? */', '', line)
        line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
```python
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
    =================================

    .. toctree::
       :hidden:

       copyright.rst

    .. include::  notice.rst

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    /* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
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------------------------------------------------------------------------------
>>IMAGE<<<<<<<<<<<<<<<<<<<<<<[incr Tcl]<<<<<<<<<<<<<<<<<

AUTHOR:  Michael J. McLennan
         Bell Labs Innovations for Lucent Technologies
         mmclennan@lucent.com
         http://www.tcltk.com/tcl

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1.377 usb-modeswitch 1.2.7 6.el7

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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
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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1.381 tftp-hpa 5.2

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

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
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}/man1,8
mkdir -p ${RPM_BUILD_ROOT}_%{_sbindir}
makedir INSTALLROOT=${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
rmdir -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),
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- xinetd shouldn't wait on tftp (which forks) (#23923).

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- 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)
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 %{_buildroot}
mkdir -p %{_bindir}
mkdir -p %{_mandir}/man{1,8}
mkdir -p %{_sbindir}
make INSTALLROOT=%{_buildroot} \\
  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 %{_buildroot}

%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)
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* 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/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec
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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h
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Original Author:
- [Dave Gamble](https://github.com/DaveGamble)

Current Maintainer:
- [Max Bruckner](https://github.com/FSMaxB)
- [Alan Wang](https://github.com/Alanscut)

Contributors:
* [Ajay Bhargav](https://github.com/ajaybhargav)
* [Alper Akcan](https://github.com/alperakcan)
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1.393 e2fsprogs 1.44.3

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#
# 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

deq:	$(BSD_LIB)

$(BSD_LIB): $(OBJ)
(cd pic; ld -bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_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)/$(BSDLIB_LIB)
@-$(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)
$(RM) -f ./$(BSDLIB_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

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Theodore Ts'o
23-June-2007

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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
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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 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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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:

http://sourceforge.net/projects/e2fsprogs

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

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This is the Debian GNU/Linux prepackaged version of the ss
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This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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* Tim Martin
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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
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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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#!/usr/bin/perl -O777 -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'
(?::[^n])
#BEFORE
(?::
    b4_copyright\([[]]*\]
    | m4_(?:push|pop)def\([b4_copyright_years]
)
#AFTER
)
(?:
   \s*
   (\[^\d{4}\(\.:\[^\d{4}\.-]*\(\[^\d{4}\]\)\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}\n    (?: \n    (\|--\n    (??{
      if  ($2 eq '-')  { $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/\n(.{1,$text_margin})\n\n(?::|$))/
    || ($year_lines =~ s/\n([$]+\n)?(?::|$))/
    {
        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\}/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_re;
    pos () = $start;
    $re =~ s/#BEFORE/\G/;
    if (!/$re/x)
    {
        my $line = (substr ($_, 0, $start) =~ s/\n\n(?::|$))/ + 1;
        print STDERR
        "$ARGV:$line: warning: failed to update a bb4\_copyright\n"
    }
    pos () = $end;
}

while (/\{bb4\_copyright\_years\}/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_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;

1.397 rsyslog 7.4.7 12.el7

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Version 3, 29 June 2007

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1.400 autogen 5.18-5

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AUTHOR: Michael J. McLennan

Bell Labs Innovations for Lucent Technologies

mmclennan@lucent.com

http://www.tcltk.com/tcl

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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-ftpdistrotech-tftp-hpa/tftp/tftpdistrotech-tftp-hpa/tftp/remap.c
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-ftpdistrotech-tftp-hpa/tftp/tftpdistrotech-tftp-hpa/tftp/remap.h

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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-ftpdistrotech-tftp-hpa/tftp/hpa/tftpdistrotech-tftp-hpa/tftp/misc.c
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-ftpdistrotech-tftp-hpa/tftp/hpa/tftpdistrotech-tftp-hpa/tftp/remap.c
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-ftpdistrotech-tftp-hpa/tftp/hpa/tftpdistrotech-tftp-hpa/tftp/remap.h

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`"------------------------------------------------------------ */
hpa/tftpd/tftpd.8.in
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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-1z/tftp-hpa-distrotech-tftp-
hpa/common/tftpsubs.h
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-1z/tftp-hpa-distrotech-tftp-
hpa/tftpp.extern.h
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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

%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} \ninstall
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

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

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

%clean
rm -rf ${RPM_BUILD_ROOT}

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

%files server
%defattr(-,root,root)
%{_bindir}/tftp
%{_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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Found in path(s):
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
hpa/tftp/tftp.1.in
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Found in path(s):
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
hpa/tftpd/recvfrom.c
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-
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/opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/tftpd.c

1.403 libgcrypt 1.5.3 14.el7

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

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

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

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

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

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

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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1.415 udev 3.2.5
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1.416 cracklib 2.9.1
1.416.1 Available under license:

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----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.
[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attaches: 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
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

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

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

thus LGPL-2.1 enters to fill this void.

--mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

-- Nathan

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

--------Original Message--------
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what
it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

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

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

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

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

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

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

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

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

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

Cheers,

Nalin

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 SMTPSVCS(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 SMTPSVCS(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 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 11CoC-X-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: <1b1b3fd80710010908k11dac0aftp1f2dd471059ff9a4@mail.gmail.com>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence
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**L**

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

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1.417 python 3.3.0
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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)
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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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Mersenne Twister

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

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

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

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

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

Sockets
-------

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

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Asynchronous socket services
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UUencode and UUdecode functions

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

XML Remote Procedure Calls

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

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

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AUTHOR: Michael J. McLennan
Bell Labs Innovations for Lucent Technologies
mmclennan@lucent.com
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-----------------------------------------------

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

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1.423 lua 5.3.3

1.424 zlib 1.2.3

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   The data format used by the zlib library is described by RFCs (Request for
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   (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
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/* match.s -- Pentium-optimized version of longest_match()
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*/
1.425 iproute 3.10.0 54.el7_2.1

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

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

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

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

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

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

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

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The End

1.430 zlib 1.2.3

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

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* 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 3a0982da308228d796df35f98d787c5c0f2bb5b6.

  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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1.432 libxext 1.3.1

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1.433 libnl3 1.1.4-3.el7

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