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1.2 tar 1.30

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1.4 gawk 4.1.1

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1.5 kerberos 1.16

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```c
lib/gssapi/gssapi_err_generic.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_gss_krb5.c
```
<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_canon_name.c</span>

<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_compare_name.c</span>

<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_context_time.c</span>

<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_delete_sec_context.c</span>

<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_dsp_name.c</span>

<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_dsp_status.c</span>

<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_dup_name.c</span>

<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_dup_sec_context.c</span>

<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_export_name.c</span>

<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_glue.c</span>

<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_imp_name.c</span>

<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_imp_sec_context.c</span>

<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_init_sec_context.c</span>

<span class="n">lib</span>/<span class="n">gssapi</span>/<span class="n">class</span>/<span class="n">mechglue</span>/<span class="n">g_initialize.c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class/mecglue</span><span class="o">/</span><span class="n">g_inquire_names</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/mecglue</span><span class="o">/</span><span class="n">g_process_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/mecglue</span><span class="o">/</span><span class="n">g_rel_buffer</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/mecglue</span><span class="o">/</span><span class="n">g_rel_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/mecglue</span><span class="o">/</span><span class="n">g_rel_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/mecglue</span><span class="o">/</span><span class="n">g_rel_oid_set</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/mecglue</span><span class="o">/</span><span class="n">g_seal</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/mecglue</span><span class="o">/</span><span class="n">g_sign</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/mecglue</span><span class="o">/</span><span class="n">g_store_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/mecglue</span><span class="o">/</span><span class="n">g_unseal</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/mecglue</span><span class="o">/</span><span class="n">g_userok</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/mecglue</span><span class="o">/</span><span class="n">g_verify</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/mecglue</span><span class="o">/</span><span class="n">gssd_pname_to_uid</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/mecglue</span><span class="o">/</span><span class="n">mglueP</span><span class="o">.</span><span class="n">h</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class/mecglue</span><span class="o">/</span><span class="n">oid_ops</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`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.x`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/krb5/error_tables/kdb5_err.et`
- `kprop/kpropd_rpc.c`
- `kprop/kproplg.c`

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.. parsed-literal::

   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
   lib/gssapi/mechglue/g_imp_name.c
   lib/gssapi/mechglue/g_imp_sec_context.c
   lib/gssapi/mechglue/g_init_sec_context.c
   lib/gssapi/mechglue/g_initialize.c
   lib/gssapi/mechglue/g_inquire_context.c
   lib/gssapi/mechglue/g_inquire_cred.c
   lib/gssapi/mechglue/g_inquire_names.c
   lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_unseal.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    kprop/kpropd_rpc.c
    kprop/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
and the initial implementation of incremental propagation, including the following new or changed files:

```
lib/gssapi/spnego/spnego_mech.c
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
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.
    is_license = 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'^\s*\*\s*/', '', line)
        line = line.strip()

        if not in_comment and '/\* ' in line:
            (line, sep, comment_part) = line.partition('/\* ')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                     code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False

        # DB2 licenses start with '/\*-' and we don't want to change them.
        if line != '' and line != '-':
            text_seen = True
            return is_license
elif line.strip() != "":
    code_seen = True

ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
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1.7 zlib 1.2.1.2

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

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1.8 avahi 0.6
1.8.1 Available under license :

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

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

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

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

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

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

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.

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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.

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

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

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### 1.12 iputils 20121221 7.el7

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1.14 unzip 6.0

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

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

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

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

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.
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* MoreFiles
*
* A collection of File Manager and related routines
*
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* with significant code contributions by Nitin Ganatra
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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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-----

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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
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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.

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

1.15 python 2.7.15

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

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

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

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<th>Owner</th>
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|----------------+--------------+-----------+------------+-----------------+
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|----------------+--------------+-----------+------------+-----------------+
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes             |
|----------------+--------------+-----------+------------+-----------------+
| 1.6            | 1.5.2        | 2000      | CNRI       | no              |
|----------------+--------------+-----------+------------+-----------------+
| 2.0            | 1.6          | 2000      | BeOpen.com | no              |
|----------------+--------------+-----------+------------+-----------------+
| 1.6.1          | 1.6          | 2001      | CNRI       | no              |
|----------------+--------------+-----------+------------+-----------------+
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no              |
|----------------+--------------+-----------+------------+-----------------+
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes             |
|----------------+--------------+-----------+------------+-----------------+
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes             |
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Mersenne Twister
-----------------

The `mod: '_random` module includes code based on a download from
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the verbatim comments from the original code::

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

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

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):
2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

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

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

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

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

.. highlight:: none

.. _history-and-license:

*******************

History and License

*******************
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========================

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

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

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

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

The :mod:`_random` module includes code based on a download from 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
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Sockets
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MD5 message digest algorithm

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

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

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

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

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2krr rather than md5);
added conditionization for C++ compilation from Martin
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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============================

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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 3a0982da308228d796df35f98d787c5cfcf2bb5b6.

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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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
as needed. This means that data must always be copied to create the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer.
Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:
  1) skb->destructor / skb->atm.recycle_buffer
     combined, allow nicstar_free_rx_skb to be called to recycle large data buffers
  2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation details.

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M. Welsh, 6 July 1996

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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1.24 sysstat 8.1.2

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    <signature of Ty Coon>, 1 April 1989
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1.30 grep 2.20 2.el7
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1.31 libuser 0.60

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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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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That's all there is to it!

1.32 gawk 4.2.1
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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


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

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

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

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

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
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same work.

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

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

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

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts.
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invalidate such permission if you have separately received it.

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work need not make them do so.

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

6. Conveying Non-Source Forms.

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

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

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

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

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

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

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

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1.33 syslog-ng 3.16.1

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58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.42 mtd-utils 1.5.2

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.44 mii-tool 1.9.1.1
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Version 2, June 1991

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The of the start-stop-daemon

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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L. Peter Deutsch
ghost@aladdin.com

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1.69 glib 2.40.0

1.70 fcgi 2.4.0-25.e17

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49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
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be optional: if the application does not supply it, the square
root function must still compute square roots.)

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

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

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

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

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

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 materials or that you have already sent this user a copy.

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

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operating system, as well as its variant, the GNU/Linux operating system.

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and installation of the library.

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@end enumerate

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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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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:

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

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

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

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

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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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only if you received the object code with such an offer, in accord
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1.97 ntp 4.2.8p13

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copyright = {
    date = "1992-2017";
    owner = "The University of Delaware and Network Time Foundation";
    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    type = ntp;
};

long-opt;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=`sed -e 's/\,*I/\!*\,'e 's/\]*\,'< ../sntp/m4/version.m4`
    [ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
    echo $VERSION';

version-value = ""/* Don't use -v as a shortcut for --version */

/*
* HMS: man pages already have this, and texi pages can use the
* values in snntp/include/version.texi .
*/
// doc-sub = {
//    sub-name = version;
//    sub-text = 's/#VERSION#/<<version>>/g';
// } ;

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<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

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- Mark Andrews &lt;mark_andrews@isc.org&gt; Leitch atomic clock controller
- Bernd Altmeier &lt;altmeier@atlsoft.de&gt; hopf Elektronik serial line and PCI-bus devices
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<li>Casey Crellin &lt;casey@csc.co.za&gt;: vxWorks (Tornado) port and help with target configuration</li>
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JPG "Clone me," says Dolly sheepishly.

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***********************************************************************

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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
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[17] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
[18] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
[19] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
[20] Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
[21] Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
[22] Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
[23] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
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[27] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
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[30] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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[32] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
[33] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
[34] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
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43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <nrs@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
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1.112 glibc 2.17-106.el7_2.8

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1.114 zlib 1.2.7 15.el7

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1.115 python 3.7.4

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*******************
History and License
*******************

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

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

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

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

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+----------------+--------------+------------+------------+-----------------+
| Release        | Derived from | Year       | Owner      | GPL compatible? |
|----------------+--------------+------------+------------+-----------------+

Open Source Used In FXOS HIGH END 2.9.1.157 1492
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```
A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

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

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

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UUrencode 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
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- Arguments more compliant with Python standard

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

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zlib
----

The :mod:`zlib` extension is built using an included copy of the zlib
sources if the zlib version found on the system is too old to be
used for the build::

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cfuhash
-------

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libmpdec
-------

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

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

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

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1.122 junit 4.1.jar.pack

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1.123 curl 7.43.0
1.123.1 Available under license:
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============

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

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1.124 groff 1.22.2

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. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.


  src/preproc/grn/gprint.h
  src/preproc/grn/hdb.cpp
  src/preproc/grn/hgraph.cpp
  src/preproc/grn/hpoint.cpp
  src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

  src/devices/xditview/DESC.in
  src/devices/xditview/Dvi.c
  src/devices/xditview/Dvi.h
Macro Packages
------------

. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
Hyphenation Patterns

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

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehypht-x-2017-03-31.pat' and `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

http://ctan.org/tex-archive/language/hyphenation/dehyp-exptl

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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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

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

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

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

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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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1.130 netbsd-resolv 2.17-196.el7_4.2

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1.131 xfsprogs 4.18.0

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```
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1.132 shared-mime-info 1.1

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    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:if test="translate($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:stylesheet>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

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

  Author: Julio Merino <jmmv84@gmail.com>

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

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1.136 rng-tools 6.5

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man/bitstring.3bsd
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man/explicit_bzero.3bsd
man/fgetln.3bsd
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* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftp/main.c
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.c
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.c

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

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* 
* ........................................................................ */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49/tftpd/remap.h
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49/tftpd/remap.c
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49/tftp/tftp.1.in
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```
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"---" /* nroff */
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49/tftp/tftp.1.in
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* ----------------------------------------------------------------------- */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.h
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.c

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

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.h

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

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 0.49
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildPreReq: tcp_wrappers
BuildRoot: %{_tmppath}/%{name}-root

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

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd
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
* 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 <bj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <bj@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 <bj@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 <sjb@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 <sjb@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 <sjb@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 <sjb@redhat.com>
  - update to 0.16.

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

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

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)
* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.

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

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

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

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

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec
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 */
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@page
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@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
@end ifex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

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

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

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

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

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^L

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That's all there is to it!

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

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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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1.141 vim 8.1.0347

1.142 busybox 1.29.2
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1.143 go-runtime 1.12

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**1.144 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.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c5f2bb5b6.

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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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1.145 gettext 0.19.8.1

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the `Lesser` General Public License because it does `Less` to protect the user's freedom than the ordinary General Public License. It also provides other free software developers `Less` of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `work based on the library` and a `work that uses the library`. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
@end enumerate
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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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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

  @item
  Verify that the user has already received a copy of these
  materials or that you have already sent this user a copy.
@end enumerate

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

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

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

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

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

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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

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Ty Coon, President of Vice

That's all there is to it!

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@page
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1.153 libx11 1.6.4

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also compile or
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
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* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.159 tdb 1.44.3

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

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

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

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

all:: image

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

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

image::$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This 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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Theodore Ts'o
23-June-2007

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.162 httpfs2 0.1.4

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

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1.165 procps 3.3.15
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This package was debianized by Ron Lee <ron@debian.org> on Sun, 13 Feb 2000 18:40:00 +1030.

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

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-- Ron

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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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necessary. Here is a sample; alter the names:

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

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wxWindows adopted the code out of Tcl 8.4.5. Portions of rege_locale.c
and re_syntax.n were developed by Tcl developers other than Henry Spencer;
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******************************************************************************
The wxWindows licence applies to further modifications to regcustom.h
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Version 2, June 1991

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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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1.175 sqlite 3.14.2

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

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

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

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

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

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

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

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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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1.181 cracklib 2.9.1
1.181.1 Available under license :

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

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

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

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

-- 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=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 dictate what license they should be using. Thus LGPL-2.1 enters to fill this void.

=Dmike

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

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
> >20
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isnt the
> > place of a
> > library to dictact to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

Devin
--
If it's sinful, it's more fun.
Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

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

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

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

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

Cheers,

Nalin

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

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

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

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes. go for it. thanks++

-a

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

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

yes. go for it. thanks++

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

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

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

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

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from 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 (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 1IcOcX-0004Qt-6L
    for nneul@neulinger.org: Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=fowled
Message-Id: <1171A264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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Licenses are intended to guarantee your freedom to share and change


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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

*L.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

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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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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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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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a storage or distribution medium does not bring the other work under
the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

.

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bmp
src/devices/xditview/gray2.bmp
src/devices/xditview/gray3.bmp
src/devices/xditview/gray4.bmp
src/devices/xditview/gray5.bmp
src/devices/xditview/gray6.bmp
src/devices/xditview/gray7.bmp
src/devices/xditview/gray8.bmp
src/devices/xditview/gxditview.man
Macro Packages
-------------

. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
  tmac/doc-syms
  tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
  tmac/groff_me.man
  doc/meintro.me
  doc/meintro_fr.me
  doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

   http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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Preamble

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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

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

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

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

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

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

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

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

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

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This option is useful when you wish to copy part of the code of
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If distribution of object code is made by offering access to copy
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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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.
1.194 perl 5.24.4
1.194.1 Available under license:

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

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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.
"
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
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version: 3

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The End
#!perl
=head1 NAME
copyright.t
=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); } my ($opt) = @ARGV;

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

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";
    # The copyright message is the first paragraph:
    local $/ = '';
    my $copyright_msg = <$readme>;
    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";
    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})\b/s
        or die "Copyright statement not found in perl -v output '$output'";
    $year;
}
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Version 3, 29 June 2007

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*/

1.198 webencodings 0.5.1

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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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from setuptools import setup, find_packages
import io
import re

VERSION = re.search("VERSION = '([^']+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__file__', 'webencodings', 'x_user_defined.py'),
    encoding='utf-8').read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8').read()

setup(

)
name='webencodings',
version=VERSION,
url='https://github.com/SimonSapin/python-webencodings',
license='BSD',
author='Simon Sapin',
author_email='simon.sapin@exyr.org',
maintainer='Geoffrey Sneddon',
maintainer_email='me@gsnedders.com',
description='Character encoding aliases for legacy web content',
long_description=LONG_DESCRIPTION,
classifiers=[
    'Development Status :: 4 - Beta',
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.9400/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/setup.py
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---

webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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---

import json
try:
from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = ['""
    
    webencodings.labels
    
    Map encoding labels to their name.
    
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    # XXX Do not edit!
    # This file is automatically generated by mklables.py

    LABELS = {
        ""
    }
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
        repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s %s, %s
        ' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}
    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard`_
(http://encoding.spec.whatwg.org/).

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``. and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
python-webencodings

This is a Python implementation of the `WHATWG Encoding standard`_.

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* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
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1.199 tcl 8.6.8

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------------------------------------------------------------------------
 >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

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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
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
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Cheloha, Scott
ek, Vitezslav
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Cusack, Frank
Dai, Wei
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Faigon, Ariel
Farrell, Brian
Fobes, Steve
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G., Daniel Richard
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Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
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Kopeek, Daniel
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Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Zolnowsky, Yuri
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Hamming, Peter
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Nurmi, Lauri
Nikoli, Miroslav
Nylander, Daniel
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erbnescu, Daniel
Sikrom, ka
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Uranga, Mikel Olasagasti
Vorotnikov, Artem
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The following people designed the artwork used on the sudo website:
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1.207 ncurses 6.0

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.3 2015/01/03 20:12:01 tom Exp $
1.208 dosfs-tools 2.11

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@c End:
1.211 ptpd v1rc1

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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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1.215 lasso 2.5.1

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1.219 e2fsprogs 1.42.9 7.el7

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===================================================================
--- 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

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 -
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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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Theodore Ts'o
23-June-2007

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That's all there is to it!
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libcse
# 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 = -f-pic

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

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

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$$$(RM) -f $$$(DESTDIR)$$$(BSDLIB_INSTALL_DIR)/$$$(BSD.Lib)

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

This is the Debian GNU/Linux prepackaged version of the 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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* $Id: smtp-strings.c,v 1.3 2006/06/11 21:46:37 adam Exp $
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 * $Id: webserver.h,v 1.2 2006/06/11 21:46:38 adam Exp $
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* Author: Adam Dunkels <adam@sics.se>
* $Id: httpd.c,v 1.2 2006/06/11 21:46:38 adam Exp $
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 * Author: Adam Dunkels <adam@sics.se>
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 * $Id: lc-switch.h,v 1.2 2006/06/12 08:00:30 adam Exp $
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* Author: Adam Dunkels <adam@sics.se>

* $Id: memb.h,v 1.1 2006/06/12 08:21:43 adam Exp $

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*
* $Id: main.c,v 1.16 2006/06/11 21:55:03 adam Exp $

* /opt/cola/permits/1151118424_1618480542.71/0/uip-master-zip/uip-master/unix/main.c

---
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/**
defgroup pt Protothreads

Protothreads are a type of lightweight stackless threads designed for severely memory constrained systems such as deeply embedded systems or sensor network nodes. Protothreads provides linear code execution for event-driven systems implemented in C. Protothreads can be used with or without an RTOS.

Protothreads are a extremely lightweight, stackless type of threads that provides a blocking context on top of an event-driven system, without the overhead of per-thread stacks. The purpose of protothreads is to implement sequential flow of control without complex state machines or full multi-threading. Protothreads provides conditional blocking inside C functions.

The advantage of protothreads over a purely event-driven approach is that protothreads provides a sequential code structure that allows for blocking functions. In purely event-driven systems, blocking must be implemented by manually breaking the function into two pieces - one for the piece of code before the blocking call and one for the code after the blocking call. This makes it hard to use control structures such as if() conditionals and while() loops.

The advantage of protothreads over ordinary threads is that a protothread do not require a separate stack. In memory constrained systems, the overhead of allocating multiple stacks can consume large amounts of the available memory. In contrast, each protothread only requires between two and twelve bytes of state, depending on the architecture.

\note Because protothreads do not save the stack context across a blocking call, 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 extremely lightweight, stackless threads that provide 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 provide conditional blocking inside a C function.

In memory constrained systems, such as deeply embedded systems, traditional multi-threading may have 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 provide blocking contexts inside a C function, whereas Python generators provide multiple exit points from a generator function.

\section{pt-autovars Local variables}

\note

Because protothreads do not save the stack context across a blocking call, local variables are not preserved when the protothread blocks. This means that local variables should be used with utmost care - if in doubt, do not use local variables inside a protothread!

\section{pt-scheduling Scheduling}

A protothread is driven by repeated calls to the function in which the protothread is running. Each time the function is called, the protothread will run until it blocks or exits. Thus the scheduling of protothreads is done by the application that uses protothreads.

\section{pt-impl Implementation}

Protothreads are implemented using \ref lc "local continuations". A local continuation represents the current state of execution at a particular place in the program, but does not provide any call history or local variables. A local continuation can be set in a specific function to capture the state of the function. After a local continuation has been set can be resumed in order to restore the state of the function at the point where the local continuation was set.
Local continuations can be implemented in a variety of ways:

- by using machine specific assembler code,
- by using standard C constructs, or
- by using compiler extensions.

The first way works by saving and restoring the processor state, except for stack pointers, and requires between 16 and 32 bytes of memory per protothread. The exact amount of memory required depends on the architecture.

The standard C implementation requires only two bytes of state per protothread and utilizes the C switch() statement in a non-obvious way that is similar to Duff's device. This implementation does, however, impose a slight restriction to the code that uses protothreads in that the code cannot use switch() statements itself.

Certain compilers have C extensions that can be used to implement protothreads. GCC supports label pointers that can be used for this purpose. With this implementation, protothreads require 4 bytes of RAM per protothread.

@ {

*/

/** @} */ */

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Author: Adam Dunkels <adam@sics.se>

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* $Id: uip_arp.h,v 1.5 2006/06/11 21:46:39 adam Exp $
*
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 * $Id: memb.c,v 1.1 2006/06/12 08:21:43 adam Exp $
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1.241 tiny-xml 0.9.5-5.3.el6

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TinyXML is a simple, small, C++ XML parser that can be easily integrated into other programs.

In brief, TinyXML parses an XML document, and builds from that a Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create your own document markups. Where HTML does a very good job of marking documents for browsers, XML allows you to define any kind of document markup, for example a document that describes a "to do" list for an organizer application. XML is a very structured and convenient format. All those random file formats created to store application data can all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to read spec is at [http://www.w3.org/TR/2004/REC-xml-20040204/](http://www.w3.org/TR/2004/REC-xml-20040204/). An intro to XML (that I really like) can be found at [http://skew.org/xml/tutorial/](http://skew.org/xml/tutorial/).

There are different ways to access and interact with XML data. TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed into a C++ objects that can be browsed and manipulated, and then written to disk or another output stream. You can also construct an XML document from scratch with C++ objects and write this to disk or another output.
TinyXML is designed to be easy and fast to learn. It is two headers and four cpp files. Simply add these to your project and off you go. There is an example file - xmltest.cpp - to get you started.

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TinyXML attempts to be a flexible parser, but with truly correct and compliant XML output. TinyXML should compile on any reasonably C++ compliant system. It does not rely on exceptions or RTTI. It can be compiled with or without STL support. TinyXML fully supports the UTF-8 encoding, and the first 64k character entities.

<h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs (eXtensible Stylesheet Language.) There are other parsers out there (check out www.sourceforge.org, search for XML) that are much more fully featured. But they are also much bigger, take longer to set up in your project, have a higher learning curve, and often have a more restrictive license. If you are working with browsers or have more complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

@verbatim
<!DOCTYPE Archiv [  
<!ELEMENT Comment (#PCDATA)>  
]>
@endverbatim

because TinyXML sees this as a !DOCTYPE node with an illegally embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For the impatient, here is a tutorial to get you going. A great way to get started, but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find
bugs, please file a bug report on the sourceforge web site (www.sourceforge.net/projects/tinyxml). We'll get them straightened out as soon as possible.

There are some areas of improvement; please check sourceforge if you are interested in working on TinyXML.

<h2>Related Projects</h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

<ul>
<li><b>TinyXPath</b> (http://tinyxpath.sourceforge.net). TinyXPath is a small footprint XPath syntax decoder, written in C++.</li>
<li><b>TinyXML++</b> (http://code.google.com/p/ticpp/). TinyXML++ is a completely new interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling.</li>
</ul>

<h2>Features</h2>

<h3>Using STL</h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML uses the std::string class, and fully supports std::istream, std::ostream, operator<<, and operator>>. Many API methods have both 'const char*' and 'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All the string classes are implemented by TinyXML itself. API methods all use the 'const char*' form for input.

Use the compile time #define:

TIXML_USE_STL

to compile one version or the other. This can be passed by the compiler, or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment variable TINYXML_USE_STL=YES/NO will control STL compilation. In the Windows project file, STL and non STL targets are provided. In your project, It's probably easiest to add the line "#define TIXML_USE_STL" as the first line of tinyxml.h.

<h3>UTF-8</h3>

TinyXML supports UTF-8 allowing to manipulate XML files in any language. TinyXML
also supports "legacy mode" - the encoding used before UTF-8 support and probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However, by setting the value of TIXML_DEFAULT_ENCODING in the header file, TinyXML can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

- If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf) begin the file or data stream, TinyXML will read it as UTF-8.
- If the declaration tag is read, and it has an encoding="UTF-8", then TinyXML will read it as UTF-8.
- If the declaration tag is read, and it has no encoding specified, then TinyXML will read it as UTF-8.
- If the declaration tag is read, and it has an encoding="something else", then TinyXML will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's not clear what that mode does exactly, but old content should keep working.
- Until one of the above criteria is met, TinyXML runs in Legacy Mode.

What happens if the encoding is incorrectly set or detected? TinyXML will try to read and pass through text seen as improperly encoded. You may get some strange results or mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile( TIXML_ENCODING_LEGACY ) or LoadFile( filename, TIXML_ENCODING_LEGACY ). You may force it to use legacy mode all the time by setting TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY. Likewise, you may force it to TIXML_ENCODING_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You don't need to be aware of UTF-8 or change your code in any way. You can think of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode! TinyXML does not use or directly support wchar, TCHAR, or Microsoft's _UNICODE at this time. It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding. Text encoded as SHIFT-JIS can not be read by TinyXML.
A good text editor can import SHIFT-JIS and then save as UTF-8.

The `<a href="http://skew.org/xml/tutorial/">Skew.org link</a>` does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file "utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that Print() or printf() cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

<h3>Entities</h3>
TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:

```verbatim
&verbatim
&amp; &
&lt; &lt;
&gt; &gt;
" &quot;
' &apos;
@endverbatim
```

These are recognized when the XML document is read, and translated to there UTF-8 equivalents. For instance, text with the XML of:

```verbatim
Far & Away
@endverbatim
```

will have the Value() of "Far & Away" when queried from the TiXmlText object, and will be written back to the XML stream/file as an ampersand. Older versions of TinyXML "preserved" character entities, but the newer versions will translate them into characters.

Additionally, any character can be specified by its Unicode code point:
The syntax "\ux{A0}" or "\ux{160}" are both to the non-breaking space character.

<h3>Printing</h3>
TinyXML can print output in several different ways that all have strengths and limitations.

- Print( FILE* ). Output to a std-C stream, which includes all C files as well as stdout.
- "Pretty prints", but you don't have control over printing options.
- The output is streamed directly to the FILE object, so there is no memory overhead
  in the TinyXML code.
- used by Print() and SaveFile()

- operator<<. Output to a c++ stream.
- Integrates with standard C++ iostreams.
- Outputs in "network printing" mode without line breaks. Good for network transmission
  and moving XML between C++ objects, but hard for a human to read.

- TiXmlPrinter. Output to a std::string or memory buffer.
- API is less concise
- Future printing options will be put here.
- Printing may change slightly in future versions as it is refined and expanded.

<h3> Streams </h3>
With TIXML_USE_STL on TinyXML supports C++ streams (operator <<,>>) streams as well as C (FILE*) streams. There are some differences that you may need to be aware of.

C style output:
- based on FILE*
- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

C style input:
- based on FILE*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:
- based on std::ostream
- operator<<

Generates condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:
- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky
part is knowing when the XML document is complete, since there will almost
certainly be other data in the stream. TinyXML will assume the XML data is
complete after it reads the root element. Put another way, documents that
are ill-constructed with more than one root element will not read correctly.
Also note that operator>> is somewhat slower than Parse, due to both
implementation of the STL and limitations of TinyXML.

<h3> White space </h3>
The world simply does not agree on whether white space should be kept, or condensed.
For example, pretend the '_' is a space, and look at "Hello____world". HTML, and
at least some XML parsers, will interpret this as "Hello_world". They condense white
space. Some XML parsers do not, and will leave it as "Hello____world". (Remember
to keep pretending the _ is a space.) Others suggest that __Hello_____world__ should become
Hello____world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the
first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace( bool ) to set the desired behavior.
The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace( bool )
before making any calls to Parse XML data, and I don't recommend changing it after
it has been set.

<h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check
for null returns from method calls. An error safe implementation can
generate a lot of code like:

@verbatim
TiXmlElement* root = document.FirstChildElement( "Document" );
if ( root )
{
    TiXmlElement* element = root->FirstChildElement( "Element" );
    if ( element )
    {
        TiXmlElement* child = element->FirstChildElement( "Child" );
        if ( child )
        {
            TiXmlElement* child2 = child->NextSiblingElement( "Child" );
            if ( child2 )
            {
                // Finally do something useful.
            }
        }
    }
@endverbatim

Handles have been introduced to clean this up. Using the TiXmlHandle class,
the previous code reduces to:
@verbatim
TiXmlHandle docHandle( &document );
if ( child2 )
{
// do something useful
@endverbatim

Which is much easier to deal with. See TiXmlHandle for more information.

<h3> Row and Column tracking </h3>
Being able to track nodes and attributes back to their origin location in source files can be very important for some applications. Additionally, knowing where parsing errors occurred in the original source can be very time saving.

TinyXML can track the row and column origin of all nodes and attributes in a text file. The TiXmlBase::Row() and TiXmlBase::Column() methods return the origin of the node in the source text. The correct tabs can be configured in TiXmlDocument::SetTabSize().

<h2> Using and Installing </h2>
To Compile and Run xmltest:

A Linux Makefile and a Windows Visual C++ .dsw file is provided. Simply compile and run. It will write the file demotest.xml to your disk and generate output on the screen. It also tests walking the DOM by printing out the number of nodes found using different techniques.

The Linux makefile is very generic and runs on many systems - it is currently tested on mingw and MacOSX. You do not need to run 'make depend'. The dependencies have been hard coded.

<h3>Windows project file for VC6</h3>
<ul>
<li>tinyxml: tinyxml library, non-STL</li>
<li>tinyxmlSTL: tinyxml library, STL</li>
<li>tinyXmlTest: test app, non-STL</li>
<li>tinyXmlTestSTL: test app, STL</li>
</ul>
<h3>Makefile</h3>
At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML_USE_STL. Details (such that they are) are in
the makefile.

In the tinyxml directory, type "make clean" then "make". The executable
file 'xmltest' will be created.

<h3>To Use in an Application:</h3>
Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your
project or make file. That's it! It should compile on any reasonably
compliant C++ system. You do not need to enable exceptions or
RTTI for TinyXML.

<h2>How TinyXML works.</h2>
An example is probably the best way to go. Take:
@verbatim
<?xml version="1.0" standalone=no>
<!-- Our to do list data -->
<ToDo>
<Item priority="1"> Go to the <bold>Toy store!</bold></Item>
<Item priority="2"> Do bills</Item>
</ToDo>
@endverbatim

Its not much of a To Do list, but it will do. To read this file
(say "demo.xml") you would create a document, and parse it in:
@verbatim
TiXmlDocument doc( "demo.xml" );
doc.LoadFile();
@endverbatim

And its ready to go. Now lets look at some lines and how they
relate to the DOM.

@verbatim
<?xml version="1.0" standalone=no>
@endverbatim

The first line is a declaration, and gets turned into the
TiXmlDeclaration class. It will be the first child of the
document node.
This is the only directive/special tag parsed by TinyXML.
Generally directive tags are stored in TiXmlUnknown so the commands won't be lost when it is saved back to disk.

@verbatim
<!-- Our to do list data -->
@endverbatim

A comment. Will become a TiXmlComment object.

@verbatim
<ToDo>
@endverbatim

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.

@verbatim
<Item priority="1">
@endverbatim

Creates another TiXmlElement which is a child of the "ToDo" element. This element has 1 attribute, with the name "priority" and the value "1".

@verbatim
Go to the
@endverbatim

A TiXmlText. This is a leaf node and cannot contain other nodes. It is a child of the "Item" TiXmlElement.

@verbatim
<bold>
@endverbatim

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:

@verbatim
TiXmlDocument"demo.xml"
TiXmlDeclaration"version='1.0'" "standalone=no"
TiXmlComment" Our to do list data"
TiXmlElement"ToDo"

<h2>Documentation</h2>

The documentation is built with Doxygen, using the 'dox' configuration file.

<h2>License</h2>

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<h2>References</h2>

The World Wide Web Consortium is the definitive standard body for XML, and their web pages contain huge amounts of information.


I also recommend "XML Pocket Reference" by Robert Eckstein and published by O'Reilly...the book that got the whole thing started.

<h2>Contributors, Contacts, and a Brief History</h2>
Thanks very much to everyone who sends suggestions, bugs, ideas, and encouragement. It all helps, and makes this project fun. A special thanks to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still in the documentation.) Lee reviews changes and releases new versions, with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you use TinyXML. Hopefully you will enjoy it and find it useful.

Please post questions, comments, file bugs, or contact us at:

www.sourceforge.net/projects/tinyxml

Lee Thomason, Yves Berquin, Andrew Ellerton

*/

Found in path(s):
* /opt/cola/permits/1152279922_1618211323.64/0/tinyxml-2-6-2-1-tar-gz/tinyxml/readme.txt

1.242 go-runtime 1.12.1
1.242.1 Available under license:

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# This is the official list of people who can contribute
# (and typically have contributed) code to the Go repository.
# The AUTHORS file lists the copyright holders; this file
# lists people.  For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
#   http://code.google.com/legal/individual-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.
#
# Names should be added to this file like so:
#   Individual's name <submission email address>
#   Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
#
# Please keep the list sorted.

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1.244 nfs-utils 1.3.0

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

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

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>''
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-build@perl.org>.'
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

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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
use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

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

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

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

    my ($year) = $copyright_msg =~ /.*\b\d{4,}\b/;  # Match a year
    my ($year) = $copyright_msg =~ /
        Year not found in README copyright message \"$copyright_msg\"";
sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\d\{4\}\b/i
        or die "Copyright statement not found in perl -v output "$output"; 

    $year;
}

1.248 glibc 2.7
1.248.1 Available under license:
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__________________________________________________________________________

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

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

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*
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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."

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

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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.

---

1.253 zlib 1.2.3.3

1.253.1 Available under license:

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1.254 openssh 8.0-p1

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>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
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Version 3, 29 June 2007

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* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setupools-20-10-1-1-tar-gz/setupools-20.10.1/pkg_resources/_vendor/packaging/version.py
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setupools-20-10-1-1-tar-gz/setupools-20.10.1/pkg_resources/_vendor/packaging/__init__.py

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

License: UNKNOWN
Classifier: License :: OSI Approved :: MIT License

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setupools-20-10-1-1-tar-gz/setupools-20.10.1/setupools.egg-info/PKG-INFO
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setupools-20-10-1-1-tar-gz/setupools-20.10.1/PKG-INFO

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

License :: OSI Approved :: MIT License

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setupools-20-10-1-1-tar-gz/setupools-20.10.1/setup.py

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

Buildng and Distributing Packages with Setupools

`````````````````````````````````````````````````````````````````````````````````
```

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

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

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <easy_install.html>`_, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ - a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a `MANIFEST.in` file, and without having to force regeneration of the `MANIFEST` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.
* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`

Developer's Guide

Installing `setuptools`

Please follow the `EasyInstall Installation Instructions` to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations` if you are installing anywhere other than Python's `site-packages` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

.. _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first install a stable version, and then run:

```
  ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use

For basic use of setuptools, just import things from setuptools instead of 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(),
    scripts = ['say_hello.py'],
)

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

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

    python setup.py sdist

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

from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],
    # 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",
)
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 ``2.4c1`` 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 ``2.4c1`` and ``2.4c1`` 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``, ``2.4re1`` and ``2.4preview1`` are all the exact same version as
A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (``-``). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped post-release.

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

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

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

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

  >>> from pkg_resources import parse_version
  >>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
  True
  >>> parse_version('2.1-rc2') < parse_version('2.1')
  True
  >>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
  True

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* "Tagging and "Daily Build" or "Snapshot" Releases"
* "Managing "Continuous Releases" Using Subversion"
* The "egg_info" command
New and Changed \``setup()`` Keywords
=========================================

The following keyword arguments to \``setup()`` are added or changed by \``setuptools``. All of them are optional; you do not have to supply them unless you need the associated \``setuptools`` feature.

\``include_package_data``
If set to \``True``", this tells \``setuptools`` to automatically include any data files it finds inside your package directories that are specified by your \``MANIFEST.in`` file. For more information, see the section below on \``Including Data Files``.

\``exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back any excess files included by \``include_package_data``. For a complete description and examples, see the section below on \``Including Data Files``.

\``package_data``
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on \``Including Data Files``. You do not need to use this option if you are using \``include_package_data\``", unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

\``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the \``bdist_egg`` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

\``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on \``Declaring Dependencies`` for details and examples of the format of this argument.

\``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See \`Dynamic Discovery of Services and Plugins\` for details and examples of the format of this argument. In addition, this keyword is used to support \`Automatic Script Creation\`. 
``extras_require``
A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies`_ for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to be present in order for the *setup script* to run. `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in `setup_requires` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the .eggs directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to `install_requires` **and** `setup_requires`.)

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by `setup_requires` or `tests_require`. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an `.egg` file.

``namespace_packages``
A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's ``zope`` package is a namespace package, because subpackages like ``zope.interface`` and ``zope.publisher`` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's ``__init__.py`` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages`_ for more information.

``test_suite``
A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are
added to the tests to be run. If the named suite is a package, any
submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the
specified test suite, e.g. via ``setup.py test``. See the section on the
`test` command below for more details.

`tests_require`
If your project's tests need one or more additional packages besides those
needed to install it, you can use this option to specify them. It should
be a string or list of strings specifying what other distributions need to
be present for the package's tests to run. When you run the `test` command, `setuptools` will attempt to obtain these (even going
so far as to download them using ``EasyInstall``). Note that these
required projects will *not* be installed on the system where the tests
are run, but only downloaded to the project's setup directory if they're
not already installed locally.

.. _test_loader:

`test_loader`
If you would like to use a different way of finding tests to run than what
setuptools normally uses, you can specify a module name and class name in
this argument. The named class must be instantiable with no arguments, and
its instances must support the `loadTestsFromNames()` method as defined
in the Python `unittest` module's `TestLoader` class. Setuptools will
pass only one test "name" in the `names` argument: the value supplied for
the `test_suite` argument. The loader you specify may interpret this
string in any way it likes, as there are no restrictions on what may be
contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default
value of this argument is `"setuptools.command.test:ScanningLoader"`. If
you want to use the default `unittest` behavior, you can specify
`"unittest:TestLoader"` as your `test_loader` argument instead. This
will prevent automatic scanning of submodules and subpackages.

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

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

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

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

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

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

Using `find_packages()`

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

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

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

Inclusion and exclusion patterns are package names, optionally including
wildcards. For
example, `find_packages(exclude=['*.tests'])` will exclude all packages whose
last name part is `tests`. Or, `find_packages(exclude=['*.tests'],

---

Open Source Used In FXOS HIGH END 2.9.1.157 3494
"*.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 `PATH` 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
----------------------

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::

```python
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    }
)
```

Projects can also use another project's extras when specifying dependencies.
For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this:

```python
setup(
    name="Project-B",
    install_requires = ["Project-A[PDF]"],
    ...
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `extras_require` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this:

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ["docutils>=0.3"],
    }
)
```

so that Package B doesn't have to remove the `\[PDF\]` from its requirement specifier.

Including Data Files

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the `\include_package_data\` keyword,
e.g.::

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

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

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

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

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

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

The setuptools setup file might look like this::

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

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

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

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

(Note: although the ``package_data`` argument was previously only available in ``setuptools``, it was also added to the Python ``distutils`` package as of Python 2.4; there is `some documentation for the feature` available on the python.org website. 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::

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

In summary, the three options allow you to:

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

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

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

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

Accessing Data Files at Runtime
-------------------------------

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

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-
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 a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction

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

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `eager_resources` argument to `setup()`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file
extensions other than `".dll"`, `".so"`, or `".dylib"`, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the `"native_libs.txt"` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `"eager_resources"`, because they need to be present in the filesystem when he C extensions that link to them are used.

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

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

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

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

.. _Entry Points:

Dynamic Discovery of Services and Plugins
------------------------------------------

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

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

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

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

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

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```python
setup(
    # ...
    entry_points = "[blogtool.parsers]
        .rst = some.nested.module:SomeClass.some_classmethod [reST]
        ",
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The ``entry_points`` argument to ``setup()`` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to ``pkg_resources.require()`` so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)
Defining Additional Metadata

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the "pkg_resources" metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their "ProjectName.egg-info" directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to "setup()", in much the same way that "setuptools" does for many of the "setup()" arguments it adds. See the section below on 'Creating distutils Extensions' for more details, especially the subsection on 'Adding new EGG-INFO Files'.

"Development Mode"

Under normal circumstances, the "distutils" assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the "distutils" that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the "distutils" is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the "setup.py develop" command. It works very similarly to "setup.py install" or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special "egg-link" file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's "site-packages" directory, it will also update the "easy-install.pth" file to include your project's source code, thereby making it available on "sys.path" for all programs using that Python installation.

If you have enabled the "use_2to3" flag, then of course the "egg-link"
will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the ```setup.py develop``` will build Python 3 code under the ```build``` directory, and link there. This means that after doing code changes you will have to run ```setup.py build``` before these changes are picked up by your Python 3 installation.

In addition, the ```develop``` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your ```install_requires``` packages are available on ```sys.path```.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using ```setup.py develop --uninstall```, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the ```develop``` command; see the section on the ```develop``` command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this:

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a ```setuptools```-based project
===========================================

Using ```setuptools```... Without bundling it!
----------------------------------------------

Your users might not have ```setuptools``` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download ```ez_setup.py```, and put it in the same directory as your ```setup.py``` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

```
.. code-block:: python

   import ez_setup
   ez_setup.use_setuptools()
```
That's it. The ``ez_setup`` module will automatically download a matching version of ``setuptools`` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your project's ``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:

```python
setup(
    # ...
    namespace_packages = ['zope']
)
```

because it contains a ``zope.interface`` package that lives in the ``zope`` namespace package. Similarly, a project for a standalone ``zope.publisher`` would also declare the ``zope`` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual"``zope`` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's "zope.app" package is a namespace package, and in the future PEAK's
"peak.util" package will be too.

Note, by the way, that your project's source tree must include the namespace packages' '__init__.py' files (and the '__init__.py' of any parent packages), in a normal Python package layout. These '__init__.py' files *must* contain the line:

```
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's '__init__.py'. Even though it may appear to work during development, or when projects are installed as '.egg' files, it will not work when the projects are installed using "system" packaging tools -- in such cases the '__init__.py' files will not be installed, let alone executed.

You must include the `declare_namespace()` line in the '__init__.py' of every project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of '__init__.py' is loaded first. If the first loaded '__init__.py' doesn't declare it, it will never be declared, because no other copies will ever be loaded!

TRANSITIONAL NOTE
~~~~~~~~~~~~~~~~~~~

Setuptools automatically calls `declare_namespace()` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the 'pkg_resources' runtime, and also the need for 'pkg_resources' to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing `declare_namespace()` calls in your '__init__.py' files, and you should correct these as soon as possible before the compatibility support is removed. Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.
Tagging and "Daily Build" or "Snapshot" Releases

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, `setuptools` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (``--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (``--tag-svn-revision, -r``)

* An 8-character representation of the build date (``--tag-date, -d``), as a postrelease tag

You can add these tags by adding `egg_info` and the desired options to the command line ahead of the `sdist` or `bdist` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info` command for more details.

(Also, before you release your project, be sure to see the section above on "Specifying Your Project's Version" for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like:

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then
delete any egg files from the distribution directory except for the three that were built most recently.

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

Generating Source Distributions
---------------------------------

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

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

But, be sure to ignore any part of the distutils documentation that deals with `MANIFEST` or how it's generated from `MANIFEST.in`; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's `.egg-info` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its `sdist` command omits nearly all of the options that the distutils' more complex `sdist` process requires. For all practical purposes, you'll probably use only the `--formats` option, if you use any option at all.

Making your package available for EasyInstall
-----------------------------------------------

If you use the `register` command (`setup.py register`) to register your
package with PyPI, that's most of the battle right there. (See the
`docs for the register command` for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload` command to upload actual distributions of your
package, that's even better, because EasyInstall will be able to find and
download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to
PyPI, and just want your existing distributions (or perhaps a Subversion
checkout) to be used instead.

So here's what you need to do before running the ``register`` command. There
are three ``setup()`` arguments that affect EasyInstall:

``url`` and ``download_url``
These become links on your project's PyPI page. EasyInstall will examine
them to see if they link to a package ("primary links"), or whether they are
HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the
page for primary links

``long_description``
EasyInstall will check any URLs contained in this argument to see if they
are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip,
.egg, .egg.zip, .tar.bz2, or .exe file, or if it has an `#egg=project` or
`#egg=project-version` fragment identifier attached to it. EasyInstall
attempts to determine a project name and optional version number from the text
of a primary link *without* downloading it. When it has found all the primary
links, EasyInstall will select the best match based on requested version,
platform compatibility, and other criteria.

So, if your ``url`` or ``download_url`` point either directly to a downloadable
source distribution, or to HTML page(s) that have direct links to such, then
EasyInstall will be able to locate downloads automatically. If you want to
make Subversion checkouts available, then you should create links with either
`#egg=project` or `#egg=project-version` added to the URL. You should
replace `project` and `version` with the values they would have in an egg
filename. (Be sure to actually generate an egg and then use the initial part
of the filename, rather than trying to guess what the escaped form of the
project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds
of distributions, so EasyInstall will not select a Subversion checkout for
downloading unless it has a version included in the `#egg=` suffix, and
it's a higher version than EasyInstall has seen in any other links for your
As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ``#egg=projectname-dev``), so that users can do something like this::

    easy_install --editable projectname==dev

in order to check out the in-development version of `projectname`.

Managing "Continuous Releases" Using Subversion
-----------------------------------------------

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's `setup.cfg` file:

.. code-block:: ini

    [egg_info]
    tag_build = .dev
    tag_svn_revision = 1

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

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

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

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

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

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

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

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

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

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like:

```python
python setup.py egg_info -RD "" sdist bdist_egg register upload
```

The first part of this command (`egg_info -RD ""`) 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.:
You can then use it like this:

```bash
python setup.py release sdist bdist_egg register upload
```

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

Distributing Extensions compiled with Pyrex
-------------------------------------------

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

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

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original ``.pyx`` files. This means that you will probably want to include current ``.c`` files in your revision control system, rebuilding them whenever you check changes in for the ``.pyx`` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

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

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

``alias`` - Define shortcuts for commonly used commands

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

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

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

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

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

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

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

    setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg

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

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

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

would delete the "daily" alias we defined above.

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

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

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

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

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

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

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

``--plat-name=PLATFORM, -p PLATFORM``
Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.
``--exclude-source-files``
Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

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

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

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

``--skip-build``
Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:
``develop`` - Deploy the project source in "Development Mode"
===============================================================================

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

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

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

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

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

`--uninstall, -u`
Un-deploy the current project. You may use the `--install-dir` or `--d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `--x`) option when you run `develop` to deploy the project.

`--multi-version, -m`
"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running
a wrapper script generated by `setuptools` or EasyInstall. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `-d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

`--install-dir=DIR, -d DIR`
Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the `site-packages` directory, but if you are using distutils configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

`--script-dir=DIR, -s DIR`
Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an `--install-dir` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

`--exclude-scripts, -x`
Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

`--always-copy, -a`
Copy all needed distributions to the staging area, even if they are already present in another directory on `sys.path`. By default, if a requirement can be met using a distribution that is already available in a directory on `sys.path`, it will not be copied to the staging area.

`--egg-path=DIR`
Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the `develop` command also accepts all of
the same options accepted by `easy_install`. If you've configured any
`easy_install` settings in your `setup.cfg` (or other distutils config
files), the `develop` command will use them as defaults, unless you override
them in a `[develop]` section or on the command line.

``easy_install`` - Find and install packages
=================================================================

This command runs the `EasyInstall tool
<easy_install.html>` for you. It is exactly
equivalent to running the `easy_install` command. All command line arguments
following this command are consumed and not processed further by the distutils,
so this must be the last command listed on the command line. Please see
the EasyInstall documentation for the options reference and usage examples.
Normally, there is no reason to use this command via the command line, as you
can just use `easy_install` directly. It's only listed here so that you know
it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your `setup.cfg` or other distutils config
  files.

.. _egg_info:
``egg_info`` - Create egg metadata and set build tags
=================================================================

This command performs two operations: it updates a project's `.egg-info`
metadata directory (used by the `bdist_egg`, `develop`, and `test`
commands), and it allows you to temporarily change a project's version string,
to support "daily builds" or "snapshot" releases. It is run automatically by
the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands
in order to update the project's metadata, but you can also specify it
explicitly in order to temporarily change the project's version string while
executing other commands. (It also generates the `.egg-info/SOURCES.txt`
manifest file, which is used when you are building source distributions.)

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

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

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

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `--tag-build=''` or `--tag-build=''` as an argument to the `egg_info` command.

```
--tag-svn-revision, -r`
If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form "-rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a "-rNNNN" string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with "-r" and a number, then "-r0" is used.

```
--no-svn-revision, -R`
Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

```
--tag-date, -d`
Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.
``--no-date, -D``
Don't include a date stamp in the version number. This option is included so you can override a default setting in ``setup.cfg``.

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

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

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

`egg_info` Examples
---------------------
Creating a dated "nightly build" snapshot egg::

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

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

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

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

.. _install command:
``install`` - Run ``easy_install`` or old-style installation
=================================================================

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

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

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

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

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

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

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

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

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

_.. _rotate:

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

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

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

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

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

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

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

    setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1

.. _saveopts:
```
``saveopts`` - Save used options to a configuration file
```
setup.py build --compiler=mingw32 saveopts

The `saveopts` command saves all options for every command specified on the command line to the project's local `setup.cfg` file, unless you use one of the `configuration file options` to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration::

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

Note that it doesn't matter where you place the `saveopts` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example::

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

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

Configuration File Options
--------------------------

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

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

``--filename=FILENAME, -f FILENAME``
Save settings to the specified configuration file to use. You can't combine this option with `--global-config` or `--user-config`. 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 `TestSuite` classes. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the result (which must be a `unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `test_loader`, the rules for processing the chosen `test_suite` may differ; see the `test_loader` documentation for more details.)

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

By default, tests will be run in the "verbose" mode of the `unittest` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the `--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.::

```python
setup(
    # ...
    test_suite = "my_package.tests.test_all"
)
```

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

.. _upload:

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

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

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The ``upload`` command is implemented and documented in distutils.

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

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

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

New in 20.1: Added keyring support.

.. _upload_docs:

``upload_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
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.:

```ini
.. 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:

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "bar_baz = "my_package.some_module:bar_baz",
        ],
    },
)
```
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:

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr, value)
        )
```

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

Adding new EGG-INFO Files
------------------------

Some extensible applications or frameworks may want to allow third parties to
develop plugins with application or framework-specific metadata included in the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument `foo_bar`, which is a list of lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any project that uses the argument:

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)
```

This simple example makes use of two utility functions defined by setuptools for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the writer utility looks like:

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '
'.join(value)+'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, `egg_info.writers` entry points must be a function taking three arguments: a `egg_info` command instance, the basename of the file to write (e.g. `foo_bar.txt`), and the actual full filename that should be written to.

In general, writer functions should honor the command object's `dry_run` setting when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the `cmd` object's `write_file()`, `delete_file()`, and `write_or_delete_file()` methods exclusively for your file operations. See those methods' docstrings for more details.

---

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Adding Support for Revision Control Systems

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked by another revision control system, you can do so by adding an entry point to the `setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

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

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

```python
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `setup_requires`. When you create a source distribution with the `sdist` command, setuptools automatically records what files were found in the `SOURCES.txt` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:
* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named ``some/dir`` under the current directory should NOT be rendered as ``./some/dir`` or ``/somewhere/some/dir``, but *always* as simply ``some/dir``.

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *may*, however, use ``distutils.log.warn()`` to inform the user of the missing program(s).

Subclassing `Command`
-----------------------

Sorry, this section isn't written yet, and neither is a lot of what's below this point.

XXX

Reusing `setuptools` Code
===========================

`ez_setup`
----------

XXX

`setuptools.archive_util`
------------------------

XXX

`setuptools.sandbox`
--------------------

XXX

`setuptools.package_index`
---------------------------

-----------------------------
XXX

Mailing List and Bug Tracker
=================================

Please use the `distutils-sig mailing list` for questions and discussion about setuptools, and the `setuptools bug tracker` ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/docs/setuptools.txt
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* /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

1.260 psmisc 22.21
1.260.1 Available under license :

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1.269 xz 5.2.4
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# Module Name:  dbShelve.py
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#               forces the use of cPickle, and DB.
#
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unicodedata -- Provides access to the Unicode 5.1 data base.

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

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

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

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

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

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

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<th>Year</th>
<th>Owner</th>
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/* Random objects */

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

It was modified in 2002 by Raymond Hettinger as follows:

* the principal computational lines untouched except for tabbing.

* renamed genrand_res53() to random_random() and wrapped in python calling/return code.

* genrand_int32() and the helper functions, init_genrand() and init_by_array(), were declared static, wrapped in Python calling/return code. also, their global data references were replaced with structure references.

* unused functions from the original were deleted.
new, original C python code was added to implement the Random() interface.

The following are the verbatim comments from the original code:

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

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

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#Table version: 1.0
#Table format: Format A
#Date: 2005-10-25
#Authors: Marc-Andre Lemburg <mal@egenix.com>
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----------------------------------------------------------------------- */
# subprocess - Subprocesses with accessible I/O streams
#
# For more information about this module, see PEP 324.
#
# This module should remain compatible with Python 2.2, see PEP 291.
#
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# $Id: ElementInclude.py 1862 2004-06-18 07:31:02Z Fredrik $
#
# limited xinclude support for element trees
#
# history:
# 2003-08-15 fl  created
# 2003-11-14 fl  fixed default loader
#
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#
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#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
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 *
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#
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IA64/unix Foreign Function Interface

Original author: Hans Boehm, HP Labs

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

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#
# re-compatible interface for the sre matching engine
#
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Mersenne Twister

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

The :mod:`random` module includes code based on a download from
http://www.math.keio.ac.jp/ matumoto/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code::

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

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

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
e-mail: matumoto@math.keio.ac.jp

Sockets
-------

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

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MD5 message digest algorithm

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    L. Peter Deutsch
    ghost@aladdin.com

    Independent implementation of MD5 (RFC 1321).

    This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
    http://www.ietf.org/rfc/rfc1321.txt
    The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.

1999-11-04 lpd Edited comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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-----------------------------

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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
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 */
/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !__COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int *)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

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package formatter

import (
    "time"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (
    defaultSubscriptionsTableFormat = "table
        {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"

    numHeader               = "NUM"
    ownerHeader             = "OWNER"
    licenseNameHeader       = "NAME"
    idHeader                = "ID"
    dockerIDHeader          = "DOCKER ID"
    productIDHeader         = "PRODUCT ID"
    productRatePlanHeader   = "PRODUCT RATE PLAN"
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
    startHeader             = "START"
    expiresHeader           = "EXPIRES"
    stateHeader             = "STATE"
    eusaHeader              = "EUSA"
    pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) Format {
    switch source {
        case TableFormatKey:
            if quiet {
                return defaultSubscriptionsQuietFormat
            }
            return defaultSubscriptionsTableFormat
            case RawFormatKey:
                if quiet {
                    return `license: {{.ID}}`
                }
                return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext subContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }

    licenseCtx := licenseContext{
        header: map[string]string{
            "Num":               numHeader,
            "Owner":             ownerHeader,
            "Name":              licenseNameHeader,
            "ID":                idHeader,
            "DockerID":          dockerIDHeader,
            "ProductID":         productIDHeader,
            "ProductRatePlan":   productRatePlanHeader,
            "ProductRatePlanID": productRatePlanIDHeader,
            "Start":             startHeader,
            "Expires":           expiresHeader,
            "State":             stateHeader,
            "Eusa":              eusaHeader,
            "ComponentsString":  pricingComponentsHeader,
        }
    }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return marshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}
func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}
func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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package licensing

import (  
    "context"  
    "crypto/hmac"  
    "crypto/sha256"  
    "encoding/base64"  
    "encoding/json"  
    "fmt"  
    "time"  
    "github.com/docker/libtrust"  
    "github.com/docker/licensing/lib/errors"  
    "github.com/docker/licensing/lib/go-clientlib"  
    "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {  
    url := c.baseURI  
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)  
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {  
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not  
// interrogate the contents of the license.  
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {  
    keyID := license.KeyID  
    privateKey := license.PrivateKey  

    authorization, err := c.getAuthorization(ctx, license)  
    if err != nil {  
        return nil, err
    }

    signature, err := libtrust.ParseJWS(authorization)  
    if err != nil {  
        return nil, errors.Wrapf(err, errors.Fields{  
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    return &model.CheckResponse{}, nil
}
keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]
if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token,
        })
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token,
        })
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token,
        })
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{
            "token": token,
            "invalid token",
        })
    }
    return nil
}
// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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```go
package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed json blob.
//
// struct {
// Expiration time.Time `json:"expiration"`
// Token string `json:"token"`
// MaxEngines int `json:"maxEngines"`
// ScanningEnabled bool `json:"scanningEnabled"`
// Type string `json:"licenseType"`
// Tier string `json:"tier"`
// }

// IssuedLicense represents an issued license
//
// struct {
// KeyID string `json:"key_id"`
// PrivateKey string `json:"private_key"`
// Authorization string `json:"authorization"`
// }

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
    if l.Authorization == "" {
        return false, "empty authorization"
    }
}```
return true, ""
}
package formatter

import {
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"

"github.com/docker/cli/internal/licenseutils"
"github.com/docker/licensing/model"
"gotest.tools/assert"
is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
    context  Context
    expected string
}{
    // Errors
    {
        Context{Format: "{{InvalidFunction}}"},
        "Template parsing error: template: :1: function "InvalidFunction" not defined",
    },
    {
        Context{Format: "{{nil}}"},
        "Template parsing error: template: :1: executing "" at <nil>: nil is not a command",
    },
    // Table format
    {
        Context{Format: NewSubscriptionsFormat("table", false)},
        "NUM                 OWNER               PRODUCT ID          EXPIRES                         PRICING COMPONENTS
1                   owner1              productid1          2020-01-01 10:00:00 +0000 UTC   compstring
2                   owner2              productid2          2020-01-01 10:00:00 +0000 UTC   compstring
    },
    {
        Context{Format: NewSubscriptionsFormat("table", true)},
        "1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01",
    },}
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

going for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{

{  
Num: 1,  
Owner: "owner1",  
Subscription: model.Subscription{  
ID:  "id1",  
Name: "name1",  
ProductID: "productid1",  
Expires: &expiration,  
PricingComponents: model.PricingComponents{  
&model.SubscriptionPricingComponent{  
Name: "nodes",  
Value: 10,  
},  
\},  
\},  
ComponentsString: "compstring",  
},  
\}
Num: 2,  
Owner: "owner2",  
Subscription: model.Subscription{  
ID:  "id2",  
Name: "name2",  
ProductID: "productid2",  
Expires: &expiration,  
PricingComponents: model.PricingComponents{  
&model.SubscriptionPricingComponent{  
Name: "nodes",  
Value: 20,  
},  
\},  
\},  
ComponentsString: "compstring",  
},  
\}  
out := &bytes.Buffer{}  
testcase.context.Output = out  
err := SubscriptionsWrite(testcase.context, subscriptions)  
if err != nil {  
assert.Error(t, err, testcase.expected)  
} else {  
assert.Check(t, is.Equal(testcase.expected, out.String()))  
}  
}  

func TestSubscriptionContextWriteJSON(t *testing.T) {  
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := []licenseutils.LicenseDisplay{
   {  
      Num:  1,  
      Owner: "owner1",  
      Subscription: model.Subscription{
         ID:   "id1",  
         Name:  "name1",  
         ProductID: "productid1",  
         Expires: &expiration,  
         PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
               Name:  "nodes",  
               Value:  10,  
            },  
            &model.SubscriptionPricingComponent{
               Name:  "nodes",  
               Value:  20,  
            },  
         },  
         ComponentsString: "compstring",  
      },  
   },  
   {  
      Num:  2,  
      Owner: "owner2",  
      Subscription: model.Subscription{
         ID:   "id2",  
         Name:  "name2",  
         ProductID: "productid2",  
         Expires: &expiration,  
         PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
               Name:  "nodes",  
               Value:  20,  
            },  
            &model.SubscriptionPricingComponent{
               Name:  "nodes",  
               Value:  20,  
            },  
         },  
         ComponentsString: "compstring",  
      },  
   },  
}

expectedJSONs := []map[string]interface{}{
   {  
      "Owner":   "owner1",  
      "ComponentsString": "compstring",  
      "Expires":   "2020-01-01T10:00:00Z",  
      "DockerID":    ",  
      "Eusa":      nil,  
      "ID":       "id1",  
      "Start":     nil,  
      "Name":     "name1",  
      "Num":      float64(1),  
      "PricingComponents": []interface{}{
   }}
map[string]interface{}{
    "name":  "nodes",
    "value":  float64(10),
},

"ProductID":  "productid1",
"ProductRatePlan":  "$",
"ProductRatePlanID":  "$",
"State":  "$",
"Summary":  "License Name: name1	Quantity: 10 nodes	Expiration date: 2020-01-01",
},

"Owner":  "owner2",
"ComponentsString":  "compstring",
"Expires":  "2020-01-01T10:00:00Z",
"DockerID":  "$",
"Eusa":  nil,
"ID":  "id2",
"Start":  nil,
"Name":  "name2",
"Num":  float64(2),
"PricingComponents":  []interface{}{
    map[string]interface{}{
        "name":  "nodes",
        "value":  float64(20),
    },
},

"ProductID":  "productid2",
"ProductRatePlan":  "$",
"ProductRatePlanID":  "$",
"State":  "$",
"Summary":  "License Name: name2	Quantity: 20 nodes	Expiration date: 2020-01-01",
}

out := &bytes.Buffer{}
err := SubscriptionsWrite(Context{Format:
    "{\{json .\}\}"}, Output: out), subscriptions)
if err != nil {
    t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var m map[string]interface{}
    if err := json.Unmarshal([]byte(line), &m); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
sub := []licenseutils.LicenseDisplay{
    {Num: 1, Owner: "owner1"},
    {Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{
err := SubscriptionsWrite(Context{Format: "{{json .Owner}}", Output: out}, sub)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var s string
    if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
    }
assert.Check(t, is.Equal(sub[i].Owner, s))
}
}
Looking for existing licenses for ...
NUM OWNER PRODUCT ID EXPIRES Pricing Components
0 2010-01-01 00:00:00 +0000 UTC

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
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--
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1.289 zlib 1.2.3

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

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

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---

Open Source Used in FXOS HIGH END 2.9.1.157 4347
static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 *    combined, allow nicstar_free_rx_skb to be called to
 *    recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
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*
* M. Welsh, 6 July 1996
*
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1.309 systemd-shim 219-19.el7_2.13
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1.310 icu 53
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## 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) $@

## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
1.311 cryptsetup 2.0.4

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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.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5:cf2bb5b6.

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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End

1.316 foxtrot-core 4.0

1.317 glibc 2.28

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/* _setjmp is implemented in setjmp.S */
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@center Version 2.1, February 1999

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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If distribution of object code is made by offering access to copy
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However, linking a "work that uses the Library" with the Library
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contains portions of the Library), rather than a "work that uses the
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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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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1.323 wget 1.15

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QLogic Linux FC-FCoE Driver

This program includes a device driver for Linux 3.x.
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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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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Fagon, Ariel
Farrell, Brian
Fobes, Steve
Fryesinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Garca-Fontes, Walter
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Irgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Sánchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
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
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

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

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hein, Jochen
Jerovek, Damir
Karonen, Jorma
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krzna, Tomislav
Marchal, Frederic
Margevius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Taniguchi, Yasuaki
Uranga, Mikel Olasagasti
Wang, Wylmer

1.329 ncurses 5.9
1.329.1 Available under license:
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1.330 containerd 0.2.7

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Gocheck - A rich testing framework for Go

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1.331 apache-log4j 1.2.15

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The End

1.348 netbsd-resolv 1.0-r2

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1.356 go-shellwords 1.0

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1.357 tcl 8.3.3

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>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

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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 from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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

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

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      <xs:call-template name="isc.copyright.format">
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The End

1.367 gdbm 1.18

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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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For the expat xml parser component:

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/*
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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#
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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

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For the expat xml parser component:

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1.371 busybox 1.18.0

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jseward@bzip.org
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1.379 lua 5.3.3

1.380 cracklib 2.9.0 11.el7
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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file 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.

^L

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
ingeneering 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.

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

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

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

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

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

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

<one line to give the library's name and a brief idea of what it does.>

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

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

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 LeJaqc
<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=

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

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

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

-- Nathan

---

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

----Original Message----
From: cracklib-devel-bounces@li...
[mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33
On Monday 01 October 2007, Neulinger, Nathan wrote:

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

the original license (before moving to sourceforge -- aka, 2.7) was not
GPL-2 ... it was a modified artistic license ... i 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=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

-- Nathan
=20

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

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

--20
On Monday 01 October 2007, Neulinger, Nathan wrote:

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

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 SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunky-mail-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 I91Gxtrp020623
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])
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

----------

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

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

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

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=

r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of 
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> =20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictate to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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

-- Nathan
=20
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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
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> released under. This wasn't actually a license change, just a
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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.

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 SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    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 191Gxtrp020623
    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 H1cOcX-0004Qt-6L
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.381 libmnl 1.0.4
1.381.1 Available under license:

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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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.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

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

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

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

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

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

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

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permitted, and provided that you do these two things:

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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
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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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      customarily used for software interchange; or,

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      allowed only for noncommercial distribution and only if you
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      an offer, in accord with Subsection b above.)

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
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1.388 linux-kernel 4.18.45

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
*     interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
*     and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
*     loss of link, and correctly re-enable PHY when link is
*     re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStar PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
  * 1) skb->destructor / skb->atm.recycle_buffer
  *    combined, allow nicstar_free_rx_skb to be called to
  *    recycle large data buffers
  * 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.

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* M. Welsh, 6 July 1996
*
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*/
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#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7

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

#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

*/

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

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */
#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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

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

#define TARGET_EPERM 1 /* Operation not permitted */
define TARGET_ENOENT 2 /* No such file or directory */
define TARGET_ESRCH 3 /* No such process */
define TARGET_EINTR 4 /* Interrupted system call */
define TARGET_EIO 5 /* Input/output error */
define TARGET_ENXIO 6 /* Device not configured */
define TARGET_E2BIG 7 /* Argument list too long */
define TARGET_ENOEXEC 8 /* Exec format error */
define TARGET_EBADF 9 /* Bad file descriptor */
define TARGET_ECHILD 10 /* No child processes */
define TARGET_EDeadlk 11 /* Resource deadlock avoided */
  /* 11 was EAGAIN */
define TARGET_ENOMEM 12 /* Cannot allocate memory */
define TARGET_EACCES 13 /* Permission denied */
define TARGETEFAULT 14 /* Bad address */
define TARGET_ENOTBLK 15 /* Block device required */
define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET_EINVAL 22 /* Invalid argument */
#define TARGET_ENFILE 23 /* Too many open files in system */
#define TARGET_EMLINK 24 /* Too many open files */
#define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Illegal seek */
#define TARGET_EALREADY 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_EPIPE 32 /* Broken pipe */

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

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

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMMSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

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

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

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

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

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

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

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

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{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s("%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s("%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s("%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s("%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s("%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s("%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s("%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", "chflags", NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s\",%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
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# Default configuration for i386-bsd-user

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

include $(TOP)/make.rules

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

CLEANSUBDIRS = $(SUBDIRS)
for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done

# Default configuration for sparc64-bsd-user

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

include $(TOP)/make.rules

ROOTDIR ?= ../..

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

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

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@ $^

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^

all: libx86emu.a
libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $^
$(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean

/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */

/* * System call numbers. * */
* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35

#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_sigpending  52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
#define TARGET_OPENBSD_NR_setpgid     82
#define TARGET_OPENBSD_NR_setitimer   83
#define TARGET_OPENBSD_NR_getitimer   86
#define TARGET_OPENBSD_NR_dup2        90
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_select      93
#define TARGET_OPENBSD_NR_fsync       95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket      97
#define TARGET_OPENBSD_NR_connect     98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn   103
#define TARGET_OPENBSD_NR_bind        104
#define TARGET_OPENBSD_NR_setsockopt  105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_setreuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR___syscall 199
#define TARGET_OPENBSD_NR___sysctlnx 200
#define TARGET_OPENBSD_NR___sysctlnx 201
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfsioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeerid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
# define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid    299
#define TARGET_OPENBSD_NR_thrsleep    300
#define TARGET_OPENBSD_NR_thrwakeup   301
#define TARGET_OPENBSD_NR_threxit     302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd    304
#define TARGET_OPENBSD_NR_adjfreq     305
#define TARGET_OPENBSD_NR_getfsstat   306
#define TARGET_OPENBSD_NR_statfs      307
#define TARGET_OPENBSD_NR_fstatfs     308
#define TARGET_OPENBSD_NR_fhstatfs    309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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 *
 */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

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That's all there is to it!
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
 * System call numbers.
 *
#define TARGET_NETBSD_NR_syscall  0
#define TARGET_NETBSD_NR_exit     1
#define TARGET_NETBSD_NR_fork     2
#define TARGET_NETBSD_NR_read     3
#define TARGET_NETBSD_NR_write    4
#define TARGET_NETBSD_NR_open     5
#define TARGET_NETBSD_NR_close    6
#define TARGET_NETBSD_NR_wait4    7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link     9
#define TARGET_NETBSD_NR_unlink   10
#define TARGET_NETBSD_NR_chdir    12
#define TARGET_NETBSD_NR_fchdir   13
#define TARGET_NETBSD_NR_mknod    14
#define TARGET_NETBSD_NR_chmod    15
#define TARGET_NETBSD_NR_chown    16
#define TARGET_NETBSD_NR_break    17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_oseek 19
#define TARGET_NETBSD_NR_getpid   20
#define TARGET_NETBSD_NR_getpid   20
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_unmount  22
#define TARGET_NETBSD_NR_setuid   23
#define TARGET_NETBSD_NR_getuid   24
#define TARGET_NETBSD_NR_geteuid  25
#define TARGET_NETBSD_NR_ptrace   26
#define TARGET_NETBSD_NR_recvmsg  27
#define TARGET_NETBSD_NR_sendmsg  28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept   30
#define TARGET_NETBSD_NR_getpeermask 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access   33
#define TARGET_NETBSD_NR_mkdir     34
#define TARGET_NETBSD_NR_fchflags  35
#define TARGET_NETBSD_NR_sync     36
#define TARGET_NETBSD_NR_kill     37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid  39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup      41
#define TARGET_NETBSD_NR_pipe     42
#define TARGET_NETBSD_NR_getegid  43
#define TARGET_NETBSD_NR_profil      44
#define TARGET_NETBSD_NR_ktrace      45
#define TARGET_NETBSD_NR_compat_13_sigaction13  46
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13  48
#define TARGET_NETBSD_NR___getlogin  49
#define TARGET_NETBSD_NR___setlogin  50
#define TARGET_NETBSD_NR_acct       51
#define TARGET_NETBSD_NR_compat_13_sigpending13  52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13  53
#define TARGET_NETBSD_NR_ioctl      54
#define TARGET_NETBSD_NR_compat_12_oreboot   55
#define TARGET_NETBSD_NR_revoke      56
#define TARGET_NETBSD_NR_symlink     57
#define TARGET_NETBSD_NR_readlink    58
#define TARGET_NETBSD_NR_execve      59
#define TARGET_NETBSD_NR_umask       60
#define TARGET_NETBSD_NR_chroot     61
#define TARGET_NETBSD_NR_compat_43_fstat43  62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo   63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize  64
#define TARGET_NETBSD_NR_compat_12_msync     65
#define TARGET_NETBSD_NR_vfork       66
#define TARGET_NETBSD_NR_sbrk        69
#define TARGET_NETBSD_NR_sstk        70
#define TARGET_NETBSD_NR_compat_43_ommap     71
#define TARGET_NETBSD_NR_vadvise     72
#define TARGET_NETBSD_NR_munmap      73
#define TARGET_NETBSD_NR_mprotect    74
#define TARGET_NETBSD_NR_madvise     75
#define TARGET_NETBSD_NR_mincore     78
#define TARGET_NETBSD_NR_getgroups   79
#define TARGET_NETBSD_NR_setgroups   80
#define TARGET_NETBSD_NR_getpgrp     81
#define TARGET_NETBSD_NR_setpgid     82
#define TARGET_NETBSD_NR_setitimer   83
#define TARGET_NETBSD_NR_compat_43_owait     84
#define TARGET_NETBSD_NR_compat_12_oswapon   85
#define TARGET_NETBSD_NR_getitimer   86
#define TARGET_NETBSD_NR_compat_43_ogethostname      87
#define TARGET_NETBSD_NR_compat_43_osethostname      88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize    89
#define TARGET_NETBSD_NR_dup2        90
#define TARGET_NETBSD_NR_fcntl       92
#define TARGET_NETBSD_NR_select      93
#define TARGET_NETBSD_NR_fsync       95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect 98
#define TARGET_NETBSD_NR_compat_43_oaccept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend 101
#define TARGET_NETBSD_NR_compat_43_orecv 102
#define TARGET_NETBSD_NR_compat_13_sigsuspend13 103
#define TARGET_NETBSD_NR_bind 104
#define TARGET_NETBSD_NR_setsockopt 105
#define TARGET_NETBSD_NR_listen 106
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13 111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg 113
#define TARGET_NETBSD_NR_compat_43_osendmsg 114
#define TARGET_NETBSD_NR_compat_43_gettimeofday 116
#define TARGET_NETBSD_NR_gettimeofday 117
#define TARGET_NETBSD_NR_getsockopt 118
#define TARGET_NETBSD_NR_readv 120
#define TARGET_NETBSD_NR_writev 121
#define TARGET_NETBSD_NR_gettimeofday 122
#define TARGET_NETBSD_NR_fchown 123
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setregid 127
#define TARGET_NETBSD_NR_rename 128
#define TARGET_NETBSD_NR_compat_43_oftruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate 130
#define TARGET_NETBSD_NR_flock 131
#define TARGET_NETBSD_NR_mkfifo 132
#define TARGET_NETBSD_NR_sendto 133
#define TARGET_NETBSD_NR_shutdown 134
#define TARGET_NETBSD_NR_socketpair 135
#define TARGET_NETBSD_NR_mkdir 136
#define TARGET_NETBSD_NR_rmdir 137
#define TARGET_NETBSD_NR_utimes 138
#define TARGET_NETBSD_NR_adjtime 140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
#define TARGET_NETBSD_NR_compat_43_ogethostid 142
#define TARGET_NETBSD_NR_compat_43_osethostid 143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144
#define TARGET_NETBSD_NR_compat_43_osetrlimit 145
#define TARGET_NETBSD_NR_compat_43_okillpg 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_oquota 149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc 155
#define TARGET_NETBSD_NR_compat_43_ogetattries 156
#define TARGET_NETBSD_NR_compat_20_stats 157
#define TARGET_NETBSD_NR_compat_20_fstats 158
#define TARGET_NETBSD_NR_compat_30_getfh 161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 162
#define TARGET_NETBSD_NR_compat_09_osetdomainname 163
#define TARGET_NETBSD_NR_compat_09_ouname 164
#define TARGET_NETBSD_NR_sysarch 165
#define TARGET_NETBSD_NR_compat_10_osemsys 169
#define TARGET_NETBSD_NR_compat_10_omsgsys 170
#define TARGET_NETBSD_NR_compat_10_osMsgsys 171
#define TARGET_NETBSD_NR_pread 173
#define TARGET_NETBSD_NR_pwrite 174
#define TARGET_NETBSD_NR_compat_30_npt_gettime 175
#define TARGET_NETBSD_NR_npt_adjtime 176
#define TARGET_NETBSD_NR_setgid 181
#define TARGET_NETBSD_NR_setegid 182
#define TARGET_NETBSD_NR_seteuid 183
#define TARGET_NETBSD_NR_lfs_bmapv 184
#define TARGET_NETBSD_NR_lfs_markv 185
#define TARGET_NETBSD_NR_lfs_segclean 186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_statfs 188
#define TARGET_NETBSD_NR_compat_12_fstatfs 189
#define TARGET_NETBSD_NR_compat_12_lstatfs 190
#define TARGET_NETBSD_NR_pathconf 191
#define TARGET_NETBSD_NR_fpathconf 192
#define TARGET_NETBSD_NR_getrlimit 194
#define TARGET_NETBSD_NR_setrlimit 195
#define TARGET_NETBSD_NR_compat_12_getdirentries 196
#define TARGET_NETBSD_NR_mmap 197
#define TARGET_NETBSD_NR___syscall 198
#define TARGET_NETBSD_NR_lseek 199
#define TARGET_NETBSD_NR_truncate 200
#define TARGET_NETBSD_NR_ftruncate 201
#define TARGET_NETBSD_NR___sysct1 202
#define TARGET_NETBSD_NR_mlock 203
#define TARGET_NETBSD_NR_munlock 204
#define TARGET_NETBSD_NR_munlock 205
#define TARGET_NETBSD_NR_sysctl 206
#define TARGET_NETBSD_NR_getpgid 207
#define TARGET_NETBSD_NR_reboot 208
#define TARGET_NETBSD_NR_poll 209
#define TARGET_NETBSD_NR_compat_14___semct1 220
#define TARGET_NETBSD_NR_semget 221
#define TARGET_NETBSD_NR_semop 222
#define TARGET_NETBSD_NR_semconfig 223
#define TARGET_NETBSD_NR_compat_14_msgctl 224
#define TARGET_NETBSD_NR_msgget 225
#define TARGET_NETBSD_NR_msgsnd 226
#define TARGET_NETBSD_NR_msgrecv 227
#define TARGET_NETBSD_NR_shmat 228
#define TARGET_NETBSD_NR_compat_14_shmctl 229
#define TARGET_NETBSD_NR_shmdt 230
#define TARGET_NETBSD_NR_shmget 231
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime 233
#define TARGET_NETBSD_NR_clock_getres 234
#define TARGET_NETBSD_NR_invoke 235
#define TARGET_NETBSD_NR_timer_gettime 236
#define TARGET_NETBSD_NR_timer_getoverrun 237
#define TARGET_NETBSD_NR_nanosleep 238
#define TARGET_NETBSD_NR_fdatasync 239
#define TARGET_NETBSD_NR_mlockall 240
#define TARGET_NETBSD_NR_munlockall 241
#define TARGET_NETBSD_NR___sigtimedwait 242
#define TARGET_NETBSD_NR_modctl 243
#define TARGET_NETBSD_NR__ksem_init 244
#define TARGET_NETBSD_NR__ksem_open 245
#define TARGET_NETBSD_NR__ksem_unlink 246
#define TARGET_NETBSD_NR__ksem_close 247
#define TARGET_NETBSD_NR__ksem_wait 248
#define TARGET_NETBSD_NR__ksem_post 249
#define TARGET_NETBSD_NR__ksem_post 250
#define TARGET_NETBSD_NR___posix_rename 251
#define TARGET_NETBSD_NR_swapctl 252
#define TARGET_NETBSD_NR_minherit 253
#define TARGET_NETBSD_NR_lchmod 254
#define TARGET_NETBSD_NR_swapctl 255
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#define TARGET_NETBSD_NR_swapctl 272
#define TARGET_NETBSD_NR_swapctl 273
#define TARGET_NETBSD_NR_swapctl 274
#define TARGET_NETBSD_NR_lchown 275
#define TARGET_NETBSD_NR_lutimes 276
#define TARGET_NETBSD_NR___msync13 277
#define TARGET_NETBSD_NR_compat_30___stat13 278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink  10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir  12
#define TARGET_FREEBSD_NR_fchdir  13
#define TARGET_FREEBSD_NR_mknod  14
#define TARGET_FREEBSD_NR_chmod  15
#define TARGET_FREEBSD_NR_chown  16
#define TARGET_FREEBSD_NR_break  17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat  18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid  20
#define TARGET_FREEBSD_NR_mount  21
#define TARGET_FREEBSD_NR_unmount  22
#define TARGET_FREEBSD_NR_setuid  23
#define TARGET_FREEBSD_NR_getuid  24
#define TARGET_FREEBSD_NR_geteuid  25
#define TARGET_FREEBSD_NR_ptrace  26
#define TARGET_FREEBSD_NR_recvmsg  27
#define TARGET_FREEBSD_NR_sendmsg  28
#define TARGET_FREEBSD_NR_recvfrom  29
#define TARGET_FREEBSD_NR_accept  30
#define TARGET_FREEBSD_NR_getpeername  31
#define TARGET_FREEBSD_NR_getsockname  32
#define TARGET_FREEBSD_NR_access  33
#define TARGET_FREEBSD_NR_chflags  34
#define TARGET_FREEBSD_NR_fchflags  35
#define TARGET_FREEBSD_NR_sync  36
#define TARGET_FREEBSD_NR_kill  37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid  39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup  41
#define TARGET_FREEBSD_NR_pipe  42
#define TARGET_FREEBSD_NR_getegid  43
#define TARGET_FREEBSD_NR_profil  44
#define TARGET_FREEBSD_NR_ktrace  45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid  47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin  49
#define TARGET_FREEBSD_NR_setlogin  50
#define TARGET_FREEBSD_NR_acct  51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall   154
#define TARGET_FREEBSD_NR_nfssvc    155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs  157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh   160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname    164
#define TARGET_FREEBSD_NR_sysarch   165
#define TARGET_FREEBSD_NR_rtprio    166
#define TARGET_FREEBSD_NR_semsys    169
#define TARGET_FREEBSD_NR_msgsys    170
#define TARGET_FREEBSD_NR_shmsys    171
#define TARGET_FREEBSD_NR_freebsd6_pread    173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib    175
#define TARGET_FREEBSD_NR_ntp_adjtime  176
#define TARGET_FREEBSD_NR_setgid     181
#define TARGET_FREEBSD_NR_setegid    182
#define TARGET_FREEBSD_NR_seteuid    183
#define TARGET_FREEBSD_NR_stat      188
#define TARGET_FREEBSD_NR_fstat    189
#define TARGET_FREEBSD_NR_lstat  190
#define TARGET_FREEBSD_NR_pathconf  191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock   204
#define TARGET_FREEBSD_NR_undelete   205
#define TARGET_FREEBSD_NR_futimes   206
#define TARGET_FREEBSD_NR_getpgid   207
#define TARGET_FREEBSD_NR_poll  209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget   221
#define TARGET_FREEBSD_NR_semop    222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget   225
#define TARGET_FREEBSD_NR_msgsnd   226
#define TARGET_FREEBSD_NR_msrcev 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfinext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
   /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
   /* 322 is obsolete thr_sleep */
   /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_extattr_delete_file 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR__setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR__mac_get_proc 384
#define TARGET_FREEBSD_NR__mac_set_proc 385
#define TARGET_FREEBSD_NR__mac_get_fd 386
#define TARGET_FREEBSD_NR__mac_get_file 387
#define TARGET_FREEBSD_NR__mac_set_fd 388
#define TARGET_FREEBSD_NR__mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_fstatfs 396
#define TARGET_FREEBSD_NR_fhstatfs 397
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR__mac_get_pid 409
#define TARGET_FREEBSD_NR__mac_get_link 410
#define TARGET_FREEBSD_NR__mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR__mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR__acl_get_link 425
#define TARGET_FREEBSD_NR__acl_set_link 426
#define TARGET_FREEBSD_NR__acl_delete_link 427
#define TARGET_FREEBSD_NR__acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR__umtx_lock 434
#define TARGET_FREEBSD_NR__umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
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David Gibson <david@gibson.dropbear.id.au>
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Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+, this does *not* cover the so-called "standalone" applications that use U-Boot services by means of the jump table provided by U-Boot exactly for this purpose - this is merely considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

-- Wolfgang Denk

Index: debug.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c  7 Sep 2007 10:01:21 -0000  1.1
+++ debug.c  15 Jan 2008 13:49:25 -0000  1.3
@@ -52,7 +52,11 @@
  
 void X86EMU_trace_regs (void)
 {
+    if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+        x86emu_dump_xregs();
+    } else {
+        x86emu_dump_regs();
+    }
  
 if (DEBUG_TRACE()) {
    
Index: ops2.c
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000
+++ ops2.c 20 Mar 2008 15:48:34 -0000
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
 DECODE_PRINTF2("%04x\n", target);
 TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
         M.x86.R_IP = (u16)target;
-        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+        }
+        DECODE_CLEAR_SEGOVR();
+        END_OF_INSTR();
+    }
+}
+**************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+**************************************************************************/
+s32 x86emu_bswap(s32 reg)
+
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\n");
+ switch (op2) {
+     case 0xc8:
+         DECODE_PRINTF("EAX\n");
+         M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+         break;
+     case 0xc9:
+         DECODE_PRINTF("ECX\n");
+         M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
break;
+ case 0xca:
+      DECODE_PRINTF("EDX\n");
+      M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+      break;
+ case 0xcb:
+      DECODE_PRINTF("EBX\n");
+      M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+      break;
+ case 0xcc:
+      DECODE_PRINTF("ESP\n");
+      M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+      break;
+ case 0xcd:
+      DECODE_PRINTF("EBP\n");
+      M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+      break;
+ case 0xce:
+      DECODE_PRINTF("ESI\n");
+      M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+      break;
+ case 0xcf:
+      DECODE_PRINTF("EDI\n");
+      M.x86.R EDI = x86emu_bswap(M.x86.R EDI);
+      break;
+ }
+ TRACE_AND_STEP();
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
}
/* 0xce */ x86emuOp2_bswap,
/* 0xcf */ x86emuOp2_bswap,
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
M.x86.R_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2526,6 +2534,8 @@
     store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
     M.x86.R_SI += inc;
     M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - count = M.x86.R_CX;
    + /* move them until (E)CX is ZERO. */
    + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2574,6 +2586,8 @@
     }  
     M.x86.R_SI += inc;
     M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val1 = fetch_data_byte(M.x86.R_SI);
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(val1, val2);
    -    M.x86.R_CX -= 1;
    +    if (M.x86.mode & SYSMODE_32BIT_REP)

+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && (ACCESS_FLAG(F_ZF) ) break;
+ if (M.x86.intr & INTR_HALT)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
@@ -2655,11 +2674,16 @@
            val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
        }
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && (ACCESS_FLAG(F_ZF) ) break;
+ if (M.x86.intr & INTR_HALT)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) { ...
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R(ECX : M.x86.R(CX) != 0) {
    store_data_byte_abs(M.x86.R(ES), M.x86.R(DI), M.x86.R(AL);
    M.x86.R(CX) := 1;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R(ECX) := 1;
    else
        M.x86.R(CX) := 1;
        M.x86.R(DI) += inc;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        count = M.x86.R(CX);
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R(ECX) : M.x86.R(CX);
        M.x86.R(CX) := 0;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R(ECX) := 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
        store_data_word_abs(M.x86.R(ES), M.x86.R(DI), M.x86.R(AX));
        M.x86.R(DI) += inc;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    DECODECLEAR_SEGOVR();
    END_OF_INSTR();
} else {
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        while (M.x86.R(CX) != 0) {
            M.x86.R_AL := fetch_data_byte(M.x86.R(SI));
            M.x86.R(CX) := 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R(ECX) := 1;
        }
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
+    else
+    M.x86.R_CX -= 1;
M.x86.R_SI += inc;
+ if (M.x86.intr & INTR_HALT)
+    break;
  }
  M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
      count = 1;
      if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
  }
  while (count--) {
@@ -2871,6 +2911,8 @@
    M.x86.R_AX = fetch_data_word(M.x86.R_SI);
  }
M.x86.R_SI += inc;
+ if (M.x86.intr & INTR_HALT)
+    break;
  }
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /* REPE */
-     /* move them until CX is ZERO. */
-     while (M.x86.R_CX != 0) {
+     /* move them until (E)CX is ZERO. */
+     while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_byte(M.x86.R_AL, val2);
-     M.x86.R_CX -= 1;
+     if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 1;
+     else
+           M.x86.R_CX = 1;
M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
break;
+    if (M.x86.intr & INTR_HALT)
+        break;

} else if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            if (M.x86.intr & INTR_HALT)
                break;
        }
        if (ACCESS_FLAG(F_ZF))
            break; /* zero flag set means equal */
    +    if (M.x86.intr & INTR_HALT)
    +        break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else {
@@ -2951,8 +3003,8 @@
TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word(M.x86.R_AX, (u16)val);
            } else
                M.x86.R_CX -= 1;
            if (M.x86.intr & INTR_HALT)
                break;
        }
        if (ACCESS_FLAG(F_ZF) == 0)
break;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    /* move them until (E)CX is ZERO. */
    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
                M.x86.R_CX -= 1;
            } else
+                M.x86.R_ECX -= 1;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
    }
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
    -RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
+    RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    DECODE_PRINTF("RET\n");
    -RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
  DECODE_PRINTF("RETF\t");
  imm = fetch_word_imm();
-  RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
+  RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  M.x86.R_SP += imm;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
  START_OF_INSTR();
  DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  M.x86.R_SP += imm;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+  if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+  if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
     M.x86.R_IP = ip;
     DECODE_CLEAR_SEGOVR();
     END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:\", cs);
DECODERPRINTF("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODERPRINTF("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODERPRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODERPRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
    case 4: /* jmp word ptr ... */
    destval = fetch_data_word(destoffset);
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;
    case 5: /* jmp far ptr ... */
    destval = fetch_data_word(destoffset);
    destval2 = fetch_data_word(destoffset + 2);
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    M.x86.R_CS = destval2;
Index: prim_ops.c
==================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c    Sep 2007 10:01:21 -00001.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -00001.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
 #ifdef __HAS_LONG_LONG__
- s64 res = (s64)d * (s64)s;
+ s64 res = (s32)d * (s64)(s32)s;

 *res_lo = (u32)res;
 *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
 #ifdef __HAS_LONG_LONG__
- u64 res = (u32)M.x86.R_EAX * (u32)s;
+ u64 res = (u64)M.x86.R_EAX * s;

 M.x86.R_EAX = (u32)res;
 M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16+2312,15 @@
} if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* in until CX is ZERO. */
- u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+ /* in until (E)CX is ZERO. */
+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);

 while (count--) {
    single_in(size);
    M.x86.R_DI += inc;
 } M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
   M.x86.R_ECX = 0;
 }
 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2355,15 @@
} if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
/* out until CX is ZERO. */
+ /* out until (E)CX is ZERO. */
+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
+ M.x86.R_ECX : M.x86.R_CX);
while (count--) {
  single_out(size);
  M.x86.R_SI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
  }
  M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#define DEBUG_IO_TRACE()
-#else
-#define "io.h"
-#else
-#define <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
  DB(if (DEBUG_IO_TRACE))
  printk("inb %#04x \n", addr);
-  return inb(addr);
+  return 0;
  }
  /**************************************************************************
@@ -235,7 +230,7 @@
{
  DB(if (DEBUG_IO_TRACE))
  printk("inw %#04x \n", addr);
  */
-return inw(addr);
+return 0;
}

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

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

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

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

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (int) base;
+    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}

Index: include/x86emu/debug.h
===================================================================
+ printk("%04x:%04x: JMP %s%04x:04x\n", u, v, s, w, x);
#else
#define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#define DEBUG

Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/regs.h	15 Jan 2008 13:46:40 -0000	1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
SYSMODE_SEGOVR_GS | \
SYSMODE_SEGOVR_SS | \
SYSMODE_PREFIX_DATA | \
- SYSMODE_PREFIX_ADDR)
+ SYSMODE_PREFIX_ADDR | \
+ SYSMODE_32BIT_REP)
#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
    u32 mode;
  volatile int intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#if DEBUG
-int check;
+ int check;
  u16 saved_ip;
  u16 saved_cs;
int enc_pos;

Index: include/x86emu/x86emu.h

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
 #include <console.h>
 #define printk(x...) printk(BIOS_DEBUG, x)
 #else
+  #include <stdio.h>
+  #define printk printf
  #endif

@@ -189,6 +181,8 @@
 #define DEBUG_TRACECALL_REGS_F  0x004000
 #define DEBUG_DECODE_NOPRINT_F  0x008000
 #define DEBUG_SAVE_IP_CS_F  0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
 #define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
 # ifdef __cplusplus
 }                       /* End of "C" linkage for C++ */
 #endif
-#endif /*__X86EMU_X86EMU_H */

# *****************************************************************************/
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# *
# * Contributors:
# * IBM Corporation - initial implementation
# *****************************************************************************/
#!/bin/bash
#set -x
#set -e
SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check whether svn, patch, ... is available...

if [ ! -x "$SVN" ]; then
  echo "subversion executable not found!"
  exit -1
fi
if [ ! -x "PATCH" ]; then
  echo "patch executable not found!"
  exit -1
fi
if [ ! -r "$DIFF_FILE" ]; then
  echo "diff file $DIFF_FILE not found!"
  exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

# revision known to work...
REV=496

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

echo "Copying files..."

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

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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-- Wolfgang Denk

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On all platforms, Nmap is normally linked with:

- **libpcap**: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
  - http://www.tcpdump.org/
- **libdnet**: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  - http://code.google.com/p/libdnet/
- **PCRE**: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
  - http://www.pcre.org/
- **liblua**: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
  - http://www.lua.org/
- **OpenSSL**: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
  - http://www.openssl.org/
- **LIBLINEAR**: Used for IPv6 OS classification.
  - http://www.csie.ntu.edu.tw/~cjlin/liblinear/
- **libsvn**: The Subversion library, used by the updater program nmap-update.
  - http://subversion.apache.org/
- **APR (Apache Portable Runtime)**: Used by libsvn.
  - http://apr.apache.org/

On Windows only, Nmap uses:

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

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Zenmap and Ndiff require:
o Python. The binary distributions of Nmap include a Python interpreter
and various libraries, built using either py2exe or py2app.
http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:
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o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the
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The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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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.cnr.rieston.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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<table>
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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.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
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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $Date: 2011/11/03 15:11:58 $
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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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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(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.

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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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
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copy of the library already present on the user's computer system,
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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.

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

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

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

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

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   a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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# SOFTWARE.

libfreedreno_layout = static_library(
    'freedreno_layout',
    [
        'fd5_layout.c',
        'fd6_layout.c',
        'freedreno_layout.c',
    ],
    include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
    c_args : [no_override_init_args],
    gnu_symbol_visibility : 'hidden',
    dependencies : idep_nir_headers,
    build_by_default : false,
)

foreach major : ['5', '6']
    test(
        'fd' + major + '_layout',
        executable(
            'fd' + major + '_layout',
            [  
            ]
        )
    )
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1.411 nginx 1.13.1

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1.413 linux-kernel 3.10.0

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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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* 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 the nxt2004 frontend driver

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single nxt200x frontend driver.

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1.414 pcre 8.42

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THE BASIC LIBRARY FUNCTIONS

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1.415 gnutls 3.3.5

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1.417 xorg-server 1.14.2

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yassl http://www.yassl.com/

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NSS http://www.mozilla.org/projects/security/pki/nss/

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axTLS http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares http://daniel.haxx.se/projects/c-ares/license.html
(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

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

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

krb4

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

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

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Heimdal http://www.pdc.kth.se/heimdal/

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fbopenssl

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

libidn http://josefsson.org/libidn/

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

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

libssh2 http://www.libssh2.org/

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

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1.426 lvm2 2.02.97

1.426.1 Available under license :

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

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## 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
SHAREDLIBCXXFLAGS = -D_REENTRANT

## 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 $@ $<
%.%: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.%{STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -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/\(^.*\)/\1.o $@ : /g' > $@; \n [ -s $@ ] || rm -f $@' 

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

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

### 1.429 readline 6.2

### 1.430 csrp 1.0

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1.434 libtasn 1.2

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1.435 curl 7.54.0
1.435.1 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!

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, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

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

## OpenSSL

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## GnuTLS

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(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

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## libssh2

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1.436 tcl 8.5.9

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******************************************************************************
>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

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lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.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
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1.442 pcre 8.38

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1.443 ncurses 5.9-13.20130511.el7

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1.444 tinyxml-2 3.0.0

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1.445 u-boot 1.3.0

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbz2 version 1.0.2 of 30 December 2001

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libbz2.dll test program.
by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]
*/

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1.454 e2fsprogs 1.43

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*/

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

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 -
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That's all there is to it!
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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

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

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
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:
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Gadi Oxman, August 1995

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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 an offer, in accord with Subsection b above.)

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1.455 libusb 1.0.22

1.455.1 Available under license :

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its purpose remains meaningful.

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Section 6 states terms for distribution of such executables.

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

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1.456.1 Available under license:
/* zlib.h -- interface of the 'zlib' general purpose compression library
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* @(#)extern.h 8.1 (Berkeley) 6/6/93
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1.466 iproute 4.19.0

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

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

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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
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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
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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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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.
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That's all there is to it!

1.473 six 1.11.0-3.ph3
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Marc Abramowitz
Alexander Artemenko
If you think you belong on this list, please let me know! --Benjamin

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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
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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ppp-2.4.5/pppd/auth.c
ppp-2.4.5/pppd/fsm.c
ppp-2.4.5/pppd/fsm.h
ppp-2.4.5/pppd/ipcp.c
ppp-2.4.5/pppd/ipcp.h
ppp-2.4.5/pppd/ipv6cp.c
ppp-2.4.5/pppd/ipv6cp.h
ppp-2.4.5/pppd/ipxcp.c
ppp-2.4.5/pppd/ipxcp.h
ppp-2.4.5/pppd/lcp.c
ppp-2.4.5/pppd/lcp.h
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ppp-2.4.5/pppd/magic.h
ppp-2.4.5/pppd/main.c
ppp-2.4.5/pppd/options.c
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Unix SMB/CIFS implementation.
Samba utility functions

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ppp-2.4.5/include/linux/if_pppol2tp.h
***************************************************************************
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 * for Linux using kernel pppol2tp support.
 * Requires kernel pppol2tp driver which is integrated into the kernel
* from 2.6.23 onwards. For earlier kernels, a version can be obtained
* from the OpenL2TP project at
* http://www.sourceforge.net/projects/openl2tp/
*
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```
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1.504 libunistring 0.9.10

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

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

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

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

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program.  If not, see <http://www.gnu.org/licenses/>.

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

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

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

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read

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Version 3, 29 June 2007

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This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified
version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:
0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

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

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

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Note: this exception relieves you of any obligations under sections 4 and 5 of this license, and section 6 of the GNU General Public License.

1.507 glibc 2.20
1.507.1 Available under license :
@c The GNU Lesser General Public License.
center Version 2.1, February 1999

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c hence no sectioning command or @node.

display
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Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

@end display

@subheading Preamble

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This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the *Lesser* General Public License because it does *less* to protect the user's freedom than the ordinary General Public License. It also provides other free software developers *less* of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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.

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

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

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

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

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

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

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

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

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

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

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

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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

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

@item

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

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

@item

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

@end enumerate

@item

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@item
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SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
@end enumerate

@end subheading END OF TERMS AND CONDITIONS

@subheading How to Apply These Terms to Your New Libraries

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

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

@example
one line to give the library's name and an idea of what it does.
Copyright (C) year name of author

This library is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation; either version 2.1 of the License, or (at
your option) any later version.

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Lesser General Public License for more details.

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

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

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

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

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

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 C utilities for the pytalloc test suite.
 Provides the "_test_pytalloc" Python module.

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1.519 avahi 0.7

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1.523 util-linux 2.23.2 26.el7_2.3

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```c
/*
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*/

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

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

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2d0f055067c18f2cf9 bsd.img

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

Device Boot Start   End   Blocks   Id  System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

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

Device Boot Start  End Blocks  Id  System
__ts_dev__1      2048 4095 1024  83  Linux
-------------------
Create 2st primary partition
1beb87248e05d6e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8ddf51a88a045db233418dd73fbe 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

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>_ts_dev_1</td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>_ts_dev_2</td>
<td></td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

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

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

Command (m for help):

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

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

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

Command (m for help):

BSD disklabel command (m for help):

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

BSD disklabel command (m for help):

1.524 kexec-tools 2.0.17
1.524.1 Available under license:

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1.528 jansson 2.4 6.el7

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1.529 gorillawebsocket 1.0

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1.530 zlib 0.95

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

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Public License instead of this License.
1.532 libtomcrypt 1.17
1.532.1 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, tomsdenis@gmail.com, http://libtomcrypt.org
    # */

1.533 vim 7.4.160 1.el7
1.533.1 Available under license:

*uganda.txt*  For Vim version 7.4.  Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

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Vim is Charityware.  You can use and copy it as much as you like, but you are
couraged 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
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=== begin of license ===

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- 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.

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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.

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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
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(XPM - X PixMap format version 2 & 3)
1.534 util-linux 2.23.2-26.el7

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 */

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
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Version 2, June 1991

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57c721e38d1266c2df055067c18f2cf9 bsd.img

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

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

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

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

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

Create 2st primary partition
1bebfb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8ff51a88a045db233418dd73fbe 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:

<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>
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<th>0</th>
<th>unused</th>
<th>5</th>
<th>4.1BSD</th>
<th>9</th>
<th>4.4LFS</th>
<th>d</th>
<th>boot</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>swap</td>
<td>6</td>
<td>Eighth Edition</td>
<td>a</td>
<td>unknown</td>
<td>e</td>
<td>ADOS</td>
</tr>
<tr>
<td>2</td>
<td>Version 6</td>
<td>7</td>
<td>4.2BSD</td>
<td>b</td>
<td>HPFS</td>
<td>f</td>
<td>HFS</td>
</tr>
</tbody>
</table>
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1.545 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>)
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  id AA27213; Thu, 25 May 95 11:18:25 CDT
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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. :-)
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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--------

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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/common/tftpsubs.h
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/extern.h

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

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

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

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

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

%build

%install
rm -rf %{_bindir}
mkdir -p %{_mandir}/man{1,8}
mkdir -p %{_sbindir}
make INSTALLROOT=%{_tmppath}/%{name}-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 <tmp@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 tftphpa 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-tftp 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-rip/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/tftpd/recvfrom.c
* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-.zip/tftp-hpa-distrotech-tftp-hpa/tftpd/recvfrom.h
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* /opt/cola/permits/1155118354_1627029032.46/0/tftp-hpa-distrotech-tftp-hpa-.zip/tftp-hpa-distrotech-tftp-hpa/tftpd/tftpd.h
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1.547 elfutils 0.148
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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

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

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

install-strip: install

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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Index: tdb/tb.c

--- tdbsa.orig/tdb.c
+++ tdb/tb.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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*
Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/main.c
No license file was found, but licenses were detected in source scan.

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* 
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* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
* 
*/

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/config.h
No license file was found, but licenses were detected in source scan.
/* ----------------------------------------------------------------------- *
* Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
* This program is free software available under the same license as the "OpenBSD" operating system, distributed at http://www.openbsd.org /
* ----------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.c
No license file was found, but licenses were detected in source scan.

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

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

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

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

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

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} 
  SBINDIR=%{_sbindir} MANDIR=%{_mandir} 
  install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

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

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

%clean
rm -rf ${RPM_BUILD_ROOT}

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

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

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

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt
* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

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

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

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

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

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

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

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

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

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

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

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

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

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.
* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

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

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

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

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

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

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

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

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.

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

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).
* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
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

%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

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

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

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/MCONFIG.in
No license file was found, but licenses were detected in source scan.

```
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"
```

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in
No license file was found, but licenses were detected in source scan.

```
/* --------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in
No license file was found, but licenses were detected in source scan.

```
*/
```

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* http://www.openbsd.org/.

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

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h

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

" -*- nroff -*- --------------------------------------------------------- *

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" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
" SUCH DAMAGE.

"----------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

/* */
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* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/
* *
* */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.h

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

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* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
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*/
Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/extern.h
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h

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

/ *
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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c

1.557 libnl3 3.4.0
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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  2.0.16/fips/rand/fips_drbg_lib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/utl/fips_lck.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/fips/aes/fips_gcmtest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  high_end_2.9.1.157_7660
2.0.16/fips/rand/fips_drbg_hmac.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_ctr.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_rand_lcl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbgvs.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdh/fips_ecdhlvs.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdsa/fips_ecdsavs.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_hash.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dh/fips_dhvs.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rand/fips_drbg_rand.c

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0openssl-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/bn/bn_sqr.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsha_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_recip.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_loc1.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/m_sha1.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/dsa/dsa_key.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/lhash/lhash.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/stack/stack.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/evp/m_dss1.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/des/rpc_des.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/cryptlib.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips_dsatest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_lib.c
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
# CRYPTOGRAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# SHA512 for C64x+.
#
# January 2012
#
# Performance is 19 cycles per processed byte. Compared to block
# transform function from sha512.c compiled with cl6x with -mv6400+
# -o2 -DOPENSSL_SMALL_FOOTPRINT it's almost 7x faster and 2x smaller.
# Loop unroll won't make it, this implementation, any faster, because
# it's effectively dominated by SHRU||SHL pairs and you can't schedule
# more of them.
#
# !!! Note that this module uses AMR, which means that all interrupt
# service routines are expected to preserve it and for own well-being
# zero it upon entry.

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

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

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

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

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

$code.=<<<___;
.text

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

.if.BIG_ENDIAN
Open Source Used In FXOS HIGH END 2.9.1.157 7672

.global _sha512_block_data_order
.sha512_block_data_order:

asmfunc stack_usage(40+128)

MV$NUM,A0; reassign $NUM
||MV$-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]ADDIB0,SP,SP; alloc(a(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
ADDAWSW,3,$Xilo
ADDAWSW,2,$Xahi

||MVSCTXA,SCTXB
LDW*{CTXA}[0^LITTLE_ENDIAN],$Ahi; load ctx
||LDW*{CTXA}[1^LITTLE_ENDIAN],$Alo
||ADDIB1,$K512,$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],$Ehi
||LDW*{CTXA}[9^LITTLE_ENDIAN],$Elo
LDW*{CTXA}[10^LITTLE_ENDIAN],$Fhi
||LDW*{CTXA}[11^LITTLE_ENDIAN],$Flo
LDW*{CTXA}[12^LITTLE_ENDIAN],$Ghi
||LDW*{CTXA}[13^LITTLE_ENDIAN],$Glo
LDW*{CTXA}[14^LITTLE_ENDIAN],$Hhi
LDW*${CTXB}[15^ spoof LITTLE_ENDIAN],$Hlo
LDNDW*$INP++,B11:B10; pre-fetch input
LDDW*$K512++,$Khi:$Klo; pre-fetch K512[0]

outerloop?:
MVK15,B0; loop counters
||MVK64,B1
||SUBA0,1,A0
MV$Ahi,$Actxhi
||MV$Alo,$Actxlo
||MV$Bhi,$Bctxhi
||MV$Blo,$Bctxlo
||MV$Ch,$Cctxhi
||MV$Clo,$Cctxlo
||MV$Dhi,$Dctxhi
||MV$Dlo,$Dctxlo
MV$Ehi,$Ectxhi
||MV$Elo,$Ectxlo
||MV$Fhi,$Fctxhi
||MV$Flo,$Fctxlo
||MV$Ghi,$Gctxhi
||MV$Glo,$Gctxlo
||MV$Hhi,$Hctxhi
||MV$Hlo,$Hctxlo

loop0_15?:
.if.BIG_ENDIAN
MV$B11,$T1hi
||MV$B10,$T1lo
.else
SWAP4B10,$T1hi
||SWAP4B11,$T1lo
SWAP2$T1hi,$T1hi
||SWAP2$T1lo,$T1lo
.endif
loop16_79?:
STW$T1hi,*$X1i++[2]
||STW$T1lo,*$X1lo++[2]; X[i] = T1
||ADD$Hhi,$T1hi,$T1hi
||ADDU$Hlo,$T1lo,$T1carry:$T1lo; T1 += h
||SHRUSEhi,14,$S1hi
||SHLSEhi,32-14,$S1lo
XOR$Fhi,$Ghi,$CHhi
||XOR$Flo,$Glo,$CHlo
||ADDKHI,$T1hi,$T1hi
||ADDUKL0,$T1carry:$T1lo,$T1carry:$T1lo; T1 += K512[i]
||SHRUSElo,14,$t0lo
||SHLSElo,32-14,$t0hi
XOR$t0hi,$S1hi,$S1hi
XOR $t0lo,$S1lo,$S1lo  
AND $Ehi,$CHhi,$CHhi  
AND $Elo,$CHlo,$CHlo  
ROTL $Ghi,0,$Hhi  
ROTL $Gllo,0,$Hlo  
; h = g  
SHRU $Ehi,18,$t0hi  
SHL $Ehi,32-18,$t0lo  
XOR $t0hi,$S1hi,$S1hi  
XOR $t0lo,$S1lo,$S1lo  
XOR $Ghi,$CHhi,$CHhi  
XOR $Gllo,$CHlo,$CHlo  
; Ch(e,f,g) = ((f^g)&e)^g  
ROTL $Fhi,0,$Ghi  
ROTL $Flo,0,$Ghi  
; g = f  
SHRU $Elo,18,$t0lo  
SHL $Elo,32-18,$t0hi  
XOR $t0hi,$S1hi,$S1hi  
XOR $t0lo,$S1lo,$S1lo  
OR $Ahi,$Bhi,$MAJhi  
OR $Alo,$Blo,$MAJlo  
ROTL $Ehi,0,$Fhi  
ROTL $Elo,0,$Flo  
; f = e  
SHRU $Ehi,41-32,$t0lo  
SHL $Ehi,64-41,$t0hi  
XOR $t0hi,$S1hi,$S1hi  
XOR $t0lo,$S1lo,$S1lo  
AND $Chi,$MAJhi,$MAJhi  
AND $Clo,$MAJlo,$MAJlo  
ROTL $Dhi,0,$Ehi  
ROTL $Dlo,0,$Elo  
; e = d  
SHRU $Ahi,28,$S0hi  
SHL $Ahi,32-28,$S0lo  
OR $t1hi,$MAJhi,$MAJhi  
OR $t1lo,$MAJlo,$MAJlo  
; Maj(a,b,c) = ((a|b)&c)|(a&b)  
ADD $CHhi,$T1hi,$T1hi  
ADDU $CHlo,$T1carry:$T1hi,$T1lo,$T1lo  
; T1 += Ch(e,f,g)  
ROTL $Bhi,0,$Chi  
ROTLS $Bllo,0,$Cllo  
; c = b  
SHRU $Alo,28,$t0lo  
SHL $Alo,32-28,$t0hi  
XOR $t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||ADDSShi,SThi,SThi
||ADDUS$1lo,ST1carry:$ST1lo,ST1carry:$ST1lo; T1 += Sigma1(e)
||ROTL$Ahi,0,$Bhi
||ROTL$Alo,0,$Blo; b = a
||SHRUS$Ahi,34-32,$t0lo
||SHLS$Ahi,64-34,$t0hi
XORS$0hi,$S0hi,$S0hi
||XORS$0lo,$S0lo,$S0lo
||ADD$MAJhi,$ST1hi,$ST2hi
||ADDUS$MAJlo,ST1carry:$ST1lo,ST2carry:$ST2lo; T2 = T1+Maj(a,b,c)
||SHRUS$Alo,34-32,$t0hi
||SHLS$Alo,64-34,$t0lo
XORS$0hi,$S0hi,$S0hi
||XORS$0lo,$S0lo,$S0lo
||ADD$Ehi,$ST1hi,$ST1hi
||ADDUSElo,ST1carry:$ST1lo,ST1carry:$ST1lo; T1 += e
||[B0]BNOPloopp_15?
||SHRUS$Ahi,39-32,$t0lo
||SHLS$Ahi,64-39,$t0hi
XORS$0hi,$S0hi,$S0hi
||XORS$0lo,$S0lo,$S0lo
||[B0]LDNDW*$INP++,B11:B10; pre-fetch input
||[!B1]BNOPbreak?
||SHRUS$Alo,39-32,$t0hi
||SHLS$Alo,64-39,$t0lo
XORS$0hi,$S0hi,$S0hi
||XORS$0lo,$S0lo,$S0lo; Sigma0(a)
||ADDST1carry,$ST1hi,$Ehi
||MVST1lo,$Elo; e = T1
||[!B0]LDW*$[Xihi][28],$ST1hi
||[!B0]LDW*$[Xilo][28],$ST1lo; X[i+14]
ADD$S$0hi,$ST2hi,$ST2hi
||ADDUS$0lo,ST2carry:$ST2lo,ST2carry:$ST2lo; T2 += Sigma0(a)
||[B1]LDDW*$K512++,$Khi:$Klo; pre-fetch K512[i]
NOP; avoid cross-path stall
ADDST2carry,$ST2hi,$Ahi
||MVST2lo,$Alo; a = T2
||[B0]SUBBB0.1,B0
;;;;= branch to loop00_15? is taken here
NOP
;;;;= branch to break? is taken here
LDW*$[Xihi][2],ST2hi
||LDW*$[Xilo][2],ST2lo; X[i+1] SHRUST1hi,19,$S1hi
||SHL$T1hi,32-19,$S1lo
SHRUST1lo,19,$t0lo
||SHL$T1lo,32-19,$t0hi
XOR$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,$S1lo
||SHRUST1hi,6,$t0hi
||SHLST1hi,32-6,$t0lo
XOR$t0hi,$S1hi,$S1hi
||XOR$t0lo,$S1lo,$S1lo
||SHRUST1lo,6,$t0lo
||LDW*${Xihi}[18],$T1hi
||LDW*${Xilo}[18],$T1lo; X[i+9]
XOR$t0lo,$S1lo,$S1lo; sigma1(X[i+14])

||LDW*${Xihi}[0],SCHhi
||LDW*${Xilo}[0],SCHlo; X[i]
||SHRUST2hi,1,$S0hi
||SHLST2hi,32-1,$S0lo
SHRUST2lo,1,$t0lo
||SHLST2lo,32-1,$t0hi
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||SHRUST2hi,8,$t0hi
||SHLST2hi,32-8,$t0lo
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||SHRUST2lo,8,$t0lo
||SHLST2lo,32-8,$t0hi
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||ADDSS1hi,$T1hi,$T1hi
||ADDUS$1lo,$T1lo,$T1carry:$T1lo; T1 = X[i+9]+sigma1()
|| [B1]BNOPloop16_79?
||SHRUST2hi,7,$t0hi
||SHLST2hi,32-7,$t0lo
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||ADD$SCHhi,$T1hi,$T1hi
||ADDUSCHlo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += X[i]
||SHRUST2lo,7,$t0lo
XOR$t0lo,$S$0lo,$S$0lo; sigma0(X[i+1])

ADDSS0hi,$T1hi,$T1hi
ADDUS0lo,ST1carry:ST1lo,ST1carry:ST1lo; T1 += sigma0()
[B1]SUBB1,1,B1
NOP; avoid cross-path stall
ADDST1carry,$T1hi,$T1hi
;===== branch to loop16_79? is taken here

break?:
ADDSAhi,$Actxhi,$Ahi; accumulate ctx
ADDSAlo,$Actxlo,$Actxlo:$Alo
[A0]LDNDW*INP++,$B11:B10; pre-fetch input
[A0]ADDK-640,$K512; rewind pointer to K512
ADDSBhi,$Bctxhi,$Bhi
ADDSBlo,$Bctxlo,$Bctxlo:$Blo
[A0]LDDW*S$K512++,$Khi:$Klo; pre-fetch K512[0]
ADDSChi,$Cctxhi,$Chi
ADDSCl0,$Cctxlo,$Cctxlo:$Clo
ADDSActxlo,$Ahi,$Ahi
!![A0]MVSCTXA,XCTXB
ADDSDhi,$Dctxhi,$Dhi
ADDSDlo,$Dctxlo,$Dctxlo:$Dlo
ADDSBctxlo,$Bhi,$Bhi
!![A0]STWSAhi,*{CTXA}[0^.LITTLE_ENDIAN]; save ctx
!![A0]STWSAlo,*{CTXB}[1^.LITTLE_ENDIAN]
ADDSFhi,$Fctxhi,$Fhi
ADDSFlo,$Fctxlo,$Fctxlo:$Flo
ADDSDctxlo,$Dhi,$Dhi
!![A0]STWSBhi,*{CTXA}[2^.LITTLE_ENDIAN]
!![A0]STWSBlo,*{CTXB}[3^.LITTLE_ENDIAN]
ADDSFhi,$Fctxhi,$Fhi
ADDSFctxlo,$Fctxlo,$Fctxlo:$Flo
ADDSDctxlo,$Dhi,$Dhi
!![A0]STWSBhi,*{CTXA}[4^.LITTLE_ENDIAN]
!![A0]STWSBlo,*{CTXB}[5^.LITTLE_ENDIAN]
ADDSGhi,$Gctxhi,$Ghi
ADDSGctxlo,$Ghi,$Ghi
ADDSGctxlo,$Gctxhi,$Ghi
!![A0]STWSGhi,*{CTXA}[6^.LITTLE_ENDIAN]
!![A0]STWSGlo,*{CTXB}[7^.LITTLE_ENDIAN]
ADDSHhi,$Hctxhi,$Hhi
ADDSHctxlo,$Hctxlo,$Hctxlo:$Hlo
ADDSFctxlo,$Fhi,$Fhi
!![A0]STWSGhi,*{CTXA}[8^.LITTLE_ENDIAN]
!![A0]STWSGlo,*{CTXB}[9^.LITTLE_ENDIAN]
ADDSGctxlo,$Ghi,$Ghi
!![A0]STWSGhi,*{CTXA}[10^.LITTLE_ENDIAN]
!![A0]STWSGlo,*{CTXB}[11^.LITTLE_ENDIAN]
ADDSHctxlo,$Shi,$Shi
STWShi,*${CTXA}[14^\.LITTLE\_ENDIAN]
||STWSHiLo,*${CTXB}[15^\.LITTLE\_ENDIAN]
||MVK-40,B0
ADDPF,B0,SP; destroy circular buffer
||LDDW*FP[-4],A11:A10
LDDW*SP[2],A13:A12
||LDDW*FP[-2],B11:B10
LDDW*SP[4],B13:B12
||BNOPRA
LDDW*++SP(40),FP; restore frame pointer
MVK0,B0
MVCB0,AMR; clear AMR
NOP2; wait till FP is committed
.endasmfunc

.sect",."const:sha_asm"
.align128
K512:
.uword0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
.uword0xb5c0fbcf,0xec4d3b2f, 0xbab1c5ed5,0xda69d118
.uword0x819bf174,0xcf692694
.uword0xe49b69c1,0x4ef8be476,0x384f25e3
.uword0x923f82a4,0xb5c0fbcf, 0xe9b5dba5,0xda69d118
.uword0x3956c25b,0xf348b538, 0x59f111f1,0xb605d019
.uword0x72be5d74,0xf27b896f, 0xc19bf174,0xcf692694
.uword0x9bd3e6a7,0x25c71235, 0x0a0e6e70
.uword0x983e5152,0x27b70a85, 0xc19bf174,0xcf692694
.uword0x650a7354,0x8baf63de, 0x766a0abb,0x3c77b2a8
.uword0x811c92e0,0x47edaee6, 0x92722c85,0x1482353b
.uword0x76f988da,0x831153b5
.uword0x06ca6351,0xe003826f, 0x27b70a85,0xc19bf174,0xcf692694
.uword0xf27b896f, 0x3c77b2a8
.uword0x0a0e6e70
print $code;

The SHA512 block transform for C64x+, CRYPTOAMS by <appro\@openssl.org>"

.print

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>, <fips/*.c>, <fips/*/*.c>);
} else {
@source = @ARGV;
}

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

# Parse config file
while(<IN>)
{
if(/^L\s+\(\S+\)\s+\(\S+\)\s+\(\S+\)\s+\(\S+\)/) {
$hhinc{$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;
}
}
eğer (/^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\n" if $debug;
      if(/\$/)  {
        $line = $_;
        next;
      }
      if(/\*/)  {
        if (not /\*\*/ )  {
          # multiline comment...
          $line = "";
        }  else {
          s/\*\*\//gs;# wipe it
        }
      }
      if(/BEGINERROR\n/)  {
        $line = "$_ = $line . "$ ;
      }
      if (/\$/)  {
        $line = "$_;
        next;
      }
      if(/\*/ )  {
        if (not /\*/ )  {
          # multiline comment...
          $line = "$_:";
        }  else {
          s/\*/\*/gs;# wipe it
        }
      }
    }
  }
  print STDERR "line: $linenr\n" if $debug;
  last if(BEGINERROR\nCODES/);
  if ($line ne "")  {
    $_. = $line . $_.
    $line = ":";
  }
  if (/\$/)  {
    $line = "$_
    next;
  }
  if(/\*/ )  {
    if (not /\*/ )  {
      # multiline comment...
      $line = "$_: # ... just accumulate
      next;
    }  else {
      s/\*\//gs;# wipe it
    }
  }
}
if ($cpp) {
    $cpp++ if /^#\s*if/;
    $cpp-- if /^#\s*endif/;
    next;
}
$cpp = 1 if /^#.*ifdef.*cplusplus/;  # skip "C" declaration
next if (/\^#/);                        # skip preprocessor directives
s/[^{}]*//gs;                          # ignore {} blocks
if (/\[\[\[\]^?/) { # Add a } so editor works...
    $line = $_;
} else {
    $def .= $_;
}

print STDERR "                                  \r" if $debug;
$defnr = 0;
# Delete any DECLARE_ macros
$def =~ s/DECLARE_\w+\((\w,\w+)\)/\1/gs;
foreach (split /;/, $def) {
    $defnr++;
    print STDERR "def: $defnr\r" if $debug;
}

# The goal is to collect function names from function declarations.
s/\n\n\n/g;
s/\n\n\n/g;

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

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

# Reduce argument lists to empty ()
# fold round brackets recursively: (t(*v)(t),t) -> (t{ }{},t) -> {} 
while(/\(.*\)/s) {
    s/\(\[\[\[\]\]\]\)?/\}/gs;
    s/\(\s*\*\s*(\w+)\s*\{\}/\1/gs;
}
# pretend as we didn't use curly braces: {} -> ()
s/\{\}/\}/gs;

if (\$cpp) {
    \$cpp++ if /^#\s*if/;
    \$cpp-- if /^#\s*endif/;
    \n    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+\((\w,\w+)\)/\1/gs;
foreach (split /;/, \$def) {
    \$defnr++;
    print STDERR "def: \$defnr\r" if \$debug;
}

# The goal is to collect function names from function declarations.
\s/\n\n\n/g;
\s/\n\n\n/g;

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

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

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

print STDERR " \r" if $debug;
next if $reindex;

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

if ($gotfile) {
    while(<IN>) {
        if(/\#define\s+(\S+)\s+(\S+)/) {
            $name = $1;
            $code = $2;
        next if $name =~ /^${lib}err/;
        unless($name =~ /^${lib}_([RF])_\([w+]+)/) {
            print STDERR "Invalid error code $name\n";
            next;
        }
        if($1 eq "R") {
            $rcodes{$name} = $code;
        next if $rassigned{$lib} =~ /:$code:/ {
            print STDERR "!! ERROR: $lib reason code $code assigned twice (collision at $name)\n";
            ++$errcount;
        }
        $rassigned{$lib} .= "$code:";
        if(!exists $rextra{$name} &&
            ($code > $rmax{$lib})) {
            $rmax{$lib} = $code;
        }
        } else {
        if (!$fassigned{$lib} =~ /:$code:/) {
            print STDERR "!! ERROR: $lib function code $code assigned twice (collision at $name)\n";
            ++$errcount;
        }
        $fassigned{$lib} .= "$code:";
        if($code > $fmax{$lib}) {
            $fmax{$lib} = $code;
        }
        }
        $fcodes{$name} = $code;
    }
}
if ($debug) {
    if (defined($fmax{$lib})) {
        print STDERR "Max function code fmax" . "\{ . \$lib\ . "\} = $fmax{$lib}\n";
        @fassigned{$lib} =~ m/^\{.*\}:$/;
        @fassigned = sort { $a <=> $b } split(";", $1);
        print STDERR " \@fassigned\\n";
    }
    if (defined($rmax{$lib})) {
        print STDERR "Max reason code rmax" . "\{ . \$lib\ . "\} = $rmax{$lib}\n";
        @rassigned{$lib} =~ m/^\{.*\}:$/;
        @rassigned = sort { $a <=> $b } split(";", $1);
        print STDERR " \@rassigned\\n";
    }
}
if ($lib eq "SSL") {
    if ($rmax{$lib} >= 1000) {
        print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\\n";
        print STDERR "!!        Any new alerts must be added to $config\\n";
        ++$errcount;
        print STDERR "\\n";
    }
}
}
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]+)_F_([A-Z0-9_]+))/) {
next unless exists $csrc{$2};
next if($1 eq "BIO_F_BUFFER_CTX");
$ufcodes{$1} = 1;
if(!exists $fcdes{$1}) {
$fcdes{$1} = "X";
$fnew{$2}++;
}
$notrans{$1} = 1 unless exists $ftrans{$3};
print STDERR "Function: $1 = $fcdes{$1} (lib: $2, name: $3)\n" if $debug;
}
if(/([A-Z0-9]+)_R_[A-Z0-9_]+/)
next unless exists $csrc{$2};
$urcodes{$1} = 1;
if(!exists $rcodes{$1}) {
$rcodes{$1} = "X";
$rnew{$2}++;
}
print STDERR "Reason: $1 = $rcodes{$1} (lib: $2)\n" if $debug;
}
close IN;
print STDERR "\n" if $debug;

# Now process each library in turn.

foreach $lib (keys %csrc)
{
my $hfile = $hinc{$lib};
my $cfile = $csrc{$lib};
if(!$fnew{$lib} && !$rnew{$lib}) {
print STDERR "$lib: No new error codes\n";
next unless $rebuild;
} else {
print STDERR "$lib:\n\tNo new error codes\n";
next unless $dowrite;
}
}

# If we get here then we have some new error codes so we
# need to rebuild the header file and C file.

# Make a sorted list of error and reason codes for later use.
my @function = sort grep(/^${lib}_/i,keys %fcodes);
my @reasons = sort grep(/^${lib}_/i,keys %rcodes);

# Rewrite the header file

if (open(IN, "<$hfile")) {
    # Copy across the old file
    while(<IN>) {
        push @out, $_;
    } last if (/BEGIN ERROR CODES/);
    close IN;
} else {
    push @out,
    "/* ====================================================================
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 * Hudson (tjh@cryptsoft.com).
 * */

#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";
${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line);

EOF
} else {
print OUT <<"EOF";
${staticloader}void ERR_${lib}_load(void);
${staticloader}void ERR_${lib}_unload(void);
${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line);
# define $lib err(f,r) ERR_$lib_error((f),(r),__FILE__,__LINE__) 
EOF

print OUT <<"EOF";
/* Error codes for the $lib functions. */

/* Function codes. */
EOF

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

print OUT <<"EOF";
```perl
#ifdef __cplusplus
}
#endif
#endif
EOF

close OUT;

# Rewrite the C source file containing the error details.

# First, read any existing reason string definitions:
my %err_reason_strings;
if (open(IN,"<$cfile")) {
  while (<IN>) {
    if (/\b(${lib}_R_\w*)\b.*"(.*)"/) {
      $err_reason_strings{$1} = $2;
    }
    if (/\b${lib}_F_(\w*)\b.*"(.*)"/) {
      if (!exists $ftrans{$1} && ($1 ne $2)) {
        print STDERR "WARNING: Mismatched function string $2\n";
        $ftrans{$1} = $2;
      }
    }
  }
  close(IN);
}

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

# 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 */
#endif 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
};

#define ERR_REASON(reason) ERR_PACK($pack_errcode,0,reason)

defined 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_reasons[] =
{
EOF
};

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EOF

# Add each reason code.
foreach $i (@reasons) {
my $rn;
my $str = "ERR_REASON($i)";
my $nspace = 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]/;
}
$nspace = 40 - length($str) unless length($str) > 40;
$str = $nspace x $nspace;
print OUT "{"$str$nspace","$rn"},
";
}

if($static) {
    print OUT <<"EOF"
{0,NULL}
"EOF";
}
#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
} else {
    print OUT <<"EOF"
{0,NULL}
"EOF";
#endif

#ifdefined ${lib}_LIB_NAME
static ERR_STRING_DATA ${lib}_lib_name[]=
{
{0	,${lib}_LIB_NAME},
{0,NULL}
}
static int static_lib_error_code=0;
static int static_lib_error_init=1;

staticloader}void ERR_load_${lib}_strings(void)
{
  if (static_lib_error_code == 0)
    static_lib_error_code=ERR_get_next_error_library();

  if (static_lib_error_init)
  {
    static_lib_error_init=0;
    #ifndef OPENSSL_NO_ERR
    ERR_load_strings(static_lib_error_code,static_${lib}_str_functs);
    ERR_load_strings(static_lib_error_code,static_${lib}_str_reasons);
    #endif

    #ifdef static_${lib}_LIB_NAME
    static_${lib}_lib_name->error = ERR_PACK(static_lib_error_code,0,0);
    ERR_load_strings(0,static_${lib}_lib_name);
    #endif
  }
}

staticloader}void ERR_unload_${lib}_strings(void)
{
  if (static_lib_error_init == 0)
  {
    #ifndef OPENSSL_NO_ERR
    ERR_unload_strings(static_lib_error_code,static_${lib}_str_functs);
    ERR_unload_strings(static_lib_error_code,static_${lib}_str_reasons);
    #endif

    #ifdef static_${lib}_LIB_NAME
    ERR_unload_strings(0,static_${lib}_lib_name);
    #endif
    static_lib_error_init=1;
  }
}

staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line)
{
  if (static_lib_error_code == 0)
    static_lib_error_code=ERR_get_next_error_library();
  ERR_PUT_error(static_lib_error_code,function,reason,file,line);


EOF

}

close OUT;
#undef %err_reason_strings;
}

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

# Make a list of unreferenced function and reason codes

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

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

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

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

if($errcount) {
    print STDERR "There were errors, failing...
";
    exit $errcount;
}
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* 
* #!/usr/bin/env perl
#
# Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
#
# I let hardware handle unaligned input(*), except on page boundaries
# (see below for details). Otherwise straightforward implementation
# with X vector in register bank. The module is big-endian [which is
# not big deal as there're no little-endian targets left around].
#
# (*) this means that this module is inappropriate for PPC403? Does
# anybody know if pre-POWER3 can sustain unaligned load?

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

$flavour = shift;

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

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

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

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

$K ="r0";
$sp ="r1";
$toc="r2";
$ctx="r3";
$inp="r4";
$num="r5";
$t0 ="r15";
$t1 ="r6";
\$A = \text{"r7"};
\$B = \text{"r8"};
\$C = \text{"r9"};
\$D = \text{"r10"};
\$E = \text{"r11"};
\$T = \text{"r12"};

\@V=(\$A,\$B,\$C,\$D,\$E,\$T);
\@X=(\text{"r16"},\text{"r17"},\text{"r18"},\text{"r19"},\text{"r20"},\text{"r21"},\text{"r22"},\text{"r23"},
\text{"r24"},\text{"r25"},\text{"r26"},\text{"r27"},\text{"r28"},\text{"r29"},\text{"r30"},\text{"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\text{(}\$inp) ___ 
    $code.=<<___ if ($i<15);
    lwz@X[$j],\$j*4\text{(}\$inp)
    add\$f,\$K,\$e
    rotlwi\$e,\$a,5
    add\$f,\$f,\@X[$i]
    and\$t0,\$c,\$b
    add\$f,\$f,\$e
    andc\$t1,\$d,\$b
    rotlwi\$b,\$b,30
    or\$t0,\$t0,\$t1
    add\$f,\$f,\$t0
    ___
    $code.=<<___ if ($i>=15);
    add\$f,\$K,\$e
    rotlwi\$e,\$a,5
    xor@X[$j]\%16,\@X[$j]\%16,\@X[(\$j+2)\%16]
    add\$f,\$f,\@X[$i]\%16
    and\$t0,\$c,\$b
    xor@X[$j]\%16,\@X[$j]\%16,\@X[(\$j+8)\%16]
    add\$f,\$f,\$e
    andc\$t1,\$d,\$b
    rotlwi\$b,\$b,30
    or\$t0,\$t0,\$t1
    xor@X[$j]\%16,\@X[$j]\%16,\@X[(\$j+13)\%16]
    add\$f,\$f,\$t0
    rotlwi@X[$j]\%16,\@X[$j]\%16,1
    ___
}

sub BODY_20_39 {
    my ($i,\$a,\$b,\$c,\$d,\$e,\$f)=@_; 
}
my $j=$i+1;
$code.=<<___ if ($i<79);
add$F,$K,$E
rotlw$E,$A,5
xor@X[$Sj%16],@X[$Sj%16],@X[($Sj+2)%16]
add$F,$F,@X[$Si%16]
xor$0,$b,$c
xor@X[$Sj%16],@X[$Sj%16],@X[($Sj+8)%16]
add$F,$F,$E
rotlw$b,$b,30
xor$0,$0,$d
xor@X[$Sj%16],@X[$Sj%16],@X[($Sj+13)%16]
add$F,$F,$0
rotlw@X[$Sj%16],@X[$Sj%16],1
___
$code.=<<___ if ($i==79);
add$F,$K,$E
rotlw$E,$A,5
lwz$r16,0($ctx)
add$F,$F,@X[$Si%16]
xor$0,$b,$c
lwz$r17,4($ctx)
add$F,$F,$E
rotlw$b,$b,30
lwz$r18,8($ctx)
xor$0,$0,$d
lwz$r19,12($ctx)
add$F,$F,$0
lwz$r20,16($ctx)
___
}

sub BODY_40_59 {  
my ($i,$a,$b,$c,$d,$e,$f)=@_;  
my $j=$i+1;
$code.=<<___;
add$F,$K,$E
rotlw$E,$A,5
xor@X[$Sj%16],@X[$Sj%16],@X[($Sj+2)%16]
add$F,$F,@X[$Si%16]
and$0,$b,$c
xor@X[$Sj%16],@X[$Sj%16],@X[($Sj+8)%16]
add$F,$F,$E
or$t1,$b,$c
rotlw$b,$b,30
xor@X[$Sj%16],@X[$Sj%16],@X[($Sj+13)%16]
and$t1,$t1,$d
or$t0,$0,$t1
rotlwi @X[$j%16], @X[$j%16], 1
addf, f, $t0

}

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

.globl sha1_block_data_order
.align 4
.sha1_block_data_order:
$STU sp, -$FRAME($sp)
mflr 0
$PUSH r15, `$FRAME-$SIZE_T*17`($sp)
$PUSH r16, `$FRAME-$SIZE_T*16`($sp)
$PUSH r17, `$FRAME-$SIZE_T*15`($sp)
$PUSH r18, `$FRAME-$SIZE_T*14`($sp)
$PUSH r19, `$FRAME-$SIZE_T*13`($sp)
$PUSH r20, `$FRAME-$SIZE_T*12`($sp)
$PUSH r21, `$FRAME-$SIZE_T*11`($sp)
$PUSH r22, `$FRAME-$SIZE_T*10`($sp)
$PUSH r23, `$FRAME-$SIZE_T*9`  ($sp)
$PUSH r24, `$FRAME-$SIZE_T*8`  ($sp)
$PUSH r25, `$FRAME-$SIZE_T*7`  ($sp)
$PUSH r26, `$FRAME-$SIZE_T*6`  ($sp)
$PUSH r27, `$FRAME-$SIZE_T*5`  ($sp)
$PUSH r28, `$FRAME-$SIZE_T*4`  ($sp)
$PUSH r29, `$FRAME-$SIZE_T*3`  ($sp)
$PUSH r30, `$FRAME-$SIZE_T*2`  ($sp)
$PUSH r31, `$FRAME-$SIZE_T*1`  ($sp)
$PUSH r0, `$FRAME+$LRSAVE`($sp)
lwz A, 0($ctx)
lwz B, 4($ctx)
lwz C, 8($ctx)
lwz D, 12($ctx)
lwz E, 16($ctx)
andi r0, $inp, 3
bne Lunaligned
mtctr $num
bl Lsha1_block_private
b Ldone

; PowerPC specification allows an implementation to be ill-behaved
; upon unaligned access which crosses page boundary. "Better safe
; than sorry" principle makes me treat it specially. But I don't
; look for particular offending word, but rather for 64-byte input
; block which crosses the boundary. Once found that block is aligned
; and hashed separately...
.align4
Lunaligned:
subfc$t1,$inp,4096
andi.$t1,$t1,4095; distance to closest page boundary
srwi.$t1,$t1,6; t1/=64
beqLcross_page
$UCMP$num,$t1
bleLaligned; didn't cross the page boundary
mtctr$t1
subfc$num,$t1,$num
blLsha1_block_private
Lcross_page:
li$t1,16
mtctr$t1
addi20,$sp,$LOCALS; spot within the frame
Lmemcpy:
lbz$r16,0($inp)
lbz$r17,1($inp)
lbz$r18,2($inp)
lbz$r19,3($inp)
addi$inp,$inp,4
stb$r16,0(r20)
stb$r17,1(r20)
stb$r18,2(r20)
stb$r19,3(r20)
addi20,r20,4
bdnzLmemcpy
$PUSH$inp,`$FRAME-$SIZE_T*18`($sp)
li$t1,1
addi$inp,$sp,$LOCALS
mtctr$t1
blLsha1_block_private
$PUSPH$num,`$FRAME-$SIZE_T*18`($sp)
addi.$num,$num,-1
bneLunaligned
Ldone:
$PUSPHr0,`$FRAME+$LRSAVE`($sp)
$PUSPHr15,`$FRAME-$SIZE_T*17`($sp)
$PUSPHr16,`$FRAME-$SIZE_T*16`($sp)
$PUSPHr17,`$FRAME-$SIZE_T*15`($sp)
$PUSPHr18,`$FRAME-$SIZE_T*14`($sp)
$PUSPHr19,`$FRAME-$SIZE_T*13`($sp)
$PUSPHr20,`$FRAME-$SIZE_T*12`($sp)
$PUSPHr21,`$FRAME-$SIZE_T*11`($sp)
$POP r22,`$FRAME-$SIZE_T*10`(sp)
$POP r23,`$FRAME-$SIZE_T*9`(sp)
$POP r24,`$FRAME-$SIZE_T*8`(sp)
$POP r25,`$FRAME-$SIZE_T*7`(sp)
$POP r26,`$FRAME-$SIZE_T*6`(sp)
$POP r27,`$FRAME-$SIZE_T*5`(sp)
$POP r28,`$FRAME-$SIZE_T*4`(sp)
$POP r29,`$FRAME-$SIZE_T*3`(sp)
$POP r30,`$FRAME-$SIZE_T*2`(sp)
$POP r31,`$FRAME-$SIZE_T*1`(sp)
mtlr0
addi $sp,$sp,$FRAME
blr
.long 0
.byte 0,12,4,1,0x80,18,3,0
.long 0
___

# This is private block function, which uses tailored calling
# interface, namely upon entry SHA_CTX is pre-loaded to given
# registers and counter register contains amount of chunks to
# digest...
.code.=<<___;
.align 4
Lsha1_block_private:
___
.code.=<<___;# load K_00_19
lis $K,0x5a82
ori $K,$K,0x7999
___
for($i=0;$i<20;$i++){ &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
.code.=<<___;# load K_20_39
lis $K,0x6ed9
ori $K,$K,0xeba1
___
for($i<40;$i++){ &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
.code.=<<___;# load K_40_59
lis $K,0x8f1b
ori $K,$K,0xbcdc
___
for($i<60;$i++){ &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
.code.=<<___;# load K_60_79
lis $K,0xca62
ori $K,$K,0xc1d6
___
for($i<80;$i++){ &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
.code.=<<___;
addr16,r16,$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`
bdnz Lsha1_block_private
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
___
$code.<<<<<;
.asciz "SHA1 block transform for PPC, CRYPTOGRAMS by <appro\@fy.chalmers.se>"
___
$code =~ s/\`([^`]*\`)\`/eval $1/gem;
print $code;
close STDOUT;

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-ppc.pl
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#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================
#
# December 2011
#
# The module implements GCM GHASH function and underlying single
# multiplication operation in GF(2^128). Even though subroutines
# have _4bit suffix, they are not using any tables, but rely on
# hardware Galois Field Multiply support. Streamed GHASH processes
# byte in ~7 cycles, which is >6x faster than "4-bit" table-driven
# code compiled with TTs cl6x 6.0 with -mv6400+ -o2 flags. We are
# comparing apples vs. oranges, but compiler surely could have done
# better, because theoretical [though not necessarily achievable]
# estimate for "4-bit" table-driven implementation is ~12 cycles.

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

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

($Z0,$Z1,$Z2,$Z3,$H0, $H1, $H2, $H3,$H0x,$H1x,$H2x,$H3x)=map("A$_",(16..27));
($H0y,$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

$code.=<<___;
.text
.asmfunc
LDDW*${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]
SHL$E10000,16,$E10000; [pre-shifted] reduction polynomial
SHL$FF000000,24,$FF000000; upper byte mask
||BNOPghash_loop?
||MVK1,B0; take a single spin

PACKH2SH0,$H1,$xia; pack H0' and H1's upper bytes
ANDSH2,$FF000000,$H2u; H2's upper byte
ANDSH3,$FF000000,$H3u; H3's upper byte
||SHRUSH2u,8,$H2u
SHRUSH3u,8,$H3u
||ZEROSZ1:$Z0
SHRU2Sxia,8,$H01u
||ZEROSZ3:$Z2
.endasmfunc

.global_gcm_ghash_4bit
._gcm_ghash_4bit:
.asmfunc
LDDW*${Htable}[-1],$H1:$H0; H.lo
||SHRUSlen,4,B0; reassign len
LDDW*${Htable}[-2],$H3:$H2; H.hi
||MV5Xip,${xip}; reassign Xi
||MVK15,B1; SPLOOPD constant

MVK0xE1,$E10000
||[B0]LDNDW*${inp}[1],$H1x:$H0x
MVK0xFF,$FF000000
||[B0]LDNDW*${inp}++[2],$H3x:$H2x
SHL$E10000,16,$E10000; [pre-shifted] reduction polynomial
LDDW*{xip}[1],SZ1:SZ0
SHL$FF000000,24,$FF000000; upper byte mask
LDDW*{xip}[0],SZ3:SZ2

PACKH2SH0,$H1,$xia; pack H0' and H1's upper bytes
ANDSH2,$FF000000,SH2u; H2's upper byte
ANDSH3,$FF000000,SH3u; H3's upper byte

|| LDDW*{xip}[0],$Z1:$Z0
|| SHL$FF000000,24,$FF000000; upper byte mask
|| LDDW*{xip}[0],$Z3:$Z2
|| PACKH2	$H0,$H1,$xia		; pack H0' and H1's upper bytes
|| AND	$H2,$FF000000,$H2u	; H2's upper byte
|| AND	$H3,$FF000000,$H3u	; H3's upper byte
|| SHRU	$H2u,8,$H2u
|| SHRU	$H3u,8,$H3u
|| SHRU2	$xia,8,$H01u
|| [B0]	XOR	$H0x,$Z0,$Z0		; Xi^=inp
|| [B0]	XOR	$H1x,$Z1,$Z1
.if LITTLE_ENDIAN
|| [B0]	XOR	$H2x,$Z2,$Z2
|| [B0]	XOR	$H3x,$Z3,$Z3
|| [B0]	SHRU$Z1,16,$x0; Xi[14]
|| [B0]	ZERO$SZ1:$Z0
.else
|| [B0]	XORSH0x,$Z0,$Z0; Xi^=inp
|| [B0]	XORSH1x,$Z1,$Z1
.if LITTLE_ENDIAN
|| [B0]	XORSH2x,$Z2,$Z2
|| [B0]	XORSH3x,$Z3,$Z3
|| [B0]	MV$SZ0,$xia; Xi[15], avoid cross-path stall
|| [B0]	SHRU$Z0,8,$x0; Xi[14]
|| [B0]	ZERO$SZ1:$Z0
.endif
STDWSZ3:$Z2,*${xip}
|| [B0]	SUB	B0,1,B0
|| ZEROA0
|| [B0]ADDK14,*{xip}

ghash_loop?:
SPLOOPD6; 6*16+7
|| [B0]MV$SZ1,$x1
|| [B0]ADD$x1,1,$xib; SHL$x1,1,$xib
|| SHL$x1,1,$xia

#-----------------------------
#  #  D2.  M1    M2
#  #  M1
#  #  M1    M2
#  #  D1.  M1    M2
#  #  S1.  L1

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# 5 S2 S1x L1 D2 L2 |
# 6/0 L1 S1 L2 S2x |D2. M1 M2 |
# 7/1 L1 S1 D1x S2 M2 | M1 |
# 8/2 S1 L1x S2 | M1 M2 |
# 9/3 S1 L1x | D1. M1 M2 |
# 10/4 D1x | S1. L1 |
# 11/5 | S2 S1x L1 D2 L2 |
# 12/6/0 D1x | L1 S1 L2 S2x |D2. ....
# 7/1 L1 S1 D1x S2 M2 | ....
# 8/2 S1 L1x S2 | ....
###

Scode.<<__;
XORMPY$H0,$xia,$H0x; 0; HXi[i]
||
XORMPY$H0u,$xib,$H01y
|| [A0]LDBU*--${xip},$x0
XORMPY$H1,$xia,$H1x; 1
XORMPY$H2,$xia,$H2x; 2
||XORMPY$H2u,$xib,$H2y
XORMPY$H3,$xia,$H3x; 3
||XORMPY$H3u,$xib,$H3y
||![A0]MVK.D15,A0; *--${xip} counter
XOR.L$H0x,$SZ0,$SZ0; 4; Z*=HXi[i]
||[A0]SUB.SA0,1,A0
XOR.L$H1x,$SZ1,$SZ1; 5
||AND.D$H0y,$FF000000,$H0z
||SWAP2.L$H01y,SH1y;; SHL$H01y,16,SH1y
||SHL$x0,1,$xib
||SHL$x0,1,$xia
XOR.L$H2x,$SZ2,$SZ2; 6/0; [0,0] in epilogue
||SHL$SZ0,1,$rem;; rem=Z<<1
||SHRMB.$SZ1,$SZ0,$SZ0;; Z>>>=8
||AND.L$H1y,$FF000000,$H1z
XOR.L$H3x,$SZ3,$SZ3; 7/1
||SHRMB.$SZ2,$SZ1,$SZ1
||XOR.D$H0z,$SZ0,$SZ0; merge upper byte products
||AND.$SSH2y,$FF000000,$H2z
||XORMPY$E10000,$SZ2,$rem,$res;; implicit rem&0x1FE
XOR.L$H1z,$SZ1,$SZ1; 8/2
||SHRMB.$SZ3,$SZ2,$SZ2
||AND.$SSH3y,$FF000000,$H3z
XOR.L$H2z,$SZ2,$SZ2; 9/3
||SHRUSZ3.8,$SZ3
XOR.D$H3z,$SZ3,$SZ3; 10/4
NOP; 11/5

SPKERN 0.2
||XOR.D$res,$SZ3,$SZ3; 12/6/0; Z*=res
; input pre-fetch is possible where D1 slot is available...
[B0]LDNDW*{inp}[1],SH1x:SH0x; 8/-
[B0]LDNDW*{inp}++[2],SH3x:SH2x; 9/-
NOP; 10/-
.if LITTLE_ENDIAN
SWAP2$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,$Z3
  || [B0]SHRUSZ1,24,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*${xip}[1]
|| [B0]SHRUSZ1,16,$x0; Xi[14]
|| [B0]ZERO$Z1:$Z0
 .else
|!B0]BNOPRA; 11/-
  [B0]BNOPghash_loop?; 12/-
  [B0]XOR$H0x,$Z0,$Z0; Xi^=inp
  || [B0]XOR$H1x,$Z1,$Z1
  [B0]XOR$H2x,$Z2,$Z2
  || [B0]XOR$H3x,$Z3,$Z3
  || [B0]MV$Z0,$xia; Xi[15], avoid cross-path stall
STDWSZ1:$Z0,*${xip}[1]
|| [B0] SHRUSZ0,8,$x0; Xi[14]
|| [B0]ZERO$Z1:$Z0
 .endif
STDWSZ3:$Z2,*${xip}[0]
|| [B0]ZERO$Z3:$Z2
|| [B0]MV$xia,$x1
  [B0]ADDK14,${xip}
.endasmfunc

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

__

print $code;
close STDOUT;

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-c64xplus.pl

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/*
tlhelp32.h - Include file for Tool help functions.

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

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

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# this file except in compliance with the License. You can obtain a copy
# in the file LICENSE in the source distribution or at
# https://www.openssl.org/source/license.html
while (($output=shift) && ($output!~/\w\[\w-]*\..+$/)) {} 
open STDOUT,">$output";

$code.=<<___;
.text

.if ASSEMBLER_VERSION<7000000
.asg0.__TI_EABI__
.endif
.if __TI_EABI__
.asgOPENSSL_rdtsc__OPENSSL_rdtsc
.asgOPENSSL_cleanse__OPENSSL_cleanse
.asgCRYPTO_memcmp__CRYPTO_memcmp
.asgOPENSSL_atomic_add__OPENSSL_atomic_add
.asgOPENSSL_wipe_cpu__OPENSSL_wipe_cpu
.asgOPENSSL_instrument_bus__OPENSSL_instrument_bus
.asgOPENSSL_instrument_bus2__OPENSSL_instrument_bus2
.endif
.asgB3.RA
.asg0x01AC0000,TIMER_BASE; Timer 2

.global OPENSSL_rdtsc
_OPENSSL_rdtsc:
.asmfunc
MVKL TIMER_BASE,A5
MVKH TIMER_BASE,A5
LDW*A5[0],A2; load CTL
LDW*A5[2],A4; load CTN
NOP2
.if BIG_ENDIAN
MVK0x2c0,A7; internal clock source, don't hold, go
||MVK-1,A6; maximum period
.else
MVK0x2c0,A6; internal clock source, don't hold, go
||MVK-1,A7; maximum period
.endif
[!A2]STDWA7:A6,*A5[0]; fire it up
||BNOPRA,5
.endasmfunc

.global OPENSSL_cleanse
_OPENSSL_cleanse:
.asmfunc
ZEROA3:A2
||ZEROB2
||SHRB4,3,B0; is length >= 8
ADD1,A4,B6
[B0]BNOPRA
[B0]SUBB0,1,B2
ZEROA1
ZEROB1
[B0]CMPLT0,B4,A1
[B0]CMPLT1,B4,B1
[B0]CMPLT2,B4,A1
[B0]CMPLT3,B4,B1
A1STBA2,*A4++[2]
B1STBB5,*B6++[2]
[B0]CMPLT4,B4,A1
[B0]CMPLT5,B4,B1
A1STBA2,*A4++[2]
B1STBB5,*B6++[2]
[B0]CMPLT6,B4,A1
A1STBA2,*A4++[2]

cleanse_loop?:
STNDW3:A2,*A4++
SUBB4,8,B4

MVB4,B0; remaining bytes
ADD1,A4,B6
BNOPRA
B0CMPLT0,B0,A1
B0CMPLT1,B0,B1
A1STBA2,*A4++[2]
B1STBB5,*B6++[2]
B0CMPLT2,B0,A1
B0CMPLT3,B0,B1
A1STBA2,*A4++[2]
B1STBB5,*B6++[2]
B0CMPLT4,B0,A1
B0CMPLT5,B0,B1
A1STBA2,*A4++[2]
B1STBB5,*B6++[2]
B0CMPLT6,B0,A1
A1STBA2,*A4++[2]
.endasmfunc

.if 0
  .global_CRYPTO_memcmp
  _CRYPTO_memcmp:
  .asmfunc
  MVA6,B0
  ![B0]BNOPRA
  || ![B0]ZEROA4
  || ![B0]ZEROA1:A0
  [B0]LDBU*A4++,A5
  || [B0]LDBU*B4++,B5
  || [B0]BDECstrcmp_loop?,B0
  [B0]LDBU*A4++,A5
  || [B0]LDBU*B4++,B5
  || [B0]BDECstrcmp_loop?,B0
  [B0]LDBU*A4++,A5
  || [B0]LDBU*B4++,B5
  || [B0]BDECstrcmp_loop?,B0
  [B0]LDBU*A4++,A5
  || [B0]LDBU*B4++,B5
  || [B0]BDECstrcmp_loop?,B0
  [B0]LDBU*A4++,A5
  || [B0]LDBU*B4++,B5
  || [B0]BDECstrcmp_loop?,B0
  XOR A5,B5,A1
  || [B0]LDBU*A4++,A5
  || [B0]LDBU*B4++,B5
  || [B0]BDECstrcmp_loop?,B0

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

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

  .global_OPENSSL_atomic_add
  _OPENSSL_atomic_add:
  .asmfunc
  BNOPAtomic_store?; pre-C64x+ systems are uni-processor, it's
  || LDW*A4,B5; enough to hold interrupts off through
; the load-update-store cycle to achieve
; atomicity
NOP
BNOPRA,3; and this branch stretches even over store
ADD B4, B5, B5
atomic_store?:
ST B5, *A4
||MV B5, A4
.endasmfunc

.global _OPENSSL_wipe_cpu
.OPENSSL_wipe_cpu:
.asmfnc
ZERO A0
||ZERO B0
||ZERO A1
||ZERO B1
ZERO A3:A2
||MV DB0, B2
||ZERO A4
||ZERO B4
||ZERO A5
||ZERO B5
||BNOPRA
ZERO A7:A6
||ZERO B7:B6
||ZERO A8
||ZERO B8
||ZERO A9
||ZERO B9
ZERO A17:A16
||ZERO B17:B16
||ZERO A18
||ZERO B18
||ZERO A19
||ZERO B19
ZERO A21:A20
||ZERO B21:B20
||ZERO A22
||ZERO B22
||ZERO A23
||ZERO B23
ZERO A25:A24
||ZERO B25:B24
||ZERO A26
||ZERO B26
||ZERO A27
||ZERO B27
CLFLUSH.macro CONTROL, ADDR, LEN
  passthrough?
  [STW ADDR, *CONTROL[0]
  STW LEN, *CONTROL[1]
spinlock?:
  LDW *CONTROL[1], A0
  NOP3
  passthrough?:
  NOP
  [A0] BNOP spinlock?, 5
.endm

.global _OPENSSL_instrument_bus
_OPENSSL_instrument_bus:
.asmfunc
  MV B4, B0 ; reassign sizeof(output)
  [MVA4, B4; reassign output
  [MVK0x00004030, A3
  [MVKLTIMER_BASE, B16
  MV B0, A4; return value
  [MVK1, A1
  [MVKHL0x01840000, A3; L1DWBAR
  [MVKHTIMER_BASE, B16
  LDW*B16[2], B8; collect 1st tick
  [MVK0x00004010, A5
  NOP4
  MV B8, B9; lasttick = tick
  [MVK0, B7; lastdiff = 0
  [MVKHL0x01840000, A5; L2WIBAR
  CLFLUSH A3, B4, A1; write-back and invalidate L1D line
  CLFLUSH A5, B4, A1; write-back and invalidate L2 line
  LDW*B4, B5
  NOP4
  ADD B7, B5, B5
  STWB5, *B4
  bus_loop1?:
  LDW*B16[2], B8
  [B0] SUBB0, 1, B0
  NOP4
  SUBB8, B9, B7; lastdiff = tick - lasttick
MV B8, B9; lasttick = tick  
CLFLUSH A3, B4, A1; write-back and invalidate L1D line  
CLFLUSH A5, B4, A1; write-back and invalidate L2 line  
LDW*B4, B5  
NOP  
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  
MV A6, B0; reassign max  
||[MVB4, A6; reassing sizeof(output)  
||MVK0x00004030, A3  
||MVKLTIMER_BASE, B16  
MV A4, B4; reassign output  
||MVK0, A4; return value  
||MVK1, A1  
||MVKH0x01840000, A3; L1DWIBAR  
||MVKHTIMER_BASE, B16  
LDW*B16[2], B8; collect 1st tick  
||MVK0x00004010, A5  
NOP  
MVB8, 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  
NOP  
ADDB7, B5, B5  
STWB5, *B4  
LDW*B16[2], B8; collect 1st diff  
NOP  
SUBB8, B9, B7; lastdiff = tick - lasttick  
||MVB8, B9; lasttick = tick  
||SUBB0, 1, B0  
bus_loop2?:  
CLFLUSH A3, B4, A1; write-back and invalidate L1D line  
CLFLUSH A5, B4, A1; write-back and invalidate L2 line  
LDW*B4, B5
NOP4
ADDB7,B5,B5
STWB5,*B4; [!B1] is removed to flatten samples
||[!B0]BNOPbus_loop2_done?,2
||SUBB0,1,B0
LDW*B16[2],B8
NOP4
SUBB8,B9,B8
||MVBB8,B9
CMPEQB8,B7,B2
||MVBB8,B7
[!B2]ADDAWB4,1,B4
||[!B2]ADDK1,A4
CMPEQA4,A6,A2
[/A2]BNOPbus_loop2?,5

bus_loop2_done?:
BNOPA4,5
.endasmfunc

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

print $code;
close STDOUT;

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

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghashv8-armx.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86_64-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-armv8.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-parisc.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-armv4.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/sparcv9-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-thumb.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/x86-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/ppc-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-x86.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-armv8.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-armv4.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/aes/asm/aesni-x86_64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-sparcv9.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512p8-ppc.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-586.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-sparcv9a.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-sparcv9.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-alpha.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-x86_64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-armv4.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-armv8.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/asn1/asn1-sparcv9.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha1-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/sha1-armv8.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/sha1-armv4.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/s390x-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-armv4.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/asm/sha1-ppc.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/atrium-mont.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghash-sha1x64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/sha256-sha1x64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha256-sha1x64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/atrium-sha1x64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/sha256-sha1x64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/sha512-sha1x64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/sha512-sha1x64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/atrium-sha1x64.pl
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/sha256-sha1x64.pl
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/crypto/ec/ec_cvt.c
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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
while (($output=shift) && ($output!~/\w\[\w\-]*\.[\w]+$/)) {} 
open STDOUT,">$output";

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

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

sub mul_1x1_upper {
my ($A,$B)=@_; 
$code.=<<<___;
EXTU	$B,8,24,$B_2		; smash $B to 4 bytes
||	AND	$B,$xFF,$B_0
||	SHRU	$B,24,$B_3
SHRU	$A,16,   $Ahi		; smash $A to two halfwords
||	EXTU	$A,16,16,$Alo
XORMPY$Alo,$B_2,$Alox2
XORMPY$Ahi,$B_2,$Ahix2
||	EXTU	$B,16,24,$B_1
XORMPY$Alo,$B_0,$A1		; $Alox0
XORMPY$Ahi,$B_0,$Ahix0
XORMPY$Alo,$B_3,$Alox3
XORMPY$Ahi,$B_3,$Ahix3
XORMPY$Alo,$B_1,$Alox1
XORMPY$Ahi,$B_1,$Ahix1
___
}

sub mul_1x1_merged {
my ($OUTlo,$OUTH$i,$A,$B)=@_; 
$code.=<<<___;
EXTU$B,8,24,$B_2; smash $B to 4 bytes
|| AND$B,$xFF,$B_0
|| SHRU$B,24,$B_3
SHRUSA,16, $Ahi; smash $A to two halfwords
|| EXTUSA,16,16,$Alo
XOR$Ahix0,$Alox2,$Ahix0
||MV$Ahix2,$OUTH$i
|| XORMPY$Alo,$B_2,$Alox2
XORMPY$Ahi,$B_2,$Ahix2
|| EXTUSA,16,24,$B_1
|| XORMPY$Alo,$B_0,$A1; $Alox0

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XORSAhix1,$Alo,$Ahix1
||SHLSAhix0,16,$OUTlo
||SHRUSAhix0,16,$Ahix0
XORSAlox0,$OUTlo,$OUTlo
||XORSAhix0,$OUThi,$OUThi
||XORMPYSAhix,$B_0,$Ahix0
||XORMPYSAl,$B_3,$Alox3
||SHLSAlox1,8,$Alox1
||SHLSAhix3,8,$Ahix3
XORSAlox1,$OUTlo,$OUTlo
||XORSAhix3,$OUThi,$OUThi
||XORMPYSAhix,$B_3,$Ahix3
||SHLSAhix1,24,$Alo
||SHRUSAhix1,8,$Ahix1
XORSAlox1,$OUTlo,$OUTlo
||XORSAhix1,$OUThi,$OUThi
||XORMPYSAl,$B_1,$Alox1
||XORMPYSAhix,$B_1,$Ahix1
||MVSAl,$Alox0

sub mul_1x1_lower {
  my ($OUTlo,$OUThi)=@_; $code.=<<<___;
  ;NOP
  XORSAhx0,$Alox2,$Ahix0
  ;NOP
  XORSAhx1,$Alox3,$Ahix1
  ||SHL,$Ahix0,16,$OUTlo
  ||SHRU,$Ahix0,16,$Ahix0
  XORSAlox0,$OUTlo,$OUTlo
  ||XORMPYSAhix,$B_0,$Ahix0
  ||XORMPYSAl,$B_3,$Alox3
  ||SHLSAlox1,8,$Alox1
  ||SHLSAhix3,8,$Ahix3
  XORSAlox1,$OUTlo,$OUTlo
  ||XORSAhix3,$OUThi,$OUThi
  ||SHLSAhix1,24,$Alox1
  ||SHRUSAhix1,8,$Ahix1
  XORSAlox1,$OUTlo,$OUTlo
  ||XORSAhix1,$OUThi,$OUThi
  __
  __
  __
  __
  __
  }

$text
.global_bn_GF2m_mul_2x2
__bn_GF2m_mul_2x2:
.asmfunc
MVK0xFF,$xFF
___
&mul_1x1_upper($a0,$b0);# a0b0
$code.<<<___;
||MV$b1,$B
MVS$a1,$A
___
&mul_1x1_merged("A28","B28",$A,$B);# a0b0/a1b1
$code.<<<___;
||XOR$b0,$b1,$B
XORS$a0,$a1,$A
___
&mul_1x1_merged("A31","B31",$A,$B);# a1b1/(a0+a1)(b0+b1)
$code.<<<___;
XORA28,A31,A29
||XORB28,B31,B29; a0b0+a1b1
___
&mul_1x1_lower("A30","B30");# (a0+a1)(b0+b1)
$code.<<<___;
||BNOPB3
XORA29,A30,A30
||XORB29,B30,B30; (a0+a1)(b0+b1)-a0b0-a1b1
XORB28,A30,A30
||STWA28,*${rp}[0]
XORB30,A31,A31
||STWA30,*${rp}[1]
STWA31,*${rp}[2]
STWB31,*${rp}[3]
.endasmfunc
___

print $code;
close STDOUTC;

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/xts128.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/fips/ecdsa/fips_ecdsa_sign.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips_dsa_sign.c

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
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#!/usr/bin/env perl
#
#
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
#
#  SHA1 for C64x.
#
# November 2016
#
# This is fully-unrolled SHA1 implementation. It's 25% faster than
# one with compact loops, doesn't use in-memory ring buffer, as
# everything is accommodated in registers, and has "perfect" interrupt
# agility. Drawback is obviously the code size...

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

($CTX,$INP,$NUM) = ("A4","B4","A6");# arguments
($A,$B,$C,$D,$E,$ARot,$SF0,$SK) = map("A$_",(16..20, 21..24));
@V = ($A,$B,$C,$D,$E);
@X = map("B$_",(16..31));
($Actx,$Bctx,$Cctx,$Dctx,$Ectx) = map("A$_",(3,6..9));  # zaps $NUM

sub BODY_00_19 {
  my ($i,$a,$b,$c,$d,$e) = @_;  
  my $j = ($i+1)&15;

  $code.=<<__ if ($i<14);
  ROTLSa,5,$ARot;; Si
  ||ANDSc,$b,$SF
  ||ANDNSd,$b,$SF0
  ||ADDSK,$e,$e; E+=K
  ||LDNW*$[INP]++,@X[$i+2]
  OR$F0,5,5; F_00_19(B,C,D)
  ||ROTLs,30,$b
  ||SWAP2@X[$i+1],@X[$i+1]
  ||ADD@X[$i],$,,$e; E+=X[i]
  ADDSArot,$e,$e; E+=rot(A,5)
  ||SWAP4@X[$i+1],@X[$i+1]
  ADDSF,$e,$e; E+=F_00_19(B,C,D)
  __
  $code.=<<__ if ($i==14);
  ROTLSa,5,$ARot;; Si
  ||ANDSc,$b,$SF
  ||ANDNSd,$b,$SF0
  ||ADDSK,$e,$e; E+=K
  ||LDNW*$[INP]++,@X[$i+2]
  OR$F0,5,5; F_00_19(B,C,D)
  ||ROTLs,30,$b
  ||ADD@X[$i],$,,$e; E+=X[i]
  ||SWAP2@X[$i+1],@X[$i+1]
  ADDSArot,$e,$e; E+=rot(A,5)
  ||SWAP4@X[$i+1],@X[$i+1]
  ADDSF,$e,$e; E+=F_00_19(B,C,D)
  __
  $code.=<<__ if ($i==15);
  ||XOR@X[($j+2)&15],@X[$j],@X[$j]
  ROTLSa,5,$ARot;; Si
  ||ANDSc,$b,$SF
  ||ANDNSd,$b,$SF0
  ||ADDSK,$e,$e; E+=K
  ||XOR@X[($j+8)&15],@X[$j],@X[$j]
  OR$F0,5,5; F_00_19(B,C,D)
  ||ROTLs,30,$b
  ||ADD@X[$i],$,,$e; E+=X[i]
  ||XOR@X[($j+13)&15],@X[$j],@X[$j]
  ADDSArot,$e,$e; E+=rot(A,5)
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HIGH END 2.9.1.157 7754

|| ROTL@X[$j].1,@X[$j]||
ADDSF,S,Se; E+=F_00_19(B,C,D)
____
$code.=<<___if (Si>15);
|| XOR@X[(Sj+2)&15],@X[$j],@X[$j]||
ROTLsa.5,SARot; Si
|| ANDScb.$b,$b
|| ANDN$bd.$b,$F0
|| ADDSK,$b,$Se; E+=K||
|| XOR@X[(Sj+8)&15],@X[$j],@X[$j]||
ORSF0.$F,$F; F_00_19(B,C,D)
|| ROTL$b.30,$b
|| ADD@X[Si&15],Se,Se; E+=X[i]
|| XOR@X[(Sj+13)&15],@X[$j],@X[$j]||
ADDSArot,Se,Se; E+=rot(A,5)
|| ROTL@X[$j].1, @X[$j]||
ADDSF,Se,Se; E+=F_00_19(B,C,D)
____
}

sub BODY_20_39 {
my ($i,$a,$b,$c,$d,$e) = @_; 
my $j = ($i+1)&15;

$code.=<<___if ($i<79);
|| XOR@X[(Sj+2)&15],@X[$j],@X[$j]||
ROTLsa.5,SARot; Si
|| XORScb.$b,$b
|| ADDSK,$b,$Se; E+=K||
|| XOR@X[(Sj+8)&15],@X[$j],@X[$j]||
XORSd.$F,$F; F_20_39(B,C,D)
|| ROTL$b.30,$b
|| ADD@X[Si&15],Se,Se; E+=X[i]
|| XOR@X[(Sj+13)&15],@X[$j],@X[$j]||
ADDSArot,Se,Se; E+=rot(A,5)
|| ROTL@X[$j].1, @X[$j]||
ADDSF,Se,Se; E+=F_20_39(B,C,D)
____
$code.=<<___if ($i==79);
|| [A0]Bloop?
|| [A0]LDNW*${INP}++,@X[0]; pre-fetch input
ROTLsa.5,SARot; Si
|| XORScb.$b,$b
|| ADDSK,$b,$Se; E+=K||
|| [A0]LDNW*${INP}++,@X[1]
XORSd.$F,$F; F_20_39(B,C,D)
|| ROTL$b.30,$b
|| ADD@X[Si&15],Se,Se; E+=X[i]
ADD$Arot,$e,$e; E+=rot(A,5)
ADD$F,$e,$e; E+=F_20_39(B,C,D)
||ADD$Ctx,$a,$a; accumulate context
||ADD$Ctx,$b,$b
ADD$Dctx,$c,$c
||ADD$Ectx,$d,$d
||ADD$Actx,$e,$e
;:===== branch to loop? is taken here

```
sub BODY_40_59 {
  my ($i,$a,$b,$c,$d,$e) = @_;  
  my $j = ($i+1)&15;

  $code.=<<___;
  || XOR[@X[(j+2)&15],@X[j],@X[j]]  
  ROTL$a,5,$Arot; ; Si  
  ||AND$e,$b,$F  
  ||AND$d,$b,$F0  
  ||ADD$K,$e,$e; E+=K  
  || XOR[@X[(j+8)&15],@X[j],@X[j]]  
  XOR$F0,$F,$F  
  ||AND$e,$d,$F0  
  ||ROTL$b,30,$b  
  || XOR[@X[(j+13)&15],@X[j],@X[j]]  
  ||ADD[@X[i&15],Se,Se; E+=X[i]  
  XOR$F0,$F,$F; F_40_59(B,C,D)  
  ||ADD$Arot,$e,$e; E+=rot(A,5)  
  || ROTL[@X[j],1,@X[j]]  
  ADD$F,$e,$e; E+=F_20_39(B,C,D)
  ___
}
```

$code=<<___:
.text

.if ASSEMBLER_VERSION<700000
.asg0,__TI_EABI__
.endif
.if __TI_EABI__
.asgsha1_block_data_order__sha1_block_data_order
.endif

.asgB3,RA
.asgA15,FP
.asgB15,SP
.if BIG_ENDIAN
.asg MV, SWAP2
.asg MV, 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*${CTX}[1],SB
[A0]LDW*${CTX}[2],SC
[A0]LDW*${CTX}[3],SD
[A0]LDW*${CTX}[4],SE
[A0]LDNW*{INP}++,@X[0]; pre-fetch input
[A0]LDNW*{INP}++,@X[1]
NOP3

loop?:
SUBA0,1,A0
||MVSA, SActx
||MVD$B, SBctx
||SWAP2@X[0],@X[0]
||MVKL0x5a827999,$K
MVKH0x5a827999,$K; K_00_19
||MVSC, SCctx
||MVSD, SDctx
||MVD$E, SEctx
||SWAP4@X[0],@X[0]
___
for ($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V, pop(@V)); } $code.=<<___;
|
MVKL0x6ed9eba1,$K
MVKH0x6ed9eba1,$K; K_20_39
___
for ($i<40;$i++) { &BODY_20_39($i,@V); unshift(@V, pop(@V)); } $code.=<<___;
|
MVKL0x8f1bbcdc,$K
MVKH0x8f1bbcdc,$K; K_40_59
___
for ($i<60;$i++) { &BODY_40_59($i,@V); unshift(@V, pop(@V)); } $code.=<<___;
|
MVKL0xca62c1d6,$K
MVKH0xca62c1d6,$K; K_60_79
___
for ($i<80;$i++) { &BODY_20_39($i,@V); unshift(@V, pop(@V)); } $code.=<<___;
BNOPRA; return
STWSA,*${CTX}[0]; emit A-E...
STWSB,*${CTX}[1]
STWS$C,*${CTX}[2]
STWS$D,*${CTX}[3]
STWS$E,*${CTX}[4]
.endasmfunc

.sect const
.cstring "SHA1 block transform for C64x, CRYPTOGAMS by <appro\@openssl.org>"
.align 4

print $code;
close STDOUT;

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dsa/fips_dsa_lib.c
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/ecdsa/fips_ecdsa_lib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/dh/fips_dh_lib.c

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rsa/rsa_x931.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/rsa/fips_rsastrt.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_pss.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/fips/bn/bn_x931p.c
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*/

#define FIPS_AUTH_KEY "etaonrishdlcupfm"
#define FIPS_AUTH_CRYPTO_OFFICER "7f92562d409c903322c0f94a1188ae8178339a4f"
#define FIPS_AUTH_CRYPTO_USER "cb6cbdaad26cd210a8b31a5d56a876ee1d51a96c"

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/fips/sha/sha1_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/fips/rand/rand_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/fips/aes/aes_selftest.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2.0.16/fips/des/des_selftest.c
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# ====================================================================

# This module implements support for AES instructions as per PowerISA
# specification version 2.07, first implemented by POWER8 processor.
# The module is endian-agnostic in sense that it supports both big-
# and little-endian cases. Data alignment in parallelizable modes is
# handled with VSX loads and stores, which implies MSR.VSX flag being
# set. It should also be noted that ISA specification doesn't prohibit
# alignment exceptions for these instructions on page boundaries.
# Initially alignment was handled in pure AltiVec/VMX way [when data
# is aligned programmatically, which in turn guarantees exception-
# free execution], but it turned to hamper performance when vcipher
# instructions are interleaved. It's reckoned that eventual
# misalignment penalties at page boundaries are in average lower
# than additional overhead in pure AltiVec approach.
#
# May 2016
#
# Add XTS subroutine, 9x on little- and 12x improvement on big-endian
# systems were measured.
#
# Current large-block performance in cycles per byte processed with
# 128-bit key (less is better).
#
#CBC en-/decrypt
# 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";
    $PUSH="std";
    $UCMP="empld";
    $SHL="stdi";
} elsif ($flavour =~ /32/) {
    $SIZE_T=4;
    $LRSAVE=$SIZE_T;
    $STU="stwu";
    $PUSH="stw";
    $UCMP="emplw";
    $SHL="slwi";
} else { die "nonsense $flavour"; }

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

$xlate="perlasm/ppc-xlate.pl" and -f $xlate ) or
           ( $xlate="../../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";
$vsave="r12";

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

$code.=<<___;
    .machine "any"
    .text
    .align 7
rcon:
   .long 0x10000000, 0x01000000, 0x01000000, 0x01000000
   .rev
   .long 0x1b000000, 0x1b000000, 0x1b000000
   .rev
   .long 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c
   .rev
   .long 0, 0, 0, 0

Lconsts:
   mflr r0
   bcl 20, 31, $+4
   mflr $ptr #vvvvv "distance between . and rcon
   addi $ptr, $ptr, -0x48
   mtlr r0
   br
   .long 0
   .byte 0, 12, 0x14, 0, 0, 0, 0, 0
   .asciz "AES for PowerISA 2.07, CRYPTOGRAMS by <appro\@openssl.org>"

.globl .${prefix}_set_encrypt_key
.align 5
.affiliate
.globl .${prefix}_set_encrypt_key:
Lset_encrypt_key:
mflr11
SPUSHr11, SLRSAVE($sp)

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

lis r0, 0xfff0
mfspr $vrsave, 256
mtspr 256, r0

bl Lconsts
mtlr11

negr9, $inp
lvx $in0, 0, $inp
addi $inp, $inp, 15 # 15 is not typo
lvsr $key, 0, r9 # borrow $key
li r8, 0x20
cmpwi$bits,192
lvx$in1,0,$inp
le?vspltsb$mask,0x0f# borrow $mask
lvx$rcon,0,$ptr
le?vxor$key,$key,$mask# adjust for byte swap
lvx$mask,r8,$ptr
addi$ptr,$ptr,0x10
vperm$in0,$in0,$in1,$key# align [and byte swap in LE]
li$cnt,8
vxor$zero,$zero,$zero
mtctr$cnt

?vlsr$outperm,0,$out
vspltsb$outmask,-1
lvx$outhead,0,$out
?vperm$outmask,$zero,$outmask,$outperm

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

.align4
Loop128:
vperm$key,$in0,$in0,$mask# rotate-n-splat
vsldoi$tmp,$zero,$in0,12# >>32
vperm$outtail,$in0,$in0,$outperm# rotate
vsel$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
vcipherlast$key,$key,$rcon
stvx$stage,0,$out
addi$out,$out,16
vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vadduw$m$rcon,$rcon,$rcon
vxor$in0,$in0,$key
bdnzLoop128

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

vperm$key,$in0,$in0,$mask# rotate-n-splat
vsldoi$tmp,$zero,$in0,12# >>32
vperm$outtail,$in0,$in0,$outperm# rotate
vsel$stage,$outhead,$outtail,$outmask
vmr$outhead,$outtail
vcipherlast$key,$key,$rcon
stvx$stage,0,$out
addi$out,$out,16
vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vsldoi$tmp,$zero,$tmp,12# >>32
vxor$in0,$in0,$tmp
vadduw$m$con,$rcon,$rcon
vxor$in0,$in0,$key
vperm$key,$in0,$in0,$mask# rotate-n-splat
vsldoi$tmp,$zero,$in0,12# >>32
vperm$in0,$in0,$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$in0,$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$rounds,10
b$Ldone
.align4
.L192:
lvx$tmp,0,$inp
li$cnt,4
vperm$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]
vspltisb $key, 8
# borrow $key
mtctr $cnt
vsubah $mask, $mask, $key
# adjust the mask
Loop192:
vperm $key, $in1, $in1, $mask
# roate-n-splat
vsldoi $tmp, $zero, $in0, 12 # >>32
vcipherlast $key, $key, $rcon
v xor $in0, $in0, $tmp
vsldoi $tmp, $zero, $tmp, 12 # >>32
v xor $in0, $in0, $tmp
vsldoi $tmp, $zero, $tmp, 12 # >>32
v xor $in0, $in0, $tmp
vspltw $tmp, $in0, 3
v xor $tmp, $tmp, $in1
vsldoi $in1, $zero, $in1, 12 # >>32
vadduw $rcon, $rcon, $rcon
v xor $in1, $in1, $key
v xor $in1, $in1, $key
vsldoi $stage, $zero, $in1, 8
vspltw $tmp, $in0, 3
v xor $tmp, $tmp, $in1
vsldoi $in1, $zero, $in1, 12 # >>32
vperm $mask, $in1, $mask
# rotate-n-splat
vsldoi $tmp, $zero, $in0, 12 # >>32
vperm $outtail, $stage, $stage, $outperm
# rotate
v sel $stage, $outhead, $outtail, $outmask
vmr $outhead, $outtail
vcipherlast $key, $key, $rcon
stvx $stage, 0, $out
addi $out, $out, 16
vsldoi $stage, $in0, $in1, 8
v xor $in0, $in0, $tmp
vsldoi $tmp, $zero, $tmp, 12 # >>32
vperm $outtail, $stage, $stage, $outperm
# rotate
v sel $stage, $outhead, $outtail, $outmask
vmr $outhead, $outtail
vcipherlast $key, $key, $rcon
stvx $stage, 0, $out
addi $out, $out, 16
vspltw $tmp, $in0, 3
vxor $tmp, $tmp, $in1
vsldoi $in1, $zero, $in1, 12 # >>32
vadduwm $rcon, $rcon, $rcon
vxor $in1, $in1, $tmp
vxor $in0, $in0, $key
vxor $in1, $in1, $key
vperm $outtail, $in0, $in0, $outperm # rotate
vsel $stage, $outhead, $outtail, $outmask
vmr $outhead, $outtail
stvx $stage, 0, $out
addi $inp, $out, 15 # 15 is not typo
addi $out, $out, 16
bdnz Loop192

li $rounds, 12
addi $out, $out, 0x20
b L done

.align 4
L256:
lvx $tmp, 0, $inp
li $cnt, 7
li $rounds, 14
vperm $outtail, $in0, $in0, $outperm # rotate
vsel $stage, $outhead, $outtail, $outmask
vmr $outhead, $outtail
stvx $stage, 0, $out
addi $inp, $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

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vxor $in0,$in0,$key
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$outhead,$outtail,$outmask
vmr $outhead,$outtail
stvx $stage,0,$out
addi $inp,$out,15 # 15 is not typo
addi $out,$out,16
bdz Ldone

vspltw $key,$in0,3 # just splat
vsldoi $tmp,$zero,$in1,12 # >>32
vsbox $key,$key
vxor $in1,$in1,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in1,$in1,$tmp
vxor $in1,$in1,$tmp
vxor $in1,$in1,$key
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
.long0
.byte0,12,0x14,1,0,3,0
.long0
.size %{prefix}_set_encrypt_key...-{prefix}_set_encrypt_key

.globl %{prefix}_set_decrypt_key
.align5
.{prefix}_set_decrypt_key:
SSTU $sp,-$FRAME($sp)
mlr10
SPUSHr10,$FRAME+L$LRSAVE($sp)
bL set_encrypt_key
mlr10
cmpwir3,0
bne-Ldec_key_abort

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

Ldekey:
lwzr0, 0($inp)
lwzr6, 4($inp)
lwzr7, 8($inp)
lwzr8, 12($inp)
addi$inp,$inp,16
lwzr9, 0($out)
lwzr10,4($out)
lwzr11,8($out)
lwzr12,12($out)
strw0, 0($out)
strw6, 4($out)
strw7, 8($out)
strw8, 12($out)
subi$out,$out,16
strw9,-16($inp)
strw10,-12($inp)
strw11,-8($inp)
strw12,-4($inp)
bdnzLdekey

xorw3,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
___
}

#########################################################################
.globl ${prefix}_${dir}crypt
.align 5
${prefix}_${dir}crypt:
lwz $rounds, 240($key)
lisr 0, 0xfc00
mfspr $vrsave, 256
li $idx, 15 # 15 is not typo
mtspr 256, r0

lvxv 0, 0, $inp
genr 11, $out
lvxv 1, $idx, $inp
lvslv 2, 0, $inp# inpperm
le?vsplitbv 4, 0x0f
?lvslv 3, 0, r11# outperm
le?vxorv 2, v2, v4
li $idx, 16
vpermv 0, v0, v1, v2# align [and byte swap in LE]
lvxv 1, 0, $key
?lvslv 5, 0, $key# keyperm
srwi $rounds, $rounds, 1
lvxv 2, $idx, $key
addi $idx, $idx, 16
subi $rounds, $rounds, 1
?vpermv 1, v1, v2, v5# align round key
vxorv 0, v0, v1
lvxv 1, $idx, $key
addi $idx, $idx, 16
mtctr $rounds

Loop_${dir}c:
?vpermv 2, v2, v1, v5
v${n}cipherv 0, v0, v2
lvxv 2, $idx, $key
addi $idx, $idx, 16
?vpermv 1, v1, v2, v5
v${n}cipherv 0, v0, v1
lvxv 1, $idx, $key
addi $idx, $idx, 16
bdnz Loop_${dir}c

?vpermv 2, v2, v1, v5
v${n}cipherv 0, v0, v2
lvxv 2, $idx, $key
?vpermv 1, v1, v2, v5
v${n}cipherlastv 0, v0, v1
vspltisbv2,-1
vxorv1,v1,v1
li$idx,15# 15 is not typo
?vpermv2,v1,v2,v3# outmask
le?vxorv3,v3,v4
lvxv1,0,$out# outhead
vpermv0,v0,v0,v3# rotate [and byte swap in LE]
vselv1,v1,v0,v2
lvxv4,$idx,$out
stvxv1,0,$out
vselv0,v0,v4,v2
stvxv0,$idx,$out

mtspr256,$vrsave
blr
.long0
.byte0,12,0x14,0,0,3,0
.long0
.size.$[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));
$code.=<<___;
.globl.$[prefix]$_cbc_encrypt
.align5
.$[prefix]$_cbc_encrypt:
$\{UCMP\}i$len,16
bltr-
cmpwi$enc,0# test direction
lisr0,0xffe0
mfspr$vrsave,256
mtspr256,r0

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

lvx$ivvec,0,$ivp# load [unaligned] iv
lvsl$inpperm,0,$ivp

}}}
lvx$inptail,$idx,$ivp
le?vxor$inpperm,$inpperm,$tmp
vperm$ivec,$ivec,$inptail,$inpperm

eqr11,$inp
mlvsl$keyperm,0,$key# prepare for unaligned key
lwz$rounds,240($key)

evrs$inpperm,0,$inp
addi$inp,$inp,15# 15 is not typo
le?vxor$inpperm,$inpperm,$tmp

?mlvsl$keyperm,0,$key# prepare for unaligned load
evrs$inptail,0,$inp
addi$inp,$inp,15# 15 is not typo
le?vxor$inpperm,$inpperm,$tmp

?mlvsl$outperm,0,$out# prepare for unaligned store
vsplitisb$mask,-1
evrs$outhead,0,$out
?vperm$mask,$rndkey0,$mask,$outperm
le?vxor$outperm,$outperm,$tmp

srwi$rounds,$rounds,1
li$idx,16
subi$rounds,$rounds,1
beqlcbc_dec

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

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

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

?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$inout,$inout,$rndkey1
lvx$rndkey1,$idx,$key
li$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vcipherlast$ivec,$inout,$rndkey0
${UCMP}i$len,16
vperm$tmp,$ivec,$ivec,$outperm
vsel$inout,$outhead,$tmp,$outmask
vmr$outhead,$tmp
stvx$inout,0,$out
addi$out,0,16
bgeLcbc_enc

bLcbc_done

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

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

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

?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vnciphersinout,$sinout,$rndkey1
lvx$rndkey1,$idx,$key
li$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vncipherlast$sinout,$sinout,$rndkey0
${UCMP}i$len,16
vxor$sinout,$sinout,$ivec
vmr$ivec,$tmp
vperm$tmp,$sinout,$sinout,$outperm
vse$sinout,$outhead,$tmp,$outmask
vmr$outhead,$tmp
stvx$sinout,0,$out
addi$sout,$out,16
bgeLcbc_done:

Lcbc_done:
addi$sout,$out,-1
lvx$sinout,0,$out# redundant in aligned case
vse$sinout,$outhead,$sinout,$outmask
stvx$sinout,0,$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
?lvsl$outperm,0,$enc
?vperm$outmask,$rndkey0,$outmask,$outperm
le?vxor$outperm,$outperm,$tmp
lvx$outhead,0,$ivp
vperm$ivec,$ivec,$ivec,$outperm
vse$sinout,$outhead,$ivec,$outmask
lvx$inptail,$idx,$ivp
stvx$sinout,0,$ivp
vse$sinout,$ivec,$inptail,$outmask
stvx$sinout,$idx,$ivp

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

___
# Optimized CBC decrypt procedure
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
$x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7 )=map("v$_",(0..3,10..13));
my ($out0,$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.=<<<___;
.align5
_aesp8_cbc_decrypt8x:
$STU$sp,-(`$FRAME+21*16+6*SIZE_T`)($sp)
li r10,`$FRAME+8*16+15`
li r11,`$FRAME+8*16+31`
stvx v20,r10,$sp  # ABI says so
addi r10,r10,32
stvx v21,r11,$sp
addi r11,r11,32
stvx v22,r10,$sp
addi r10,r10,32
stvx v23,r11,$sp
addi r11,r11,32
stvx v24,r10,$sp
addi r10,r10,32
stvx v25,r11,$sp
addi r11,r11,32
stvx v26,r10,$sp
addi r10,r10,32
stvx v27,r11,$sp
addi r11,r11,32
stvx v28,r10,$sp
addi r10,r10,32
stvx v29,r11,$sp
addi r11,r11,32
stvx v30,r10,$sp
stvx v31,r11,$sp
lir0,-1
stw$vrsave,`$FRAME+21*16-4`($sp)# save vrsave
li$x10,0x10
$SPUSHr26,`$FRAME+21*16+0*SIZE_T`($sp)
li$x20,0x20
$SPUSHr27,`$FRAME+21*16+1*SIZE_T`($sp)
li$x30,0x30
$SPUSHr28,`$FRAME+21*16+2*SIZE_T`($sp)
li$x40,0x40
?vperm v31, v31, $out0, $keyperm
lvxv25, $x10, $key_, # pre-load round[2]

# lvx$inptail, 0, $inp# "caller" already did this
# addi$inp, $inp, 15# 15 is not typo
subi$inp, $inp, 15# undo "caller"

le?liSidx, 8
lvx_uSin0, $x00, $inp# load first 8 "words"
le?vsl$inpperm, 0, $idx
le?vspItusb$tmp, 0x0f
lvx_uSin1, $x10, $inp
le?vxor$inpperm, $inpperm, $tmp# transform for lvx_u/stvx_u
lvx_uSin2, $x20, $inp
le?vpermSin0, $in0, $in0, $inpperm
lvx_uSin3, $x30, $inp
le?vpermSin1, $in1, $in1, $inpperm
lvx_uSin4, $x40, $inp
le?vpermSin2, $in2, $in2, $inpperm
vxor$out0, $in0, $rndkey0
lvx_uSin5, $x50, $inp
le?vpermSin3, $in3, $in3, $inpperm
vxor$out1, $in1, $rndkey0
lvx_uSin6, $x60, $inp
le?vpermSin4, $in4, $in4, $inpperm
vxor$out2, $in2, $rndkey0
lvx_uSin7, $x70, $inp
addi$inp, $inp, 0x80
le?vpermSin5, $in5, $in5, $inpperm
vxor$out3, $in3, $rndkey0
le?vpermSin6, $in6, $in6, $inpperm
vxor$out4, $in4, $rndkey0
le?vpermSin7, $in7, $in7, $inpperm
vxor$out5, $in5, $rndkey0
vxor$out6, $in6, $rndkey0
vxor$out7, $in7, $rndkey0

mtctr$rounds
b_loop_cbc_decx
.align5
loop_cbc_decx:
vncipher$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
1vxv24, $x20, $key_ # round[3]
add $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
1vxv25, $x10, $key_ # round[4]
bdnz Loop_cbc_dec8x

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

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

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

add $inp, $inp, r0 # $inp is adjusted in such
# way that at exit from the
# loop inX-in7 are loaded
# with last "words"

vncipher$out0,$out0,v27
vncipher$out1,$out1,v27
vncipher$out2,$out2,v27
vncipher$out3,$out3,v27
vncipher$out4,$out4,v27
vncipher$out5,$out5,v27
vncipher$out6,$out6,v27
vncipher$out7,$out7,v27

addi$key_,$sp,$FRAME+15# rewind $key_

vncipher$out0,$out0,v28
vncipher$out1,$out1,v28
vncipher$out2,$out2,v28
vncipher$out3,$out3,v28
vncipher$out4,$out4,v28
vncipher$out5,$out5,v28
vncipher$out6,$out6,v28
vncipher$out7,$out7,v28
lvx$v24,$x00,$key_ # re-pre-load round[1]

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

vncipher$out0,$out0,v30
vxor$ivec,$ivec,v31# xor with last round key
vncipher$out1,$out1,v30
vxor$in0,$in0,v31
vncipher$out2,$out2,v30
vxor$in1,$in1,v31
vncipher$out3,$out3,v30
vxor$in2,$in2,v31
vncipher$out4,$out4,v30
vxor$in3,$in3,v31
vncipher$out5,$out5,v30
vxor$in4,$in4,v31
vncipher$out6,$out6,v30
vxor$in5,$in5,v31
vncipher$out7,$out7,v30
vxor$in6,$in6,v31
vncipherlast $out0,$out0,$ivec
vncipherlast $out1,$out1,$in0
lvx_u $in0,$x00,$inp # load next input block
vncipherlast $out2,$out2,$in1
lvx_u $in1,$x10,$inp
vncipherlast $out3,$out3,$in2
le?vperm $in0,$in0,$in0,$inpperm
lvx_u $in2,$x20,$inp
vncipherlast $out4,$out4,$in3
le?vperm $in1,$in1,$in1,$inpperm
lvx_u $in3,$x30,$inp
vncipherlast $out5,$out5,$in4
le?vperm $in2,$in2,$in2,$inpperm
lvx_u $in4,$x40,$inp
vncipherlast $out6,$out6,$in5
le?vperm $in3,$in3,$in3,$inpperm
lvx_u $in5,$x50,$inp
vncipherlast $out7,$out7,$in6
le?vperm $in4,$in4,$in4,$inpperm
lvx_u $in6,$x60,$inp
vmr $ivec,$in7
le?vperm $in5,$in5,$in5,$inpperm
lvx_u $in7,$x70,$inp
addi $inp,$inp,0x80

le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $in6,$in6,$in6,$inpperm
vxor $in0,$rndkey0
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $in7,$in7,$in7,$inpperm
vxor $in1,$rndkey0
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
vxor $in2,$rndkey0
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
vxor $out2,$in2,$rndkey0
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x40,$out
vxor $out4,$in4,$rndkey0
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x50,$out
vxor $out5,$in5,$rndkey0
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x60,$out
vxor$out6,$in6,$rndkey0
stvx_u$out7,$x70,$out
addi$out,$out,0x80
vxor$out7,$in7,$rndkey0

mtctr$rounds
beqLoop_cbc_dec8x# did $len-=128 borrow?
addi.$len,$len,128
beqLcbc_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]
bdnzLoop_cbc_dec8x_tail

vncipher$out1,$out1,v24
vncipher$out2,$out2,v24
vncipher$out3,$out3,v24
vncipher$out4,$out4,v24
vncipher$out5,$out5,v24
vncipher$out6,$out6,v24
vncipher$out7,$out7,v24
vncipher$out1,$out1,v25
vncipher$out2,$out2,v25
vncipher$out3,$out3,v25
vncipher$out4,$out4,v25
vncipher$out5,$out5,v25
vncipher$out6,$out6,v25
vncipher\$out7,\$out7,v25
vncipher\$out1,\$out1,v26
vncipher\$out2,\$out2,v26
vncipher\$out3,\$out3,v26
vncipher\$out4,\$out4,v26
vncipher\$out5,\$out5,v26
vncipher\$out6,\$out6,v26
vncipher\$out7,\$out7,v26
vncipher\$out1,\$out1,v27
vncipher\$out2,\$out2,v27
vncipher\$out3,\$out3,v27
vncipher\$out4,\$out4,v27
vncipher\$out5,\$out5,v27
vncipher\$out6,\$out6,v27
vncipher\$out7,\$out7,v27
vncipher\$out1,\$out1,v28
vncipher\$out2,\$out2,v28
vncipher\$out3,\$out3,v28
vncipher\$out4,\$out4,v28
vncipher\$out5,\$out5,v28
vncipher\$out6,\$out6,v28
vncipher\$out7,\$out7,v28
vncipher\$out1,\$out1,v29
vncipher\$out2,\$out2,v29
vncipher\$out3,\$out3,v29
vncipher\$out4,\$out4,v29
vncipher\$out5,\$out5,v29
vncipher\$out6,\$out6,v29
vncipher\$out7,\$out7,v29
vncipher\$out1,\$out1,v30
vxor$ivec,$ivec,v31 # last round key
vncipher\$out2,\$out2,v30
vxor$in1,$in1,v31
vncipher\$out3,\$out3,v30
vxor$in2,$in2,v31
vncipher\$out4,\$out4,v30
vxor$in3,$in3,v31
vncipher\$out5,\$out5,v30
vxor$in4,$in4,v31
vncipher\$out6,\$out6,v30
vxor$in5,$in5,v31
vncipher\$out7,\$out7,v30
vxor$in6,$in6,v31
cmplwi(len, 32) # switch(len)
bllc_dec8x_one
nop
beqlc_dec8x_two
cmplwi(len, 64)
bllc_dec8x_three
nop
beqlc_dec8x_four
cmplwi(len, 96)
bllc_dec8x_five
nop
beqlc_dec8x_six

Lcdec8x_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)
bLcdec8x_done

.align 5
Lcdec8x_six:
vncipherlast(out2, out2, ivec)
vncipherlast(out3, out3, in2)
vncipherlast(out4, out4, in3)
vncipherlast(out5, out5, in4)
vncipherlast(out6, out6, in5)
vncipherlast $out7, $out7, $in6
vmr $ivec, $in7

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

.align 5
Lcbc_dec8x_five:
vncipherlast $out3, $out3, $ivec
vncipherlast $out4, $out4, $in3
vncipherlast $out5, $out5, $in4
vncipherlast $out6, $out6, $in5
vncipherlast $out7, $out7, $in6
vmr $ivec, $in7

le?vperm $out3, $out3, $out3, $inpperm
le?vperm $out4, $out4, $out4, $inpperm
stvx_u $out3, 0x00, $out
le?vperm $out5, $out5, $out5, $inpperm
stvx_u $out4, 0x10, $out
le?vperm $out6, $out6, $out6, $inpperm
stvx_u $out5, 0x20, $out
le?vperm $out7, $out7, $out7, $inpperm
stvx_u $out6, 0x30, $out
stvx_u $out7, 0x40, $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

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le?vperm$\text{out}_4,$\text{out}_4,$\text{out}_4,$\text{inpperm}
le?vperm$\text{out}_5,$\text{out}_5,$\text{out}_5,$\text{inpperm}
stvx_u$\text{out}_4,$x00,$\text{out}
le?vperm$\text{out}_6,$\text{out}_6,$\text{out}_6,$\text{inpperm}
stvx_u$\text{out}_5,$x10,$\text{out}
le?vperm$\text{out}_7,$\text{out}_7,$\text{out}_7,$\text{inpperm}
stvx_u$\text{out}_5,$x20,$\text{out}
stvx_u$\text{out}_7,$x30,$\text{out}
addi$\text{out},$\text{out},0x40
bLcbc\_dec8x\_done

.align5
Lcbc\_dec8x\_three:
vncipherlast$\text{out}_5,$\text{out}_5,$\text{ivec}
vncipherlast$\text{out}_6,$\text{out}_6,$\text{in}_5$
vncipherlast$\text{out}_7,$\text{out}_7,$\text{in}_6$
vnr$\text{ivec},$\text{in}_7$

le?vperm$\text{out}_5,$\text{out}_5,$\text{out}_5,$\text{inpperm}
le?vperm$\text{out}_6,$\text{out}_6,$\text{out}_6,$\text{inpperm}
stvx_u$\text{out}_5,$x00,$\text{out}
le?vperm$\text{out}_7,$\text{out}_7,$\text{out}_7,$\text{inpperm}
stvx_u$\text{out}_6,$x10,$\text{out}
stvx_u$\text{out}_7,$x20,$\text{out}
addi$\text{out},$\text{out},0x30
bLcbc\_dec8x\_done

.align5
Lcbc\_dec8x\_two:
vncipherlast$\text{out}_6,$\text{out}_6,$\text{ivec}
vncipherlast$\text{out}_7,$\text{out}_7,$\text{in}_6$
vnr$\text{ivec},$\text{in}_7$

le?vperm$\text{out}_6,$\text{out}_6,$\text{out}_6,$\text{inpperm}
le?vperm$\text{out}_7,$\text{out}_7,$\text{out}_7,$\text{inpperm}
stvx_u$\text{out}_6,$x00,$\text{out}
stvx_u$\text{out}_7,$x10,$\text{out}$
addi$\text{out},$\text{out},0x20
bLcbc\_dec8x\_done

.align5
Lcbc\_dec8x\_one:
vncipherlast$\text{out}_7,$\text{out}_7,$\text{ivec}
vnr$\text{ivec},$\text{in}_7$

le?vperm$\text{out}_7,$\text{out}_7,$\text{out}_7,$\text{inpperm}$
stvx_u$\text{out}_7,0,$\text{out}$
addi$\text{out},$\text{out},0x10
Lcbc_dec8x_done:
le?vperm$sivec,$ivec,$ivec,$inpperm
stvx_u$sivec,0,$ivp# write [unaligned] iv

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

mtspr256,$vrsave
lvx20,r10,$sp# ABI says so
addir10,r10,32
lvx21,r11,$sp
addir11,r11,32
lvx22,r10,$sp
addir10,r10,32
lvx23,r11,$sp
addir11,r11,32
lvx24,r10,$sp
addir10,r10,32
lvx25,r11,$sp
addir11,r11,32
lvx26,r10,$sp
addir10,r10,32
lvx27,r11,$sp
addir11,r11,32
lvx28,r10,$sp
addir10,r10,32
lvx29,r11,$sp
addir11,r11,32
lvx30,r10,$sp
lvx31,r11,$sp
$POP	$r26,`$FRAME+21*16+0*$SIZE_T`($sp)
addi $sp, $sp,  
blr
.long 0
.byte 0,12,0x04,0,0x80,6,6,0
.size $prefix_cbc_encrypt, -$.prefix_cbc_encrypt

### CTR procedure[s]###

```perl
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
bltr-

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

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

neg $11, $inp
?lvsl $keyperm, 0, $key # prepare for unaligned key
lwz $rounds, 240($key)
```
lvrs$inpperm,0,r11 # prepare for unaligned load
lvx$inptail,0,$inp
addi$inp,$inp,15 # 15 is not typo
le?$xor$inpperm,$inpperm,$tmp

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

$[UCMP]i$len,8
bge_aes8_ctr32_encrypt8x

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

lvx$rndkey0,0,$key
mtctr$rounds
lvx$rndkey1,$idx,$key
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$inout,$ivec,$rndkey0
lvx$rndkey0,$idx,$key
addi$idx,$idx,16
b Loop_ctr32_enc

.align 5
Loop_ctr32_enc:
?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher$inout,$inout,$rndkey1
lvx$rndkey1,$idx,$key
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher$inout,$inout,$rndkey0
lvx$rndkey0,$idx,$key
addi$idx,$idx,16
bdnz Loop_ctr32_enc

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

?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vcipherSinout,$inout,$rndkey1
lvx$rndkey1,1,$idx,,$key
vperm$dat,$dat,$inptail,$inpperm
li$idx,16
?vpermrndkey1,$rndkey0,$rndkey1,$keyperm
lvx$rndkey0,0,,$key
vxor$dat,$dat,$rndkey1 # last round key
vcipherlastSinout,$inout,$dat
lvx$rndkey1,1,$idx,,$key
addi$idx,$idx,16
vpermSinout,$inout,$inout,$outperm
vse1$dat,$outhead,$inout,$outmask
mtctr$rounds
?vpermrndkey0,$rndkey0,$rndkey1,$keyperm
vmr$outhead,$inout
vxor$inout,$ivec,$rndkey0
lvx$rndkey0,0,$key
addi$idx,$idx,16
stvx$dat,0,$out
addi$out,$out,16
bneLoop_ctr32_enc
addi$out,$out,-1
lvx$inout,0,$out # redundant in aligned case
vse1$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)=$outhead,$outperm,$outmask;

$code.=<<<___;
.align5
_aesp8_ctr32_encrypt8x:
$STU$sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
li r10,`$FRAME+8*16+15`
li r11,`$FRAME+8*16+31`
stvx v20,r10,$sp # ABI says so
addi r10,r10,32
stvx v21,r11,$sp
addi r11,r11,32
stvx v22,r10,$sp
addi r10,r10,32
stvx v23,r11,$sp
addi r11,r11,32
stvx v24,r10,$sp
addi r10,r10,32
stvx v25,r11,$sp
addi r11,r11,32
stvx v26,r10,$sp
addi r10,r10,32
stvx v27,r11,$sp
addi r11,r11,32
stvx v28,r10,$sp
addi r10,r10,32
stvx v29,r11,$sp
addi r11,r11,32
stvx v30,r10,$sp
stvx v31,r11,$sp
li r0,-1
stw $vrsave,`$FRAME+21*16-4`($sp)# save vrsave
li $x10,0x10
$PUSH r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li $x20,0x20
$PUSH r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li $x30,0x30
$PUSH r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li $x40,0x40
$PUSH r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li $x50,0x50
$PUSH r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li $x60,0x60
$PUSH r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li $x70,0x70
mtspr 256,r0
subi $rounds,$rounds,3# -4 in total
lvx $mdkey0,$x00,$key# load key schedule
lvxv 30,$x10,$key
addi $key,$key,0x20
lvxv31,$x00,$key
?vperm$rndkey0,$rndkey0,v30,$keyperm
addi$key_,$sp,$FRAME+15
mtctr$rounds

Load_ctr32_enc_key:
?vperm24,v30,v31,$keyperm
lvxv30,$x10,$key
addi$key,$key,0x20
stvxv24,$x00,$key  # off-load round[1]
?vperm25,v31,v30,$keyperm
lvxv31,$x00,$key
stvxv25,$x10,$key  # off-load round[2]
addi$key_,$key_,0x20
bdnzLoad_ctr32_enc_key

lvxv26,$x10,$key
?vperm24,v30,v31,$keyperm
lvxv27,$x20,$key
stvxv24,$x00,$key  # off-load round[3]
?vperm25,v31,v26,$keyperm
lvxv28,$x30,$key
stvxv25,$x10,$key  # off-load round[4]
addi$key_,$sp,$FRAME+15  # rewind $key_
?vperm26,v26,v27,$keyperm
lvxv29,$x40,$key
?vperm27,v27,v28,$keyperm
lvxv30,$x50,$key
?vperm28,v28,v29,$keyperm
lvxv31,$x60,$key
?vperm29,v29,v30,$keyperm
lvx$out0,$x70,$key  # borrow $out0
?vperm30,v30,v31,$keyperm
lvxv24,$x00,$key  # pre-load round[1]
?vperm31,v31,$out0,$keyperm
lvxv25,$x10,$key  # pre-load round[2]

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

vadduwms$out1,$ivec,$one  # counter values ...
vadduwms$out2,$ivec,$two
vxors$out0,$ivec,$rndkey0  # ... xored with rndkey[0]
le?li$idx,8
vadduwms$out3,$out1,$two
vxors$out1,$out1,$rndkey0
le?vl$inpperm,0,$idx
vadduwm$out4,$out2,$two
vxor$out2,$out2,$rndkey0
le?vsplitb$tmp,0x0f
vadduwm$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
addi $len,$len,1 # $len-=128 really
vcipher $out1,$out1,v27
vcipher $out2,$out2,v27
vcipher $out3,$out3,v27
vcipher $out4,$out4,v27
vcipher $out5,$out5,v27
vcipher $out6,$out6,v27
vcipher $out7,$out7,v27
lvx $v25,$x10,$key_ # re-pre-load round[2]

vcipher $out0,$out0,v28
lvx_u $in0,$x00,$inp # load input
vcipher $out1,$out1,v28
lvx_u $in1,$x10,$inp
vcipher $out2,$out2,v28
lvx_u $in2,$x20,$inp
vcipher $out3,$out3,v28
lvx_u $in3,$x30,$inp
vcipher $out4,$out4,v28
lvx_u $in4,$x40,$inp
vcipher $out5,$out5,v28
lvx_u $in5,$x50,$inp
vcipher $out6,$out6,v28
lvx_u $in6,$x60,$inp
vcipher $out7,$out7,v28
lvx_u $in7,$x70,$inp
add $inp,$inp,0x80
vcipher $out0,$out0,v29
le?vperm $in0,$in0,$in0,$inperm
vcipher $out1,$out1,v29
le?vperm $in1,$in1,$in1,$inperm
vcipher $out2,$out2,v29
le?vperm $in2,$in2,$in2,$inperm
vcipher $out3,$out3,v29
le?vperm $in3,$in3,$in3,$inperm
vcipher $out4,$out4,v29
le?vperm $in4,$in4,$in4,$inperm
vcipher $out5,$out5,v29
le?vperm $in5,$in5,$in5,$inperm
vcipher $out6,$out6,v29
le?vperm $in6,$in6,$in6,$inperm
vcipher $out7,$out7,v29
le?vperm $in7,$in7,$in7,$inperm
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, $out1, $rndkey0
vcipherlast $in4, $out4, $in4
vadduwm $out4, $out2, $two
vxor $out2, $out2, $rndkey0
vcipherlast $in5, $out5, $in5
vadduwm $out5, $out3, $two
vxor $out3, $out3, $rndkey0
vcipherlast $in6, $out6, $in6
vadduwm $out6, $out4, $two
vxor $out4, $out4, $rndkey0
vcipherlast $in7, $out7, $in7
vadduwm $out7, $out5, $two
vxor $out5, $out5, $rndkey0
le?vperm $in0, $in0, $in0, $inperm
vadduwm $ivec, $out6, $two # next counter value
vxor $out6, $out6, $rndkey0
le?vperm $in1, $in1, $in1, $inperm
vxor $out7, $out7, $rndkey0
mtctr $rounds

vcipher $out0, $out0, v24
stvx_u $in0, $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, $inperm
vcipher $out5, $out5, v24
stvx_u $in5, $x50, $out
le?vperm $in7, $in7, $in7, $inperm
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

.align5
Lctr32_enc8x_break:
cmpwi\$len,-0x60
bLtLctr32_enc8x_one
nop
beqLctr32_enc8x_two
cmpwi\$len,-0x40
bLtLctr32_enc8x_three
nop
beqLctr32_enc8x_four
cmpwi\$len,-0x20
bLtLctr32_enc8x_five
nop
beqLctr32_enc8x_six
cmpwi\$len,0x00
bLtLctr32_enc8x_seven

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

le?vperm\$out0,$out0,$out0,$inpperm
le?vperm\$out1,$out1,$out1,$inpperm
stvx_u\$out0,$x00,$out
le?vperm\$out2,$out2,$out2,$inpperm
stvx_u\$out1,$x10,$out
le?vperm\$out3,$out3,$out3,$inpperm
stvx_u\$out2,$x20,$out
le?vperm\$out4,$out4,$out4,$inpperm
stvx_u\$out3,$x30,$out
le?vperm\$out5,$out5,$out5,$inpperm
stvx_u\$out4,$x40,$out
le?vperm\$out6,$out6,$out6,$inpperm
stvx_u\$out5,$x50,$out
le?vperm\$out7,$out7,$out7,$inpperm
stvx_u\$out6,$x60,$out

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stvx_u$out7,$x70,$out
addi$out,0x80
bLctr32_enc8x_done

.align5
Lctr32_enc8x_seven:
vcipherlast$out0,$out0,$in1
vcipherlast$out1,$out1,$in2
vcipherlast$out2,$out2,$in3
vcipherlast$out3,$out3,$in4
vcipherlast$out4,$out4,$in5
vcipherlast$out5,$out5,$in6
vcipherlast$out6,$out6,$in7
le?vperm$out0,$out0,$out0,$inperm
le?vperm$out1,$out1,$out1,$inperm
stvx_u$out0,$x00,$out
le?vperm$out2,$out2,$out2,$inperm
stvx_u$out1,$x10,$out
le?vperm$out3,$out3,$out3,$inperm
stvx_u$out2,$x20,$out
le?vperm$out4,$out4,$out4,$inperm
stvx_u$out3,$x30,$out
le?vperm$out5,$out5,$out5,$inperm
stvx_u$out4,$x40,$out
le?vperm$out6,$out6,$out6,$inperm
stvx_u$out5,$x50,$out
stvx_u$out6,$x60,$out
addi$out,0x70
bLctr32_enc8x_done

.align5
Lctr32_enc8x_six:
vcipherlast$out0,$out0,$in2
vcipherlast$out1,$out1,$in3
vcipherlast$out2,$out2,$in4
vcipherlast$out3,$out3,$in5
vcipherlast$out4,$out4,$in6
vcipherlast$out5,$out5,$in7
le?vperm$out0,$out0,$out0,$inperm
le?vperm$out1,$out1,$out1,$inperm
stvx_u$out0,$x00,$out
le?vperm$out2,$out2,$out2,$inperm
stvx_u$out1,$x10,$out
le?vperm$out3,$out3,$out3,$inperm
stvx_u$out2,$x20,$out
le?vperm$out4,$out4,$out4,$inperm
stvx_u$sout3,$x30,$out
le?vperm$sout5,$out5,$out5,$inpperm
stvx_u$sout4,$x40,$out
stvx_u$sout5,$x50,$out
addi$sout,$out,0x60
b Lctr32_enc8x_done

.align 5
Lctr32_enc8x_five:
vcipherlast$sout0,$out0,$in3
vcipherlast$sout1,$out1,$in4
vcipherlast$sout2,$out2,$in5
vcipherlast$sout3,$out3,$in6
vcipherlast$sout4,$out4,$in7
le?vperm$sout0,$out0,$out0,$inpperm
le?vperm$sout1,$out1,$out1,$inpperm
stvx_u$sout0,$x00,$out
le?vperm$sout2,$out2,$out2,$inpperm
stvx_u$sout1,$x10,$out
le?vperm$sout3,$out3,$out3,$inpperm
stvx_u$sout2,$x20,$out
le?vperm$sout4,$out4,$out4,$inpperm
stvx_u$sout3,$x30,$out
stvx_u$sout4,$x40,$out
addi$sout,$out,0x50
b Lctr32_enc8x_done

.align 5
Lctr32_enc8x_four:
vcipherlast$sout0,$out0,$in4
vcipherlast$sout1,$out1,$in5
vcipherlast$sout2,$out2,$in6
vcipherlast$sout3,$out3,$in7

le?vperm$sout0,$out0,$out0,$inpperm
le?vperm$sout1,$out1,$out1,$inpperm
stvx_u$sout0,$x00,$out
le?vperm$sout2,$out2,$out2,$inpperm
stvx_u$sout1,$x10,$out
le?vperm$sout3,$out3,$out3,$inpperm
stvx_u$sout2,$x20,$out
stvx_u$sout3,$x30,$out
addi$sout,$out,0x40
b Lctr32_enc8x_done

.align 5
Lctr32_enc8x_three:
vcipherlast $out0,$out0,$in5  
vcipherlast $out1,$out1,$in6  
vcipherlast $out2,$out2,$in7  
le?vperm $out0,$out0,$out0,$inpperm  
le?vperm $out1,$out1,$out1,$inpperm  
stvx_u $out0,$x00,$out  
stvx_u $out1,$x10,$out  
stvx_u $out2,$x20,$out  
addi $out,$out,0x30  
blcbe_dech8x_done  
.align 5  
Lctr32_enc8x_two:  
vcipherlast $out0,$out0,$in6  
vcipherlast $out1,$out1,$in7  
le?vperm $out0,$out0,$out0,$inpperm  
le?vperm $out1,$out1,$out1,$inpperm  
stvx_u $out0,$x00,$out  
stvx_u $out1,$x10,$out  
addi $out,$out,0x20  
blcbe_dech8x_done  
.align 5  
Lctr32_enc8x_one:  
vcipherlast $out0,$out0,$in7  
le?vperm $out0,$out0,$out0,$inpperm  
stvx_u $out0,$out0,$out  
addi $out,$out,0x10  
Lctr32_enc8x_done:  
li r10,`$FRAME+15`  
li r11,`$FRAME+31`  
stvx $inpperm,r10,$sp # wipe copies of round keys  
addi r10,r10,32  
stvx $inpperm,r11,$sp  
addi r11,r11,32  
stvx $inpperm,r10,$sp  
addi r10,r10,32  
stvx $inpperm,r11,$sp  
addi r11,r11,32  
stvx $inpperm,r10,$sp  
addi r10,r10,32  
stvx $inpperm,r11,$sp  
addi r11,r11,32  
stvx $inpperm,r10,$sp  
addi r10,r10,32  
stvx $inpperm,r11,$sp
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

$POP26,'$FRAME+21*16+0*$SIZE_T'($sp)
$POP27,'$FRAME+21*16+1*$SIZE_T'($sp)
$POP28,'$FRAME+21*16+2*$SIZE_T'($sp)
$POP29,'$FRAME+21*16+3*$SIZE_T'($sp)
$POP30,'$FRAME+21*16+4*$SIZE_T'($sp)
$POP31,'$FRAME+21*16+5*$SIZE_T'($sp)
addi$sp,$sp,'$FRAME+21*16+6*$SIZE_T'
blr

.long 0
.byte 0,12,0x04,0,0x80,6,6,0
.long 0
.size $.{prefix}_ctr32_encrypt_blocks,.-$.{prefix}_ctr32_encrypt_blocks

#########################################################################
{{{
# XTS procedures
my ($inp,$out,$len,$key1,$key2,$ivp,$rounds,$idx) =
map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout) =map("v$_",(0..2));
my ($output,$inptail,$inpperm,$leperm,$keyperm) =map("v$_",(3..7));
}}}}}

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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
 lir3,-1
$[UCMP]i$i$len,16
 bltr-

lisr0,0xffff
 mfspr12,256# save vrsave
 lir11,0
 mtspr256,r0

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

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

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

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

 lvx$srndkey0,0,$key2
 lvx$srndkey1,$idx,$key2
 addi$idx,$idx,16
 ?vperm$srndkey0,$srndkey0,$srndkey1,$keyperm
 vxor$tweak,$tweak,$srndkey0

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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

?vlsf$keyperm,0,$key1 # prepare for unaligned key
lwz$rounds,240($key1)
srw$i$rounds,$rounds,1
subi$rounds,$rounds,1
li$idx,16

vslb$eighty7,$seven,$seven # 0x808080..80
vor$eighty7,$eighty7,$seven # 0x878787..87
vsplitb$Stmp,1 # 0x0100101..01
vsldoi$eighty7,$eighty7,$Stmp,15 # 0x870101..01

$[UCMP]i$len,96
bge_aesp8_xts_encrypt6x

andi.Staillen,$len,15
subicr0,$len,32
subi$staillen,$staillen,16
subfer0,r0,r0
andr0,r0,$staillen
add$inp,$inp,r0

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

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

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

subic. $len, $len, 16
beq Lxts_enc_done

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

subicr 0, $len, 32
subfe 0, $r0, $r0
andr0,r0,$taillen
addSi$p,si$p,r0

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

mtctr$rounds
${UCMP}i$len,16
bge$Loop_xts_enc
vxor$output,$output,$tweak
lvsr$inpperm,0,$len	# $inpperm is no longer needed
vxor$inptail,$inptail,$inptail	# $inptail is no longer needed
vspltisb$tmp,-1
vperm$inptail,$inptail,$tmp,$inpperm
vsel$inout,$inout,$output,$inptail

subi11,$out,17
subi$out,$out,16
mtctr$len
li$len,16
Loop_xts_enc_steal:
lbzur0,1(r11)
stbr0,16(r11)
bdnz$Loop_xts_enc_steal

mtctr$rounds
b$Loop_xts_enc# one more time...

L_xts_enc_done:
mtspr256,r12# restore vrsave
li$ir3.0
blr
.long0
.byte0,12,0x04,0,0x80,6,6,0
.long0
.size.$(prefix)_xts_encrypt,....$(prefix)_xts_encrypt
ltweak_xts_dec:
?vperm $rndkey1, $rndkey1, $rndkey0, $keyperm
vcipher $tweak, $tweak, $rndkey1
lvx $rndkey1, $idx, $key2
addi $idx, $idx, 16
?vperm $rndkey0, $rndkey0, $rndkey1, $keyperm
vcipher $tweak, $tweak, $rndkey0
lvx $rndkey0, $idx, $key2
addi $idx, $idx, 16
bdnz ltweak_xts_dec
?vperm $rndkey1, $rndkey1, $rndkey0, $keyperm
vcipher $tweak, $tweak, $rndkey1
lvx $rndkey1, $idx, $key2
ii $idx, 16
?vperm $rndkey0, $rndkey0, $rndkey1, $keyperm
vcipher $tweak, $tweak, $rndkey0
lvx $rndkey0, $id, $key1
li $idx, 16
vslb $eighty7, $seven, $seven
vor $eighty7, $eighty7, $seven
vspltisb $tmp, 1
vsldoi $eighty7, $eighty7, $tmp, 15
${UCMP}i $len, 96
bge_aesp8_xts_decrypt6x
lvx $rndkey0, 0, $key1
lvx $rndkey1, $idx, $key1
addi $idx, $idx, 16
vperm $inout, $inout, $inptail, $inpperm
?vperm $rndkey0, $rndkey0, $rndkey1, $keyperm
vxor $inout, $inout, $tweak
vxor $inout, $inout, $rndkey0
lvx $rndkey0, $idx, $key1
addi $idx, $idx, 16
mtctr $rounds

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

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

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

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

subic. $len, $len, 16
beq Lxts_dec_done

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

vsrab $tmp, $tweak, $seven # next tweak value
vaddubm $tweak, $tweak, $tweak
vsldoi $tmp, $tmp, $tmp, 15
vand $tmp, $tmp, $eighty7
vxor $tweak, $tweak, $tmp
vperm$inout,$inout,$inptail,$inpperm
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$inout,$inout,$tweak
vxor$inout,$inout,$rndkey0
lv$rndkey0,$idx,$key1
addi$idx,$idx,16

mtctr$rounds
${[UCMP]}i$len,16
bgeLoop_xts_dec

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

subi$inp,$inp,16
addi$inp,$inp,$len

vxor$inout,$inout,$tweak# :-(
vxor$inout,$inout,$tweak1# : -)

Loop_xts_dec_short:
?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher$inout,$inout,$rndkey1
lv$rndkey1,$idx,$key1
addi$idx,$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher$inout,$inout,$rndkey0
lv$rndkey0,$idx,$key1
addi$idx,$idx,16
bdnzLoop_xts_dec_short

?vperm$rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher$inout,$inout,$rndkey1
lv$rndkey1,$idx,$key1
li$idx,16
?vperm$rndkey0,$rndkey0,$rndkey1,$keyperm
vxor$rndkey0,$rndkey0,$tweak1
vncipherlast$output,$inout,$rndkey0

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

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vmr	$inout,$inptail
1vx	$inptail,0,$inp
#addi	$inp,$inp,16
1vx	$rndkey0,0,$key1
1vx	$rndkey1,$idx,$key1
addi	$idx,$idx,16
vperm	$inout,$inout,$inptail,$inpperm
?vperm	$rndkey0,$rndkey0,$rndkey1,$keyperm
lvx	$rndkey0,$idx,$key1
addi	$idx,$idx,16
vperm	$inptail,$inptail,$inp,$inpperm
vperm	$inptail,$inptail,$key1,$inp
vperm	$inptail,$inptail,$keyperm
lvx	$rndkey0,$idx,$key1
addi	$idx,$idx,16
vxor	$rndkey0,$rndkey0,$tweak
vxor	$inout,$inout,$rndkey0
lvx	$rndkey0,$idx,$key1
addi	$idx,$idx,16
subi	$r11,$out,1
mtctr	$len
li	$len,16
Loop_xts_dec_steal:
  lbzu	$r0,1(r11)
  stb	$r0,16(r11)
  bdnz Loop_xts_dec_steal

mtctr	$rounds
b Loop_xts_dec # one more time...

Lxts_dec_done:
mtspr256,r12 # restore vrsave
li3,0
blr
.long 0
.byte 12,0x04,0x80,6,6,0
.long 0
.size ${prefix}_xts_decrypt,-.${prefix}_xts_decrypt

#########################################################################
{{	# Optimized XTS procedures					#
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$\_",(0,8,26..31));
  $x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5 )=map("v$\_",(0..5));
my ($out0, $out1, $out2, $out3, $out4, $out5)=map("v$\_",(7,12..16));
my ($twk0, $twk1, $twk2, $twk3, $twk4, $twk5)=map("v$\_",(17..22));

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my $rndkey0="v23";
# v24-v25 rotating buffer for first found keys
# v26-v31 last 6 round keys
my ($keyperm)=($out0);
# aliases with "caller", redundant assignment
my $taillen=$x70;

$code.=<<<___;
.align5
_aesp8_xts_encrypt6x:
  _STU		$sp,-`($FRAME+21*16+6*$SIZE_T)`($sp)
  mflr0
  li7, SFRAME+8*16+15
  li8, SFRAME+8*16+31
  $PUSHr0, SFRAME+21*16+6*$SIZE_T+$LRSAVE`($sp)
  stvx20,r7,$sp  # ABI says so
  addi7,r7,32
  stvx21,r8,$sp
  addi8,r8,32
  stvx22,r7,$sp
  addi7,r7,32
  stvx23,r8,$sp
  addi8,r8,32
  stvx24,r7,$sp
  addi7,r7,32
  stvx25,r8,$sp
  addi8,r8,32
  stvx26,r7,$sp
  addi7,r7,32
  stvx27,r8,$sp
  addi8,r8,32
  stvx28,r7,$sp
  addi7,r7,32
  stvx29,r8,$sp
  addi8,r8,32
  stvx30,r7,$sp
  stvx31,r8,$sp
  mr7,r0
  li0,-1
  stw$vrsave,"$FRAME+21*16-4`($sp)# save vrsave
  li$x10,0x10
  $PUSHr26,"$FRAME+21*16+0*$SIZE_T`($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 $x60,0x60
SPUSHr31,`$FRAME+21*16+5*SIZE_T`($sp)
li $x70,0x70
mtspr256,r0
subi $rounds,$rounds,3 # -4 in total

l$vxdndkey0,$x00,$key1 # load key schedule
l$vxx30,$x10,$key1
addi $key1,$key1,0x20
l$vxx31,$x00,$key1
?vperm$vxdndkey0,$rndkey0,v30,$keyperm
addi $key_,$sp,$FRAME+15
mtctr$rounds

Load_xts_enc_key:
?vperm$vxx24,v30,v31,$keyperm
l$vxx30,$x10,$key1
addi $key1,$key1,0x20
stvx$vxx24,$x00,$key_ # off-load round[1]
?vperm$vxx25,v31,v30,$keyperm
l$vxx31,$x00,$key1
stvx$vxx25,$x10,$key_ # off-load round[2]
addi $key_,$key_0x20
bdnz Load_xts_enc_key

l$vxx26,$x10,$key1
?vperm$vxx24,v30,v31,$keyperm
l$vxx27,$x20,$key1
stvx$vxx24,$x00,$key_ # off-load round[3]
?vperm$vxx25,v31,v26,$keyperm
l$vxx28,$x30,$key1
stvx$vxx25,$x10,$key_ # off-load round[4]
addi $key_,$sp,$FRAME+15 # rewind $key_
?vperm$vxx26,v26,v27,$keyperm
l$vxx29,$x40,$key1
?vperm$vxx27,v27,v28,$keyperm
l$vxx30,$x50,$key1
?vperm$vxx28,v28,v29,$keyperm
l$vxx31,$x60,$key1
?vperm$vxx29,v29,v30,$keyperm
l$vxxtwk5,$x70,$key1 # borrow $twk5
?vperm$vxx30,v30,v31,$keyperm
l$vxx24,$x00,$key_ # pre-load round[1]
?vperm$vxx31,v31,$twk5,$keyperm
l$vxx25,$x10,$key_ # pre-load round[2]

?vperm$in0,$sinout,$sinptail,$sinpperm
subi $inp, $inp, 31 # undo "caller"
vxor $twk0, $tweak, $rndkey0
vsrab $tmp, $tweak, $seven # next tweak value
vaddubm $tweak, $tweak, $tweak
vsldoi $tmp, $tmp, $tmp, 15
vand $tmp, $tmp, $eighty7
vxor $out0, $in0, $twk0
vxor $tweak, $tweak, $tmp

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

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

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

lvx_u $in4, $x40, $inp
subi $len, $len, 0x60
vxor $twk4, $tweak, $rndkey0
vsrab $tmp, $tweak, $seven # next tweak value
vaddubm $tweak, $tweak, $tweak
vsldoi $tmp, $tmp, $tmp, 15
le?vperm $in4, $in4, $in4, $leperm
vand tmp, tmp, eighty7
vxor out4, sin4, stk4
vxor tweak, tweak, tmp

lvx_u sin5, $x50, $inp
addi $inp, $inp, 0x60
vxor tmp5, tweak, $rndkey0
vsrab tmp, tweak, $seven # next tweak value
vaddubm tmp, tweak, tweak
vsldoi tmp, tmp, tmp, 15
le?perm sin5, sin5, sin5, $leperm
vand tmp, tmp, eighty7
vxor out5, sin5, stk5
vxor tweak, tweak, tmp

vxorv31, v31, $rndkey0
mtctr $rounds
b Loop_xts_enc6x

.align 5
Loop_xts_enc6x:
vcipher out0, out0, v24
vcipher out1, out1, v24
vcipher out2, out2, v24
vcipher out3, out3, v24
vcipher out4, out4, v24
vcipher out5, out5, v24
lvx v24, $x20, $key_ # round[3]
addi $key_, $key_, 0x20

vcipher out0, out0, v25
vcipher out1, out1, v25
vcipher out2, out2, v25
vcipher out3, out3, v25
vcipher out4, out4, v25
vcipher out5, out5, v25
lvx v25, $x10, $key_ # round[4]
bdnz Loop_xts_enc6x

subic $len, $len, 96 # $len-=96
vxor sin0, stk0, v31 # xor with last round key
vcipher out0, out0, v24
vcipher out1, out1, v24
vsrab tmp, tweak, $seven # next tweak value
vxor tmp0, tweak, $rndkey0
vaddubm tmp, tweak, tweak
vcipher out2, out2, v24
vcipher out3, out3, v24
vsldoi	$tmp,$tmp,$tmp,15
vcipher	$out4,$out4,v24
vcipher	$out5,$out5,v24

subfe	$r0,r0,r0$ # borrow?-1:0
vand	$tmp,$tmp,$eighty7
vcipher	$out0,$out0,v25
vcipher	$out1,$out1,v25
vxor	$tweak,$tweak,$tmp
vcipher	$out2,$out2,v25
vcipher	$out3,$out3,v25
vxor	$sin1,$twk1,v31
vsldoi	$tmp,$tmp,$tmp,15
vcipher	$out4,$out4,v25
vcipher	$out5,$out5,v25

and	$r0,r0,$len
vaddubm	$tweak,$tweak,$tweak
vsldoi	$tmp,$tmp,$tmp,15
vcipher	$out0,$out0,v26
vcipher	$out1,$out1,v26
vand	$tmp,$tmp,$eighty7
vcipher	$out2,$out2,v26
vcipher	$out3,$out3,v26
vxor	$tweak,$tweak,$tmp
vcipher	$out4,$out4,v26
vcipher	$out5,$out5,v26

vxor	$tweak,$tweak,$tmp

addi	$key_,$sp,$FRAME+15 # rewind $key_
vxor	$tweak,$tweak,$tmp
vcipher\$out0,$out0,v28  
vcipher\$out1,$out1,v28  
vxor\$in3,$twk3,v31  
vsrcab\$tmp,$tweak,$seven  
  next tweak value  
vxor\$twk3,$tweak,$rndkey0  
vcipher\$out2,$out2,v28  
vcipher\$out3,$out3,v28  
vaddubm\$tweak,$tweak,$tweak  
vsldoi\$tmp,$tmp,$tmp,15  
vcipher\$out4,$out4,v28  
vcipher\$out5,$out5,v28  
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\$in4,$twk4,v31  
vsrcab\$tmp,$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,$tweak  
vsldoi\$tmp,$tmp,$tmp,15  
vcipher\$out0,$out0,v30  
vcipher\$out1,$out1,v30  
vand\$tmp,$tmp,$eighty7  
vcipher\$out2,$out2,v30  
vcipher\$out3,$out3,v30  
vxor\$tweak,$tweak,$tmp  
vcipher\$out4,$out4,v30  
vcipher\$out5,$out5,v30  
vxor\$in5,$twk5,v31  
vsrcab\$tmp,$tweak,$seven  
  next tweak value  
vxor\$twk5,$tweak,$rndkey0  
vcipherlast\$out0,$out0,$in0  
  lvx_u\$in0,$x00,$inp  
  # load next input block  
vaddubm\$tweak,$tweak,$tweak  
vsldoi\$tmp,$tmp,$tmp,15  
vcipherlast\$out1,$out1,$in1  
  lvx_u\$in1,$x10,$inp  
vcipherlast\$out2,$out2,$in2  
le?perm\$in0,$in0,$in0,$leperm
blt Lxts_enc6x_three
nop
beq Lxts_enc6x_four

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

bl_aesp8_xts_enc5x

le?vperm $out0, $out0, $out0, $leperm
vmr $twk0, $twk5 # unused tweak
le?vperm $out1, $out1, $out1, $leperm
stvx_u $out0, $x00, $out # store output
le?vperm $out2, $out2, $out2, $leperm
stvx_u $out1, $x10, $out
le?vperm $out3, $out3, $out3, $leperm
stvx_u $out2, $x20, $out
vxor $tmp, $out4, $twk5 # last block prep for stealing
le?vperm $out4, $out4, $out4, $leperm
stvx_u $out3, $x30, $out
stvx_u $out4, $x40, $out
addi $out, $out, 0x50
bne Lxts_enc6x_steal
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 $out2, $out2, $out2, $leperm
stvx_u $out1, $x10, $out
vxor $tmp, $out3, $twk4 # last block prep for stealing
le?vperm $out3, $out3, $out3, $leperm
stvx_u $out2, $x20, $out
stvx_u$out3,$x30,$out
addi$out,$out,0x40
bneLxts_enc6x_steal
bLxts_enc6x_done

._align4
Lxts_enc6x_three:
vxor$out0,$in3,$twk0
vxor$out1,$in4,$twk1
vxor$out2,$in5,$twk2
vxor$out3,$out3,$out3
vxor$out4,$out4,$out4
bl_aesp8_xts_enc5x

le?vperm$out0,$out0,$out0,$leperm
vmr$twk0,$twk3# unused tweak
le?vperm$out1,$out1,$out1,$leperm
stvx_u$out0,$x00,$out# store output
evout2,$out2,$twk3# last block prep for stealing
le?vperm$out2,$out2,$out2,$leperm
stvx_u$out1,$x10,$out
stvx_u$out2,$x20,$out
addi$out,$out,0x30
bneLxts_enc6x_steal
bLxts_enc6x_done

._align4
Lxts_enc6x_two:
vxor$out0,$in4,$twk0
vxor$out1,$in5,$twk1
vxor$out2,$out2,$out2
vxor$out3,$out3,$out3
vxor$out4,$out4,$out4
bl_aesp8_xts_enc5x

le?vperm$out0,$out0,$out0,$leperm
vmr$twk0,$twk2# unused tweak
vout2,$out2,$twk2# last block prep for stealing
le?vperm$out1,$out1,$out1,$leperm
stvx_u$out0,$x00,$out# store output
stvx_u$out1,$x10,$out
addi$out,$out,0x20
bneLxts_enc6x_steal
bLxts_enc6x_done

._align4
Lxts_enc6x_one:
vxor $out0, $in5, $twk0
nop

Loop_xts_enc1x:
vcipher $out0, $out0, v24
lvx v24, $x20, $key_ # round[3]
addi $key_, $key_, 0x20

vcipher $out0, $out0, v25
lvx v25, $x10, $key_ # round[4]
bdnz Loop_xts_enc1x

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

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

lvrsinperm, 0, $taillen
vcipher $out0, $out0, v26

lvx u$in0, 0, $inp
vcipher $out0, $out0, v27

addi $key_, $sp, $FRAME+15 # rewind $key_
vcipher $out0, $out0, v28
lvx v24, $x00, $key_ # re-pre-load round[1]

vcipher $out0, $out0, v29
lvx v25, $x10, $key_ # re-pre-load round[2]
vxor $twk0, $twk0, v31

le?perm $in0, 0, $in0, $leperm
vcipher $out0, $out0, v30

vperm $in0, $in0, $in0, $inperm
vcipherlast $out0, $out0, $twk0

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

.align 4
Lxts_enc6x_zero:
cmpwi $	ext{Staillen}, 0
beq Lxts_enc6x_done

add $inp, $inp, $Staillen
subi $inp, $inp, 16
lxv_u $in0, 0, $inp
lvsr $inpperm, 0, $Staillen
le?$inperm $inp, $inp, $inp, $inperm
vxor $tmp, $inp, $inperm

Lxts_enc6x_steal:
vxor $in0, $inp, $twk0
vxor $out0, $out0, $out0
vspltisb $out1, -1
vperm $out0, $out0, $out1, $inpperm
vsel $out0, $in0, $tmp, $out0 # $tmp is last block, remember?

subi $3, $out, 17
subi $out, $out, 16
mtctr $Staillen
Loop_xts_enc6x_steal:
  lbzu $r0, 1(r3)
  stb $r0, 16(r3)
  bdnz Loop_xts_enc6x_steal

li $Staillen, 0
mtctr $rounds
b Loop_xts_enc1x # one more time...

.align 4
Lxts_enc6x_done:
mtlr $r7
lir10, "$FRAME+15"
lir11, "$FRAME+31"
stvx$sseven, r10, $Sp# wipe copies of round keys
adddir10, r10, 32
stvx$sseven, r11, $Sp
adddir11, r11, 32
stvx$sseven, r10, $Sp
adddir10, r10, 32
stvx$sseven, r11, $Sp
adddir11, r11, 32
stvx$sseven, r10, $Sp
adddir10, r10, 32
stvx$sseven, r11, $Sp
adddir11, r11, 32
stvx$sseven, r10, $Sp
adddir10, r10, 32
stvx$sseven, r11, $Sp
adddir11, r11, 32
stvx$sseven, r10, $Sp
addi r10, r10, 32
stvx $seven, r11, $sp
addi r11, r11, 32
mtspr 256, $vrsave
addi r10, r10, 32
lvx v20, r10, $sp  # ABI says so
addi r11, r11, 32
lvx v21, r11, $sp
addi r10, r10, 32
lvx v22, r10, $sp
addi r11, r11, 32
lvx v23, r11, $sp
addi r10, r10, 32
lvx v24, r10, $sp
addi r11, r11, 32
lvx v25, r11, $sp
addi r10, r10, 32
lvx v26, r10, $sp
addi r11, r11, 32
lvx v27, r11, $sp
addi r10, r10, 32
lvx v28, r10, $sp
addi r11, r11, 32
lvx v29, r11, $sp
addi r10, r10, 32
lvx v30, r10, $sp
addi r11, r11, 32
lvx v31, r11, $sp

POP r26, `$FRAME+21*16+0*$SIZE_T`($sp)
POP r27, `$FRAME+21*16+1*$SIZE_T`($sp)
POP r28, `$FRAME+21*16+2*$SIZE_T`($sp)
POP r29, `$FRAME+21*16+3*$SIZE_T`($sp)
POP r30, `$FRAME+21*16+4*$SIZE_T`($sp)
POP r31, `$FRAME+21*16+5*$SIZE_T`($sp)

addi $sp, $sp, `$FRAME+21*16+6*$SIZE_T`
blr
.long 0
.byte 0, 12, 0x04, 1, 0x80, 6, 6, 0
.long 0
.align 5

_aes8_xts_enc5x:
vcipher $out0, $out0, v24
vcipher $out1, $out1, v24
vcipher $out2, $out2, v24
vcipher $out3, $out3, v24
vcipher $out4, $out4, v24
lvx v24, $x20, $key_ # round[3]
addi $key_, $key_, 0x20
vcipher$out0,$out0,v25
vcipher$out1,$out1,v25
vcipher$out2,$out2,v25
vcipher$out3,$out3,v25
vcipher$out4,$out4,v25
lvx25,$x10,$key_ # round[4]
bdnz_aesp8_xts_enc5x
add$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,$twk0,v31
lvrs$inperm,r0,$taillen # $in5 is no more
vcipher$out1,$out1,v26
vcipher$out2,$out2,v26
vcipher$out3,$out3,v26
vcipher$out4,$out4,v26
vxor$in1,$twk1,v31
vcipher$out0,$out0,v26
lvx_u$in0,0,$inp
vcipher$out1,$out1,v27
vcipher$out2,$out2,v27
vcipher$out3,$out3,v27
vcipher$out4,$out4,v27
vxor$in2,$twk2,v31
add$key_,$sp,$FRAME+15 # rewind $key_
vcipher$out0,$out0,v28
vcipher$out1,$out1,v28
vcipher$out2,$out2,v28
vcipher$out3,$out3,v28
vcipher$out4,$out4,v28
lvx24,$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
lvx25,\$x10,\$
key _ # re-pre-load round[2]
vxor\$in4,\$twk4,v31

vcipher\$out0,\$out0,v30
vperm\$in0,\$in0,\$in0,\$in\$perm
vcipher\$out1,\$out1,v30
vcipher\$out2,\$out2,v30
vcipher\$out3,\$out3,v30
vcipher\$out4,\$out4,v30

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

.align5
_aes\$8_xts\_decrypt6x:
\$STU\$sp,-\`($FRAME+21*16+6*$SIZE_T)`($sp)
mflr\r0
lir7,\`$FRAME+8*16+15`
lir8,\`$FRAME+8*16+31`
$SPUSHr0,\`$FRAME+21*16+6*$SIZE_T+$LRSAVE`($sp)
stvxv20,r7,\$sp# ABI says so
addr7,r7,32
stvxv21,r8,\$sp
addr8,r8,32
stvxv22,r7,\$sp
addr7,r7,32
stvxv23,r8,\$sp
addr8,r8,32
stvxv24,r7,\$sp
addr7,r7,32
stvxv25,r8,\$sp
addr8,r8,32
stvxv26,r7,\$sp
addr7,r7,32

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stxv27,r8,$sp
addi8,r8,32
stxv28,r7,$sp
addi7,r7,32
stxv29,r8,$sp
addi8,r8,32
stxv30,r7,$sp
stxv31,r8,$sp
mr7,r0
li0,-1
stw$vrsave,$FRAME+21*16-4($sp)# save vrsave
li$sp,10,0x10
$PUSH26,$FRAME+21*16+0*SIZE_T($sp)
li$sp,20,0x20
$PUSH27,$FRAME+21*16+1*SIZE_T($sp)
li$sp,30,0x30
$PUSH28,$FRAME+21*16+2*SIZE_T($sp)
li$sp,40,0x40
$PUSH29,$FRAME+21*16+3*SIZE_T($sp)
li$sp,50,0x50
$PUSH30,$FRAME+21*16+4*SIZE_T($sp)
li$sp,60,0x60
$PUSH31,$FRAME+21*16+5*SIZE_T($sp)
li$sp,70,0x70
mtspr256,r0

subi$rounds,$rounds,3# -4 in total
lvx$rndkey0,$x00,$key1# load key schedule
lvx30,$x10,$key1
addi$key1,1,0x20
lvx31,$x00,$key1
?vperm$rndkey0,$rndkey0,v30,$keyperm
addi$key_,$sp,$FRAME+15
mtctr$rounds

Load_xts_dec_key:
?vpermv24,v30,v31,$keyperm
lvx30,$x10,$key1
addi$key1,1,0x20
stxv24,$x00,$key_# off-load round[1]
?vpermv25,v31,v30,$keyperm
lvx31,$x00,$key1
stxv25,$x10,$key_# off-load round[2]
addi$key_,$key_,0x20
bdnzLoad_xts_dec_key

lvx26,$x10,$key1
?vperm$v24,v30,v31,$keyperm
lvx$v27,$x20,$key1
stvx$v24,$x00,$key_ # off-load round[3]
?vperm$v25,v31,v26,$keyperm
lvx$v28,$x30,$key1
stvx$v25,$x10,$key_ # off-load round[4]
addi$key_,$sp,$FRAME+15 # rewind $key_
?vperm$v26,v26,v27,$keyperm
lvx$v29,$x40,$key1
?vperm$v27,v27,v28,$keyperm
lvx$v30,$x50,$key1
?vperm$v28,v28,v29,$keyperm
lvx$v31,$x60,$key1
?vperm$v29,v29,v30,$keyperm
lvx$Stw5,$x70,$key1 # borrow $tweak
?vperm$v30,v30,v31,$keyperm
lvx$v24,$x00,$key_ # pre-load round[1]
?vperm$v31,v31,$Stw5,$keyper
lvx$v25,$x10,$key_ # pre-load round[2]

vperm$in0,$inout,$inptail,$inperm
subi$in0,$inout,31 # undo “caller”
vxor$twk0,$tweak,$rndkey
vsrab$Stmp,$tweak,$seven# next tweak value
vaddubm$tweak,$tweak,$tweak
vslloi$Stmp,$tmp,$tmp,15
vand$tmp,$tmp,$eighty7
vxor$Stmp,$tmp,$tweak
vxor$Stmp,$tmp

lvx_u$in1,$x10,$in1
vxor$twk1,$tweak,$rndkey
vsrab$Stmp,$tweak,$seven# next tweak value
vaddubm$tweak,$tweak,$tweak
vslloi$Stmp,$tmp,$tmp,15
le?vperm$in1,$in1,$in1,$inperm
vand$tmp,$tmp,$eighty7
vxor$Stmp,$in1,$Stw1
vxor$Stmp,$tmp

lvx_u$in2,$x20,$in2
andi.$taillen,$len,15
vxor$twk2,$tweak,$rndkey
vsrab$Stmp,$tweak,$seven# next tweak value
vaddubm$tweak,$tweak,$tweak
vslloi$Stmp,$tmp,$tmp,15
le?vperm$in2,$in2,$in2,$inperm
vand$tmp,$tmp,$eighty7
vxor $out2, $in2, $twk2
vxor $tweak, $tweak, $tmp

lvx_u $in3, $x30, $inp
sub $len, $len, $taillen
vxor $twk3, $tweak, $rndkey0
vsrab $tmp, $tweak, $seven
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
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
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
b Loop_xts_dec6x

.align 5
Loop_xts_dec6x:
vncipher $out0, $out0, v24
vncipher $out1, $out1, v24
vncipher $out2, $out2, v24
vncipher $out3, $out3, v24
vncipher $out4, $out4, v24
vncipher $out5, $out5, v24

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lvxv24,$x20,$key_ # round[3]
addi$key_,$key_,-0x20

vncipher$out0,$out0,v25
vncipher$out1,$out1,v25
vncipher$out2,$out2,v25
vncipher$out3,$out3,v25
vncipher$out4,$out4,v25
vncipher$out5,$out5,v25
lvxv25,$x10,$key_ # round[4]
bdnzLoop_xts_dec6x

subic$len,$len,96 # $len-=96
vxor$in0,$twk0,v31 # xor with last round key
vncipher$out0,$out0,v24
vncipher$out1,$out1,v24
vrsa$tm0,$tmp,$seven # next tweak value
vxor$twk0,$tmp,$rndkey0
vaddubm$twk0,$twk,$twk
vncipher$out2,$out2,v24
vncipher$out3,$out3,v24
vsla$tm0,$tmp,$tmp,15
vncipher$out4,$out4,v24
vncipher$out5,$out5,v24

subfe.r0,r0,r0 # borrow?-1:0
vand$twk1,$tmp,$eighty7
vncipher$out0,$out0,v25
vncipher$out1,$out1,v25
vxor$twk1,$tmp,$twk
vncipher$out2,$out2,v25
vncipher$out3,$out3,v25
vxor$twk1,$twk,$twk
vncipher$out4,$out4,v25
vncipher$out5,$out5,v25

andr0,r0,$len
vaddubm$twk1,$twk,$twk
vsla$tm0,$tmp,$tmp,15
vncipher$out0,$out0,v26
vncipher$out1,$out1,v26
vand$twk1,$tmp,$eighty7
vncipher$out2,$out2,v26
vncipher$out3,$out3,v26
vxor$twk1,$twk,$tmp
vncipher$out4,$out4,v26
vncipher\$out5,\$out5,v26

add\$inp,\$inp,\$r0\# \$inp is adjusted in such
# way that at exit from the
# loop inX-in5 are loaded
# with last "words"
vxor\$sin2,\$twk2,v31
vsrab\$tmp,\$tweak,\$seven\# next tweak value
vxor\$twk2,\$tweak,\$rndkey0
vaddubm\$tweak,\$tweak,\$tweak
vncipher\$out0,\$out0,\$v27
vncipher\$out1,\$out1,\$v27
vsldoi\$tmp,\$tmp,\$tmp,15
vncipher\$out2,\$out2,\$v27
vncipher\$out3,\$out3,\$v27
vand\$tmp,\$tmp,\$eighty7
vncipher\$out4,\$out4,\$v27
vncipher\$out5,\$out5,\$v27

add\$key_,\$sp,\$FRAME+15\# rewind $key_
vxor\$tweak,\$tweak,\$tmp
vncipher\$out0,\$out0,\$v28
vncipher\$out1,\$out1,\$v28
vxor\$sin3,\$twk3,v31
vsrab\$tmp,\$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
lvxv24,\$x00,\$key_\# re-pre-load round[1]
vand\$tmp,\$tmp,\$eighty7

vncipher\$out0,\$out0,\$v29
vncipher\$out1,\$out1,\$v29
vxor\$tweak,\$tweak,\$tmp
vncipher\$out2,\$out2,\$v29
vncipher\$out3,\$out3,\$v29
vxor\$sin4,\$twk4,v31
vsrab\$tmp,\$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
vsldoi\$tmp,\$tmp,\$tmp,15
vncipher $out0, $out0, v30
vncipher $out1, $out1, v30
vand $tmp, $tmp, $eighty7
vncipher $out2, $out2, v30
vncipher $out3, $out3, v30
vxor $tweak, $tweak, $tmp
vncipher $out4, $out4, v30
vncipher $out5, $out5, v30
vxor $in5, $twk5, v31
vsrab $tmp, $tweak, $seven # next tweak value
vxor $twk5, $tweak, $rndkey0

vncipher last $out0, $out0, $in0
lvx_u $in0, $x00, $inp # load next input block
vaddubm $tweak, $tweak, $tweak
vsldoi $tmp, $tmp, $tmp, 15
vncipher last $out1, $out1, $in1
lvx_u $in1, $x10, $inp
vncipher last $out2, $out2, $in2
le?vperm $in0, $in0, $in0, $leperm
lvx_u $in2, $x20, $inp
vaddubm $tweak, $tweak, $tweak
vncipher last $out3, $out3, $in3
le?vperm $in1, $in1, $in1, $leperm
lvx_u $in3, $x30, $inp
vncipher last $out4, $out4, $in4
le?vperm $in2, $in2, $in2, $leperm
lvx_u $in4, $x40, $inp
vxor $tweak, $tweak, $tmp
vncipher last $out5, $out5, $in5
le?vperm $in3, $in3, $in3, $leperm
lvx_u $in5, $x50, $inp
addi $inp, $inp, 0x60
le?vperm $in4, $in4, $in4, $leperm
le?vperm $in5, $in5, $in5, $leperm

le?vperm $out0, $out0, $out0, $leperm
le?vperm $out1, $out1, $out1, $leperm
stvx_u $out0, $x00, $out # store output
vxor $out0, $in0, $twk0
le?vperm $out2, $out2, $out2, $leperm
stvx_u $out1, $x10, $out
vxor $out1, $in1, $twk1
le?vperm $out3, $out3, $out3, $leperm
stvx_u $out2, $x20, $out
vxor $out2, $in2, $twk2
le?vperm $out4, $out4, $out4, $leperm
stvx_u$out3,$x30,$out
vxor$out3,3in3,Stwk3
le?vperm$out5,$out5,$out5,$leperm
stvx_u$out4,$x40,$out
vxor$out4,4in4,Stwk4
stvx_u$out5,$x50,$out
vxor$out5,5in5,Stwk5
addi$out,0x60

mtctr$rounds
beq_loop_xts_dec6x# did $len-=96 borrow?

addi$len,$len,0x60
beqLxts_dec6x_zero
cmpeq$len,0x20
btlLxts_dec6x_one
nop
beqLxts_dec6x_two
cmpeq$len,0x40
btlLxts_dec6x_three
nop
beqLxts_dec6x_four

Lxts_dec6x_five:
vxor$out0,0sin1,Stwk0
vxor$out1,1sin2,Stwk1
vxor$out2,2sin3,Stwk2
vxor$out3,3sin4,Stwk3
vxor$out4,4sin5,Stwk4

bl_aesp8_xts_dec5x

lehperm$out0,0out0,0out0,leperm
vmr$twk0,twk5# unused tweak
vxor$twk1,stkweak,$rmdkey0
lehperm$out1,1out1,1out1,leperm
stvx_u$out0,0x00,0out# store output
vxor$out0,0in0,Stwk1
lehperm$out2,2out2,2out2,leperm
stvx_u$out1,1x10,0out
lehperm$out3,3out3,3out3,leperm
stvx_u$out2,2x20,0out
lehperm$out4,4out4,4out4,leperm
stvx_u$out3,3x30,0out
stvx_u$out4,4x40,0out
addi$out,0x60
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,$out4
    bl_aesp8_xts_dec5x
    le?$perm$out0,$out0,$out0,$leperm
    vmr$twk0,$twk4# unused tweak
    vmr$twk1,$twk5
    le?$perm$out1,$out1,$out1,$leperm
    stvx_u$out0,$x00,$out# store output
    vxor$out0,$in0,$twk5
    le?$perm$out2,$out2,$out2,$leperm
    stvx_u$out1,$x10,$out
    le?$perm$out3,$out3,$out3,$leperm
    stvx_u$out2,$x20,$out
    stvx_u$out3,$x30,$out
    addi$out,0x40
    bneLxts_dec6x_steal
    bLxts_dec6x_done

.align4
Lxts_dec6x_three:
    vxor $out0,$in3,$twk0
    vxor $out1,$in4,$twk1
    vxor $out2,$in5,$twk2
    vxor $out3,$out3,$out3
    vxor $out4,$out4,$out4
    bl_aesp8_xts_dec5x
    le?$perm$out0,$out0,$out0,$leperm
    vmr$twk0,$twk3# unused tweak
    vmr$twk1,$twk4
    le?$perm$out1,$out1,$out1,$leperm
    stvx_u$out0,$x00,$out# store output
    vxor$out0,$in0,$twk4
    le?$perm$out2,$out2,$out2,$leperm
    stvx_u$out1,$x10,$out
    stvx_u$out2,$x20,$out
    addi$out,0x30
    bneLxts_dec6x_steal
    bLxts_dec6x_done
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, $leperm
vmr $twk0, $twk2 # unused tweak
vmr $twk1, $twk3
le?vperm $out1, $out1, $leperm
stvx_u $out0, 0x00, $out # store output
vxor $out0, $in0, $twk3
stvx_u $out1, 0x10, $out
addi $out, $out, 0x20
bne Lxts_dec6x_steal
b Lxts_dec6x_done

.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]
bdnz Loop_xts_dec1x
subi $r0, $taillen, 1
vncipher $out0, $out0, v24
andi $r0, $r0, 16
cmpwi $taillen, 0
vncipher $out0, $out0, v25

sub $inp, $inp, $r0
vncipher $out0, $out0, v26
lvx_u $in0, 0, $inp
vncipher $out0, $out0, v27
addi$key_,$sp,$FRAME+15# rewind $key_
vncipher$out0,$out0,v28
.lvxxv24,$x00,$key_# re-pre-load round[1]

vncipher$out0,$out0,v29
.lvxxv25,$x10,$key_# re-pre-load round[2]
vxor$twk0,$twk0,v31

.le?vperm$in0,$in0,$in0,$leperm
vncipher$out0,$out0,v30

mtct$rounds
vncipherlast$out0,$out0,$twk0

vmr$twk0,$twk1# unused tweak
vmr$twk1,$twk2
.le?vperm$out0,$out0,$out0,$leperm
stvx_u$out0,$x00,$out# store output
addi$out,$out,0x10
vxor$out0,$in0,$twk2
bne$Lxts_dec6x_steal
b$Lxts_dec6x_done
.align4
Lxts_dec6x_zero:
cmpwi$taillen,0
beq$Lxts_dec6x_done

.lvxxin0,0,$inp
.le?vperm$in0,$in0,$in0,$leperm
vxor$out0,$in0,$twk1
Lxts_dec6x_steal:
vncipher$out0,$out0,v24
.lvxxv24,$x20,$key_# round[3]
addi$key_,$key_,0x20

vncipher$out0,$out0,v25
.lvxxv25,$x10,$key_# round[4]
bdnzLxts_dec6x_steal

add$inp,$inp,$taillen
vncipher$out0,$out0,v24
cmpwi$taillen,0
vncipher$out0,$out0,v25

.lvxxin0,0,$inp
vncipher$out0,$out0,v26
lvslinpperm,0,$taillen# $in5 is no more
vncipher$sout0,$out0,v27

addi$key_,.s,p,$FRAME+15# rewind $key_
vncipher$sout0,$out0,v28
lvxv24,$x00,$key_# re-pre-load round[1]
vncipher$sout0,$out0,v29
lvxv25,$x10,$key_# re-pre-load round[2]
vxor$twk1,$twk1,v31

le?vperm$in0,$in0,$in0,$leperm
vncipher$sout0,$out0,v30
vperm$in0,$in0,$in0,$linpperm
vncipherlast$tmp,$out0,$twk1

le?vperm$sout0,$tmp,$tmp,$leperm
le?stvx_u$sout0,0,$out
be?stvx_u$tmp,0,$out
vxor$sout0,$out0,$out0
vspltisb$out1,-1
vperm$sout0,$out0,$out1,$linpperm
vsel$sout0,$in0,$tmp,$out0
vxor$sout0,$out0,$twk0

subir3,$out,1
mtctr$taillen
Loop_xts_dec6x_steal:
lbzur0,1(r3)
stbr0,16(r3)
bdnzLoop_xts_dec6x_steal

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

.align4
Lxts_dec6x_done:
mtldr7
li$r10,`$FRAME+15`
li$r11,`$FRAME+31`
stvx$seven,r10,$sp# wipe copies of round keys
addr10,r10,32
stvx$seven,r11,$sp
addr11,r11,32
stvx$seven,r10,$sp
addi10,r10,32
stvx$seven,r11,$sp
addi11,r11,32
stvx$seven,r10,$sp
addi10,r10,32
stvx$seven,r11,$sp
addi11,r11,32
stvx$seven,r10,$sp
addi10,r10,32
stvx$seven,r11,$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,$sp
SPOPr26,'SFRAME+21*16+0*SIZE_T'($sp)
SPOPr27,'SFRAME+21*16+1*SIZE_T'($sp)
SPOPr28,'SFRAME+21*16+2*SIZE_T'($sp)
SPOPr29,'SFRAME+21*16+3*SIZE_T'($sp)
SPOPr30,'SFRAME+21*16+4*SIZE_T'($sp)
SPOPr31,'SFRAME+21*16+5*SIZE_T'($sp)
addi$sp,$sp,'SFRAME+21*16+6*SIZE_T'
blr
.long0
.byte0,12,0x04,1,0x80,6,6,0
.long0
.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
lvx24, $x20, $key_ # round[3]
addi $key_ - $key_, 0x20

vncipher $out0, $out0, v25
vncipher $out1, $out1, v25
vncipher $out2, $out2, v25
vncipher $out3, $out3, v25
vncipher $out4, $out4, v25
lvx25, $x10, $key_ # round[4]
bdnz_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
lvxv24,\$x00,\$key_ # re-pre-load round[1]
vxor\$in3,\$twk3,\$v31

vncipher\$out0,\$out0,\$v29
le?vperm\$in0,\$in0,\$in0,\$leperm
vncipher\$out1,\$out1,\$v29
vncipher\$out2,\$out2,\$v29
vncipher\$out3,\$out3,\$v29
vncipher\$out4,\$out4,\$v29
lvxv25,\$x10,\$key_ # re-pre-load round[2]
vxor\$in4,\$twk4,\$v31

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

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

}}}}}

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

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

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

# little-endian conversion
if ($flavour =~ /le$/o) {
    SWITCH: for($conv)  {
        /^?inv/ && do   { @bytes=map($_^0xf,@bytes); last; }; 
        /^?rev/ && do   { @bytes=reverse(@bytes); last; }; 
    }
}

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

# instructions prefixed with '?' are endian-specific and need
# to be adjusted accordingly...
if ($flavour =~ /le$/o)  {# little-endian
    s/le\?//o
    s/be\?/#be#/o
    s/!lvsl/lvsl/o
    s/$?lvsl/lvsl/o
    s/\?vperm\$v\[0-9\]+,\$*\(v\[0-9\]+,\$*\)(v\[0-9\]+)\$/1$3$2$4/o or
    s/\?vlddoi\$v\[0-9\]+,\$*\(v\[0-9\]+,\$*\)(v\[0-9\]+)\$/1$3$2 16-$4/o or
    s/\?vsplitw\$v\[0-9\]+,\$*\(v\[0-9\]+,\$*\)(v\[0-9\]+)\}$/1$3$2 3-$5/o;
} else {# big-endian
    s/le\?/#le#/o
    s/be\?//o
    s/\?[a-z]+/$1/o;
}
    print $_."n";
}
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
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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/rand/rand_lcl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_exp2.c

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#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
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/.

# GHASH for PowerISA v2.07.

# July 2014

# Accurate performance measurements are problematic, because it's always virtualized setup with possibly throttled processor.
# Relative comparison is therefore more informative. This initial version is ~2.1x slower than hardware-assisted AES-128-CTR, ~12x faster than "4-bit" integer-only compiler-generated 64-bit code.
# "Initial version" means that there is room for further improvement.

# May 2016

# 2x aggregated reduction improves performance by 50% (resulting performance on POWER8 is 1 cycle per processed byte), and 4x
# aggregated reduction - by 170% or 2.7x (resulting in 0.55 cpb).

$flavour=shift;
$output =shift;

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

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

$0 =~ m/(.*[\/\'])[^\/\']+/; $dir=$1; 
( $xlate="$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,$Sip,$Slen)=map("r$$_",(3..6)); # argument block

my ($Xl,$Xm,$Xh,$SIN)=map("v$$_",(0..3));
my ($zero,$t0,$t1,$t2,$xC2,$H,$Hh,$Hl,$lemask)=map("v$$_",(4..12));
my ($Xl1,$Xm1,$Xh1,$SIN1,$H2,$H2h,$H2l)=map("v$$_",(13..19));
my $vrsave="r12";

$code=<__;
.machine"any"

.text

.globl gcm_init_p8
.align5
.gcm_init_p8:
lr0,-4096
lr8,0x10
mfspr$vrsave,256
li9,0x20
mtspr256,r0
lr10,0x30
lvx_u$H,0,r4# load H

vspltsb$sxC2,-16# 0xf0
vspltsb$st0,1# one
vaddubmsxC2,$sxC2,$sxC2# 0xe0
vxorst0,$zero,$zero
vor$sxC2,$sxC2,$st0# 0xe1
vsldoisxC2,$sxC2,$zero,15# 0xe1...
vsldoi$t0,$zero,$t0,1# ...1
vaddubmsxC2,$sxC2,$sxC2# 0xc2...
vspltsbt2,7
vor$sxC2,$sxC2,$st1# 0xc2...01
vsplth$t1,$H,0# most significant byte
vsl$H,$st0# H<<=1
vsrah$t1,$st1,$st2# broadcast carry bit
vand$t1,$sxC2
vxorst1,$H,$st1# twisted H

vsldoi$H,$SIN,$SIN,8# twist even more ...
vsldoi$sxC2,$zero,$sxC2,8# 0xc2.0
vsldoi$Hl,$zero,$H,8# ... and split
vsldoi$Hh,$H,$zero,8

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stvx_u$sx$C2.0,r3 # save pre-computed table
stvx_u$H1,r8,r3
lir8,0x40
stvx_u$H,r9,r3
lir9,0x50
stvx_u$Hh,r10,r3
lir10,0x60

vpmsumd$Xl,$IN,$H1l # H.loH.lo
vpmsumd$Xm,$IN,$H# H.hiH.lo+H.loH.hi
vpmsumd$Xh,$IN,$Hh# H.hiH.hi

vpmsumd$t2,$Xl,$sx$C2 # 1st reduction phase
vsldoi$t0,$Xm,$zero,8
vsldoi$t1,$zero,$Xm,8
vxor$Xl,$Xl,$t0
vxor$Xh,$Xh,$t1

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

vsldoi$t1,$Xl,$Xl,8 # 2nd reduction phase
vpmsumd$Xl,$Xl,$sx$C2
vxor$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,$t6) = ($Hl,$H,$Hh);
    $code.=<<___;
    vpmsumd$Xl,$IN,$H2l# H.loH^2.lo
    vpmsumd$X1,$IN1,$H2l# H^2.loH^2.lo
    vpmsumd$Xm,$IN,$H2# H.hiH^2.lo+H.loH^2.hi
    vpmsumd$Xm1,$IN1,$H2# H^2.hiH^2.lo+H^2.loH^2.hi
    vpmsumd$Xh,$IN,$H2h# H.hiH^2.hi
    vpmsumd$Xh1,$IN1,$H2h# H^2.hiH^2.hi
}
vpmsumdst2,$Xl,$xC2  # 1st reduction phase
vpmsumdst6,$Xl1,$xC2  # 1st reduction phase

vsldoit0,$Xm,$zero,8
vsldoit1,$zero,$Xm,8
vsldoit4,$Xm1,$zero,8
vsldoit5,$zero,$Xm1,8
vxor$Xl,$Xl,$t0
vxor$Xh,$Xh,$t1
vxor$Xl1,$Xl1,$t4
vxor$Xh1,$Xh1,$t5

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

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

vsldoit$t1,$Xl,$Xl,8  # 2nd reduction phase
vsldoit$t5,$Xl1,$Xl1,8  # 2nd reduction phase
vpmsumdst$Xl,$Xl,$xC2
vpmsumdst$Xl1,$Xl1,$xC2
vxort1,$t1,$Xh
vxort5,$t5,$Xh1
vxort$Xl,$Xl,$t1
vxort$Xl1,$Xl1,$t5

vsldoit$H,$Xl,$Xl,8
vsldoit$H2,$Xl1,$Xl1,8
vsldoit$Hl,$zero,$H,8
vsldoit$Hh,$H,$zero,8
vsldoit$H2l,$zero,$H2,8
vsldoit$H2h,$H2,$zero,8

stvx_u$Hl,r8,r3  # save H^3
lir8,0xa0
stvx_u$Hr9,r3
lir9,0xb0
stvx_u$Hr10,r3
lir10,0xc0
stvx_u$H2r8,r3  # save H^4
stvx_u$H2r9,r3
stvx_u$H2r10,r3

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

}
$code.<<<:
.globl gcm_gmult_p8
.align 5
gcm_gmult_p8:
  lsr0, 0xfff8
  lir8, 0x10
  mfspr $vrsave, 256
  lir9, 0x20
  mtspr 256, r0
  lir10, 0x30
  lvx_u$IN, 0, $Xip # load Xi

  lvx_u$HI, r8, $Htbl # load pre-computed table
  le?lvsl$lemask, r0, r0
  lvx_u$H, r9, $Htbl
  le?vplxu$sb$t0, 0x0, s	7
  lvx_u$Hh, r10, $Htbl
  le?vxor$lemask, $lemask, $t0
  lvx_u$sC2, 0, $Htbl
  le?vperm$IN, $IN, $IN, $lemask
  vxor$zero, $zero, $zero

  vpmsumd$Xl, $IN, $HI # H.loXi.lo
  vpmsumd$Xm, $IN, $SH # H.hiXi.lo+H.loXi.hi
  vpmsumd$Xh, $IN, $SHh # 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, $Xl, 8 # 2nd reduction phase
  vpmsumd$Xl, $Xl, $xC2
  vxor$t1, $t1, $Xh
  vxor$Xl, $Xl, $t1

  le?vperm$Xl, $Xl, $Xl, $lemask
  stvx_u$Xl, 0, $Xip # write out Xi
mtspr256,$vrsave
blr
.long0
.byte0,12,0x14,0,0,0,2,0
.long0
.size.gcm_gmult_p8,.-.gcm_gmult_p8
.globl.gcm_ghash_p8
.align5
.globl.gcm_ghash_p8:
li0,-4096
lir8,0x10
mfspr$vrsave,256
lir9,0x20
mtspr256,r0
lir10,0x30
lvx_u$X1,0,$Xip# load Xi

lvx_u$Hl,r8,$Htbl# load pre-computed table
lir8,0x40
1e?lvsl$lemask,r0,r0
lvx_u$H, r9,$Htbl
lir9,0x50
1e?vsplitisb$t0,0x07
lvx_u$Hh,r10,$Htbl
lir10,0x60
1e?vxor$lemask,$lemask,$t0
lvx_u$xC2,0,$Htbl
1e?vperm$X1,$X1,$X1,$lemask
vxor$zero,$zero,$zero

${UCMP}i$len,64
bgeL.gcm_ghash_p8_4x

lvx_u$IN,0,$inp
addi$inp,$inp,16
subic.$len,$len,16
1e?vperm$IN,$IN,$IN,$lemask
vxor$IN,$IN,$X1
beqL.short

lvx_u$H2l,r8,$Htbl# load H^2
lir8,16
lvx_u$H2, r9,$Htbl
add9,$inp,$len# end of input
lvx_u$H2h,r10,$Htbl
be?pLoop_2x
.align 5
Loop_2x:
lvx_u$IN1,0,$inp
le?$perm$IN1,$IN1,$IN1,$lemask

subic$len,$len,32
vpmsund$Xl,$IN,SH1# H^2.loXi.lo
vpmsund$Xl1,$IN1,SH1# H.loXi+1.lo
subfo0,r0,r0# borrow?-1:0
vpmsund$Xm,$IN,SH2# H^2.hiXi.lo+H^2.loXi.hi
vpmsund$Xm1,$IN1,SH# H.hiXi+1.lo+H.loXi+1.hi
andr0,r0,$len
vpmsund$Xh,$IN,SH2h# H^2.hiXi.hi
vpmsund$Xh1,$IN1,SHh# H.hiXi+1.hi
add$inp,$inp,r0
vxor$Xl,$Xl,$Xl1
vxor$Xm,$Xm,$Xm1
vpmsund$t2,$Xl,$xC2# 1st reduction phase

vsldoi$t0,$Xm,$zero,8
vsldoi$t1,$zero,$Xm,8
vxor$Xh,$Xh,$Xh1
vxor$Xl,$Xl,$t0
vxor$Xh,$Xh,$t1
vsldoi$Xl,$Xl,$Xl,8
vxor$Xl,$Xl,$t2
lvx_u$IN,r8,$inp
add$inp,$inp,32

vsldoi$t1,$Xl,$Xl,8# 2nd reduction phase
vpmsund$Xl,$Xl,$xC2
le?$perm$IN,$IN1,$IN1,$lemask
vxor$t1,$t1,$Xh
vxor$IN,$IN,$t1
vxor$IN,$IN,$Xl
$UCMPr9,$inp
bgtLoop_2x# done yet?

cmplwi$len,0
bne Leven

Lshort:
vpmsund$Xl,$IN,SH1# H.loXi.lo
vpmsund$Xm,$IN,SH# H.hiXi.lo+H.loXi.hi
vpmsund$Xh,$IN,SHh# H.hiXi.hi
vpmsumdst2,$XI,$xC2# 1st reduction phase

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

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

vsldoi$XI,$XI,$XI,8# 2nd reduction phase
vpmsumdst1,$XI,$xC2
vxor$t1,$t1,$Xh

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

mtspr256,$vrsave
blr
.long0
.byte0,12,0x14,0,0,4,0
.long0
___
{
my ($XI3,$Xm2,$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:
$STUSp.-$FRAME($sp)
lir10,’15+6*$SIZE_T
lir11,’31+6*$SIZE_T
stvxv20,r10,$sp
addir10,r10,32
stvxv21,r11,$sp
addir11,r11,32
stvxv22,r10,$sp
addir10,r10,32
stvxv23,r11,$sp
addir11,r11,32
stvxv24,r10,$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
lir10, 0x60
stvx31, r11, $sp
lir0, -1
stw$vrsave,"$FRAME-4" ($sp)# save vrsave
mtspr256, r0# preserve all AltiVec registers
lvsISt0, 0, r8# 0x0001..0e0f
#lvx_u$H2,r8,$Htbl# load H^2
lir8, 0x70
lvx_u$H2, r9, $Htbl
lir9, 0x70
vsplitisb$t1, 8# 0x0808..0808
#lvx_u$H2h, r10, $Htbl
lir10, 0x90
lvx_u$H3l, r8, $Htbl# load H^3
lir8, 0xa0
lvx_u$H3, r9, $Htbl
lir9, 0xb0
lvx_u$H3h, r10, $Htbl
lir10, 0xc0
lvx_u$H4l, r8, $Htbl# load H^4
lir8, 0x10
lvx_u$H4, r9, $Htbl
lir9, 0x20
lvx_u$H4h, r10, $Htbl
lir10, 0x30
vsldoi$t2, $zero, t1, 8# 0x0000..0808
vaddum$hiperm, t0, t2# 0x0001..1617
vaddum$loperm, t1, $hiperm# 0x0809..1e1f
$SHRIS$len, $len, 4# this allows to use sign bit
# as carry
lvx_u$IN0, 0, $inp# load input
lvx_u$IN1, r8, $inp
subic.$len, $len, 8
lvx_u$IN2,r9,$inp
lvx_u$IN3,r10,$inp
addi$inp,$inp,0x40
le?vperm$IN0,$IN0,$IN0,$lemask
le?vperm$IN1,$IN1,$IN1,$lemask
le?vperm$IN2,$IN2,$IN2,$lemask
le?vperm$IN3,$IN3,$IN3,$lemask
vxor$Xh,$IN0,$Xl

vpmsumdx11,$IN1,$SH3l
vpmsumdxm1,$IN1,$SH3
vpmsumdxh1,$IN1,$SH3h

vperm$H211l,$SH2,$SH,$Shiperm
vperm$0,$IN2,$IN3,$Sloperm
vperm$H21h,$SH2,$SH,$Shiperm
vperm$t1,$IN2,$IN3,$Shiperm
vpmsumdxm2,$IN2,$SH2# H^2.loXi+2.hi+H^2.hiXi+2.lo
vpmsumdx13,$t0,$SH21l# H^2.loXi+2.lo+H.loXi+3.lo
vpmsumdxm3,$IN3,$SH# H.hiXi+3.lo +H.loXi+3.hi
vpmsumdxh3,$t1,$SH21h# H^2.hiXi+2.hi+H.hiXi+3.hi
vxor$Xm2,$Xm2,$Xm1
vxor$X13,$X13,$X1l
vxor$Xm3,$Xm3,$Xm2
vxor$Xh3,$Xh3,$Xh1

bltLtail_4x

Loop_4x:
 lvx_u$IN0,0,$inp
 lvx_u$IN1,r8,$inp
 subic.$len,$len,4
 lvx_u$IN2,r9,$inp
 lvx_u$IN3,r10,$inp
 addi$inp,$inp,0x40
 le?vperm$IN1,$IN1,$IN1,$lemask
 le?vperm$IN2,$IN2,$IN2,$lemask
 le?vperm$IN3,$IN3,$IN3,$lemask
 le?vperm$IN0,$IN0,$IN0,$lemask

vpmsumdx1,$Xh,$SH4l# H^4.loXi.lo
vpmsumdxm,$Xh,$SH4# H^4.hiXi.lo+H^4.loXi.hi
vpmsumdxh,$Xh,$SH4h# H^4.hiXi.hi
vpmsumdx11,$IN1,$SH3l
vpmsumdxm1,$IN1,$SH3
vpmsumdxh1,$IN1,$SH3h
vxor$Xl,$Xl,$Xl3
vxor$Xm,$Xm,$Xm3
vxor$Xh,$Xh,$Xh3
vperm$t0,$IN2,$IN3,$loperm
vperm$t1,$IN2,$IN3,$hiperm

vpmsum$d$t2,$Xl,$xC2# 1st reduction phase
vpmsum$d$x3,$t0,$H21l# H.loXi++3.lo +H^2.loXi+2.lo
vpmsum$d$x3,$t1,$H21h# 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,$Xl,$st2

vsldoi$t1,$Xl,$Xl,8# 2nd reduction phase
vpmsum$d$x2,$IN2,$H2# H^2.hiXi+2.lo+H^2.loXi+2.hi
vpmsum$d$x3,$IN3,$H# H.hiXi+3.lo +H.loXi+3.hi
vpmsum$d$x1,$Xl,$xC2

vxor$Xl3,$Xl3,$Xl1
vxor$Xh3,$Xh3,$Xh1
vxor$Xh,$Xh,$IN0
vxor$Xm2,$Xm2,$Xm1
vxor$Xh,$Xh,$st1
vxor$Xm3,$Xm3,$Xm2
vxor$Xh,$Xh,$XI
bge$Loop_4x

Ltail_4x:
vpmsum$d$x1,$Xh,$SH4# H^4.loXi.lo
vpmsum$d$x3,$Xh,$SH4# H^4.hiXi.lo+H^4.loXi.hi
vpmsum$d$x3,$Xh,$SH4h# H^4.hiXi.hi

vxor$Xl,$Xl,$Xl3
vxor$Xm,$Xm,$Xm3

vpmsum$d$t2,$Xl,$xC2# 1st reduction phase

vsldoi$t0,$Xm,$zero,8
vsldoi$t1,$zero,$Xm,8
vxor$Xh,$Xh,$Xh3
vxor$Xl,$Xl,$t0
vxor$Xh,$Xh,$t1
vsldoi\$Xl,\$Xl,\$Xl,8
vxor\$Xl,\$Xl,\$t2

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

addic.\$len,\$len,4
beq.Ldone_4x

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

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

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

vperm\$t0,\$IN1,\$IN2,\$loperm
vperm\$t1,\$IN1,\$IN2,\$hiperm
vpmsumd\$Xm2,\$IN1,\$H2\# H^2.loXi+1.hi+H^2.hiXi+1.lo
vpmsumd\$Xm3,\$IN2,\$H\# H.hiXi+2.lo +H.loXi+2.hi
vpmsumd\$Xm13,\$t0,\$H21\# H^2.loXi+1.lo+H.loXi+2.lo
vpmsumd\$Xm1h,\$t1,\$H21h\# 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,\$Xl
vperm\$t0,\$zero,\$IN1,\$loperm
vperm\$t1,\$zero,\$IN1,\$hiperm

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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, $XI
vxor $XI3, $XI3, $XI3
vxor $Xm3, $Xm3, $Xm3
vxor $Xh3, $Xh3, $Xh3
b Ltail_4x

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

li r10, 156+$SIZE_T
li r11, 316+$SIZE_T
mtspr 256, $vrsave
lvxv 20, r10, $sp
addir 10, r10, 32
lvxv 21, r11, $sp
addir 11, r11, 32
lvxv 22, r10, $sp
addir 10, r10, 32
lvxv 23, r11, $sp
addir 11, r11, 32
lvxv 24, r10, $sp
addir 10, r10, 32
lvxv 25, r11, $sp
addir 11, r11, 32
lvxv 26, r10, $sp
addir 10, r10, 32
lvxv 27, r11, $sp
addi r11,r11,32
lvx28,r10,$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
__
}$code.=<<__;
.size gcm_ghash_p8,gcm_ghash_p8
.asciz "GHASH for PowerISA 2.07, CRYPTOGRAMS by <appro@openssl.org>"
.align 2
__
foreach (split("\n",$code)) {
    s/\`([^`]*`)\`/eval $1/geo;
    if ($flavour =~ /le$/) {
## little-endian
        s/le\?//o
        s/be\?/#be#/o;
    } else {
        s/le\?/#le#/o
        s/be\?/#be#/o;
    }
    print $_."\n";
}
close STDOUT; # enforce flush

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/modes/asm/ghashp8-ppc.pl
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  * /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/crypto/ui/ui_locl.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16.tar-gz/openssl-fips-2.0.16/crypto/mem_clr.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16.tar-gz/openssl-fips-2.0.16/crypto/ui/ui_compat.h

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/err/err.h
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/bn/bn_mont.c

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  2.0.16/crypto/thr_id.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/crypto/cryptlib.c
* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-
  2.0.16/crypto/crypto.h
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#!/usr/bin/env perl
#
# ====================================================================
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL

---
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---

SHA512 for C64x.

November 2016

Performance is ~19 cycles per processed byte. Compared to block transform function from sha512.c compiled with cl6x with -mv6400+ -o2 -DOPENSSL_SMALL_FOOTPRINT it's almost 7x faster and 2x smaller.

Loop unroll won't make it, this implementation, any faster, because it's effectively dominated by SHRU||SHL pairs and you can't schedule more of them.

!!! Note that this module uses AMR, which means that all interrupt service routines are expected to preserve it and for own well-being zero it upon entry.

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

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

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

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

SCTXB=$t1lo;

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

$code.=<<<___;
.text

.if ASSEMBLER_VERSION<7000000
.asg0(__TI_EABI__
.endif
.if __TI_EABI_
  .nocomp
  .asg sha512_block_data_order
  .asg sha512_block_data_order
  .endif

.asg B3,RA
.asg A15,FP
.asg B15,SP

.if BIG_ENDIAN
.asg $Khi,KHI
.asg $Klo,KLO
.else
.asg $Khi,KLO
.asg $Klo,KHI
.endif

.global sha512_block_data_order
.sha512_block_data_order:
.sha512_block:
. asmfunc stack_usage(40+128)  
MV$NUM,A0; reassign $NUM
|| MVK-128,B0
|| ![A0]BNOPRA; if ($NUM==0) return;
|| ![A0]STWF,*SP--(40); save frame pointer
|| ![A0]MVSP,FP
|| ![A0]STDBI3:B12,*SP[4]
|| ![A0]MVKx00404,B1  
|| ![A0]STDBI1:B10,*SP[3]
|| ![A0]STDAI13:A12,*FP[-3]
|| ![A0]MVKHx0x60000,B1  
|| ![A0]STDAI11:A10,*SP[1]
|| ![A0]MVCBI,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]MVKH$PCR_OFFSET(K512,___sha512_block),$K512
|| ![A0]SUBAWS2,2,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]SUBAWS2,2,SP; reserve two words above buffer
 .endif
ADDAWS3,$Xilo
ADDSP.4*2,$Xhi; ADDAWS.2,$Xhi

||MVSCtxA,CtxB
LDW*$[CtxA][0^16].LITTLE_ENDIAN,$Ahi; load ctx
||LDW*$[CtxB][1^16].LITTLE_ENDIAN,$Al
||ADDB.1,$K512,$K512
LDW*$[CtxA][2^16].LITTLE_ENDIAN,$Bhi
||LDW*$[CtxB][3^16].LITTLE_ENDIAN,$Blo
LDW*$[CtxA][4^16].LITTLE_ENDIAN,$Ch
||LDW*$[CtxB][5^16].LITTLE_ENDIAN,$Clo
LDW*$[CtxA][6^16].LITTLE_ENDIAN,$Dhi
||LDW*$[CtxB][7^16].LITTLE_ENDIAN,$Dlo
LDW*$[CtxA][8^16].LITTLE_ENDIAN,$Ehi
||LDW*$[CtxB][9^16].LITTLE_ENDIAN,$Elo
LDW*$[CtxA][10^16].LITTLE_ENDIAN,$Fhi
||LDW*$[CtxB][11^16].LITTLE_ENDIAN,$Flo
LDW*$[CtxA][12^16].LITTLE_ENDIAN,$Ghi
||LDW*$[CtxB][13^16].LITTLE_ENDIAN,$Glo
LDW*$[CtxA][14^16].LITTLE_ENDIAN,$Hhi
||LDW*$[CtxB][15^16].LITTLE_ENDIAN,$Hlo

LDNDW*$INP++,B11:B10; pre-fetch input
LDDW*$K512++,$Khi:$Klo; pre-fetch K512[0]

outerloop?:
MVK15,B0; loop counters
||MVK64,B1
||SUBA0.1,A0
MV$Ahi,$Actxhi
||MV$Alo,$Actxlo
MV$Bhi,$Bctxhi
||MV$Blo,$Bctxlo
MV$Cti,$Cctxhi
||MV$Clo,$Cctxlo
MVSDhi,$Dctxhi
||MVSDlo,$Dctxlo
MV$Ehi,$Exctxhi
||MV$Elo,$Exctxlo
MV$Fhi,$Fctxhi
||MV$Flo,$Fctxlo
MV$Ghi,$Gctxhi
||MV$Glo,$Gctxlo
MV$Hhi,$Hctxhi
||MV$Hlo,$Hctxlo

loop0_15?:
.if .BIG_ENDIAN
MVB11,T1hi
||MVB10,T1lo
.else
SWAP4B10,$T1hi
||SWAP4B11,$T1lo
SWAP2ST1hi,$T1hi
||SWAP2ST1lo,$T1lo
.endif
STWST1hi,*$Xhi++[2]; original loop16_79?
||STWST1lo,*$Xilo++[2]; X[i] = T1
||ADDSHhi,$T1hi,$T1hi
||ADDSHlo,$T1lo,$T1lo; T1 += h
||SHRUSEhi,14,$S1hi
||SHLSEhi,32-14,$S1lo
loop16_79?:
XOR$Fhi,$Ghi,$CHhi
||XOR$Flo,$Glo,$CHlo
||ADDKH,$T1hi,$T1hi
||ADDUKLO,$T1lo,$T1carry,$T1lo; T1 += K512[i]
||SHRUSElo,14,$t0lo
||SHLSElo,32-14,$t0hi
XORS$t0hi,$S1hi,$S1hi
||XORS$t0lo,$S1lo,$S1lo
||AND$SEhi,$CHhi,$CHhi
||AND$SElo,$CHlo,$CHlo
||ROTLS$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,$CHlo; Ch(e,f,g) = ((f^g)&e)^g
||ROTLS$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,$MAJlo
||ROTLS$Ehi,0,$Fhi
||ROTLS$elo,0,$Flo; f = e
||SHRUSEhi,41-32,$t0lo
||SHLSEhi,64-41,$t0hi
XORS$t0hi,$S1hi,$S1hi
||XORS$t0lo,$S1lo,$S1lo
||AND$Shi,$MAJhi,$MAJhi
||AND$Sclo,$MAJlo,$MAJlo
||ROTLSDhi,0,$Ehi
||ROTLSDlo,0,$Elo; e = d
||SHRUSElo,41-32,$t0hi
||SHLSElo,64-41,$t0lo
XORS$t0hi,$S1hi,$S1hi
||XORS$t0lo,$$1lo,$$1lo; Sigma1(e)
||ANDS$Ahi,$Bhi,$t1hi
||ANDS$Alo,$Blo,$t1lo
||ROTL$Chi,0,$Dhi
||ROTLS$Clo,0,$Dlo; d = c
||SHRUS$Ahi,28,$$0hi
||SHLS$Ahi,32-28,$$0lo
OR$t1hi,$SMAJlo,$SMAJlo
||OR$t1lo,$SMAJlo,$SMAJlo; Maj(a,b,c) = ((a&b)&c)|(a&b)
||ADD$CHhi,$T1hi,$T1hi
||ADDUSCHlo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += Ch(e,f,g)
||ROTL$Bhi,0,$CChi
||ROTLS$Blo,0,$CClo; c = b
||SHRUS$Alo,28,$$0lo
||SHLS$Alo,32-28,$$0lo
XORS$t0hi,$$$0hi,$$$0hi
||XORS$t0lo,$$$0lo,$$$0lo
||ADD$$S1hi,$T1hi,$T1hi
||ADDUS$$S1lo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += Sigma1(e)
||ROTLS$Bhi,0,$CChhi
||ROTLS$Blo,0,$CChlo; b = a
||SHRUS$Ahi,34-32,$$$0lo
||SHLS$Ahi,64-34,$$$0hi
XORS$t0hi,$$$0hi,$$$0hi
||XORS$t0lo,$$$0lo,$$$0lo
||ADD$$SMAJhi,$T1hi,$T2hi
||ADDUS$$SMAJlo,$T1carry:$T1lo,$T2carry:$T2lo; T2 = T1+Maj(a,b,c)
||SHRUS$Alo,34-32,$$$0hi
||SHLS$Alo,64-34,$$$0lo
XORS$t0hi,$$$0hi,$$$0hi
||XORS$t0lo,$$$0lo,$$$0lo
||ADD$$Shi,$T1hi,$T1hi
||ADDUSE$lo,$T1carry:$T1lo,$T1carry:$T1lo; T1 += e
||SHRUS$Ahi,39-32,$$$0lo
||SHLS$Ahi,64-39,$$$0hi
[B0]BNOPloop0_15?
||[B0]LDNDW*$INP++,B11:B10; pre-fetch input
XORS$t0hi,$$$0hi,$$$0hi
||XORS$t0lo,$$$0lo,$$$0lo
||SHRUS$Alo,39-32,$$$0hi
||SHLS$Alo,64-39,$$$0lo
[[!B0]LDW*${Xhihi}[28],$T1hi
[[!B0]LDW*${Xilo}[28],$T1lo; X[i+14]
XORS$t0hi,$$$0hi,$$$0hi
||XORS$t0lo,$$$0lo,$$$0lo; Sigma0(a)
||ADDST1carry,$T1hi,$Ehi
||ROTL$T1lo,0,$Elo; e = T1, "ghost" value
||[!]B1|BNOP|break?
ADDSS0hi,$T2hi,$T2hi
||ADDUSS0lo,$ST2carry:$T2lo,$T2carry:$T2lo; T2 += Sigma0(a)
|| [B1]LDDW*$K512++,,$Khlo:$Klo; pre-fetch K512[i]
NOP; avoid cross-path stall
ADDST2carry,$T2hi,$Ahi
||MV$T2lo,$Alo; a = T2
||[B0]SUBB0,1,B0
;;;; branch to loop00_15? is taken here
[B1]LDW*$[Xihi][2],$T2hi
|| [B1]SHRUST1hi,19,$S1hi
|| [B1]SHLST1hi,32-19,$S1lo
[B1]SHRUST1lo,19,$T0lo
|| [B1]SHLST1lo,32-19,$T0hi
;;;; branch to break? is taken here
XOR$T0hi,$S1hi,$S1hi
||XOR$T0lo,$S1lo,$S1lo
||SHRU$T1hi,61-32,$T0lo
||SHL$T1hi,64-61,$T0hi
XOR$T0hi,$S1hi,$S1hi
||XOR$T0lo,$S1lo,$S1lo
||SHRUST1lo,61-32,$T0hi
||SHLST1lo,64-61,$T0lo
XOR$T0hi,$S1hi,$S1hi
||XOR$T0lo,$S1lo,$S1lo
||SHRU$T1hi,6,$T0hi
||SHLST1hi,32-6,$T0lo
XOR$T0hi,$S1hi,$S1hi
||XOR$T0lo,$S1lo,$S1lo
||SHRUST1lo,6,$T0lo
||LDW*$[Xihi][18],$T1hi
||LDW*$[Xilo][18],$T1lo; X[i+9]
XOR$T0lo,$S1lo,$S1lo; sigma1(X[i]+14)

||LDW*$[Xihi][0],$CHhi
||LDW*$[Xilo][0],$CHlo; X[i]
||SHRUST2hi,1,$S0hi
||SHLST2hi,32-1,$S0lo
SHRUST2lo,1,$T0lo
||SHLST2lo,32-1,$T0hi
XOR$T0hi,$S0hi,$S0hi
||XOR$T0lo,$S0lo,$S0lo
||SHRUST2hi,8,$T0hi
||SHLST2hi,32-8,$T0lo
XOR$T0hi,$S0hi,$S0hi

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||XOR$t0lo,$S0lo,$S0lo
||SHRU$t2lo,8,$t0lo
||SHL$t2lo,32-8,$t0hi
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||ADD$t1hi,$T1hi,$T1hi
||ADDU$s1lo,$T1lo,$T1lo; T1 = X[i+9]+sigma1()
||SHRU$t2hi,7,$t0hi
||SHL$t2hi,32-7,$t0lo
XOR$t0hi,$S0hi,$S0hi
||XOR$t0lo,$S0lo,$S0lo
||ADD$chi,$T1hi,$T1hi
||ADDU$chi,$T1lo,$T1lo; T1 += X[i]
\[B1\]BNOPloop16_79?
XOR$t0lo,$S0lo,$S0lo; sigma0(X[i+1])
ADD$s0hi,$T1hi,$T1hi
||ADDU$s0lo,$T1lo,$T1lo; T1 += sigma0()
||[B1]SUBB1,1,B1
NOP; avoid cross-path stall
ADD$t1carry,$T1hi,$T1hi

STW$t1hi,*$Xhi+++[2]; copied "top" bundle
||STW$t1lo,*$Xilo+++[2]; X[i] = T1
||ADD$hi,$T1hi,$T1hi
||ADDU$hlo,$T1lo,$T1lo; T1 += h
||SHR$eihi,14,$S1hi
||SHL$ehi,32-14,$S1lo
;;===== branch to loop16_79? is taken here
break?:
ADD$ahi,$Actxhi,$Ahi; accumulate ctx
||ADD$alo,$Actxlo,$Actxlo;$alo
||[A0]LDNDW*$INP++,B11:B10; pre-fetch input
||[A0]ADDK-640,$K512; rewind pointer to K512
ADD$blo,$Bctxhi,$Bhi
||ADDU$blo,$Bctxlo,$Bctxlo;$blo
||[A0]LDDW*$K512++,$Khi:$Klo; pre-fetch K512[0]
ADD$chi,$Cctxhi,$Chi
||ADDU$clo,$Cctxlo,$Cctxlo;$clo
||ADD$ctxlo,$Ahi,$Ahi
||![A0]MV$CTXA,$CTXB
ADD$ahi,$Dctxhi,$Dhi
||ADDU$alo,$Dctxlo,$Dctxlo;$alo
||ADD$alo,$Bho,$Bhi
||[A0]STW$ahi,*{$CTXA}[0^.LITTLE_ENDIAN]; save ctx
||[A0]STWA$alo,*{$CTXB}[1^.LITTLE_ENDIAN]
ADDSEhi,$Ectxhi,$Ehi
||ADDUSElo,$Ectxlo,$Ectxlo:$Elo
||ADDSCtxlo,$Schi,$Schi
||[A0]BNOPouterloop?
||![A0]STWSBhi,*{(CTXA)][2^.LITTLE_ENDIAN]
||![A0]STWSBllo,*{(CTXB)][3^.LITTLE_ENDIAN]
|ADDSFhi,$Sctxhi,$Fhi
||ADDUSFilo,$Fctxlo,$Fctxlo:$Flo
||ADDSDctxlo,$Dhilo,$Dhi
||![A0]STWSChilo,*{(CTXA)][4^.LITTLE_ENDIAN]
||![A0]STWSClo,$(CTXB)][5^.LITTLE_ENDIAN]
|ADDSGhi,$Sctxhi,SGhi
||ADDUSGilo,$Gctxlo,$Gctxlo:$Glo
||ADDSEctxlo,$Ehi,$Ehi
||![A0]STWSDhi,*{(CTXA)][6^.LITTLE_ENDIAN]
||![A0]STWSDilo,*{(CTXB)][7^.LITTLE_ENDIAN]
|ADDSHhi,$Sctxhi,SHhi
||ADDUSHilo,$Hctxlo,$Hctxlo:$Hlo
||ADDSEctxlo,$Fhi,$Fhi
||![A0]STWSEhi,*{(CTXA)][8^.LITTLE_ENDIAN]
||![A0]STWSEilo,*{(CTXB)][9^.LITTLE_ENDIAN]
|ADDSGctxlo,$Ghi,SGhi
||![A0]STWSFhi,*{(CTXA)][10^.LITTLE_ENDIAN]
||![A0]STWSFilo,*{(CTXB)][11^.LITTLE_ENDIAN]
|ADDSHctxlo,$Shi,SHhi
||![A0]STWSGhi,*{(CTXA)][12^.LITTLE_ENDIAN]
||![A0]STWSGilo,*{(CTXB)][13^.LITTLE_ENDIAN]
|;==== branch to outerloop? is taken here

STWSHhi,*{(CTXA)][14^.LITTLE_ENDIAN]
||STWSHilo,*{(CTXB)][15^.LITTLE_ENDIAN]
|MVK-40,B0
|ADDFP,B0,SP; destroy circular buffer
||LDDW*FP[-4],A11:A10
LDDW*SP[2],A13:A12
||LDDW*FP[-2],B11:B10
LDDW*SP[4],B13:B12
||BNOPRA
LDW*++SP(40),FP; restore frame pointer
MVK0,B0
MVCB0,AMR; clear AMR
NOP2; wait till FP is committed
.endasmfunc

.if __TI_EABI__
.sect”.text:sha_asm.const”
.else
.sect”.const:sha_asm”
.endif
.align 128
K512:
.uword 0x428a2f98, 0xd728ae22, 0x71374491, 0x23ef65cd
.uword 0xb5c0fbcf, 0xec4d3b2f, 0xe9b5dba5, 0x8189dbbc
.uword 0x3956c25b, 0xf348b538, 0x59f111f1, 0xb605d019
.uword 0x983e5152, 0xe003826f, 0x14292967, 0x0a0e6e70
.uword 0x9bdc06a7, 0xc19bf174, 0xc67178f2, 0xe372532b
.uword 0x650a7354, 0x8baf63de, 0x766a0abb, 0x3c77b2a8
.uword 0x84c87814, 0xa1f0ab72, 0x8cc70208, 0x1a6439ec
.uword 0x27b70a85, 0x46d22ffc, 0x2e1b2138, 0x5c26c926
.uword 0x90befffa, 0x23631e28, 0xa4506ceb, 0x32cb0d1b
.cstring "SHA512 block transform for C64x, CRYPTOGRAMS by <appro\@openssl.org>"
.align 4

print $code;
close STDOUT;

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* /opt/ws_local/PERMITS_SQL/1031101564_1595296426.38/0/openssl-fips-2-0-16-tar-gz/openssl-fips-2.0.16/crypto/sha/asm/sha512-c64x.pl

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1.569 lzo 2.10
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1.570 file 5.34

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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 $@ $<
%.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[ :]*\n*: /\1.o $@ : /g'" > $@; \n[-s $@ ] || rm -f $@"

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

1.571 grub 0.97

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

Attachments: Message as HTML
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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=20
--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.=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 reficense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

-- Nathan
=20

----------------------------------------------
Nathan Neulinger EMail: nneul@um...
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.
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> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it 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

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

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.

-------------------------------------
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/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.

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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 an offer, in accord with Subsection b above.)

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1.583 tar 1.27.1

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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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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
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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(aggc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.) Boost Software License - Version 1.0 - August 17th, 2003

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///

[#mpl]
# MPL Support, <boost/mp11 mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `\<boost/mp11 mpl.hpp\>`, when included, defines the
necessary support infrastructure for `\mpl_list` and `\std::tuple`
to be valid link:../../../../libs/mpl[MPL] sequences.

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1.588 xz 5.1.2 12alpha.el7

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

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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.

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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.
* 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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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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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
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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
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that the user who changes the contents of definitions files in the
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

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@c
@c %**start of header

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@c  @bye

1.594 e2fsprogs 1.42.9

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Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
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This package was put together by Yann Dirson <dirson@debian.org>,
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This package was added to the e2fsprogs debian source package by 
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003 

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

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Theodore Ts'o
23-June-2007

---------------------------------------------------------------------
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Gadi Oxman, August 1995

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