Open Source Used In ASA-RM 9.15.1

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1.2 yajl 2.1.0

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1.3 pcregrep 8.42

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PCRE LICENCE

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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1.4 libtirpc 1.0.3

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1.5 form 1.3.0

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1.6 libprotobuf-compiler

3.6.1+git0+48cb18e5c4

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Metadata-Version: 1.1
Name: protobuf
Version: 3.6.1
Summary: Protocol Buffers
Home-page: https://developers.google.com/protocol-buffers/
Author: protobuf@googlegroups.com
Author-email: protobuf@googlegroups.com
License: 3-Clause BSD License
Download-URL: https://github.com/google/protobuf/releases
Description: Protocol Buffers are Google's data interchange format
Platform: UNKNOWN
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4

Found in path(s):
* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/protobuf.egg-info/PKG-INFO
* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/PKG-INFO
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* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/__init__.py

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license='3-Clause BSD License',

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* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/descriptor_database.py
* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/descriptor.py
* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/internal/api_implementation.py
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* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/internal/api_implementation.cc
* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/message.cc
* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/descriptor_pool.h
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* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/extension_dict.h
* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/map_container.h
* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/descriptor_database.h
* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/message_factory.h
* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/descriptor.h
* /opt/ cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/descriptor_containers.h
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* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/message_factory.cc
* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/internal/python_protobuf.cc
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* /opt/cola/permits/1089333346_1602701683.17/0/protobuf-3-6-1-1-tar-gz/protobuf-
1.7 libjzmq 3.1.0

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1.8 free-type 1.0

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2006-Jan-27

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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>,
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$($SHELL) -ec '$(GEN_DEPS.c) $< \n
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## Versioned libraries rules

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

## 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

### expat 2.2.7

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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
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- analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt
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- analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

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- analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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

Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Version: 2.5

Status: Maintenance Review

Release: August 11, 2005

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Version: 2.5

Status: Maintenance Review

Release: August 11, 2005

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Version: 2.5
Status: FCS
Release: August 11, 2005
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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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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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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.

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

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

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1.22 libcroco 0.6.12

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

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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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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.

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

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

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

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

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

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

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

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

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

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1.27 msmtp 1.6.6

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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
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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* 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
3a0982da308228d796df35f98d787c5c5ff2bb5b6.
Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.31 libcgroup 0.41
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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.

- Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
- Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
<li>Open Source Used In ASA-RM 9.15.1</li>

- Bernd Altmeier <mailto:altmeier@atlash.de> hopf Elektronik serial line and PCI-bus devices
- Viraj Bais <mailto:vbais@mailman1.intel.com> and Clayton Kirkwood <mailto:kirkwood@striderInt.com> port to WindowsNT 3.5
- Michael Barone <mailto:michael.barone@lmco.com> GPSVME fixes
- Karl Berry <mailto:karl@owl.HQ.ileaf.com> syslog to file option
- Greg Brackley <mailto:greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
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- Nelson B Bolyard <mailto:nelson@bolyard.me> update and complete broadcast and crypto features in snntp
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Frank Kardel <a href="mailto:%20kardel%20%28at%20ntp%20%20%28dot%20%20org">kardel (at) ntp (dot) org</a> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</li>

Johannes Maximilian Kuehn <a href="mailto:kuehn@ntp.org">kuehn@ntp.org</a> Rewrote <tt>snntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>

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

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

version = `eval VERSION=`\;sed -e 's/\[^/\]+/\1' -e 's/\[^/\]+/\2' < ../sntp/m4/version.m4`" 
[ -z "\$\{VERSION\}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = "
/*
 * HMS: man pages already have this, and texi pages can use the
 * values in sntp/include/version.texi .
 */
// doc-sub = {
//     sub-name = version;
//     sub-text = 's/#VERSION#/<<version>>/g';
// };
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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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2. [2] Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3] Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6] Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12] Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13] Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15] Casey Crelin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux
[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
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[29] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
[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
[35] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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[44] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
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[46] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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Mesa 3-D graphics library

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---
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## jopt-simple v5.0.4

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Written by: Philip Hazel
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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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1.59 libfribidi 1.0.5

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Version 2.1, February 1999

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

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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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Whether this is true is especially significant if the work can be
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Ty Coon, President of Vice

That's all there is to it!

1.60 zeromq 4.0.4  
1.60.1 Available under license:  
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 Version 3, 29 June 2007

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1.61 stunnel 5.49

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The original code is FirewallControl.pas, released April 16, 2007.

The initial developer of the original code is Rainer Budde (http://www.speed-soft.de).

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Version 3, 29 June 2007

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1.67 fluent-hc 4.3.1

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### 1.76 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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1.77 tar 1.30

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I would like to thank following people for helping to bring RRDtool into existence.

Alan Lichty <alan_lichty with eli.net>
Alan Milligan <alan.milligan@last-bastion.net> Python bindings
Alex van den Bogaerdt <alex with ergens.op.net> (rrd_resize.c and more)
Amos Shapiro <amos with gezernet.co.il>
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Bernhard Fischer <rep dot dot dot nop with gmail.com> MMAP rewrite
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Kai Siering <kai.siering with mediaways.net>
Kevin Brintrall <kbrint with rufus.net> bugfixes in and additions to rrdcached, including journaling support
Larry Leszcynski <larry with furph.com>
Mark Plaksin <mark.sierling with usg.edu> rrd_graph_v
Matt Chambers <matt chambers with vanderbilt.edu> --full-size-mode for rrdgraph
Melchior Rabe <rrdtool with rra.de> -- legend position patch
McCreary mccreary with xoanon.colorado.edu
Mike Mitchell <mcm with unix.sas.com>
Mike Slifcak <slif with bellsouth.net> many rrdtool-1.1.x fixes
Oleg Cherevko <olwi with icyb.kiev.ua>
Otmar Lendl <O.Lendl with Austria. EU.net> (lots of bugfixes)
Pablo Sanchez <pablo at freebsd.org> (CDF vs VDEF)
Patrick Cherry <patrick with bytemark.co.uk>
Paul Joslin <Paul.Joslin with acm.org>
Peter Speck <speck with vitality.dk> eps/svg/pdf file format code in rrdtool-1.x
Peter Stamfest <peter with stamfest.at> initial multi-thread support
Peter Breitenlohner <peter with mppmu.mpg.de> many patches for rrdtool 1.2.x
Philippe.Simonet <philippe.simonet with swisscom.com> (NT porting)
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Roman Hoogant < rhogant with ee.ethz.ch>
Ronan Mullally < Orion in 4L.ie>
Roger J. Meier <roger.meier in terreactive.ch> (arbitrary linelength in rrdtool)
1.88 websocketpp 0.8.1

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****** Base 64 Library (base64/base64.hpp) *****
base64.hpp is a repackaging of the base64.cpp and base64.h files into a
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base64.cpp and base64.h

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L. Peter Deutsch
ghost@aladdin.com

****** UTF8 Validation logic (utf8_validation.hpp) ******
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Upstream-Contact: Doug Ledford <dledford@redhat.com>, Leon Romanovsky <Leon@kernel.org>
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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/Context.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/iter/IterableAttributeAxis.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/DefaultNameStep.java
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When we speak of free software, we are referring to freedom, 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 or use pieces of it in new free programs; and that you know you can do these things.

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

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

@heading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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Thus, it is not the intent of this section to claim rights or contest your right 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 Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) 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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Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

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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.)
@end enumerate

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
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control compilation and installation of the executable. However, as a
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form) with the major components (compiler, kernel, and so on) of the
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@end enumerate

@if tex
@end iftex
@end center

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

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

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{yyyy}  @var{name of author}
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 2 of the License, or
(at your option) any later version.

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along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301, USA.
@end smallexample

Also add information on how to contact you by electronic and paper mail.
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
@end smallexample

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

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

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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Version 2.1, February 1999

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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.

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.

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

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

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

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

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

HISTORY -

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

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridilig (Regis.Cridilig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
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specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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# MPL Support, `<boost/mp11 mpl.hpp>`

The header `<boost/mp11 mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid.

NOTE: `<mpl.hpp>` is not included by `<boost/mp11.hpp>`.

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*/

1.101 cracklib 2.9.5

1.101.1 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

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

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
> > it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isnt the
> > place of a
> > library to dictact to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

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

Cheers,

Nalin

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

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

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

-mike

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

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

yes. go for it. thanks++

-a

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

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:

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

> yes. go for it. thanks++

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

-mike

----------

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL FROM ARTISTIC.
----------

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

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.
The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 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 l1cOCX-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: <1b1b3fd80710010908k1l1dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k1l1dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFEB6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21
> 
> -------- Forwarded message --------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> 
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.
>
> The license for my code in the Cracklib distribution is henceforth GPL.
>
> Happy now? :-(
>
> -a

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Version 2.1, February 1999

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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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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a
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^L

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1.102 tomcat-connectors 1.2.46

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From native/common/ap_snprintf.c:
* cvt - IEEE floating point formatting routines.
* Derived from UNIX V7, Copyright(C) Caldera International Inc.
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PGM

CRTCMOD MODULE(MOD_JK/MOD_JK) +
SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('mod_jk.c') +
OPTIMIZE(40) +
LOCALETYPQ(*LOCALEUTF) +
SYSIFC0PT(*IFSIO) +
LANGV(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp_common.c') +
OPTIMIZE(40) +
LOCALETYPQ(*LOCALEUTF) +
SYSIFC0PT(*IFSIO) +
LANGV(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp12_worker.c') +
OPTIMIZE(40) +
LOCALETYPQ(*LOCALEUTF) +
SYSIFC0PT(*IFSIO) +
LANGV(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
'_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '.REENTRANT') +
TEXT('jk_ajp13.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '.REENTRANT') +
TEXT('jk_ajp13_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '.REENTRANT') +
TEXT('jk_ajp14.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '.REENTRANT') +
TEXT('jk_ajp14_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520 'USE_APACHE_MD5' 'REENTRANT' +
   'USE_SO_RCVTIMEO' + 'USE_SO_SNDTIMEO' ) +
TEXT('jk_connect.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANG_LVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520 'USE_APACHE_MD5' 'REENTRANT' ) +
TEXT('jk_context.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANG_LVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520 'USE_APACHE_MD5' 'REENTRANT' ) +
TEXT('jk_lb_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANG_LVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520 'USE_APACHE_MD5' 'REENTRANT' ) +
TEXT('jk_map.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +

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SYSIFCOPT(*IFSIO) +
LANGVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MD5) +
SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_md5.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUFS) +
SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_msg_buff.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_pool.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SOCKBUF) +
SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
'XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_sockbuf.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALUTF) +
SYSIFOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
    'XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_uri_worker_map.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALUTF) +
SYSIFOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
    'XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_url.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALUTF) +
SYSIFOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
    'XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_util.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALUTF) +
SYSIFOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
CRTCMOD MODULE(MOD_JK/JK_WORKER) +
SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_status.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_shm.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
MODULE(MOD_JK/MOD_JK +
   MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
   MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
   MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
   MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
   MOD_JK/JK_LB_WORK +
   MOD_JK/JK_MAP MOD_JK/JK_MD5 +

MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
MOD_JK/JK_URL +
MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
EXPORT(*SRCFILE) +
BNDDIR() +
TGTRLS(*CURRENT) +
SRCFILE(MOD_JK/QSRVSR) +
SRCMBR(MOD_JK) +
USRPRF(*USER) +
BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRMCORE +
QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRDDBM) +
TEXT('Apache Tomcat mod_jk connector module')
ENDPGM

PGM

CRTCMOD MODULE(MOD_JK/MOD_JK) +
SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
DEFINE('AS400' 'HAVE_APR' 'XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('mod_jk.c') +
OPTIMIZE(40) +
LOCALETYPED(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLEV(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
DEFINE('AS400' 'HAVE_APR' 'XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp_common.c') +
OPTIMIZE(40) +
LOCALETYPED(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLEV(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +
DEFINE('AS400' 'HAVE_APR' 'XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp12_worker.c') +
OPTIMIZE(40) +
LOCALETYPED(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
DEFINE('AS400' 'HAVE_APR' 'XOPEN_SOURCE=520' +
  'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp13.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
DEFINE('AS400' 'HAVE_APR' 'XOPEN_SOURCE=520' +
  'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp13_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
DEFINE('AS400' 'HAVE_APR' 'XOPEN_SOURCE=520' +
  'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp14.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
DEFINE('AS400' 'HAVE_APR' 'XOPEN_SOURCE=520' +
  'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp14_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MODU(MOD_JK/JK_CONNECT) +
SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +
DEFINE('AS400' 'HAVE_AP' 'XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT' 'USE_SO_RCVTIMEO' +
   'USE_SO_SNDTIMEO') +
TEXT('jk_connect.c') +
OPTIMIZE(40) +
LOCALETY(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MODU(MOD_JK/JK_CONTEXT) +
SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
DEFINE('AS400' 'HAVE_AP' 'XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_context.c') +
OPTIMIZE(40) +
LOCALETY(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MODU(MOD_JK/JK_LB_WORK) +
SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
DEFINE('AS400' 'HAVE_AP' 'XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_lb_worker.c') +
OPTIMIZE(40) +
LOCALETY(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MODU(MOD_JK/JK_MAP) +
SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
DEFINE('AS400' 'HAVE_AP' 'XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_map.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLST(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD (MOD_JK/JK_MD5) +
SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_md5.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLST(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD (MOD_JK/JK_MSG_BUF) +
SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_msg_buff.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLST(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD (MOD_JK/JK_POOL) +
SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_pool.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLST(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD (MOD_JK/JK_SOCKBUF) +
SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_sockbuf.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCLOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
SRCSSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_uri_worker_map.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCLOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
SRCSSTMF('/home/apache/jk/native/common/jk_url_c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_url.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCLOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
SRCSSTMF('/home/apache/jk/native/common/jk_util_c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_util.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCLOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_WORKER) +
SRCSSTMF('/home/apache/jk/native/common/jk_worker_c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APCHE_MD5' '_REENTRANT') +
TEXT('jk_status.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APCHE_MD5' '_REENTRANT') +
TEXT('jk_shm.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
MODULE(MOD_JK/MOD_JK +
   MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
   MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
   MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
   MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
   MOD_JK/JK_LB_WORK +
   MOD_JK/JK_MAP MOD_JK/JK_MD5 +
   MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
   MOD_JK/JK.SOCKBUFSIZE MOD_JK/JK_URL M +
   MOD_JK/JK_URL +
   MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
   MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
EXPORT(*SRCFILE) +
BNDDIR() +
TGTRLS(*CURRENT) +
SRCFILE(MOD_JK/QSRVSRC) +
SRCMBR(MOD_JK) +
USRPRF(*USER) +
BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
TEXT('Apache Tomcat mod_jk connector module')
ENDPGM
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# limitations under the License.
!IFDEF APACHE20_HOME
APR_LIB=libapr.lib
APU_LIB=libaprutil.lib
OUTDIR=.\Release20
INTDIR=.\Release20
APACHE2_HOME=$(APACHE20_HOME)
!ELSE
!IFDEF APACHE24_HOME
APACHE2_HOME=$(APACHE24_HOME)
OUTDIR=.\Release24
INTDIR=.\Release24
!ELSE
!IFDEF APACHE22_HOME
APACHE2_HOME=$(APACHE22_HOME)
OUTDIR=.\Release22
INTDIR=.\Release22
!ENDIF
!ENDIF
APR_LIB=libapr-1.lib
APU_LIB=libaprutil-1.lib
!ENDIF
!IFNDEF APACHE2_HOME
!ERROR Missing APACHE2_HOME environment variable.
!ENDIF
TARGET=mod_jk$(SO_VERSION)$(SO_HTTPD_VERSION)
CPP=cl.exe

Open Source Used In ASA-RM 9.15.1 1534


MTL=midl.exe
RSC=rc.exe
ARCH=X86

ALL : "$\{OUTDIR\}\$\{TARGET\}.so"

CLEAN :
-@erase "$\{INTDIR\}\jk.res"
-@erase "$\{INTDIR\}\jk_ajp12_worker.obj"
-@erase "$\{INTDIR\}\jk_ajp13.obj"
-@erase "$\{INTDIR\}\jk_ajp13_worker.obj"
-@erase "$\{INTDIR\}\jk_ajp14.obj"
-@erase "$\{INTDIR\}\jk_ajp14_worker.obj"
-@erase "$\{INTDIR\}\jk_ajp_common.obj"
-@erase "$\{INTDIR\}\jk_connect.obj"
-@erase "$\{INTDIR\}\jk_context.obj"
-@erase "$\{INTDIR\}\jk_lb_worker.obj"
-@erase "$\{INTDIR\}\jk_map.obj"
-@erase "$\{INTDIR\}\jk_md5.obj"
-@erase "$\{INTDIR\}\jk_msg_buff.obj"
-@erase "$\{INTDIR\}\jk_pool.obj"
-@erase "$\{INTDIR\}\jk_shm.obj"
-@erase "$\{INTDIR\}\jk_sockbuf.obj"
-@erase "$\{INTDIR\}\jk_status.obj"
-@erase "$\{INTDIR\}\jk_uri_worker_map.obj"
-@erase "$\{INTDIR\}\jk_url.obj"
-@erase "$\{INTDIR\}\jk_util.obj"
-@erase "$\{INTDIR\}\jk_worker.obj"
-@erase "$\{INTDIR\}\mod_jk.obj"
-@erase "$\{INTDIR\}\mod_jk_src.idb"
-@erase "$\{INTDIR\}\mod_jk_src.pdb"
-@erase "$\{OUTDIR\}\mod_jk.exp"
-@erase "$\{OUTDIR\}\mod_jk.lib"
-@erase "$\{OUTDIR\}\$\{TARGET\}.pdb"
-@erase "$\{OUTDIR\}\$\{TARGET\}.so"

"$\{OUTDIR\}" :
if not exist "$\{OUTDIR\}/$\{NULL\}" mkdir "$\{OUTDIR\}"

BSC32=bscmake.exe
BSC32_FLAGS=nologo /o"$\{OUTDIR\}\$\{TARGET\}.bsc"
BSC32_SBRS=\n
LINK32=link.exe
LINK32_FLAGS=libhttpd.lib $(APR_LIB) $(APU_LIB) kernel32.lib user32.lib advapi32.lib mswsock.lib
ws2_32.lib $(EXTRA_LIBS) /nologo /base:"0x6A6B0000" /subsystem:windows /dll /incremental:no
/pdb:"$\{OUTDIR\}\$\{TARGET\}.pdb" /debug /machine:$\{ARCH\} /out:"$\{OUTDIR\}\$\{TARGET\}.so"
LINK32_OBJS=
"$(INTDIR)\jk_ajp12_worker.obj" \
"$(INTDIR)\jk_ajp13.obj" \
"$(INTDIR)\jk_ajp13_worker.obj" \
"$(INTDIR)\jk_ajp14.obj" \
"$(INTDIR)\jk_ajp14_worker.obj" \
"$(INTDIR)\jk_ajp_common.obj" \
"$(INTDIR)\jk_connect.obj" \
"$(INTDIR)\jk_context.obj" \
"$(INTDIR)\jk_lb_worker.obj" \
"$(INTDIR)\jk_map.obj" \
"$(INTDIR)\jk_md5.obj" \
"$(INTDIR)\jk_msg_buff.obj" \
"$(INTDIR)\jk_pool.obj" \
"$(INTDIR)\jk_shm.obj" \
"$(INTDIR)\jk_sockbuf.obj" \
"$(INTDIR)\jk_status.obj" \
"$(INTDIR)\jk_uri_worker_map.obj" \
"$(INTDIR)\jk_url.obj" \
"$(INTDIR)\jk_util.obj" \
"$(INTDIR)\jk_worker.obj" \
"$(INTDIR)\jk.res" \
"$(INTDIR)\mod_jk.lib"

"$(OUTDIR)\$(TARGET).so" : "$\(OUTDIR\)$\(DEF_FILE\) $(LINK32_OBJS)
$(LINK32) @<<
$(LINK32_FLAGS) $(LINK32_OBJS)
<<
@if EXIST $(OUTDIR)\$(TARGET).manifest 
mt -nologo -manifest $(OUTDIR)\$(TARGET).manifest -outputresource:$(OUTDIR)\$(TARGET).so;2
CPP_PROJ=-nologo -MD -W3 -O2 -Ob2 -Oy -Zi -EHsc /I "..\common" /I "$\(APACHE2_HOME\)\include" /D "NDEBUG" /D "WIN32" /D "_WINDOWS" $(CFLAGS) /Fo"$(INTDIR)\" /Fd"$(INTDIR)\mod_jk_src" /FD /c
.c{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<
.cpp{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<
.cxx{$(INTDIR)}.obj::
  $(CPP) @<<
$(CPP_PROJ) $<
<<
.c {$(INTDIR)}.sbr:
 $(CPP) @<<
 $(CPP_PROJ) $<
<<
.cpp {$(INTDIR)}.sbr:
 $(CPP) @<<
 $(CPP_PROJ) $<
<<
.cxx {$(INTDIR)}.sbr:
 $(CPP) @<<
 $(CPP_PROJ) $<
<<

MTL_PROJ=/nologo /D "NDEBUG" /mktyplib203 /win32
RSC_PROJ=/I 0x409 /fo"$(INTDIR)\jk.res" /i ".\common" /d BASENAME="mod_jk" /d "NDEBUG"

SOURCE=..\common\jk.rc

"$(INTDIR)\jk.res" : $(SOURCE) "$(INTDIR)"
$(RSC) $(RSC_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp12_worker.c

"$(INTDIR)\jk_ajp12_worker.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp13.c

"$(INTDIR)\jk_ajp13.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp13_worker.c

"$(INTDIR)\jk_ajp13_worker.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp14.c

"$(INTDIR)\jk_ajp14.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_pool.c

"$(INTDIR)\jk_pool.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_shm.c

"$(INTDIR)\jk_shm.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_sockbuf.c

"$(INTDIR)\jk_sockbuf.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_status.c

"$(INTDIR)\jk_status.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_uri_worker_map.c

"$(INTDIR)\jk_uri_worker_map.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_url.c

"$(INTDIR)\jk_url.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_util.c

"$(INTDIR)\jk_util.obj" : $(SOURCE) "$INTDIR"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_worker.c

"$(INTDIR)\jk_worker.obj" : $(SOURCE) "$INTDIR"
\$(CPP) \$(CPP_PROJ) \$(SOURCE)

\$\{INTDIR\}mod_jk.obj\$ = \$(SOURCE) \$(INTDIR)
\$(CPP) \$(CPP_PROJ) \$(SOURCE)

PCRE LICENCE

Please see the file LICENCE in the PCRE distribution for licensing details.

End

1.103 perl 5.24.4

1.103.1 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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The End

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>,'
- "Development questions, bug reports, and patches should be sent to the
  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

=head1 NAME

==cut

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

    $year;
}
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Version 1, February 1989

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

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

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Version 1, February 1989

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1.104 openssl 1.0.2s

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1.106 sudo 1.8.23

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Ackeret, Matt
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Bellis, Ray
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Beverly, Jamie
Boardman, Spider
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Bowes, Keith
Boyce, Keith Garry
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The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
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1.108 pkgtools 9.0
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#
# Wed, 27 Apr 1994 00:06:50 -0700 (PDT)
# Optimization by David Hinds.

SOURCE_DIR=/var/log/mount
ASK="tagfiles"
if [ -L /bin/chmod -a -L /bin/chown ]; then # probably on the bootdisk using busybox
TARGET_DIR=/mnt
TMP=/mnt/var/log/setup/tmp
if mount | grep "on /mnt" 1> /dev/null 2>&1 ; then # good
  true
else # bad
  echo
  echo "You can't run pkgtool from the rootdisk until you've mounted your Linux"
  echo "partitions beneath /mnt. Here are some examples of this:"
  echo "If your root partition is /dev/hda1, and is using ext2fs, you would type:"
  echo "mount /dev/hda1 /mnt -t ext2"
  echo "Then, supposing your /usr partition is /dev/hda2, you must do this:"
  echo "mount /dev/hda2 /mnt/usr -t ext2"
  echo

echo "Please mount your Linux partitions and then run pkgtool again."

echo
exit

else

TARGET_DIR=/
TMP=/var/log/setup/tmp
fi

if [ ! -d $TMP ]; then
mkdir -p $TMP
chmod 700 $TMP
fi

ADM_DIR=$TARGET_DIR/var/log
LOG=$TMP/PKGTOOL.REMOVED

# remove whitespace
crunch() {
    while read FOO ; do
        echo $FOO
    done
}

package_name() {

    STRING='basename $1 .tgz'

    # Check for old style package name with one segment:
    if [ "'echo $STRING | cut -f 1 -d -'" = "'echo $STRING | cut -f 2 -d -'" ]; then
        echo $STRING
    else # has more than one dash delimited segment
        # Count number of segments:
        INDEX=1
        while [ ! "'echo $STRING | cut -f $INDEX -d -'" = "" ]; do
            INDEX=expr $INDEX + 1
        done
        INDEX=expr $INDEX - 1 # don't include the null value
        # If we don't have four segments, return the old-style (or out of spec) package name:
        if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
            echo $STRING
        else # we have four or more segments, so we'll consider this a new-style name:
            NAME=expr $INDEX - 3
            NAME="'echo $STRING | cut -f 1-$NAME -d -'"
            echo $NAME
            # cruft for later ;)
            #VER=expr $INDEX - 2
            #VER="'echo $STRING | cut -f $VER -d -'"
            #ARCH=expr $INDEX - 1
            #ARCH="'echo $STRING | cut -f $ARCH -d -'"
            #BUILD="'echo $STRING | cut -f $INDEX -d -'"
        fi
    fi

remove_packages() {
    for pkg_name in $*
    do
        if [-r $ADM_DIR/packages/$pkg_name ]; then
            dialog --title "PACKAGE REMOVAL IN PROGRESS" --cr-wrap --infobox
            "Removing package $pkg_name.\n\nSince each file must be checked against the contents of every other installed package to avoid wiping out areas of overlap, this process can take quite some time. If you'd like to watch the progress, flip over to another virtual console and type:\n\ntail -f $TMP/PKGTOOL.REMOVED\n" 13 60
        fi
        export ROOT=$TARGET_DIR
        removepkg $pkg_name >> $LOG 2> /dev/null
        else
echo "No such package: $pkg_name. Can't remove." >> $LOG
    fi
done
}

# Here, we read the list of arguments passed to the pkgtool script.
if [ $# -gt 0 ]; then # there are arguments to the command
    while [ $# -gt 0 ]; do
        case "$1" in
            "-sets")
                DISK_SETS=`echo $2 | tr "[A-Z]" "[a-z]"` ; shift 2 ;;
            "-source Mounted")
                SOURCE_MOUNTED="always" ; shift 1 ;;
            "-ignore_tagfiles")
                ASK="never" ; shift 1 ;;
            "-tagfile")
                USETAG=$2 ; shift 2 ;;
            "-source_dir")
                SOURCE_DIR=$2 ; shift 2 ;;
            "-target_dir")
                TARGET_DIR=$2
                ADM_DIR=$TARGET_DIR/var/log
                shift 2 ;;
            "-source_device")
                SOURCE_DEVICE=$2 ; shift 2 ;;
        esac
        done
    else # there were no arguments, so we'll get the needed information from the # user and then go on.

CMD_START="true"
rm -f $TMP/SeT*
while [ 0 ]; do
dialog --title "Slackware Package Tool (pkgtool version 9.0.0)" \
--menu "Welcome to the Slackware package tool.\n\nWhich option would you like?\n\n"Current" "Install packages from the current directory" \
"Other" "Install packages from some other directory" \
"Floppy" "Install packages from floppy disks" \
"Remove" "Remove packages that are currently installed" \
"View" "View the list of files contained in a package" \
"Setup" "Choose Slackware installation scripts to run again" \
"Exit" "Exit Pkgtool" 2> $TMP/reply
if [ ! $? = 0 ]; then
  rm -f $TMP/reply
dialog --clear
  exit
fi
REPLY="cat $TMP/reply"
rm -f $TMP/reply
if [ "$REPLY" = "Exit" ]; then
dialog --clear
  exit
  fi
if [ "$REPLY" = "Setup" ]; then
  echo 'dialog --title "SELECT SYSTEM SETUP SCRIPTS" --item-help --checklist \"Please use the spacebar to select the setup scripts to run. Hit enter when you \nare done selecting to run the scripts." 17 70 9 > $TMP/setupscr
  for script in $ADM_DIR/setup/setup.* ; do
    BLURB='grep '#BLURB' $script | cut -b8-'
    if [ "$BLURB" = "" ]; then
      BLURB="""
    fi
    echo " "'basename $script | cut -f2- -d .'" $BLURB "no" $BLURB " " >> $TMP/setupscr
  done
  . $TMP/setupscr
  if [ ! "cat $TMP/return" = "" ]; then
    for script in 'cat $TMP/return' ; do
      scrpath=$ADM_DIR/setup/setup.'echo $script | tr -d "'
      rootdevice='mount | head -1 | cut -f 1 -d \'
      ( COLOR=on ; cd $TARGET_DIR ; . $scrpath / $rootdevice )
    done
    fi
  fi
  rm -f $TMP/return $TMP/setupscr
  continue
fi
REPLY="cat $TMP/reply"
rm -f $TMP/reply
if [ ! $? = 0 ]; then
  rm -f $TMP/reply
dialog --clear
  exit
fi

if [ "$SREPLY" = "View" ]; then
    DEFITEM=""
    export DEFITEM
    dialog --title "SCANNING" --infobox "Please wait while Pkgtool scans your system to determine which packages you have installed and prepares a list for you." 0 0
    echo 'dialog $DEFITEM --item-help --menu "Please select the package you wish to view." 17 68 10 ' > $TMP/viewscr
    for name in 'ls $ADM_DIR/packages' ; do
        pkg_name='package_name $name'
        BLURB='"sed -n "/$pkg_name:/{s/\"/\"/g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"' # Let's have some backward compatibility with the interim beta (for now):
        if [ "$BLURB" = "" ]; then
            BLURB='"sed -n "/$name:/{s/\"/\"/g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"'
        fi
        echo " "$name" "$BLURB" "View information about package $name" " >> $TMP/viewscr
    done
    echo "2> $TMP/return" >> $TMP/viewscr
    while [ 0 ]; do
        . $TMP/viewscr
        if [ ! "cat $TMP/return" = "" ]; then
            DEFITEM="--default-item 'cat $TMP/return"
        fi
    done
    rm -f $TMP/return $TMP/viewscr $TMP/tmpmsg
    # This will clean up after most defective packages:
    chmod 755 /
    chmod 1777 /tmp
    continue
    fi
    if [ "$SREPLY" = "Remove" ]; then
        dialog --title "SCANNING" --infobox "Please wait while Pkgtool scans your system to determine which packages you have installed and prepares a list for you." 0 0
        # end section
        cat << EOF > $TMP/rmscript
            dialog --title "SELECT PACKAGES TO REMOVE" --item-help --checklist "Please select the packages you wish to Remove. Use the spacebar to select packages to delete, and the UP/DOWN arrow keys to scroll up and down through the entire list." 20 75 11 EOF
        for name in 'ls $ADM_DIR/packages' ; do

```
pkg_name='package_name $name'
BLURB=""sed -n '/pkg_name:/{s/\"//g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"
# Let's have some backward compatibility with the interim beta (for now):
if [ "$BLURB" = "" ]; then
  BLURB=""sed -n '/$name:/{s/\"//g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"
fi
echo " "$name" "$BLURB" off "Select/Unselect removing package $name" \\
" >> $TMP/rmscript
done
echo "2> $TMP/return" >> $TMP/rmscript
if -L $LOG -o -r $LOG ]; then
  rm -f $LOG
fi
cat /dev/null > $LOG
chmod 600 $LOG
chmod 700 $TMP/rmscript
export ADM_DIR;
$TMP/rmscript
remove_packages 'cat $TMP/return | tr -d "\042"'
if [ ""cat $TMP/PKGTOOL.REMOVED" = "" ]; then
  rm -f $TMP/PKGTOOL.REMOVED
dialog --title "NO PACKAGES REMOVED" --msgbox "Hit OK to return \n
to the main menu." 5 40
else
dialog --title "PACKAGE REMOVAL COMPLETE" --msgbox "The packages have \nbeen removed. A complete log of the files that were removed has been created \nin $TMP: PKGTOOL.REMOVED." 0 0
fi
rm -f $TMP/rmscript $TMP/return $TMP/tmpmsg $TMP/SeT*
chmod 755 /
chmod 1777 /tmp
# No, return to the main menu:
# exit
elif [ "$REPLY" = "Floppy" ]; then
dialog --title "SELECT FLOPPY DRIVE" --menu "Which floppy drive would \nyou like to install from?" 11 70
"/dev/fd0u1440" "1.44 MB first floppy drive"
"/dev/fd1u1440" "1.44 MB second floppy drive"
"/dev/fd0h1200" "1.2 MB first floppy drive"
"/dev/fd1h1200" "1.2 MB second floppy drive" 2> $TMP/wdrive
if [ $? = 1 ]; then
dialog --clear
exit
fi
SOURCEDEVICE='"cat $TMP/wdrive"
rm -f $TMP/wdrive
cat << EOF > $TMP/tmpmsg
EOF
Open Source Used In ASA-RM 9.15.1 1595
Enter the names of any disk sets you would like to install.
Separate the sets with a space, like this: a b o i x

To install packages from one disk, hit [enter] without typing anything.

EOF
dialog --title "SOFTWARE SELECTION" --inputbox "cat $TMP/tmpmsg" 13 70 2> $TMP/sets
DISK_SETS="cat $TMP/sets"
rm -f $TMP/sets
if [ "$DISK_SETS" = "" ]; then
    DISK_SETS="disk"
else
    DISK_SETS='echo $DISK_SETS | sed 's/ /#/g'
    DISK_SETS="#$DISK_SETS"
fi
break;
elif [ "$REPLY" = "Other" ]; then
dialog --title "SELECT SOURCE DIRECTORY" --inputbox "Please enter the name of the directory that you wish to install packages from:" 10 50 2> $TMP/pkgdir
if [ $? = 1 ]; then
    rm -f $TMP/pkgdir $TMP/*T*
    dialog --clear
    exit
fi
SOURCE_DIR="cat $TMP/pkgdir"
SOURCE_MOUNTED="always"
DISK_SETS="disk"
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
rm -f $TMP/pkgdir
if [ ! -d $SOURCE_DIR ]; then
    dialog --title "DIRECTORY NOT FOUND" --msgbox "The directory you want to install from ($SOURCE_DIR) does not seem to exist. Please check the directory and then try again." --clear $SOURCE_DIR\does not seem to exist. Please check the directory and then try again."\10 50
    dialog --clear
    exit
fi
break;
else # installing from current directory
SOURCE_MOUNTED="always"
SOURCE_DIR="$PWD"
DISK_SETS="disk"
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
break;
Your source device cannot be accessed properly.

Please be sure that it is mounted on $SOURCE_DIR, and that the Slackware disks are found in subdirectories of $SOURCE_DIR like specified.

EOF

dialog --title "MOUNT ERROR" --msgbox "cat $TMP/tmpmsg" 11 67
rm -f $TMP/tmpmsg
exit 1;
fi
return 0;
fi
dialog --title "INSERT DISK" --menu "Please insert disk $1 and \ press ENTER to continue." \\ 11 50 3 \\ "Continue" "Continue with the installation" \\ "Skip" "Skip the current disk series" \\ "Quit" "Abort the installation process" 2> $TMP/reply
if [ ! $? = 0 ]; then
  REPLY="Quit"
else
  REPLY="cat $TMP/reply"
fi
rm -f $TMP/reply
if [ "$REPLY" = "Skip" ]; then
  return 1;
fi
if [ "$REPLY" = "Quit" ]; then
dialog --title "ABORTING" --msgbox "Aborting software installation." 5 50
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
exit 1;
fi;
# Old line:
# mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
# New ones: (thanks to Andy Schwierskott!)
go_on=y
not_successfull_mounted=1
while [ "$go_on" = y -a "$not_successfull_mounted" = 1 ]; do
  mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
  not_successfull_mounted=$?
  if [ "$not_successfull_mounted" = 1 ]; then
    mount_answer=x
    while [ "$mount_answer" != "y" -a "$mount_answer" != "q" ]; do
      dialog --title "MOUNT PROBLEM" --menu "Media was not successfully mounted! Do you want to retry, or quit?" 10 60 2 "Yes" "Try to mount the disk again" "No" "No, abort." 2>&1 $TMP/mntans
      mount_answer="'cat $TMP/mntans''"
      rm -f $TMP/mntans
      if [ "$mount_answer" = "Yes" ]; then
        mount_answer="y"
      else
        mount_answer="q"
      fi
    done
  go_on=$mount_answer
  fi
done
  test $not_successfull_mounted = 0
}

umount_the_source() {
  if [ ! "$SOURCE_MOUNTED" = "always" ]; then
    umount $SOURCE_DEVICE 1>/dev/null 2>&1
    fi;
}

install_disk() {
  mount_the_source $1
  if [ $? = 1 ]; then
    umount_the_source;
    return 1;
  fi
  CURRENT_DISK_NAME="$1"
  PACKAGE_DIR=$SOURCE_DIR
  if [ "$SOURCE_MOUNTED" = "always" -a "$DISK_SETS" = "disk" ]; then
    PACKAGE_DIR=$PACKAGE_DIR/$1
  fi
# If this directory is missing or contains no *.tgz files, bail.
if [ ! -d $PACKAGE_DIR ]; then
    return 1
fi
if ls $PACKAGE_DIR/*.tgz 1> /dev/null 2> /dev/null ; then
    true
else
    return 1
fi

# look for tagfile for this series and copy into $TMP/tagfile
# touch $TMP/tagfile
if [ ! "$DISK_SETS" = "disk" ]; then
    if [ -r $TMP/SeTtagext ]; then
        if [ -r $PACKAGE_DIR/tagfile ]; then
            cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
        else
            if [ -r $PACKAGE_DIR/tagfile ]; then
                cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
            fi
        fi
    fi
    elif [ -r $TMP/SeTtagpath ]; then
        custom_path='cat $TMP/SeTtagpath'
        short_path='basename $PACKAGE_DIR'
        # If tagfile exists at the specified custom path, copy it over.
        if [ -r $custom_path/$short_path/tagfile ]; then
            cat $custom_path/$short_path/tagfile >> $TMP/tagfile
        else # well, I guess we'll use the default one then.
            if [ -r $PACKAGE_DIR/tagfile ]; then
                cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
            fi
        fi
    fi

# Do we need to follow a custom path to the tagfiles?
elif [ -r $PACKAGE_DIR/tagfile ]; then
    cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
else # well, I guess we'll use the default one then.
    if [ -r $PACKAGE_DIR/tagfile ]; then
        cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
    fi
    fi

# We seem to be testing for this too often... maybe this code should
# be optimized a little...
elif [ -r $PACKAGE_DIR/tagfile ]; then
    cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
fi
Execute menus if in QUICK mode:

if [-r $TMP/SeTQUICK -a -r $PACKAGE_DIR/maketag ]; then
  if [ ! "$MAKETAG" = "" -a -r $PACKAGE_DIR/$MAKETAG ]; then # use alternate maketag
    sh $PACKAGE_DIR/$MAKETAG
  else
    sh $PACKAGE_DIR/maketag
  fi
if [-r $TMP/SeTnewtag ]; then
  mv $TMP/SeTnewtag $TMP/tagfile
fi
fi

Protect tagfile from hacker attack:

if [-r $TMP/tagfile ]; then
  chmod 600 $TMP/tagfile
fi
fi # ! "$DISK_SETS" = "disk"

It's possible that the tagfile was specified on the command line. If that's
the case, then we'll just override whatever we figured out up above.
if [ ! "$USETAG" = "" ]; then
  cat $USETAG > $TMP/tagfile
fi

If there's a catalog file present, use it to check for missing files.
If not, forget about that and install whatever's there.
if [ "$1" = "single_disk" -o -r $PACKAGE_DIR/disk$1 -o -r $PACKAGE_DIR/package-list.txt ]; then
  if -r $PACKAGE_DIR/package-list.txt ]; then
    CATALOG_FILE=$PACKAGE_DIR/package-list.txt
  else
    CATALOG_FILE=`basename $PACKAGE_DIR/disk*``;
  fi
if [-r $PACKAGE_DIR/$CATALOG_FILE -a ! -d $PACKAGE_DIR/$CATALOG_FILE ]; then
  if grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE 1> /dev/null 2>&1 ; then
    # First we check for missing packages...
    for PKGT in `grep "^CONTENTS:" $PACKAGE_DIR/$CATALOG_FILE | cut -f2- -d : 2> /dev/null` ; do
      # This is not a perfect test. (say emacs is missing but emacs-nox is not)
      if ls $PACKAGE_DIR/$PKGT*.tgz 1> /dev/null 2> /dev/null ; then
        true
      else
        cat << EOF > $TMP/tmpmsg
          WARNING!!!

EOF
        fi
      fi
    done
  fi
fi

WARNING!!!
While looking through your index file ($CATALOG_FILE), I noticed that you might be missing a package:

$PKGTEST:\*\*\*\*.tgz

that is supposed to be on this disk (disk $1). You may go on with the installation if you wish, but if this is a crucial file I'm making no promises that your machine will boot.

EOF

dialog --title "FILE MISSING FROM YOUR DISK" --msgbox "cat $TMP/tmpmsg" 17 67
fi
done # checking for missing packages
# Now we test for extra packages:
ALLOWED="grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE | cut -b10- 2> /dev/null"
for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
    BASE="basename $PACKAGE_FILENAME .tgz"
    BASE="package_name $BASE"
    if echo $ALLOWED | grep $BASE 1> /dev/null 2>&1 ; then
        true
    else
        cat << EOF > $TMP/tmpmsg
WARNING!!!
While looking through your index file ($CATALOG_FILE), I noticed that you have this extra package:

($BASE.tgz)

that I don't recognize. Please be sure this package is really supposed to be here, and is not left over from an old version of Slackware. Sometimes this can happen at the archive sites.

EOF

dialog --title "EXTRA FILE FOUND ON YOUR DISK" \\--msgbox "cat $TMP/tmpmsg" 17 67
rm -f $TMP/tmpmsg
fi
done
fi
fi
fi # check for missingextra packages
# Install the packages:
for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
  if [ "$PACKAGE_FILENAME" = "$PACKAGE_DIR/*.tgz" ]; then
    continue;
  fi
  if [ "$ASK" = "never" ]; then # install the package
    installpkg -root $TARGET_DIR -infobox -tagfile $TMP/tagfile $PACKAGE_FILENAME
    ERROR=$?
  elif [ "$ASK" = "tagfiles" ]; then
    installpkg -root $TARGET_DIR -menu -tagfile $TMP/tagfile $PACKAGE_FILENAME
    ERROR=$?
  else # ASK should be = always here, and that's how we'll treat it
    installpkg -root $TARGET_DIR -menu -ask -tagfile $TMP/tagfile $PACKAGE_FILENAME
    ERROR=$?
  fi
# Check for abort:
if [ "$ERROR" = "99" ]; then
  umount_the_source;
  chmod 755 $TARGET_DIR
  chmod 1777 $TARGET_DIR/tmp
  exit 1;
fi
done
OUTTAHERE="false"
if [ -r $PACKAGE_DIR/install.end ]; then
  OUTTAHERE="true"
fi
umount_the_source;
if [ "$OUTTAHERE" = "true" ]; then
  return 1;
fi
}

install_disk_set() { # accepts one argument: the series name in lowercase.
  SERIES_NAME=$1
  CURRENT_DISK_NUMBER="1";
  while [ 0 ]; do
    # Don't start numbering the directories until 2:
    if [ $CURRENT_DISK_NUMBER = 1 ]; then
      DISKTOINSTALL=$SERIES_NAME
    else
      DISKTOINSTALL=$SERIES_NAME$CURRENT_DISK_NUMBER
    fi
    install_disk $DISKTOINSTALL
    if [ ! $? = 0 ]; then # install.end was found, or the user chose
      # to quit installing packages.
      return 0;
    fi
  }
CURRENT_DISK_NUMBER='expr $CURRENT_DISK_NUMBER + 1'
done;
}

# /* main */
if [ "$DISK_SETS" = "disk" ]; then
install_disk single_disk;
ASK="always"
else
touch $TMP/tagfile
chmod 600 $TMP/tagfile
if echo $DISK_SETS | grep "^#a#" 1> /dev/null 2>&1; then
A_IS_NEEDED="true"
else
A_IS_NEEDED="false"
fi
while [ 0 ];
do
while [ 0 ]; # strip leading #'s
do
if [ "echo $DISK_SETS | cut -b1" = "#" ]; then
DISK_SETS="echo $DISK_SETS | cut -b2-"
else
break;
fi
done
if [ "$A_IS_NEEDED" = "true" ]; then
cat << EOF > $TMP/tmpmsg
--- Installing package series ==a==
EOF
dialog --infobox "cat $TMP/tmpmsg" 5 45
sleep 1
rm -f $TMP/tmpmsg
install_disk_set a;
A_IS_NEEDED="false"
fi
count="1"
if [ "" echo $DISK_SETS | cut -b$count" = "" ]; then
break; # we be done here :^)
else
count="2"
while [ 0 ]; do
if [ "" echo $DISK_SETS | cut -b$count" = "" -o "" echo $DISK_SETS | cut -b$count" = "#" ]; then
count="expr $count - 1"
break;
else
EO
count="expr $count + 1"
fi
done
fi
diskset="echo $DISK_SETS | cut -b1-$count"
count="expr $count + 1"
DISK_SETS="echo $DISK_SETS | cut -b$count-"
if [ "$diskset" = "a" ]; then
    continue; # we expect this to be done elsewhere
fi
cat << EOF > $TMP/tmpmsg
Installing package series ==>$diskset<==
EOF
dialog --infobox "cat $TMP/tmpmsg" 5 45
sleep 1
rm -f $TMP/tmpmsg
install_disk_set $diskset;
done
fi

if [ "$DISK_SETS" = "disk" -o "$CMD_START" = "true" ]; then
    if [-r $TMP/tagfile ]; then
        rm $TMP/tagfile
    fi
    dialog --clear
    fi
fi
chmod 755 $TARGET_DIR $TARGET_DIR/var $TARGET_DIR/usr
chmod 1777 $TARGET_DIR/tmp

Written by John Gilmore and Jay Fenlason
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# ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
# Wed Mar 18 15:32:33 CST 1998
# Patched to avoid possible symlink attacks in /tmp.

TAR=tar
if ! "$? = 0" ]; then
  TAR=tar
fi
if ! "LC_MESSAGES=C $TAR --version" = "tar (GNU tar) 1.13
Written by John Gilmore and Jay Fenlason." ]; then
echo "WARNING: pkgtools are unstable with tar > 1.13."
echo "You should provide a \"tar-1.13\" in your \$PATH."
sleep 5
fi
make_install_script() {
  COUNT=1
  LINE="\"sed -n \"$COUNT p\" $1\""
  while [ ! "$LINE" = "" ]; do
    LINKGOESIN="\"echo "$LINE" | cut -f 1 -d "\""
    LINKGOESIN="\"dirname $LINKGOESIN\"
    LINKNAMEIS="\"echo "$LINE" | cut -f 1 -d ' ""
    LINKNAMEIS="\"basename "$LINKNAMEIS\"
    LINKPOINTSTO="\"echo "$LINE" | cut -f 3 -d ' ""
    echo "( cd $LINKGOESIN ; rm -rf $LINKNAMEIS )"
    echo "( cd $LINKGOESIN ; ln -sf $LINKPOINTSTO $LINKNAMEIS )"
    COUNT=\"expr $COUNT + 1\"
    LINE="\"sed -n \"$COUNT p\" $1\"
  done
}

usage() {
  cat << EOF
Usage: makepkg package_name.tgz
EOF
Makes a Slackware compatible ".tgz" package containing the contents of the current and all subdirectories. If symbolic links exist, they will be removed and an installation script will be made to recreate them later. This script will be called "install/doinst.sh". You may add any of your own ash-compatible shell scripts to this file and rebuild the package if you wish.

options:      -l, --linkadd y\|n (moves symlinks into doinst.sh: recommended)
               -c, --chown y\|n (resets all permissions to root:root 755
               - not generally recommended)

If these options are not set, makepkg will prompt as appropriate.

EOF

# Parse options
while [ 0 ]; do
  if [ "$1" = "--linkadd" -o "$1" = "-l" ]; then
    if [ "$2" = "y" ]; then
      LINKADD=y
    elif [ "$2" = "n" ]; then
      LINKADD=n
    else
      usage
      exit 2
    fi
    shift 2
  elif [ "$1" = "--chown" -o "$1" = "-c" ]; then
    if [ "$2" = "y" ]; then
      CHOWN=y
    elif [ "$2" = "n" ]; then
      CHOWN=n
    else
      usage
      exit 2
    fi
    shift 2
  elif [ "$1" = "--help" -o "$1" = "-h" ]; then
    usage
    exit 0
  else
    break
  fi
done
echo
echo "Slackware package maker, version 2.0."
PACKAGE_NAME=$1
TARGET_NAME="dirname $PACKAGE_NAME"
PACKAGE_NAME="basename $PACKAGE_NAME"
TAR_NAME="basename $PACKAGE_NAME.tgz"

# Get rid of possible pre-existing trouble:
INST='mktemp $TMP/makepkg.XXXXXX'
find . -type l -exec ls -l {} \; | while read foo ; do echo $foo ; done | cut -f 9- -d ' ' | cut -b3- | tee $INST
if [ ! "cat $INST" = "" ]; then
  echo
  echo "Making symbolic link creation script:"
  make_install_script $INST | tee doinst.sh
fi

if [ ! "cat $INST" = "" ]; then
  if [ -r install/doinst.sh ]; then
    echo "Unless your existing installation script already contains the code"
    echo "to create these links, you should append these lines to your existing"
    echo "install script. Now's your chance. :^)"
  else
    echo "Would you like to add this stuff to the existing install script and"
    echo "-n "remove the symbolic links ([y]es, [n]o)? "
    else
      echo "It is recommended that you make these lines your new installation script."
      echo "Would you like to make this stuff the install script for this package"
      echo "-n "and remove the symbolic links ([y]es, [n]o)? "
  fi
  if [ ! "$LINKADD" ]; then
    read LINKADD;
    echo
  else
    echo $LINKADD
    echo
  fi
  if [ "$LINKADD" = "y" ]; then
    if [ -r install/doinst.sh ]; then
      UPDATE="t"
      cat doinst.sh >> install/doinst.sh
    else
      mkdir install
      cat doinst.sh > install/doinst.sh
    fi
    echo
    echo "Removing symbolic links:"
find . -type l -exec rm -v {} \;
echo
if [ "$UPDATE" = "t" ]; then
  echo "Updating your ./install/doinst.sh..."
else
  echo "Creating your new ./install/doinst.sh..."
fi
fi
else
echo "No symbolic links were found, so we won't make an installation script."
echo "You can make your own later in ./install/doinst.sh and rebuild the"
echo "package if you like."
fi
rm -f doinst.sh $INST
echo
echo "This next step is optional - you can set the directories in your package"
echo "to some sane permissions. If any of the directories in your package have"
echo "special permissions, then DO NOT reset them here!"
echo
echo "Would you like to reset all directory permissions to 755 (drwxr-xr-x) and"
echo "directory ownerships to root.root ([y]es, [n]o)? "
if [ ! "$CHOWN" ]; then
  read CHOWN;
  echo
else
  echo $CHOWN
echo
fi
if [ "$CHOWN" = "y" ]; then
  find . -type d -exec chmod -v 755 {} \;
  find . -type d -exec chown -v root.root {} \;
fi
else
  echo "Creating tar file $STAR_NAME.tar..."
echo
  STAR cvf $STAR_NAME.tar .
  # Warn of zero-length files:
  find . -type f -size 0c | while read file ; do
    echo "WARNING: zero length file $file"
  done
  find . -type f -name "/*.gz" -size 20c | while read file ; do
    echo "WARNING: possible empty gzipped file $file"
  done
  echo "Gzipping $STAR_NAME.tar..."
gzip -9 $STAR_NAME.tar
echo
  echo "Renaming $STAR_NAME.tar.gz to $PACKAGE_NAME..."
mv $TAR_NAME.tar.gz $PACKAGE_NAME
if [ ! "$TARGET_NAME" = "." ]; then
    echo
    echo "Moving $PACKAGE_NAME to $TARGET_NAME..."
    mv $PACKAGE_NAME $TARGET_NAME
fi
echo
echo "Package creation complete."

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#
# Wed, 27 Apr 1994 00:06:50 -0700 (PDT)
# Optimization by David Hinds.

SOURCE_DIR=/var/log/mount
ASK="tagfiles"
if [-L /bin/chmod -a -L /bin/chown ]; then # probably on the bootdisk using busybox
TARGET_DIR=/mnt
TMP=/mnt/var/log/setup/tmp
if mount | grep "on /mnt" | head -1 | awk '{print $3}' > /dev/null 2>&1 ; then # good
true
else # bad
echo
echo
    echo "You can't run pkgtool from the rootdisk until you've mounted your Linux"
    echo "partitions beneath /mnt. Here are some examples of this:"
echo
echo "If your root partition is /dev/hda1, and is using ext2fs, you would type:"
echo "mount /dev/hda1 /mnt -t ext2"
echo
echo "Then, supposing your /usr partition is /dev/hda2, you must do this:"
echo "mount /dev/hda2 /mnt/usr -t ext2"
echo
echo "Please mount your Linux partitions and then run pkgtool again."
echo
exit
fi
else
TARGET_DIR=/
TMP=/var/log/setup/tmp
fi
if [ ! -d $TMP ]; then
mkdir -p $TMP
chmod 700 $TMP
fi
ADM_DIR=$TARGET_DIR/var/log
LOG=$TMP/PKGTOOL.REMOVED

# remove whitespace


crunch() {
  while read FOO ; do
    echo $FOO
done
}

package_name() {
  STRING=`basename $1 .tgz`
  # Check for old style package name with one segment:
  if [ ""`cut -f 1 -d -"" $STRING` = ""`cut -f 2 -d -"" $STRING` ]; then
    echo $STRING
  else # has more than one dash delimited segment
    # Count number of segments:
    INDEX=1
    while [ ! ""`cut -f $INDEX -d -"" $STRING` = "" ]; do
      INDEX=`expr $INDEX + 1`
done
    INDEX=`expr $INDEX - 1` # don't include the null value
    # If we don't have four segments, return the old-style (or out of spec) package name:
    if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
      echo $STRING
    else # we have four or more segments, so we'll consider this a new-style name:
      NAME=`cut -f1-$INDEX -d -"" $STRING`
      NAME=`cut -f1-$NAME -d -"" $NAME`
    fi
  fi
}
remove_packages() {
for pkg_name in $*
do
if [ -r $ADM_DIR/packages/$pkg_name ]; then
    dialog --title "PACKAGE REMOVAL IN PROGRESS" --cr-wrap --infobox
    "Removing package $pkg_name.
    Since each file must be checked against the contents of every other installed package to avoid wiping out areas of overlap, this process can take quite some time. If you'd like to watch the progress, flip over to another virtual console and type:
    tail -f $TMP/PKGTOOL.REMOVED"
    export ROOT=$TARGET_DIR
    removepkg $pkg_name >> $LOG 2> /dev/null
else
    echo "No such package: $pkg_name. Can't remove." >> $LOG
fi
done
}

# Here, we read the list of arguments passed to the pkgtool script.
if [ $# -gt 0 ]; then # there are arguments to the command
while [ $# -gt 0 ]; do
    case "$1" in
    "-sets")
        DISK_SETS="echo $2 | tr "[A-Z]" "[a-z]"" ; shift 2 ;;
    "-source_mounted")
        SOURCE_MOUNTED="always" ; shift 1 ;;
    "-ignore_tagfiles")
        ASK="never" ; shift 1 ;;
    "-tagfile")
        USETAG=$2 ; shift 2 ;;
    "-source_dir")
        SOURCE_DIR=$2 ; shift 2 ;;
    "-target_dir")
        TARGET_DIR=$2
    "ADM_DIR")
        ADM_DIR=$TARGET_DIR/var/log
    esac
    shift
    shift
done

Open Source Used in ASA-RM 9.15.1 1612
shift 2 ;;
"-source_device")
SOURCE_DEVICE=$2 ; shift 2 ;;
esac
done
else # there were no arguments, so we'll get the needed information from the
 # user and then go on.
CMD_START="true"
rm -f $TMP/SeT* 
while [ 0 ]; do
    dialog --title "Slackware Package Tool (pkgtool version 9.0.0)"
    --menu "Welcome to the Slackware package tool.
    Which option would you like?
"Current" "Install packages from the current directory"
"Other" "Install packages from some other directory"
"Floppy" "Install packages from floppy disks"
"Remove" "Remove packages that are currently installed"
"View" "View the list of files contained in a package"
"Setup" "Choose Slackware installation scripts to run again"
"Exit" "Exit Pkgtool"

REPLY="cat $TMP/reply"
rm -f $TMP/reply
if [ "$REPLY" = "Exit" ]; then
    dialog --clear
    exit
fi
if [ "$REPLY" = "Setup" ]; then
    echo 'dialog --title "SELECT SYSTEM SETUP SCRIPTS" --item-help --checklist'
    "Please use the spacebar to select the setup scripts to run. Hit enter when you \n are done selecting to run the scripts." >> $TMP/setupscr
    for script in $ADM_DIR/setup/setup.* ; do
        BLURB='grep '#BLURB' $script | cut -b8-'
        if [ "$BLURB" = "" ]; then
            BLURB="""
        fi
        echo " "'basename $script | cut -f2- -d '.'" $BLURB "no" $BLURB \" >> $TMP/setupscr
    done
    echo "2> $TMP/return" >> $TMP/setupscr
    . $TMP/setupscr
    if [ ! "cat $TMP/return" = "" ]; then
        # Run each script:
        for script in 'cat $TMP/return' ; do
            scrpath=$ADM_DIR/setup/setup.'echo $script | tr -d \'
            echo "$scrpath"
rootdevice="mount | head -1 | cut -f 1 -d ':'"
( COLOR=on ; cd $TARGET_DIR ; . $scrpath / $rootdevice )
done
fi
rm -f $TMP/return $TMP/setupscr
continue
fi # end Setup
if [ "$SREPLY" = "View" ]; then
  DEFITEM=""
  export DEFITEM
  dialog --title "SCANNING" --infobox "Please wait while Pkgtool scans your system to determine which packages you have installed and prepares a list for you." 0 0
  echo 'dialog $DEFITEM --item-help --menu "Please select the package you wish to view." 17 68 10 ' > $TMP/viewscr
  for name in 'ls $ADM_DIR/packages' ; do
    pkg_name='package_name $name'
    BLURB="'sed -n "/$pkg_name:/{s/"//g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch'"
    # Let's have some backward compatibility with the interim beta (for now):
    if [ "$BLURB" = "" ]; then
      BLURB="'sed -n "/$name:/{s/"//g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch'"
    fi
    echo " "$name" "$BLURB" "View information about package $name" " >> $TMP/viewscr
done
  echo "2> $TMP/return" >> $TMP/viewscr
  while [ 0 ]; do
    . $TMP/viewscr
    if [ ! "cat $TMP/return" = "" ]; then
      DEFITEM="--default-item 'cat $TMP/return'"
    dialog --title "CONTENTS OF PACKAGE: 'cat $TMP/return'" --no-shadow --textbox "$ADM_DIR/packages/`cat $TMP/return`" 0 0 2> /dev/null
    else
      break
    fi
done
  rm -f $TMP/return $TMP/viewscr $TMP/tmpmsg
# This will clean up after most defective packages:
chmod 755 /
chmod 1777 /tmp
continue
fi
if [ "$SREPLY" = "Remove" ]; then
dialog --title "SCANNING" --infobox "Please wait while Pkgtool scans your system to determine which packages you have installed and prepares a list for you." 0 0
# end section
cat << EOF > $TMP/rmscript

EOF
dialog --title "SELECT PACKAGES TO REMOVE" --item-help --checklist
"Please select the \npackages you wish to Remove. Use the \nspacebar to select packages to delete, and the UP/DOWN arrow keys to \nscroll up and down through the entire list." 20 75 11 \nEOF

for name in 'ls $ADM_DIR/packages' ; do
    pkg_name='package_name $name'
    BLURB="'sed -n "/$pkg_name:/{s/"//g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch'"
    # Let's have some backward compatibility with the interim beta (for now):
    if [ "$BLURB" = "" ] ; then
        BLURB="'sed -n "/$name:/{s/"//g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch'"
    fi
    echo " "$name" "$BLURB" off "Select/Unselect removing package $name" \" >> $TMP/rmscript
done

if [ -L $LOG -o -r $LOG ] ; then
    rm -f $LOG
fi

cat /dev/null > $LOG
chmod 600 $LOG
chmod 700 $TMP/rmscript
export ADM_DIR;
$TMP/rmscript

remove_packages 'cat $TMP/return | tr -d "\042"'
if [ "cat $TMP/PKGTOOL.REMOVED" = "" ] ; then
    rm -f $TMP/PKGTOOL.REMOVED
    dialog --title "NO PACKAGES REMOVED" --msgbox "Hit OK to return \nto the main menu." 5 40
else
    dialog --title "PACKAGE REMOVAL COMPLETE" --msgbox "The packages have \nbeen removed. A complete log of the files that were removed has been created \nin $TMP: PKGTOOL.REMOVED." 0 0
fi

rm -f $TMP/rmscript $TMP/return $TMP/tmpmsg $TMP/SeT*
chmod 755 /
chmod 1777 /tmp

# No, return to the main menu:
#  exit
elif [ "$SREPLY" = "Floppy" ] ; then
    dialog --title "SELECT FLOPPY DRIVE" --menu "Which floppy drive would you like to install from?" \n11 70 4
    "/dev/fd0u1440" "1.44 MB first floppy drive"
    "/dev/fd1u1440" "1.44 MB second floppy drive"
    "/dev/fd0h1200" "1.2 MB first floppy drive"
    "/dev/fd1h1200" "1.2 MB second floppy drive" 2> $TMP/wdrive
    if [ $? = 1 ] ; then

dialog --clear
exit
fi
SOURCE_DEVICE="cat $TMP/wdrive"
rm -f $TMP/wdrive
cat << EOF > $TMP/tmpmsg
Enter the names of any disk sets you would like to install.
Separate the sets with a space, like this: a b oi x

To install packages from one disk, hit [enter] without typing anything.

EOF
dialog --title "SOFTWARE SELECTION" --inputbox "cat $TMP/tmpmsg" 13 70 2> $TMP/sets
DISK_SETS="cat $TMP/sets"
rm -f $TMP/sets
if [ "$DISK_SETS" = "" ]; then
    DISK_SETS="disk"
else
    DISK_SETS='echo $DISK_SETS | sed 's/ /#/g'
    DISK_SETS="#$DISK_SETS"
fi
break;
elif [ "$REPLY" = "Other" ]; then
dialog --title "SELECT SOURCE DIRECTORY" --inputbox "Please enter the name of the directory that you wish to install packages from:" 10 50 2> $TMP/pkgdir
if [ $? = 1 ]; then
    rm -f $TMP/pkgdir $TMP/SeT*
dialog --clear
    exit
fi
SOURCE_DIR="cat $TMP/pkgdir"
SOURCE_MOUNTED="always"
DISK_SETS="disk"
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
rm -f $TMP/pkgdir
if [ ! -d $SOURCE_DIR ]; then
dialog --title "DIRECTORY NOT FOUND" --msgbox "The directory you want to install from ($SOURCE_DIR) does not seem to exist. Please check the directory and then try again."
10 50
dialog --clear
    exit
fi
break;
else # installing from current directory
SOURCE_MOUNTED="always"
SOURCE_DIR="$PWD"
DISK_SETS="disk"
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
break;
fi
done
fi
if [ "$DISK_SETS" = "disk" ]; then
ASK="always"
fi

mount_the_source() {
  # is the source supposed to be mounted already?
  if [ "$SOURCE_MOUNTED" = "always" ]; then
    # The source should already be mounted, so we test it
    if [ ! -d $SOURCE_DIR ]; then # the directory is missing
      cat << EOF > $TMP/tmpmsg
      Your source device cannot be accessed properly.
      Please be sure that it is mounted on $SOURCE_DIR,
      and that the Slackware disks are found in subdirectories
      of $SOURCE_DIR like specified.
      EOF
      dialog --title "MOUNT ERROR" --msgbox "cat $TMP/tmpmsg" 11 67
      rm -f $TMP/tmpmsg
    exit 1;
    fi
    return 0;
  fi
  dialog --title "INSERT DISK" --menu "Please insert disk $1 and \
  press ENTER to continue." \
  11 50 3 \n  "Continue" "Continue with the installation" \ 
  "Skip" "Skip the current disk series" \ 
  "Quit" "Abort the installation process" 2> $TMP/reply
  if [ ! $? = 0 ]; then
    REPLY="Quit"
  else
    REPLY=""cat $TMP/reply"
  fi
  rm -f $TMP/reply
  if [ "$REPLY" = "Skip" ]; then
    return 1;
if [ "$REPLY" = "Quit" ]; then
dialog --title "ABORTING" --msgbox "Aborting software installation." 5 50
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
exit 1;
fi;

# Old line:
# mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
# New ones: (thanks to Andy Schwierskott!)
go_on=y
not_successfull_mounted=1
while [ "$go_on" = y -a "$not_successfull_mounted" = 1 ]; do
  mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
  not_successfull_mounted=$?
  if [ "$not_successfull_mounted" = 1 ]; then
    mount_answer=x
    while [ "$mount_answer" != "y" -a "$mount_answer" != "q" ]; do
      dialog --title "MOUNT PROBLEM" --menu "Media was not successfully mounted! Do you want to retry, or quit?"
      "Yes" "Try to mount the disk again"
      "No" "No, abort." 2> $TMP/mntans
      mount_answer="cat $TMP/mntans"
      rm -f $TMP/mntans
      if [ "$mount_answer" = "Yes" ]; then
        mount_answer="y"
      else
        mount_answer="q"
      fi
      done
  fi
  go_on=$mount_answer
fi
done
test $not_successfull_mounted = 0
}

umount_the_source() {
if [ ! "$SOURCE_MOUNTED" = "always" ]; then
  umount $SOURCE_DEVICE 1> /dev/null 2>&1
fi;
}

install_disk() {
  mount_the_source $1
  if [ $? = 1 ]; then
    umount_the_source;
    return 1;
  fi
}

Open Source Used In ASA-RM 9.15.1 1618
CURRENT_DISK_NAME="$1"
PACKAGE_DIR=$SOURCE_DIR
if [ "$SOURCE_MOUNTED" = "always" -a "$DISK_SETS" = "disk" ]; then
    PACKAGE_DIR=PACKAGE_DIR/$1
fi

# If this directory is missing or contains no *.tgz files, bail.
if [ ! -d $PACKAGE_DIR ]; then
    return 1
fi
if ls $PACKAGE_DIR/*.tgz 1> /dev/null 2> /dev/null ; then
    true
else
    return 1
fi

# look for tagfile for this series and copy into $TMP/tagfile
# touch $TMP/tagfile
if [ ! "$DISK_SETS" = "disk" ]; then
if [ -r $TMP/SeTtagext ]; then
    if [ -r $PACKAGE_DIR/tagfile ]; then
        cat $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' >> $TMP/tagfile
    else
        if [ -r $PACKAGE_DIR/tagfile ]; then
            cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
        fi
    fi
fi

# Do we need to follow a custom path to the tagfiles?
elif [ -r $TMP/SeTtagpath ]; then
    custom_path='cat $TMP/SeTtagpath'
    short_path='basename $PACKAGE_DIR'
    # If tagfile exists at the specified custom path, copy it over.
    if [ -r $custom_path/$short_path/tagfile ]; then
        cat $custom_path/$short_path/tagfile >> $TMP/tagfile
    else # well, I guess we'll use the default one then.
        if [ -r $PACKAGE_DIR/tagfile ]; then
            cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
        fi
    fi
    fi

#
# We seem to be testing for this too often... maybe this code should be optimized a little...
#
elif [-r $PACKAGE_DIR/tagfile ]; then
  cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
fi

# Execute menus if in QUICK mode:
#
if [-r $TMP/SeTQUICK -a -r $PACKAGE_DIR/maketag ]; then
  if ![ "$SMAKETAG" = "" -a -r $PACKAGE_DIR/$SMAKETAG ]; then # use alternate maketag
    sh $PACKAGE_DIR/$SMAKETAG
  else
    sh $PACKAGE_DIR/maketag
  fi
  if [-r $TMP/SeTnewtag ]; then
    mv $TMP/SeTnewtag $TMP/tagfile
  fi
fi

# Protect tagfile from hacker attack:
#
if [-r $TMP/tagfile ]; then
  chmod 600 $TMP/tagfile
fi

fi # ! "$DISK_SETS" = "disk"

# It's possible that the tagfile was specified on the command line. If that's the case, then we'll just override whatever we figured out up above.
if ![ "$USETAG" = "" ]; then
  cat $USETAG > $TMP/tagfile
fi

# If there's a catalog file present, use it to check for missing files.
# If not, forget about that and install whatever's there.
if [ "$1" = "single_disk" -o -r $PACKAGE_DIR/disk$1 -o -r $PACKAGE_DIR/package-list.txt ]; then
  if [-r $PACKAGE_DIR/package-list.txt ]; then
    CATALOG_FILE=$PACKAGE_DIR/package-list.txt
  else
    CATALOG_FILE='basename $PACKAGE_DIR/disk*';
  fi
  if grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE 1> /dev/null 2>&1 ; then
    # First we check for missing packages...
    for PKGTEST in 'grep "CONTENTS:" $PACKAGE_DIR/$CATALOG_FILE | cut -f2 -d : 2> /dev/null' ; do
      # Further processing...
    done
  fi
# This is not a perfect test. (say emacs is missing but emacs-nox is not)
if ls $PACKAGE_DIR/$PKGTEST*.tgz 1> /dev/null 2> /dev/null ; then # found something like it
    true
else
    cat << EOF > $TMP/tmpmsg
    WARNING!!!
    While looking through your index file ($CATALOG_FILE),
    I noticed that you might be missing a package:

    $PKGTEST-
    that is supposed to be on this disk (disk $1). You may go
    on with the installation if you wish, but if this is a
    crucial file I'm making no promises that your machine will
    boot.

    EOF
    dialog --title "FILE MISSING FROM YOUR DISK" --msgbox "cat $TMP/tmpmsg" 17 67
fi
done # checking for missing packages
# Now we test for extra packages:
ALLOWED="`grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE | cut -b10- 2> /dev/null`"
for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
    BASE="basename $PACKAGE_FILENAME .tgz"
    if echo $ALLOWED | grep $BASE 1> /dev/null 2>&1 ; then
        true
    else
        cat << EOF > $TMP/tmpmsg
        WARNING!!!
        While looking through your index file ($CATALOG_FILE),
        I noticed that you have this extra package:

        ($BASE.tgz)

        that I don't recognize. Please be sure this package is
        really supposed to be here, and is not left over from an
        old version of Slackware. Sometimes this can happen at the
        archive sites.

        EOF
        dialog --title "EXTRA FILE FOUND ON YOUR DISK" \ 
        --msgbox "cat $TMP/tmpmsg" 17 67
    fi
    done # checking for extra packages
rm -f $TMP/tmpmsg
done
done
done
fi # check for missing/extra packages

# Install the packages:
for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
    if [ "$PACKAGE_FILENAME" = "$PACKAGE_DIR/*.tgz" ]; then
        continue;
    fi
    if [ "$ASK" = "never" ]; then # install the package
        installpkg -root $TARGET_DIR -infobox -tagfile $TMP/tagfile $PACKAGE_FILENAME
        ERROR=$?
    elif [ "$ASK" = "tagfiles" ]; then
        installpkg -root $TARGET_DIR -menu -tagfile $TMP/tagfile $PACKAGE_FILENAME
        ERROR=$?
    else # ASK should be = always here, and that's how we'll treat it
        installpkg -root $TARGET_DIR -menu -ask -tagfile $TMP/tagfile $PACKAGE_FILENAME
        ERROR=$?
    fi
    # Check for abort:
    if [ "$ERROR" = "99" ]; then
        umount_the_source;
        chmod 755 $TARGET_DIR
        chmod 1777 $TARGET_DIR/tmp
        exit 1;
    fi
done
OUTTAHERE="false"
if [ -r $PACKAGE_DIR/install.end ]; then
    OUTTAHERE="true"
fi
umount_the_source;
if [ "$OUTTAHERE" = "true" ]; then
    return 1;
fi

install_disk_set() { # accepts one argument: the series name in lowercase.
    SERIES_NAME=$1
    CURRENT_DISK_NUMBER="1"
    while [ 0 ]; do
        # Don't start numbering the directories until 2:
        if [ $CURRENT_DISK_NUMBER = 1 ]; then
            DISKTOINSTALL=$SERIES_NAME
        else
            DISKTOINSTALL=$SERIES_NAME$CURRENT_DISK_NUMBER
        fi
    

DISKTOINSTALL=$SERIES_NAME$CURRENT_DISK_NUMBER
fi
install_disk $DISKTOINSTALL.
if [ ! $? = 0 ]; then # install.end was found, or the user chose
  # to quit installing packages.
  return 0;
fi
CURRENT_DISK_NUMBER='expr $CURRENT_DISK_NUMBER + 1'
done;
#
/* main() */ ;)
if [ "$DISK_SETS" = "disk" ]; then
  install_disk single_disk;
  ASK="always"
else
  touch $TMP/tagfile
  chmod 600 $TMP/tagfile
  if echo $DISK_SETS | grep "#a#" 1> /dev/null 2>&1; then
    A_IS_NEEDED="true"
  else
    A_IS_NEEDED="false"
  fi
  while [ 0 ];
    do
      while [ 0 ]; # strip leading #'s
        do
          if [ """echo $DISK_SETS | cut -b1"""" = "#" ]; then
            DISK_SETS=""""echo $DISK_SETS | cut -b2-""
          else
            break;
          fi
        done
      if [ "$A_IS_NEEDED" = "true" ]; then
        cat << EOF > $TMP/tmpmsg
          --- Installing package series ==a==
        EOF
        dialog --infobox "cat $TMP/tmpmsg" 5 45
        sleep 1
        rm -f $TMP/tmpmsg
        install_disk_set a;
        A_IS_NEEDED="false"
      fi
      count="1"
    if [ """echo $DISK_SETS | cut -b$count"""" = "" ]; then
      break; # we be done here :^)
EOF
    dialog --infobox "cat $TMP/tmpmsg" 5 45
    sleep 1
    rm -f $TMP/tmpmsg
    install_disk_set a;
    A_IS_NEEDED="false"
    fi
    count="1"
  if [ """echo $DISK_SETS | cut -b$count"""" = "" ]; then
    break; # we be done here :^)
else
    count="2"
while [ 0 ]; do
    if [ ""$DISK_SETS" | cut -b$count"" = "" -o "$DISK_SETS" | cut -b$count"" = ";" ]; then
        count="expr $count - 1"
        break;
    else
        count="expr $count + 1"
    fi
done
fi
diskset=""$DISK_SETS" | cut -b1-$count"
count="expr $count + 1"
DISK_SETS=""$DISK_SETS" | cut -b$count-"
if [ "$diskset" = "a" ]; then
    continue; # we expect this to be done elsewhere
fi
cat << EOF > $TMP/tmpmsg
Installing package series ==>$diskset<==
EOF
dialog --infobox "cat $TMP/tmpmsg" 5 45
sleep 1
rm -f $TMP/tmpmsg
install_disk_set $diskset;
done
fi

if [ "$DISK_SETS" = "disk" -o "$CMD_START" = "true" ]; then
    if [ -r $TMP/tagfile ]; then
        rm $TMP/tagfile
    fi
dialog --clear
fi
chmod 755 $TARGET_DIR $TARGET_DIR/var $TARGET_DIR/usr
chmod 1777 $TARGET_DIR/tmp
Taken from installpkg script
# Copyright 1994, 1998, 2000  Patrick Volkerding, Concord, CA, USA
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# ********************************************
# Refer to the XF86Config(4/5) man page for details about the format of
# this file.
# ********************************************

# This XF86Config file is designed for use with the Linux framebuffer console.
# This generic interface should work with nearly all video cards (although
# not every card will support every resolution). To use the Linux framebuffer
# console, you need to enable these kernel options:
# Using 'make menuconfig', in 'console drivers', enable:
#  [*] VGA text console
#  [*] Video mode selection support
#  [*] Support for frame buffer devices (EXPERIMENTAL)
#  [*] VESA VGA graphics console
#  [*] Advanced low level driver options
#  <*> 8 bpp packed pixels support
#  <*> 16 bpp packed pixels support
#  <*> 24 bpp packed pixels support
#  <*> 32 bpp packed pixels support
#  <*> VGA characters/attributes support
#  [*] Select compiled-in fonts
#  [*] VGA 8x8 font
#  [*] VGA 8x16 font
# If you have a Matrox or ATI Mach64, you might try enabling the options having
# to do with those cards as well. However, if the card is VESA compliant, you
# don't really need to (and it might cause problems, possibly)
#
# Next, if this file is not already named /etc/X11/XF86Config, make a copy
# with that name. This file ships with the name XF86Config-fbdev to avoid
# overwriting an existing config file.
#
# To get the kernel to start in VESA framebuffer mode, you need to pass it
# a vga= init string at boot time. For example, if you use LILO you'll
# probably find a vga=normal string in your /etc/lilo.conf. If you edit that
# to one of the values in this table:
#
# | Colours | 640x480 | 800x600 | 1024x768 | 1280x1024 | 1600x1200 |
# |---------|--------|--------|---------|----------|----------|
# | 256     | 769    | 771    | 773     | 775      | 796      |
# | 32,768  | 784    | 787    | 790     | 793      | 797      |
# | 65,536  | 785    | 788    | 791     | 794      | 798      |
# | 16.8M   | 786    | 789    | 792     | 795      | 799      |
#
# ...such as this for 1024x768x64k:
# vga = 791
# and then reinstall LILO by running 'lilo' as root, then at the next boot
# Linux should start in a VESA framebuffer console mode.
#
# For more information on how to activate the Linux frame buffer, see
# /usr/src/linux/Documentation/fb/vesafb.txt.
#
# Enjoy! :)
# -- volkerdi@slackware.com
#
# **********************************************************************
# Module section -- this section is used to specify
# which dynamically loadable modules to load.
# **********************************************************************

Section "Module"

# This loads the DBE extension module.
Load   "dbe"  # Double buffer extension

# This loads the miscellaneous extensions module, and disables
# initialisation of the XFree86-DGA extension within that module.
SubSection "extmod"
    Option   "omit xfree86-dga"   # don't initialise the DGA extension
EndSubSection

# This loads the font modules
Load   "type1"
Load   "freetype"
Load   "speedo"

# This loads the GLX module
Load   "glx"

EndSection

# **********************************************************************

# Files section.  This allows default font and rgb paths to be set
# **********************************************************************

Section "Files"

# The location of the RGB database.  Note, this is the name of the
# file minus the extension (like ".txt" or ".db").  There is normally
# no need to change the default.
RgbPath"/usr/X11R6/lib/X11/rgb"

# Multiple FontPath entries are allowed (which are concatenated together),
# as well as specifying multiple comma-separated entries in one FontPath
# command (or a combination of both methods)
#
# If you don't have a floating point coprocessor and emacs, Mosaic or other
# programs take long to start up, try moving the Type1 and Speedo directory
# to the end of this list (or comment them out).
#
FontPath  "/usr/X11R6/lib/X11/fonts/local/"
FontPath "/usr/X11R6/lib/X11/fonts/misc/"
FontPath "/usr/X11R6/lib/X11/fonts/75dpi/unscaled"
FontPath "/usr/X11R6/lib/X11/fonts/100dpi/unscaled"
FontPath "/usr/X11R6/lib/X11/fonts/Type1/"
FontPath "/usr/X11R6/lib/X11/fonts/CID/"
FontPath "/usr/X11R6/lib/X11/fonts/Speedo/"
FontPath "/usr/X11R6/lib/X11/fonts/75dpi/"
FontPath "/usr/X11R6/lib/X11/fonts/100dpi/"
FontPath "/usr/X11R6/lib/X11/fonts/cyrillic/"

# ModulePath can be used to set a search path for the X server modules.
# The default path is shown here.

# ModulePath "/usr/X11R6/lib/modules"

EndSection

# **********************************************************************
# Server flags section.
# **********************************************************************

Section "ServerFlags"

# Uncomment this to cause a core dump at the spot where a signal is
# received. This may leave the console in an unusable state, but may
# provide a better stack trace in the core dump to aid in debugging

# Option     "NoTrapSignals"

# Uncomment this to disable the <Crtl><Alt><Fn> VT switch sequence
# (where n is 1 through 12). This allows clients to receive these key
# events.

# Option     "DontVTSwitch"

# Uncomment this to disable the <Crtl><Alt><BS> server abort sequence
# This allows clients to receive this key event.

# Option     "DontZap"

# Uncomment this to disable tuning with the xvidtune client. With
# it the client can still run and fetch card and monitor attributes,
# but it will not be allowed to change them. If it tries it will
# receive a protocol error.

# Option "DisableVidModeExtension"

# Uncomment this to enable the use of a non-local xvidtune client.

# Option "AllowNonLocalXvidtune"

# Uncomment this to disable dynamically modifying the input device
# (mouse and keyboard) settings.

# Option "DisableModInDev"

# Uncomment this to enable the use of a non-local client to
# change the keyboard or mouse settings (currently only xset).

# Option "AllowNonLocalModInDev"

# Set the basic blanking screen saver timeout.

# Option "blank time" "10" # 10 minutes

# Set the DPMS timeouts. These are set here because they are global
# rather than screen-specific. These settings alone don't enable DPMS.
# It is enabled per-screen (or per-monitor), and even then only when
# the driver supports it.

# Option "standby time" "20"
# Option "suspend time" "30"
# Option "off time" "60"

# On some platform the server needs to estimate the sizes of PCI
# memory and pio ranges. This is done by assuming that PCI ranges
# don't overlap. Some broken BIOSes tend to set ranges of inactive
# devices wrong. Here one can adjust how aggressive the assumptions
# should be. Default is 0.

# Option "EstimateSizesAggresively" "0"

EndSection

# ********************************************************************************
# Input devices
# ********************************************************************************

# ********************************************************************************
# Core keyboard's InputDevice section
# ********************************************************************************
Section "InputDevice"

    Identifier "Keyboard1"
    Driver "Keyboard"
# For most OSs the protocol can be omitted (it defaults to "Standard").
# When using XQUEUE (only for SVR3 and SVR4, but not Solaris),
# uncomment the following line.

    # Option "Protocol" "Xqueue"

# Set the keyboard auto repeat parameters. Not all platforms implement
# this.

    # Option "AutoRepeat" "500 5"

# Specify which keyboard LEDs can be user-controlled (eg, with xset(1)).

    # Option "Xleds" "1 2 3"

# To disable the XKEYBOARD extension, uncomment XkbDisable.

    # Option "XkbDisable"

# To customise the XKB settings to suit your keyboard, modify the
# lines below (which are the defaults). For example, for a European
# keyboard, you will probably want to use one of:

#     # Option "XkbModel" "pc102"
#     # Option "XkbModel" "pc105"

# If you have a Microsoft Natural keyboard, you can use:

#     # Option "XkbModel" "microsoft"

# If you have a US "windows" keyboard you will want:

#     # Option "XkbModel" "pc104"

# Then to change the language, change the Layout setting.
# For example, a german layout can be obtained with:

#     # Option "XkbLayout" "de"

# or:

#     # Option "XkbLayout" "de"
#     # Option "XkbVariant" "nodeadkeys"
# If you'd like to switch the positions of your capslock and control keys, use:
  
  # Option "XkbOptions" "ctrl:swapcaps"

# These are the default XKB settings for XFree86
  
  # Option "XkbRules" "xfree86"
  # Option "XkbModel" "pc101"
  # Option "XkbLayout" "us"
  # Option "XkbVariant" ""
  # Option "XkbOptions" ""

EndSection

# **********************************************************************
# Core Pointer's InputDevice section
# **********************************************************************

Section "InputDevice"

# Identifier and driver

  Identifier "Mouse1"
  Driver "mouse"

# On platforms where PnP mouse detection is supported the following protocol setting can be used when using a newer PnP mouse:

  # Option "Protocol" "Auto"

# The available mouse protocols types that you can set below are:
  # Auto BusMouse GlidePoint GlidePointPS/2 IntelliMouse IMPS/2
  # Logitech Microsoft MMHitTab MMSeries Mouseman MouseManPlusPS/2
  # MouseSystems NetMousePS/2 NetScrollPS/2 OSMouse PS/2 SysMouse
  # ThinkingMouse ThinkingMousePS/2 Xqueue
    Option "Protocol" "PS/2"

# The mouse device. The device is normally set to /dev/mouse, which is usually a symbolic link to the real device.

  Option "Device" "/dev/mouse"
  # Option "Device" "/dev/psaux"
  # Option "Device" "/dev/ttyS0"
  # Option "Device" "/dev/ttyS1"
When using XQUEUE, comment out the above two lines, and uncomment the following line.

Option "Protocol" "Xqueue"

Baudrate and SampleRate are only for some Logitech mice. In almost every case these lines should be omitted.

Option "BaudRate" "9600"
Option "SampleRate" "150"

Emulate3Buttons is an option for 2-button Microsoft mice
Emulate3Timeout is the timeout in milliseconds (default is 50ms)

Option "Emulate3Buttons"
Option "Emulate3Timeout" "50"

ChordMiddle is an option for some 3-button Logitech mice

Option "ChordMiddle"

Some examples of extended input devices

Section "InputDevice"
Identifier "spaceball"
Driver "magellan"
Option "Device" "/dev/cua0"
EndSection

Section "InputDevice"
Identifier "spaceball2"
Driver "spaceorb"
Option "Device" "/dev/cua0"
EndSection

Section "InputDevice"
Identifier "touchscreen0"
Driver "microtouch"
Option "Device" "/dev/ttyS0"
Option "MinX" "1412"
Option "MaxX" "15184"
Option "MinY" "15372"
Option "MaxY" "1230"
Option "ScreenNumber" "0"
Option "ReportingMode" "Scaled"
# Section "InputDevice"
# Identifier "touchscreen1"
# Driver "elo2300"
# Option "Device" "/dev/ttyS0"
# Option "MinX" "231"
# Option "MaxX" "3868"
# Option "MinY" "3858"
# Option "MaxY" "272"
# Option "ScreenNumber" "0"
# Option "ReportingMode" "Scaled"
# Option "ButtonThreshold" "17"
# Option "ButtonNumber" "1"
# Option "SendCoreEvents"

# Monitor section
# Any number of monitor sections may be present

Section "Monitor"

Identifier "My Monitor"

# HorizSync is in kHz unless units are specified.
# HorizSync may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY. REFER TO YOUR MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

HorizSync 31.5 - 50.0

# HorizSync30-64    # multisync
# HorizSync31.5, 35.2    # multiple fixed sync frequencies
# HorizSync15-25, 30-50 # multiple ranges of sync frequencies

# VertRefresh is in Hz unless units are specified.
# VertRefresh may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY. REFER TO YOUR MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

VertRefresh 40-90
# Graphics device section
# Any number of graphics device sections may be present

Section "Device"
  Identifier "VESA Framebuffer"
  Driver "fbdev"
  #VideoRam 4096
  # Insert Clocks lines here if appropriate
EndSection

# Screen sections
# Any number of screen sections may be present. Each describes
# the configuration of a single screen. A single specific screen section
# may be specified from the X server command line with the "-screen"
# option.

Section "Screen"
  Identifier "Screen 1"
  Device "VESA Framebuffer"
  Monitor "My Monitor"

# You shouldn't need to set a default depth as the server will use
# whatever the framebuffer is set to. If you insist on setting it, make
# sure it matches the setting for your framebuffer.
#  DefaultDepth 8

  Subsection "Display"
    Depth 8
  EndSubsection
  Subsection "Display"
    Depth 16
  EndSubsection
  Subsection "Display"
    Depth 24
  EndSubsection
  Subsection "Display"
    Depth 32
  EndSubsection
Section "ServerLayout"

# The Identifier line must be present
   Identifier "Simple Layout"

# Each Screen line specifies a Screen section name, and optionally
# the relative position of other screens. The four names after
# primary screen name are the screens to the top, bottom, left and right
# of the primary screen. In this example, screen 2 is located to the
# right of screen 1.

   Screen "Screen 1"

# Each InputDevice line specifies an InputDevice section name and
# optionally some options to specify the way the device is to be
# used. Those options include "CorePointer", "CoreKeyboard" and
# "SendCoreEvents".

   InputDevice "Mouse1" "CorePointer"
   InputDevice "Keyboard1" "CoreKeyboard"

EndSection

#!/bin/sh
# Slackware remove package script
#
# Revision 1.8 Thu Nov 22 14:00:13 PST 2001 volkerding Rel $ 
# - Move $TMP underneath $ROOT 
# - Understand the idea of a base package name, so that packages 
# can be removed with any of these notations:
#  removepkg foo-1.0-i386-1.tgz 
#  removepkg foo-1.0-i386-1 
#  removepkg foo.tgz 
#  removepkg foo 
#
# Revision 1.7  2001/03/30 12:36:28 volkerding
# - Strip extra ".tgz" from input names.
#
# Revision 1.6  1999/03/25 18:26:41 volkerding
# - Use external $ROOT variable, like installpkg.
#
# Revision 1.5.1  1998/03/18 15:37:28 volkerding
# - Since removepkg is always run by root, the temp directory has been
#   moved from /tmp to a private directory to avoid symlink attacks from
#   malicious users.
#
# Revision 1.5  1997/06/26 12:09:53 franke
# - Fixed old bug in TRIGGER regex setting
# - -preserve/-copy options now preserve non-unique files
#   and empty directories also
#
# Revision 1.4  1997/06/09 13:21:36 franke
# - Package file preserve (-preserve, -copy) added.
# - Don't execute "rm -rf" lines from doinst.sh, removing links explicit.
# - Warning on no longer existing files added.
# - Warning on files changed after package installation added.
# - Intermediate file preserve (-keep) added.
# - Check for required files/links now done on a combined list.
# - Write access to /var/log/packages,scripts no longer necessary for -warn.
#
# Revision 1.3  1997/06/08 13:03:05 franke
# Merged with revision 1.1.1.1
#
# Revision 1.2  1996/06/01 20:04:26 franke
# Delete empty directories & formatted manual pages added
#
# Revision 1.1.1.1  1995/12/18 21:20:42 volkerding
# Original Version from Slackware 3.1
#
# Revision 1.1  1995/06/05 22:49:11 volkerding
# Original Version from Slackware 3.0
#

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OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# Make sure there's a proper temp directory:
TMP=$ROOT/var/log/setup/tmp
# If the $TMP directory doesn't exist, create it:
if [ ! -d $TMP ]; then
rm -rf $TMP # make sure it's not a symlink or something stupid
mkdir -p $TMP
chmod 700 $TMP # no need to leave it open
fi
ADM_DIR=$ROOT/var/log
PRES_DIR=$TMP/preserved_packages
cat_except() {
( cd "$1" && cat 'ls * | sed "/^$2\$/d"' )
}
extract_links() {
sed -n 's,^( *cd \([^ ;][^ ;]*\) *; *rm -rf \([^ )][^ )]*\) *) *$,\1/\2,p'
}
preserve_file() {
if [ "$PRESERVE" = "true" ]; then
F="'basename "$1"'"
D="'dirname "$1"'"
if [ ! -d "$PRES_DIR/$PKGNAME/$D" ]; then
mkdir -p "$PRES_DIR/$PKGNAME/$D" || return 1
fi
cp -p "$ROOT/$D/$F" "$PRES_DIR/$PKGNAME/$D" || return 1
fi
return 0
}
preserve_dir() {
if [ "$PRESERVE" = "true" ]; then
if [ ! -d "$PRES_DIR/$PKGNAME/$1" ]; then
mkdir -p "$PRES_DIR/$PKGNAME/$1" || return 1
fi

Open Source Used In ASA-RM 9.15.1 1637


return 0
}

keep_files() {
while read FILE ; do
  if [ ! -d "$ROOT/$FILE" ]; then
    if [ -r "$ROOT/$FILE" ]; then
      echo "  --> $ROOT/$FILE was found in another package. Skipping."
      preserve_file "$FILE"
    else
      fi
    fi
  else
    preserve_dir "$FILE"
  fi
done
}

keep_links() {
while read LINK ; do
  if [ -L "$ROOT/$LINK" ]; then
    echo "  --> $ROOT/$LINK (symlink) was found in another package. Skipping."
  else
    echo "WARNING: Nonexistent $ROOT/$LINK (symlink) was found in another package. Skipping."
    fi
  done
}

delete_files() {
while read FILE ; do
  if [ ! -d "$ROOT/$FILE" ]; then
    if [ -r "$ROOT/$FILE" ]; then
      if [ "$ROOT/$FILE" -nt "$ADM_DIR/packages/$PKGNAME" ]; then
        echo "WARNING: $ROOT/$FILE changed after package installation."
        fi
      else
        echo "  --> Deleting $ROOT/$FILE"
        preserve_file "$FILE" && rm -f "$ROOT/$FILE"
      fi
    else
      echo "  --> $ROOT/$FILE no longer exists. Skipping."
    fi
  else
    fi
  fi
}

else
    preserve_dir "$FILE"
fi
done
}

delete_links() {
    while read LINK ; do
        if [ -L "$ROOT/$LINK" ]; then
            if [ ! "$WARN" = "true" ]; then
                echo "  --> Deleting symlink $ROOT/$LINK"
                rm -f $ROOT/$LINK
            else
                echo "  --> $ROOT/$LINK (symlink) would be deleted"
            fi
        else
            echo "  --> $ROOT/$LINK (symlink) no longer exists. Skipping."
        fi
done
}

delete_dirs() {
    while read DIR ; do
        if [ -d "$ROOT/$DIR" ]; then
            if [ ! "$WARN" = "true" ]; then
                if [ 'ls -a "$ROOT/$DIR" | wc -l' -eq 2 ]; then
                    echo "  --> Deleting empty directory $ROOT/$DIR"
                    rmdir $ROOT/$DIR
                else
                    echo "WARNING: Unique directory $ROOT/$DIR contains new files"
                fi
            else
                echo "  --> $ROOT/$DIR (dir) would be deleted if empty"
            fi
        fi
done
}

delete_cats() {
    sed -n 's,/man[./[^/
         n]/[^$\]./cat\\1.p' | \ 
    while read FILE ; do
        if [ -f "$ROOT/$FILE" ]; then
            if [ ! "$WARN" = "true" ]; then
                echo "  --> Deleting $ROOT/$FILE (fmt man page)"
                rm -f $ROOT/$FILE
            else
                echo "  --> $ROOT/$FILE (fmt man page) would be deleted"
            fi
        fi
done
}
package_name() {
  STRING='basename $1 .tgz'
  # Check for old style package name with one segment:
  if [ "'echo $STRING | cut -f 1 -d -''" = "'echo $STRING | cut -f 2 -d -''" ]; then
    echo $STRING
  else # has more than one dash delimited segment
    # Count number of segments:
    INDEX=1
    while [ ! "'echo $STRING | cut -f $INDEX -d -''" = "" ]; do
      INDEX='expr $INDEX + 1'
    done
    INDEX='expr $INDEX - 1' # don't include the null value
    # If we don't have four segments, return the old-style (or out of spec) package name:
    if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
      echo $STRING
    else # we have four or more segments, so we'll consider this a new-style name:
      NAME='expr $INDEX - 3'
      NAME="'echo $STRING | cut -f 1-$NAME -d -''"
      echo $NAME
      # cruft for later :
      #VER='expr $INDEX - 2'
      #VER="'echo $STRING | cut -f $VER -d -''"
      #ARCH='expr $INDEX - 1'
      #ARCH="'echo $STRING | cut -f $ARCH -d -''"
      #BUILD="'echo $STRING | cut -f $INDEX -d -''"
    fi
  fi
}

# Conversion to 'comm' utility by Mark Wisdom.
# is pretty nifty! :^)
remove_packages() {
  for PKGLIST in $*
  do
    PKGNAME='basename $PKGLIST .tgz'
    echo
    # If we don't have a package match here, then we will attempt to find
    # a package using the long name format (name-version-arch-build) for
    # which the base package name was given. On a properly-managed machine,
    # there should only be one package installed with a given basename, but
    # we don't enforce this policy. If there's more than one, only one will
    # be removed. If you want to remove them all, you'll need to run
    # removepkg again until it removes all the same-named packages.
if [ ! -e $ADM_DIR/packages/$PKGNAME ]; then
    SHORT="package_name $PKGNAME"
    for long_package in $ADM_DIR/packages/${PKGNAME}* ; do
        if [ $PKGNAME = "$short_package" ]; then
            PKGNAME="basename $long_package"
            fi
done
    fi
    if [ -r $ADM_DIR/packages/$PKGNAME ]; then
        if [ ! "$WARN" = true ]; then
            echo "Removing package $ADM_DIR/packages/$PKGNAME..."
            fi
        if fgrep "./" $ADM_DIR/packages/$PKGNAME 1> /dev/null 2>&1; then
            TRIGGER="^\n\n"
        else
            TRIGGER="FILE LIST:"
        fi
        if [ ! "$WARN" = true ]; then
            echo "Removing files:"
            fi
        sed -n "/$TRIGGER/,/^$/p" < $ADM_DIR/packages/$PKGNAME | 
            fgrep -v "FILE LIST:" | sort -u > $TMP/delete_list$$
# Pat's new-new && improved pre-removal routine.
cat_except $ADM_DIR/packages $PKGNAME | sort -u > $TMP/required_list$$
if [ -r $ADM_DIR/scripts/$PKGNAME ]; then
    extract_links < $ADM_DIR/scripts/$PKGNAME | sort -u > $TMP/required_links$$
cat_except $ADM_DIR/scripts $PKGNAME | extract_links | 
    sort -u > $TMP/required_files$$
    mv $TMP/required_list$$ $TMP/required_files$$
sort -u $TMP/required_links$$ > $TMP/required_list$$
comm -12 $TMP/del_link_list$$ $TMP/required_list$$ | keep_links
comm -23 $TMP/del_link_list$$ $TMP/required_list$$ | delete_links
else
    cat $ADM_DIR/scripts/* | extract_links | 
    sort -u > $TMP/required_links$$
    mv $TMP/required_list$$ $TMP/required_files$$
    sort -u $TMP/required_links$$ > $TMP/required_list$$
fi
comm -12 $TMP/delete_list$$ $TMP/required_list$$ | keep_files
comm -23 $TMP/delete_list$$ $TMP/required_list$$ > $TMP/uniq_list$$
delete_files < $TMP/uniq_list$$
delete_dirs < $TMP/uniq_list$$
delete_cats < $TMP/uniq_list$$
if [ ! "$KEEP" = "true" ]; then
    rm -f $TMP/delete_list$$ $TMP/required_files$$ $TMP/uniq_list$$
    rm -f $TMP/del_link_list$$ $TMP/required_links$$ $TMP/required_list$$
else
    # Pat's pre-removal routine.
    if [ ! "$PRESERVE" = "true" ]; then
    fi
fi
if [ -r $ADM_DIR/scripts/$PKGNAME ]; then
    if [ ! -d "$PRES_DIR/$PKGNAME/install" ]; then
        mkdir -p "$PRES_DIR/$PKGNAME/install"
    fi
    cp -p $ADM_DIR/scripts/$PKGNAME $PRES_DIR/$PKGNAME/install/doinst.sh
    fi
    fi
    if [ ! "$WARN" = "true" ]; then
        for DIR in $ADM_DIR/removed_packages $ADM_DIR/removed_scripts ; do
            if [ ! -d $DIR ]; then mkdir -p $DIR ; chmod 755 $DIR ; fi
done
        mv $ADM_DIR/packages/$PKGNAME $ADM_DIR/removed_packages
        if [ -r $ADM_DIR/scripts/$PKGNAME ]; then
            mv $ADM_DIR/scripts/$PKGNAME $ADM_DIR/removed_scripts
        fi
        fi
        else
        echo "No such package: $ADM_DIR/packages/$PKGNAME. Can't remove."
        fi
    done
if [ "$#" = "0" ]; then
    echo "Usage: 'basename $0' [-copy] [-keep] [-preserve] [-warn] packagename ..."; exit 1
    fi
while : ; do
    case "$1" in
        -copy) WARN=true; PRESERVE=true; shift;;
        -keep) KEEP=true; shift;;
        -preserve) PRESERVE=true; shift;;
        -warn) WARN=true; shift;;
        *) echo "Usage: 'basename $0' [-copy] [-keep] [-preserve] [-warn] packagename ..."; exit 1;;
        *) break
    esac
done
if [ "$WARN" = "true" ]; then
    echo "Only warning... not actually removing any files."
    if [ "$PRESERVE" = "true" ]; then
        echo "Package contents is copied to $PRES_DIR."
        fi
    echo "Here's what would be removed (and left behind) if you"
    echo "removed the package(s):"
    echo
    else
        if [ "$PRESERVE" = "true" ]; then
            echo "Package contents is copied to $PRES_DIR."

#!/bin/sh
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# OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
# ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
# Modified to handle either old 8.3 or new package-version-arch-build.tgz
# packages, Sat Nov 17 14:25:58 PST 2001 volkerdi
#
# Rewritten to clean out _all_ old packages of a given basename, not just
# the first one found, Thu Apr  4 01:01:05 PST 2002 volkerdi
#
# Added --install-new and --reinstall, Fri May 31 14:11:14 PDT 2002 volkerdi

usage() {
    cat << EOF
Usage: upgradepkg newpackage [newpackage2 ... ]
    upgradepkg oldpackage%newpackage [oldpackage2%newpackage2 ... ]

Upgradepkg upgrades a Slackware .tgz package from an older version to a
newer one.  It does this by INSTALLING the new package onto the system, and
then REMOVING any files from the old package that aren't in the new package.
If the old and new packages have the same name, a single argument is all that
is required.  If the packages have different names, supply the name of the
old package followed by a percent symbol (%), then the name of the new package.
Do not add any extra whitespace between pairs of old/new package names.

EOF
}

Before upgrading a package, save any configuration files (such as in /etc) that you wish to keep. Sometimes these will be preserved, but it depends on the package structure. If you want to force new versions of the config files to be installed, remove the old ones manually prior to running upgradepkg.

To upgrade in a directory other than / (such as /mnt):

    ROOT=/mnt upgradepkg package.tgz

EOF

# Make sure there's a proper temp directory:
TMP=/var/log/setup/tmp
# If the $TMP directory doesn't exist, create it:
if [ ! -d $TMP ]; then
    rm -rf $TMP # make sure it's not a symlink or something stupid
    mkdir $TMP
    chmod 700 $TMP # no need to leave it open
fi

# $ROOT defined?
if [ -d "$ROOT" ]; then
    export ROOT
fi

# --help or no args?
if [ "$1" = "" -o "$1" = "--help" -o "$1" = "-?" ]; then
    usage;
    exit 1;
fi

# Arg processing loop. These must come before any packages are listed.
while [ 0 ]; do
    if [ "$1" = "--no-paranoia" ]; then
        # Enable --no-paranoia mode. This is so not-recommended that we're
        # not even going to document it. :) If a file used to be directly
        # managed and now is moved into place, using --no-paranoia will cause
        # it to improperly disappear. It does slightly speed things up, though.
        # Don't use it.
        NOT_PARANOID="true"
        shift 1
    elif [ "$1" = "--install-new" ]; then
        # Install packages that do not already have an installed version.
        # The usual default is to skip them.
        INSTALL_NEW="yes"
        shift 1
elif [ "$1" = "--reinstall" ]; then
    # Reinstall packages even if the installed one is the same version.
    REINSTALL="true"
    shift 1
elif [ "$1" = "--verbose" -o "$1" = "-v" ]; then
    # We're adding a --verbose mode that doesn't filter removepkg as much
    VERBOSE="verbose"
    shift 1
else # no more args
    break;
fi
done # processing args

ERRCODE=0

# Main processing loop:
while [ ! "$1" = "" ]; do

    # Figure out the names of the old and new packages:
    OLD=`echo $1 | cut -f 1 -d '%'`
    NEW=`echo $1 | cut -f 2 -d '%'`
    INCOMINGDIR=`dirname $NEW`
    OLD=`basename $OLD .tgz`
    NEW=`basename $NEW .tgz`

    # Here's a function to figure out the package name from one of those
    # new long filenames. We'll need this to double check the name of the
    # old package.

    package_name() {
        STRING=`basename $1 .tgz`
        # Check for old style package name with one segment:
        if [ """$STRING | cut -f 1 -d -"""" = """"$STRING | cut -f 2 -d -"""" ]; then
            echo $STRING
        else # has more than one dash delimited segment
            # Count number of segments:
            INDEX=1
            while [ ! """$STRING | cut -f $INDEX -d -"""" = """" ]; do
                INDEX=`expr $INDEX + 1`
            done
            INDEX=`expr $INDEX - 1` # don't include the null value
            # If we don't have four segments, return the old-style (or out of spec) package name:
            if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
                echo $STRING
            else # we have four or more segments, so we'll consider this a new-style name:
                NAME=`expr $INDEX - 3`
                NAME="""$STRING | cut -f 1-$NAME -d -""
                echo $NAME
# cruft for later ;)

#VER='expr $INDEX - 2'
#VER="echo $STRING | cut -f $VER -d -"
#ARCH='expr $INDEX - 1'
#ARCH="echo $STRING | cut -f $ARCH -d -"
#BUILD="echo $STRING | cut -f $INDEX -d -"
fi
fi
}

# Check and fix the old package name:
if [ ! -r $ROOT/var/log/packages/$OLD ]; then
SHORT="package_name $OLD"
if ls $ROOT/var/log/packages/$SHORT* 1> /dev/null 2> /dev/null ; then
for installed_package in $ROOT/var/log/packages/$SHORT* ; do
if [ "package_name $installed_package" = "$SHORT" ]; then # found one
OLD="basename $installed_package"
break
fi
done
fi
fi

# Test to see if both the old and new packages are where we expect them
# to be -- skip to the next package (or package pair) if anything's wrong:

if [ ! -r $ROOT/var/log/packages/$OLD ]; then
if [ ! "$INSTALL_NEW" = "yes" ]; then
echo
echo "Error: there is no installed package named SOLD."
echo " (looking for $ROOT/var/log/packages/$OLD)"
echo
ERRCODE=1
else # --install-new was given, so install the new package:
cat << EOF
+==============================================================================
| Installing new package $INCOMINGDIR/$NEW.tgz
+==============================================================================
EOF
installpkg $INCOMINGDIR/$NEW.tgz
fi
shift 1
continue;
elif [ ! -r "$INCOMINGDIR/$NEW.tgz" ]; then
echo
echo "Error: incoming package $INCOMINGDIR/$NEW.tgz not found."
echo
shift 1
ERRCODE=1
continue;
fi

# Unless --reinstall was given, compare the package names
# and skip any exact matches:
if [ ! "$REINSTALL" = "true" ]; then
  if [ "$OLD" = "$NEW" ]; then
cat << EOF
+==============================================================================
| Skipping package $NEW (already installed)
+==============================================================================
EOF
  shift 1
  continue;
  fi
fi

# Showtime. Let's do the upgrade. First, we will rename all the
# installed packages with this basename to make them easy to remove later:

TIMESTAMP='date +%Y-%m-%d,%T'
SHORT="package_name $OLD"
for installed_package in $ROOT/var/log/packages/$SHORT* ; do
  if [ "package_name $installed_package" = "$SHORT" ]; then
    mv $installed_package ${installed_package}-upgraded-$TIMESTAMP
  fi
done
done
for installed_script in $ROOT/var/log/scripts/$SHORT* ; do
  if [ "package_name $installed_script" = "$SHORT" ]; then
    if [ -r $installed_script ]; then
      mv $installed_script ${installed_script}-upgraded-$TIMESTAMP
    fi
  fi
done

# Print a banner for the current upgrade:
cat << EOF
+==============================================================================
| Upgrading SOLD package using $INCOMINGDIR/$NEW.tgz
+==============================================================================
EOF
# Next, the new package is pre-installed:
if [ "$VERBOSE" = "verbose" ]; then
    installpkg $INCOMINGDIR/$NEW.tgz
else
echo "Pre-installing package $NEW..."
    installpkg $INCOMINGDIR/$NEW.tgz 1> /dev/null
fi

# Now, the leftovers from the old package(s) can go. Pretty simple, huh? :)
if [-d "$ROOT" ]; then
    ( cd $ROOT/var/log/packages
        for rempkg in *-$TIMESTAMP ; do
            if [ "$VERBOSE" = "verbose" ]; then
                ROOT=$ROOT removepkg $rempkg
            else
                ROOT=$ROOT removepkg $rempkg | grep -v "Skipping\.” | grep -v "Removing files:"
            fi
done )
else
    ( cd /var/log/packages
        for rempkg in *-$TIMESTAMP ; do
            if [ "$VERBOSE" = "verbose" ]; then
                removepkg $rempkg
            else
                removepkg $rempkg | grep -v "Skipping\.” | grep -v "Removing files:"
            fi
done
    )
fi
fi

# Again! Again!
# Seriously, the reinstalling of a package can be crucial if any files
# shift location, so we should always reinstall as the final step:
if [ ! "$NOT_PARANOID" = "true" ]; then
    installpkg $INCOMINGDIR/$NEW.tgz
fi

echo "Package SOLD upgraded with new package $INCOMINGDIR/$NEW.tgz."
ERRCODE=0

# Process next parameter:
shift 1

done
echo
exit $ERRCODE
#!/bin/sh

TAR=tar-1.13
STAR --help 1> /dev/null 2> /dev/null
if [ ! $? = 0 ]; then
    TAR=ta
fi
if [ ! "LC_MESSAGES=C $TAR --version" = "tar (GNU tar) 1.13

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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Written by John Gilmore and Jay Fenlason." ]; then
echo "WARNING: pkgtools are unstable with tar > 1.13."
echo "You should provide a "tar-1.13" in your $PATH."
sleep 5
fi

if [ $# = 0 ]; then
cat << EOF
Usage: explodepkg package_name [package_name2, ...]

Explodes a Slackware compatible software package (or any tar+gzip archive) in
the current directory. Equivalent to (for each package listed):

    ( umask 000 ; tar xzvf package_name )

Note: This should only be used for debugging or examining packages, not for
installing them. It doesn't execute installation scripts or update the package
indexes in /var/log/packages|scripts.

EOF
fi
for PKG in $* ; do
    echo "Exploding package $PKG in current directory:"
    ( umask 000 ; STAR xzvf PKG 2> /dev/null )
    if [ -r install/doinst.sh ]; then
        echo
        echo "An installation script was detected in .install/doinst.sh, but"
        echo "was not executed."
        fi
    done
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#
echo "WARNING: pkgtools are unstable with tar > 1.13."
echo "You should provide a \"tar-1.13\" in your \$PATH."
sleep 5
fi

make_install_script() {
COUNT=1
LINE="`sed -n "$COUNT p" $1"`
while [ ! "$LINE" = "" ]; do
  LINKGOESIN="`echo "$LINE" | cut -f 1 -d " "`
  LINKGOESIN="`dirname $LINKGOESIN`"
  LINKNAMEIS="`basename "$LINKNAMEIS"`
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  LINKNAMEIS="`basename "$LINKNAMEIS"`""
LINKPOINTSTO=""echo "$LINE" | cut -f 3 -d ' ""

"( cd $LINKGOESIN ; rm -rf $LINKNAMEIS )"

"( cd $LINKGOESIN ; ln -sf $LINKPOINTSTO $LINKNAMEIS )"

COUNT='expr $COUNT + 1'

LINE=""`sed -n "$COUNT p" $1"`

done
}

usage() {
    cat << EOF
    Usage: makepkg package_name.tgz
    
    Makes a Slackware compatible ".tgz" package containing the contents of the
    current and all subdirectories. If symbolic links exist, they will be removed
    and an installation script will be made to recreate them later. This script
    will be called "install/doinst.sh". You may add any of your own ash-compatible
    shell scripts to this file and rebuild the package if you wish.
    
    options:     -l, --linkadd y|n (moves symlinks into doinst.sh: recommended)
                  -c, --chown y|n (resets all permissions to root:root 755
                  - not generally recommended)
    
    If these options are not set, makepkg will prompt as appropriate.
    EOF
    }

    TMP=/tmp # This can be a hole, but I'm going to be careful about file
    # creation in there, so don't panic. :^)
    
    # Parse options
    while [ 0 ]; do
        if [ "$1" = "--linkadd" -o "$1" = "-l" ]; then
            if [ "$2" = "y" ]; then
                LINKADD=y
            else
                usage
                exit 2
            fi
            shift 2
        elif [ "$1" = "--chown" -o "$1" = "-c" ]; then
            if [ "$2" = "y" ]; then
                CHOWN=y
            else
                usage
                exit 2
            fi
            shift 2
        else
            usage
            exit 2
        fi
    done

    usage() {
    cat << EOF
    Usage: makepkg package_name.tgz
    
    Makes a Slackware compatible "*.tgz" package containing the contents of the
    current and all subdirectories. If symbolic links exist, they will be removed
    and an installation script will be made to recreate them later. This script
    will be called "install/doinst.sh". You may add any of your own ash-compatible
    shell scripts to this file and rebuild the package if you wish.
    
    options:     -l, --linkadd y|n (moves symlinks into doinst.sh: recommended)
                  -c, --chown y|n (resets all permissions to root:root 755
                  - not generally recommended)
    
    If these options are not set, makepkg will prompt as appropriate.
    EOF
    }

    TMP=/tmp # This can be a hole, but I'm going to be careful about file
    # creation in there, so don't panic. :^)
    
    # Parse options
    while [ 0 ]; do
        if [ "$1" = "--linkadd" -o "$1" = "-l" ]; then
            if [ "$2" = "y" ]; then
                LINKADD=y
            else
                usage
                exit 2
            fi
            shift 2
        elif [ "$1" = "--chown" -o "$1" = "-c" ]; then
            if [ "$2" = "y" ]; then
                CHOWN=y
            else
                usage
                exit 2
            fi
            shift 2
        else
            usage
            exit 2
        fi
    done
usage
exit 2
fi
shift 2
elif [ "$1" = "-h" -o "$1" = "-H" -o "$1" = "--help" -o $# = 0 ]; then
  usage
  exit 0
else
  break
fi
done
echo
echo "Slackware package maker, version 2.0."
PACKAGE_NAME=$1
TARGET_NAME="dirname $PACKAGE_NAME"
PACKAGE_NAME="basename $PACKAGE_NAME"
TAR_NAME="basename $PACKAGE_NAME.tgz"
echo
echo "Searching for symbolic links:" # Get rid of possible pre-existing trouble:
INST='mktemp $TMP/makepkg.XXXXXX'
find . -type l -exec ls -l {} \; | while read foo ; do echo $foo ; done | cut -f 9- -d ' ' | cut -b3- | tee $INST
if [ ! "cat $INST" = "" ]; then
  echo
  echo "Making symbolic link creation script:"
  make_install_script $INST | tee doinst.sh
  fi
  echo
if [ ! "cat $INST" = "" ]; then
if [ -r install/doinst.sh ]; then
  echo "Unless your existing installation script already contains the code"
  echo "to create these links, you should append these lines to your existing"
  echo "install script. Now's your chance. :^)
  echo
  echo "Would you like to add this stuff to the existing install script and"
  echo -n "remove the symbolic links ([y]es, [n]o)? "
else
  echo "It is recommended that you make these lines your new installation script."
  echo
  echo "Would you like to make this stuff the install script for this package"
  echo -n "and remove the symbolic links ([y]es, [n]o)? "
  fi
  if [ ! "$LINKADD" ]; then
    read LINKADD;
    echo
  else
    echo $LINKADD
  fi
if [ "$SLINKADD" = "y" ]; then
  if [ -r install/doinst.sh ]; then
    UPDATE="t"
    cat doinst.sh >> install/doinst.sh
  else
    mkdir install
    cat doinst.sh > install/doinst.sh
  fi
fi

echo "Removing symbolic links:"
find . -type l -exec rm -v {} \;

if [ "$UPDATE" = "t" ]; then
  echo "Updating your ./install/doinst.sh..."
else
  echo "Creating your new ./install/doinst.sh..."
fi
fi
else
  echo "No symbolic links were found, so we won't make an installation script."
  echo "You can make your own later in ./install/doinst.sh and rebuild the"
  echo "package if you like."
fi

rm -f doinst.sh $INST

if [ ! "$CHOWN" ]; then
  read CHOWN;
else
  echo $CHOWN
fi

if [ "$CHOWN" = "y" ]; then
  find . -type d -exec chmod -v 755 {} \;
  find . -type d -exec chown -v root.root {} \;
fi

echo "Creating tar file $TAR_NAME.tar..."
# Warn of zero-length files:
find . -type f -size 0c | while read file ; do
    echo "WARNING: zero length file $file"
done

find . -type f -name '*.gz' -size 20c | while read file ; do
    echo "WARNING: possible empty gzipped file $file"
done
echo
echo "Gzipping $TAR_NAME.tar..."
gzip -9 $TAR_NAME.tar

echo "Renaming $TAR_NAME.tar.gz to $PACKAGE_NAME..."
mv $TAR_NAME.tar.gz $PACKAGE_NAME
if [ ! "$TARGET_NAME" = "." ]; then
    echo "Moving $PACKAGE_NAME to $TARGET_NAME..."
mv $PACKAGE_NAME $TARGET_NAME
fi
echo
echo "Package creation complete."
echo

1.109 openjdk 1.8.0u202

1.109.1 Available under license :

## Harfbuzz v2.3.1

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## jopt-simple v5.0.4

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<td>Gallium code</td>
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include/GL/glext.h                      Khronos
 include/GL/glxext.h                    Khronos
 include/GL/wglxext.h                   Khronos

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1.113 libapr 1.6.3

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

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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

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

* cvt - IEEE floating point formatting routines.
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1.114 qemu 2.4.0
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/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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

#define TARGET_EPERM 1 /* Operation not permitted */
#define TARGET_ENOENT 2 /* No such file or directory */
#define TARGET_ESRCH 3 /* No such process */
#define TARGET_EINTR 4 /* Interrupted system call */
#define TARGET_EIO 5 /* Input/output error */
#define TARGET_ENXIO 6 /* Device not configured */
#define TARGET_E2BIG 7 /* Argument list too long */
#define TARGET_ENOEXEC 8 /* Exec format error */
#define TARGET_EBADF 9 /* Bad file descriptor */
#define TARGET_ECHILD 10 /* No child processes */
#define TARGET_EDEADLK 11 /* Resource deadlock avoided */
        /* 11 was EAGAIN */
#define TARGET_ENOMEM 12 /* Cannot allocate memory */
#define TARGET_EACCES 13 /* Permission denied */
#define TARGET_EFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EXEXIST 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET_ENFILE 23 /* Too many open files in system */
#define TARGET_EMFILE 24 /* Too many open files */
#define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Illegal seek */
#define TARGET_EREOF 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_EPIPE 32 /* Broken pipe */

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

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

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMSGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45  /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48  /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/\* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50  /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ECONNRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ENOTCONN 57  /* Socket is not connected */
#define TARGET_ESHUTDOWN 58  /* Can't send after socket shutdown */
#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_EPROGRAM 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_ECANCEL  88 /* Operation canceled */
#define TARGET_EIDRM    89 /* Identifier removed */
#define TARGET_ENOMSG   90 /* No message of desired type */
#define TARGET_ELAST    90 /* Must be equal largest errno */

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{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(%""sv", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(%""sv", %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(%""sv", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(%""sv", %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(%""sv", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(%""sv", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(%""sv", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(%""sv", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", "semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR___umtx_op, "__umtx_op", "%s(%#x, %d, %d, %x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(""sv",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(%""sv")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(%""sv",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(%""sv",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "extattrctl", "%s("%s", %d, %d, %d, %d)\r\n", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "extattr_delete_fd", "%s("%s", %d, %d)\r\n", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "extattr_delete_file", "%s("%s", %d, %d)\r\n", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "extattr_delete_link", "%s("%s", %d, %d)\r\n", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "extattr_get_fd", "%s(%d, %d, %d)\r\n", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "extattr_get_file", "%s("%s", %d, %d)\r\n", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "extattr_get_link", "%s("%s", %d, %d)\r\n", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "fchdir", "fchdir", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "fchmod", "fchmod", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "fchown", "fchown", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "fcntl", "fcntl", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "fexecve", "fexecve", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "fgetfh", "fgetfh", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "fgetfsstat", "fgetfsstat", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "fgetitimer", "fgetitimer", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "getegid", "getegid", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "geteuid", "geteuid", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "getfh", "getfh", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "getfsstat", "getfsstat", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "getgid", "getgid", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "getgroups", "getgroups", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "getitimer", "getitimer", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "getlogin", "getlogin", NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s", "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s("%s", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s("%s", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s("%s", %#o, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msctl, "msctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", "%s(%#p, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%#p, %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d,\"%s\",%#x,%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\",%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_prof, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_receivemsg, "receivemsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d,%d,%p)\", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", "%s", NULL, NULL },
{ TARGET_FREEBSD_NR_shUTDOWN, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", "%s", NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s("%s", "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wait, "thr_wait", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NRUnmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d)", NULL, NULL },

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

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

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_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_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigsigpending13 52
#define TARGET_NETBSD_NR_compat_13_secondsigaltstack13 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_getitimer 83
#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85
#define TARGET_NETBSD_NR_windinfo 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_accept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend 101
#define TARGET_NETBSD_NR_compat_43_orecv 102
#define TARGET_NETBSD_NR_compat_13_sigreturn13 103
#define TARGET_NETBSD_NR_bind 104
#define TARGET_NETBSD_NR_setsockopt 105
#define TARGET_NETBSD_NR_listen 106
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13 111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg 113
#define TARGET_NETBSD_NR_compat_43_osendmsg 114
#define TARGET_NETBSD_NR_gettimeofday 116
#define TARGET_NETBSD_NR_getrusage 117
#define TARGET_NETBSD_NR_getsockopt 118
#define TARGET_NETBSD_NR_readv 120
#define TARGET_NETBSD_NR_writev 121
#define TARGET_NETBSD_NR_settimeofday 122
#define TARGET_NETBSD_NR_fchown 123
#define TARGET_NETBSD_NR_fchmod 124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setregid 127
#define TARGET_NETBSD_NR_rename 128
#define TARGET_NETBSD_NR_compat_43_otruncate 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_0killpg 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_ogetdirenties 156
#define TARGET_NETBSD_NR_compat_20_statfs 157
#define TARGET_NETBSD_NR_compat_20_fstatfs 158
#define TARGET_NETBSD_NR_compat_30_getfh 161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 162
#define TARGET_NETBSD_NR_compat_09_osetdomainname 163
#define TARGET_NETBSD_NR_compat_09_ouname 164
#define TARGET_NETBSD_NR_sysarch 165
#define TARGET_NETBSD_NR_compat_10_osemsys 169
#define TARGET_NETBSD_NR_compat_10_omsgsys 170
#define TARGET_NETBSD_NR_compat_10_oshmsys 171
#define TARGET_NETBSD_NR_pread 173
#define TARGET_NETBSD_NR_pwrite 174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime 175
#define TARGET_NETBSD_NR_ntp_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_stat12 188
#define TARGET_NETBSD_NR_compat_12_fstat12 189
#define TARGET_NETBSD_NR_compat_12_lstat12 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_fttruncate 201
#define TARGET_NETBSD_NR___sysctl 202
#define TARGET_NETBSD_NR_mlock 203
#define TARGET_NETBSD_NR_munlock 204
#define TARGET_NETBSD_NR_undelete 205
#define TARGET_NETBSD_NR_futimes 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___semctl 220
#define TARGET_NETBSD_NR_semget 221
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```sh
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```

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Version 2, June 1991

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

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

#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */
#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7
// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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# Default configuration for i386-bsd-user

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=======

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

ROOTDIR ?= ../..

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

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

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@ $^

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $^ 
$(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean

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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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/*
{ 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_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,"%s", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirent, "getdirent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{
    TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_lstatconf, "lstatconf", "%s(\"%s\", %d)", NULL, NULL },
{
    TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_lstat, "lstat", "%s("%s",%p)", NULL, NULL },
{
    TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\",%d)", NULL, NULL },
{
    TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_mindomains, "mindomains", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_mkdir, "mkdir", "%s("%s",%#o)", NULL, NULL },
{
    TARGET_FREEBSD_NR.mkfifo, "mkfifo", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{
    TARGET_FREEBSD_NR_mount, "mount", "mount", NULL, NULL },
{
    TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{
    TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_msys, "msys", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_munmap, "munmap", "munmap", NULL, NULL },
{
    TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{
    TARGET_FREEBSD_NR_openat, "openat", "%s(%d, "%s",%#x,%#o)", NULL, NULL },
{
    TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{
    TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{
    TARGET_FREEBSD_NR_recvmsg, "recvmsg", "recvmsg", NULL, NULL },
{
    TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{
    TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },

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

# Default configuration for sparc-bsd-user

# ****************************************************************************
# * Copyright (c) 2004, 2008 IBM Corporation
# * All rights reserved.
# * This program and the accompanying materials
# * are made available under the terms of the BSD License
# * which accompanies this distribution, and is available at
# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# * IBM Corporation - initial implementation
# ****************************************************************************/

#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1

Open Source Used In ASA-RM 9.15.1 1892
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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/*
 * 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 */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
        /* 67 is obsolete vread */
#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 */
#define TARGET_FREEBSD_NR_mincore  78
#define TARGET_FREEBSD_NR_getgroups  79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp  81
#define TARGET_FREEBSD_NR_setpgid  82
#define TARGET_FREEBSD_NR_setitimer 83
        /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon  85
#define TARGET_FREEBSD_NR_getitimer 86
        /* 87 is old gethostname */
#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_getsockopt 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_setftimeofday 124
  /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
  /* 129 is old truncate */
  /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock  131
#define TARGET_FREEBSD_NR_mkfifo  132
#define TARGET_FREEBSD_NR_sendto  133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
  /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
  /* 141 is old getpeername */
  /* 142 is old gethostid */
  /* 143 is old sethostid */
  /* 144 is old getrlimit */
  /* 145 is old setrlimit */
  /* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
  /* 149 is old quota */
  /* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
  /* 156 is old getdirentories */
#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_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___syscall 199
#define TARGET_FREEBSD_NR___syscall 200
#define TARGET_FREEBSD_NR___syscall 201
#define TARGET_FREEBSD_NR___syscall 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___msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7__shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
    /* 322 is obsolete thr_sleep */
    /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR__setgid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR__mount 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___macsyscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR__mac_get_pid 409
#define TARGET_FREEBSD_NR__mac_get_link 410
#define TARGET_FREEBSD_NR__mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR__mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR__acl_get_link 425
#define TARGET_FREEBSD_NR__acl_set_link 426
#define TARGET_FREEBSD_NR__acl_delete_link 427
#define TARGET_FREEBSD_NR__acl_aclcheck_link  428
#define TARGET_FREEBSD_NR_sigwait  429
#define TARGET_FREEBSD_NR_thr_create  430
#define TARGET_FREEBSD_NR_thr_exit  431
#define TARGET_FREEBSD_NR_thr_self  432
#define TARGET_FREEBSD_NR_thr_kill  433
#define TARGET_FREEBSD_NR__umtx_lock  434
#define TARGET_FREEBSD_NR__umtx_unlock  435
#define TARGET_FREEBSD_NR_jail_attach  436
#define TARGET_FREEBSD_NR_extattr_list_fd  437
#define TARGET_FREEBSD_NR_extattr_list_file  438
#define TARGET_FREEBSD_NR_extattr_list_link  439
#define TARGET_FREEBSD_NR_ksem_timedwait  441
#define TARGET_FREEBSD_NR_thr_suspend  442
#define TARGET_FREEBSD_NR_thr_wake  443
#define TARGET_FREEBSD_NR_kldunloadf  444
#define TARGET_FREEBSD_NR_audit  445
#define TARGET_FREEBSD_NR_auditon  446
#define TARGET_FREEBSD_NR_getauid  447
#define TARGET_FREEBSD_NR_setauid  448
#define TARGET_FREEBSD_NR_getaudit  449
#define TARGET_FREEBSD_NR_setaudit  450
#define TARGET_FREEBSD_NR_getaudit_addr  451
#define TARGET_FREEBSD_NR_setaudit_addr  452
#define TARGET_FREEBSD_NR_auditctl  453
#define TARGET_FREEBSD_NR__umtx_op  454
#define TARGET_FREEBSD_NR_thr_new  455
#define TARGET_FREEBSD_NR_sigqueue  456
#define TARGET_FREEBSD_NR_kmq_open  457
#define TARGET_FREEBSD_NR_kmq_setattr  458
#define TARGET_FREEBSD_NR_kmq_timedreceive  459
#define TARGET_FREEBSD_NR_kmq_timedsend  460
#define TARGET_FREEBSD_NR_kmq_notify  461
#define TARGET_FREEBSD_NR_kmq_unlink  462
#define TARGET_FREEBSD_NR_abort2  463
#define TARGET_FREEBSD_NR_thr_set_name  464
#define TARGET_FREEBSD_NR_aio_fsync  465
#define TARGET_FREEBSD_NR_rtprio_thread  466
#define TARGET_FREEBSD_NR_sctp_peeloff  471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg  472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov  473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg  474
#define TARGET_FREEBSD_NR_pread  475
#define TARGET_FREEBSD_NR_pwrite  476
#define TARGET_FREEBSD_NR_mmap  477
#define TARGET_FREEBSD_NR_lseek  478
#define TARGET_FREEBSD_NR_truncate  479
#define TARGET_FREEBSD_NR_ftruncate  480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_facessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mknodat 497
#define TARGET_FREEBSD_NR_openat 498
#define TARGET_FREEBSD_NR_readlinkat 499
#define TARGET_FREEBSD_NR_renameat 500
#define TARGET_FREEBSD_NR_posix_openpt 501
#define TARGET_FREEBSD_NR_gssd_syscall 502
#define TARGET_FREEBSD_NR_jail_get 503
#define TARGET_FREEBSD_NR_jail_set 504
#define TARGET_FREEBSD_NR_jail_remove 505
#define TARGET_FREEBSD_NR_closefrom 506
#define TARGET_FREEBSD_NR___semctl 507
#define TARGET_FREEBSD_NR_msgctl 508
#define TARGET_FREEBSD_NR_shmctl 509
#define TARGET_FREEBSD_NR_lpathconf 510
#define TARGET_FREEBSD_NR_cap_new 511
#define TARGET_FREEBSD_NR_cap_getrights 512
#define TARGET_FREEBSD_NR_cap_getmode 513
#define TARGET_FREEBSD_NR_pdfork 514
#define TARGET_FREEBSD_NR_pdkill 515
#define TARGET_FREEBSD_NR_pdgetpid 516
#define TARGET_FREEBSD_NR_pselect 517
#define TARGET_FREEBSD_NR_getloginclass 518
#define TARGET_FREEBSD_NR_setloginclass 519
#define TARGET_FREEBSD_NR_rctl_get_racct 520
#define TARGET_FREEBSD_NR_rctl_get_rules 521
#define TARGET_FREEBSD_NR_rctl_get_limits 522
#define TARGET_FREEBSD_NR_rctl_add_rule 523
#define TARGET_FREEBSD_NR_rctl_remove_rule 524
#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void)
 {
  if (DEBUG_TRACE()) {
-     x86emu_dump_regs();
+    if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+        x86emu_dump_xregs();
+    } else {
+        x86emu_dump_regs();
+    }
+
 } if (DEBUG DECODE() && ! DEBUG DECODE_NOPRINT()) {
   printf("%04x:%04x \n", M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
 for (i=0; i<M.x86.enc_pos; i++) {
      sprintf(buf1+2*i,\"%02x\", fetch_data_byte_abs(s,o+i));
 } - printf("%-20s",buf1);
+ printf("%-20s \
buf1);
\textbf{REMARKS:}
\texttt{Handles opcode 0xf,0xc8-0xCF}

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

@@ -1702,14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -r1.1 ops.c
--- ops.c7 Sep 2007 10:01:21 -0000
+++ ops.c20 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;
    }
    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);
} else {
    @@ -2574,6 +2586,8 @@
        }
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    + if (M.x86.intr & INTR_HALTED)
    + break;
    }
    DECODE_CLEAR_SREGVR();
    END_OF_INSTR();
    @@ -2598,16 +2612,21 @@
    } else {
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* REPE */
            - /* move them until CX is ZERO. */
            - while (M.x86.R_CX != 0) {
            + /* move them until (E)CX is ZERO. */
            + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val1 = fetch_data_byte(M.x86.R_SI);
                val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
                - M.x86.R_CX -= 1;
                + if (M.x86.mode & SYSMODE_32BIT_REP)
                + M.x86.R_ECX -= 1;
                + else
                + M.x86.R_CX -= 1;
                M.x86.R_SI += inc;
                M.x86.R_DI += inc;
                if ( (M.x86.mode & SYSMODE_PREFIX_REPE) & (ACCESS_FLAG(F_ZF) == 0) ) break;
                if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
                + if (M.x86.intr & INTR_HALTED)
                + break;
                }
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        } else {
            @@ -2644,8 +2663,8 @@
            TRACE_AND_STEP();

Open Source Used In ASA-RM 9.15.1 1908
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);
        }
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        + M.x86.R_ECX -= 1;
        else
        + M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
        + if (M.x86.intr & INTR_HALTED)
        + break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
            - M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_32BIT_REP)
            + M.x86.R_ECX -= 1;
            else
            + M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            + if (M.x86.intr & INTR_HALTED)
            + break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
        Open Source Used In ASA-RM 9.15.1 1909
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);
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* move them until CX is ZERO. */
        count = M.x86.R_CX;
        /* move them until (E)CX is ZERO. */
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
        else
            M.x86.R_CX = 0;
    } else {
        count = 1;
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
            /* move them until CX is ZERO. */
            count = M.x86.R_CX;
/* move them until (E)CX is ZERO. */
count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    M.x86.R_AX = fetch_data_word(M.x86.R_SI);
}
M.x86.R_SI += inc;
if (M.x86.intr & INTR_HALTED)
    break;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    while (M.x86.R_CX != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        else
            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
    }
    if (M.x86.intr & INTR_HALTED)
        break;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    while (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 (ACCESS_FLAG(F_ZF) == 0)
            break;
    }
    if (M.x86.intr & INTR_HALTED)
        break;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    while (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_CEX -= 1;
else
    M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break; /* zero flag set means equal */
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        /* move them until CX is ZERO. */
        while (M.x86.R_CX != 0) {
            /* move them until (E)CX is ZERO. */
            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                    cmp_long(M.x86.R_EAX, val);
                }
                M.x86.R_CX -= 1;
            }
        }
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        else
            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
        if (M.x86.intr & INTR_HALTED)
            break;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE */
        /* move them until CX is ZERO. */
        while (M.x86.R_CX != 0) {
            /* move them until (E)CX is ZERO. */
            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                    cmp_long(M.x86.R_EAX, val);
                }
                M.x86.R_CX -= 1;
            }
        }
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
/* REPNE */
/* move them until CX is ZERO. */
while (M.x86.R_CX != 0) {
/* move them until (E)CX is ZERO. */
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
    }
    M.x86.R_CX -= 1;
}
val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
cmp_word(M.x86.R_AX, (u16)val);
}
- M.x86.R_CX -= 1;
+             if (M.x86.mode & SYSMODE_32BIT_REP)
+                 M.x86.R_ECX -= 1;
+             else
+                 M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
    break;  /* zero flag set means equal */
+             if (M.x86.intr & INTR_HALTED)
+                 break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
DECODE_PRINTF("RET\t");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\t");
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_CS = pop_word();
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
DECODE_PRINTF("RETF\t");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
M.x86.R_SP += imm;
DECODECLEARSEGOVR();
END_OF_INSTR();
}@@ -3488,10 +3550,10 @@
START_OF_INSTR();
DECODEPRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
 M.x86.R_IP = pop_word();
 M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
 DECODECLEARSEGOVR();
END_OF_INSTR();
}@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
 DECODEPRINTF2("%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 &&
!ACCESSFLAG(F_ZF)) /* (E)CX != 0 and !ZF */
 M.x86.R_IP = ip;
 DECODECLEARSEGOVR();
END_OF_INSTR();
}@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
 DECODEPRINTF2("%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;
 DECODECLEARSEGOVR();
END_OF_INSTR();
}@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
 DECODEPRINTF2("%04x\n", ip);
TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:\", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
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DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODECLEAR_SEG0VR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODECLEAR_SEG0VR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    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.c7 Sep 2007 10:01:21 -0000.1
+++ prim_ops.c16 Jan 2008 14:18:15 -0000.3
@@ -1921,7 +1921,7 @@

void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
    #ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

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

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);
#endif

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) {
        /* 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_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
      -      /* out until CX is ZERO. */
      -      u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
           /* out until (E)CX is ZERO. */
           +      u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
           M.x86.R_ECX : M.x86.R_CX);
      while (count--) {
           [single_out(size);
           M.x86.R_SI += inc;
           ]
           M.x86.R_CX = 0;
      -      if (M.x86.mode & SYSMODE_PREFIX_DATA) {
           
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

Index: sys.c

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
+#endif
#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;
    }
 */*********************************************************/
@@ -265,7 +260,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("outb %#04x \n", addr);
-    return outb(addr);
+    return 0;
    }
 */*********************************************************/
@@ -278,7 +273,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("outw %#04x \n", addr);
-    return outw(addr);
+    return 0;
    }
 */*********************************************************/
@@ -291,7 +286,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("outl %#04x \n", addr);
-    return outl(addr);
+    return 0;
    }
 */*********************************************************/
```
void X86EMU_setMemBase(void *base, size_t size)
{
    -M.mem_base = (int) base;
    +M.mem_base = (unsigned long) base;
    M.mem_size = size;
}

Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h7 Sep 2007 10:01:21 -0000
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -0000
@@ -40,8 +40,6 @@
 #ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

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

-#define DEBUG 0
-#undef DEBUG
*/

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

#define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)

#define DEBUG_SYSINT()        0
#define DEBUG_TRACECALL()     0
#define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP()       0
+# define DEBUG_TRACEJMPREGS()   0
#define DEBUG_SYS()           0
#define DEBUG_MEM_TRACE()     0
#define DEBUG_IO_TRACE()      0

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

#endif 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.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/regs.h15 Jan 2008 13:46:40 -00001.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA  0x00000200
#define SYSMODE_PREFIX_ADDR  0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP   0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR   0x20000000
#define SYSMODE_HALTED       0x40000000
@@ -250,7 +253,8 @@
 SYSMODE_SEGOVR_GS | \n SYSMODE_SEGOVR_SS | \n SYSMODE_PREFIX_DATA | \n - SYSMODE_PREFIX_ADDR)
 + SYSMODE_PREFIX_ADDR    | \n + 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;
#endif DEBUG
-int    check;
+   int    check;
 u16    saved_ip;
 u16    saved_cs;
 int    enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -00001.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>

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#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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That's all there is to it!
# Default configuration for x86_64-bsd-user

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-- Wolfgang Denk

/*      $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $      */

/*
* System call numbers.
*
* created from;        OpenBSD: 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_NRUnmount     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_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_setlogin    50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_sigpending  52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
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#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_sstk        70
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
#define TARGET_OPENBSD_NR_setpgid     82
#define TARGET_OPENBSD_NR_setitimer   83
#define TARGET_OPENBSD_NR_getitimer   86
#define TARGET_OPENBSD_NR_dup2        90
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_select      93
#define TARGET_OPENBSD_NR_fsync       95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket      97
#define TARGET_OPENBSD_NR_connect     98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn   103
#define TARGET_OPENBSD_NR_bind       104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_getsockopt 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_chmod       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_fchmod      132
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_shutdown    134
#define TARGET_OPENBSD_NR_socketpair  135
#define TARGET_OPENBSD_NR_mkfifo      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_nfs_svc     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
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#define TARGET_OPENBSD_NR_setegid     182
#define TARGET_OPENBSD_NR_seteuid     183
#define TARGET_OPENBSD_NR_lfs_bmapv   184
#define TARGET_OPENBSD_NR_lfs_markv   185
#define TARGET_OPENBSD_NR_lfs_segclean  186
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#define TARGET_OPENBSD_NR_ftruncate   201
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#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_shmdt       230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep   240
#define TARGET_OPENBSD_NR_minherit    250
#define TARGET_OPENBSD_NR_rfork       251
#define TARGET_OPENBSD_NR_poll        252
#define TARGET_OPENBSD_NR_isettugid   253
#define TARGET_OPENBSD_NR_lchown      254
#define TARGET_OPENBSD_NR_getsid      255
#define TARGET_OPENBSD_NR_msync       256
#define TARGET_OPENBSD_NR_pipe        263
#define TARGET_OPENBSD_NR_fhopen      264
#define TARGET_OPENBSD_NR_preadv      267
#define TARGET_OPENBSD_NR_pwritev     268
#define TARGET_OPENBSD_NR_kqueue      269
#define TARGET_OPENBSD_NR_kevent      270
#define TARGET_OPENBSD_NR_mlockall    271
#define TARGET_OPENBSD_NR_munlockall  272
#define TARGET_OPENBSD_NR_getpeereid  273
#define TARGET_OPENBSD_NR_getresuid   281
#define TARGET_OPENBSD_NR_setresuid   282
#define TARGET_OPENBSD_NR_getresgid   283
#define TARGET_OPENBSD_NR_setresgid   284
#define TARGET_OPENBSD_NR_mquery      286
#define TARGET_OPENBSD_NR_closefrom   287
#define TARGET_OPENBSD_NR_signalstack 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_msgctld     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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Stefan Reinauer

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endif
include $(TOP)/make.rules

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    SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)
all:
for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done
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Stefan Reinauer

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-- Wolfgang Denk

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

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

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

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

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

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

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

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in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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1.130 libmnl 1.0.4

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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I would like to thank the following people (in alphabetical order):

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired and contributed to many of the changes for version 3.0.0. He also provided the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

Further thanks go to:
- AMD, for donating a copy of "AMD x86-64 Architecture Programmer's Manual".
- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to test and BeeCrypt on many new platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information, reported bugs, provided feedback, or works on including BeeCrypt in any other distros.

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1.141 kmod 25+git0+aca4eca103

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* jar/org/objectweb/asm/ClassVisitor.java
*/opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
* jar/org/objectweb/asm/MethodWriter.java
*/opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
* jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
*/opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
* jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
*/opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
* jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
*/opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
* jar/org/objectweb/asm/util/CheckFieldAdapter.java
*/opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
* jar/org/objectweb/asm/tree/LabelNode.java
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* jar/org/objectweb/asm/tree/IntInsnNode.java
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* jar/org/objectweb/asm/tree/FieldNode.java
*/opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
* jar/org/objectweb/asm/tree/analysis/BasicValue.java
*/opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
* jar/org/objectweb/asm/tree/util/CheckMethodAdapter.java
*/opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
* jar/org/objectweb/asm/tree/ParameterNode.java
*/opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
* jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/util/Printer.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/Context.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/optimizer/MethodNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/commons/Remapping/AnnotationAdapter.java
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/*
/**
 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 * the owner's class name.
 *
 * @param access
 * the method's access flags (see [@link Opcodes]).
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see [@link Type]).
 *
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/xml/Processor.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 *    a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 *    the path to the annotated type argument, wildcard bound, array
 *    element type, or static inner type within 'typeRef'. May be
 *    <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 *    the fist instructions corresponding to the continuous ranges
 *    that make the scope of this local variable (inclusive).
 * @param end
 *    the last instructions corresponding to the continuous ranges
 *    that make the scope of this local variable (exclusive). This
 *    array must have the same size as the 'start' array.
 * @param index
 *    the local variable's index in each range. This array must have
 *    the same size as the 'start' array.
 * @param desc
 *    the class descriptor of the annotation class.
 */

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/* Constructs a new [Textifier]. Subclasses must not use this constructor. Instead, they must use the
version.

@throws IllegalStateException

    If a subclass calls this constructor.

*/

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/* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/Textifiable.java */
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*/
/**
 * Constructs a new [[@link ClassNode]]. *<i>Subclasses must not use this *
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 * version.
 * *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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*/
/**
 * Creates a new JSRInliner. *<i>Subclasses must not use this
* constructor. Instead, they must use the
* [ @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
* version.
*
* @param mv
* the <code>MethodVisitor</code> to send the resulting inlined
* method code to (use <code>null</code> for none).
* @param access
* the method's access flags (see [ @link Opcodes]). This
* parameter also indicates if the method is synthetic and/or
* deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [ @link Type]).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* [ @link Type#getInternalName() getInternalName()]). May be
* <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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*/
/**
 * Creates a new [ @link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 *
 * @param access
 * the method's access flags (see [ @link Opcodes]).
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see [ @link Type Type]).
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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1.145 xmlsec 1.2.26

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References

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* AOL
http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

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1.148 apr 1.6.3

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1.150 python 2.7.15
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.. highlightlang:: none

.. _history-and-license:

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

History of the software
========================

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

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

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

All Python releases are Open Source (see https://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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Mersenne Twister

The `random` module includes code based on a download from
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code::

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

    Before using, initialize the state by using init_genrand(seed)
    or init_by_array(init_key, key_length).
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

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

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Floating point exception control
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

The code is derived from the text of the RFC, including the test suite.
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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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-----------------

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UUencode and UUdecode functions

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

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

XML Remote Procedure Calls

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

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-----------

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

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expat
-----

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libffi
-----

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zlib
----

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Jean-loup Gailly        Mark Adler
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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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================================

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

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

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

The :mod:`random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

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

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

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Sockets
-------

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

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MD5 message digest algorithm
-----------------------------------

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

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

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

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

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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UUencode and UUdecode functions

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

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

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#
# src/base/fthash.c
# src/base/md5.c
# src/base/md5.h
# #
# src/bdf/bdf.c
# src/bdf/bdf.h
# src/bdf/bdfdrivr.c
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# #
# src/pcf/module.mk
# src/pcf/pcf.c
# src/pcf/pcf.h
# src/pcf/pcfdrivr.c
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1.157 e2fsprogs 1.44.3

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Index: tdbsa/tdb.c

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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
@m = "MKDIR pic"
@m = mkdir -p pic

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

image:$(BSD_LIB)

$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHELLIB) $(OBJ))
$(MV) pic/$(BSD_LIB).
$(RM) -f ./$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \n  `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) \n $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \n @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
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This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Theodore Ts'o
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1.166 bridgeutils 1.6
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* /opt/cola/permits/1090868408_1602700218.19/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/descriptor_pool.h
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* /opt/cola/permits/1090868408_1602700218.19/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/descriptor_containers.h
* /opt/cola/permits/1090868408_1602700218.19/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/google/protobuf/pyext/descriptor_pool.cc
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Metadata-Version: 1.1
Name: protobuf
Version: 3.6.1
Summary: Protocol Buffers
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Author: protobuf@googlegroups.com
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Download-URL: https://github.com/google/protobuf/releases
Description: Protocol Buffers are Google's data interchange format
Platform: UNKNOWN
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
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Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4

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* /opt/cola/permits/1090868408_1602700218.19/0/protobuf-3-6-1-1-tar-gz/protobuf-3.6.1/PKG-INFO
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1.168 tdb 2007-06-22
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Index: tdbsa/tdb.c

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

 - trivial database library - private includes
 -
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1.170 libhwloc5 1.11.10

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Version 3, 29 June 2007

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

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

struct dump_file
{
  FILE *fp;
  size_t line;

  char *linebuf;
  size_t lbsize;
  size_t lblevel;

  char *buffer;
  size_t bufsize;
  size_t buflevel;

  size_t parmc;

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

static void
dump_file_free (struct dump_file *file)
{
  free (file->linebuf);
  free (file->buffer);
  free (file->data[0].buffer);
  free (file->data[1].buffer);
static const char *
getparm (const char *buf, const char *parm)
{
    if (!buf)
        return NULL;
    while (*buf)
    {
        const char *p;
        for (p = parm; *p == *buf; p++, buf++)
        {
            if (*p == 0 && *buf == '=')
                return buf + 1;
            buf += strlen (buf) + 1;
        }
    }
    return NULL;
}

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

    if (file->lblevel == 0)
    {
        while (fgets (buf, sizeof buf, file->fp))
        {
            size_t n = strlen (buf);
            if (buf[n-1] == '
')
            {
                file->line++;  
                --n;
            }
        }
    }

    if (n + 1 + file->lblevel > file->lbsize)
    {
        size_t s = ((file->lblevel + n + _GDBM_MAX_DUMP_LINE_LEN) / _GDBM_MAX_DUMP_LINE_LEN)
                * _GDBM_MAX_DUMP_LINE_LEN;
        char *newp = realloc (file->linebuf, s);
        if (!newp)
            return GDBM_MALLOC_ERROR;
        file->linebuf = newp;
        file->lbsize = s;
    }
}
memcpy (file->linebuf + file->lblevel, buf, n);
file->lblevel += n;
if (buf[n])
{
    file->linebuf[file->lblevel] = 0;
    break;
}
}
return file->lblevel;

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

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

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

static int
get_parms (struct dump_file *file)
{
    size_t n;
...
file->buflevel = 0;
file->parmc = 0;
while ((n = get_dump_line (file)))
{
    char *p;

    p = file->linebuf;
    if (*p != '#')
        return 0;
    if (n == 0 || *++p != ':')
    {
        file->lblevel = 0;
        continue;
    }
    if (--n == 0)
    {
        file->lblevel = 0;
        continue;
    }
    if (n + 1 + file->buflevel > file->bufsize)
    {
        size_t s = ((file->buflevel + n + _GDBM_MAX_DUMP_LINE_LEN) / _GDBM_MAX_DUMP_LINE_LEN) * _GDBM_MAX_DUMP_LINE_LEN;
        char *newp = realloc (file->buffer, s);
        if (!newp)
            return GDBM_MALLOC_ERROR;
        file->buffer = newp;
        file->bufsize = s;
    }

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

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

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

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

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

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

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

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

#define META_UID 0x01
#define META_GID 0x02
#define META_MODE 0x04

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

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

if (!((meta_flags & META_UID) && (p = getparm (param, "uid")))))
{
    errno = 0;
    n = strtoul (p, &end, 10);
    if (*end == 0 && errno == 0)
    {
        owner_uid = n;
        meta_flags |= META_UID;
    }
}

p = getparm (param, "group");
if (p)
{
    struct group *gr = getgrnam (p);
    if (gr)
    {
        owner_gid = gr->gr_gid;
        meta_flags |= META_GID;
    }
}

if (!((meta_flags & META_GID) && (p = getparm (param, "gid"))))
{
    errno = 0;
    n = strtoul (p, &end, 10);
    if (*end == 0 && errno == 0)
    {
        owner_gid = n;
        meta_flags |= META_GID;
    }
}
if (!(meta_mask & GDBM_META_MASK_MODE))
{
  p = getparm (param, "mode");
  if (p)
  {
    errno = 0;
    n = strtoul (p, &end, 8);
    if (*end == 0 && errno == 0)
    {
      mode = n & 0777;
      meta_flags |= META_MODE;
    }
  }
}

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

int _gdbm_load_file (struct dump_file *file, GDBM_FILE dbf, GDBM_FILE *ofp,
int replace, int meta_mask)
char *param = NULL;
int rc;
GDBM_FILE tmp = NULL;

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

if (file->parmc)
    {
        file->header = file->buffer;
        file->buffer = NULL;
        file->bufsize = file->buflevel = 0;
    }
else
    return GDBM_ILLEGAL_DATA;

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

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

        rc = read_record (file, NULL, 1, &content);
        if (rc)
            break;
    }

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

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

return rc;  
}  

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

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

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

#define DINCR 128
static int
xdatum_read (FILE *fp, datum *d, size_t *pdmax)
{
    int c;
    size_t dmax = *pdmax;

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

        t = c2x (c);
        if (t == -1)
            return EOF;
        t <<= 4;
        if ((c = fgetc (fp)) == EOF)
            break;
        n = c2x (c);
        if (n == -1)
            return EOF;
        t += n;
        if (d->dsize == dmax)
        {
            char *np = realloc (d->dptr, dmax + DINCR);
            if (!np)
                return GDBM_MALLOC_ERROR;
            d->dptr = np;
            dmax += DINCR;
        }
        d->dptr[d->dsize++] = t;
    }
    *pdmax = dmax;
    if (c == '\n')
        return 0;
    return c;
}

int
gdbm_load_bdb_dump (struct dump_file *file, GDBM_FILE dbf, int replace)
{
    datum xd[2];
    size_t xs[2];
    int rc, c;
    int i;
if (read_bdb_header (file))
    return -1;
memset (&xd, 0, sizeof (xd));
xs[0] = xs[1] = 0;
i = 0;
while ((c = fgetc (file->fp)) == ' ')
{
    rc = xdatum_read (file->fp, &xd[i], &xs[i]);
    if (rc)
        break;
    ++file->line;
    if (i == 1)
    {
        if (gdbm_store (dbf, xd[0], xd[1], replace))
            return gdbm_errno;
    }
    i = !i;
}

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

return rc;
}

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

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

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

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

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

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

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Version 3, 29 June 2007

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* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
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* Fix bug with permanent callbacks that delete themselves when run.
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* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

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* @version 3.0 (December 2000)
* Optimised ANSI C code for the Rijndael cipher (now AES)
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.188 ncurses 6.1+20180630

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Version 2.1, February 1999

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 */

package org.apache.axis.client;

import org.apache.axis.AxisFault;
import org.apache.axis.EngineConfiguration;
import org.apache.axis.components.logger.LogFactory;
import org.apache.axis.deployment.wsdd.WSDDConstants;
import org.apache.axis.message.SOAPBodyElement;
import org.apache.axis.utils.Messages;
import org.apache.axis.utils.Options;
import org.apache.axis.utils.StringUtils;
import org.apache.commons.logging.Log;
import javax.xml.rpc.ServiceException;
import java.io.ByteArrayInputStream;
import java.io.FileInputStream;
import java.io.InputStream;
import java.net.URL;
import java.util.Vector;

/**
 * An admin client object that can be used both from the command line
 * and programmatically.
 *
 * @author Rob Jellinghaus (robj@unrealities.com)
 * @author Doug Davis (dug@us.ibm.com)
 * @author Simeon Simeonov (simeons@macromedia.com)
 */

public class AdminClient
{
    protected static Log log =
        LogFactory.getLog(AdminClient.class.getName());

    private static ThreadLocal defaultConfiguration = new ThreadLocal();

    /**
     * If the user calls this with an EngineConfiguration object, all
     * AdminClients on this thread will use that EngineConfiguration
     * rather than the default one. This is primarily to enable the
     * deployment of custom transports and handlers.
     *
     * @param config the EngineConfiguration which should be used
     */
    public static void setDefaultConfiguration(EngineConfiguration config)
    {
        defaultConfiguration.set(config);
    }

    private static String getUsageInfo()
    {
        String lSep = System.getProperty("line.separator");
        StringBuffer msg = new StringBuffer();
        // 26 is the # of lines in resources.properties
        msg.append(Messages.getMessage("acUsage00")).append(lSep);
        msg.append(Messages.getMessage("acUsage01")).append(lSep);
        msg.append(Messages.getMessage("acUsage02")).append(lSep);
        msg.append(Messages.getMessage("acUsage03")).append(lSep);
        msg.append(Messages.getMessage("acUsage04")).append(lSep);
        msg.append(Messages.getMessage("acUsage05")).append(lSep);
        msg.append(Messages.getMessage("acUsage06")).append(lSep);
        msg.append(Messages.getMessage("acUsage07")).append(lSep);
        msg.append(Messages.getMessage("acUsage08")).append(lSep);
        msg.append(Messages.getMessage("acUsage09")).append(lSep);
        msg.append(Messages.getMessage("acUsage10")).append(lSep);
    }
msg.append(Messages.getMessage("acUsage11"));
msg.append(Messages.getMessage("acUsage12"));
msg.append(Messages.getMessage("acUsage13"));
msg.append(Messages.getMessage("acUsage14"));
msg.append(Messages.getMessage("acUsage15"));
msg.append(Messages.getMessage("acUsage16"));
msg.append(Messages.getMessage("acUsage17"));
msg.append(Messages.getMessage("acUsage18"));
msg.append(Messages.getMessage("acUsage19"));
msg.append(Messages.getMessage("acUsage20"));
msg.append(Messages.getMessage("acUsage21"));
msg.append(Messages.getMessage("acUsage22"));
msg.append(Messages.getMessage("acUsage23"));
msg.append(Messages.getMessage("acUsage24"));
msg.append(Messages.getMessage("acUsage25"));
msg.append(Messages.getMessage("acUsage26"));
return msg.toString();
}

/**
 * the object that represents our call
 */
protected Call call;

/**
 * Construct an admin client w/o a logger.
 * If the client cannot create a call object, then it does not throw an exception.
 * Instead it prints a message to \{@link System.err\}.
 * This is for 'historical reasons'
 */
public AdminClient()
{
    try {
        initAdminClient();
    } catch (ServiceException e) {
        System.err.println(Messages.getMessage("couldntCall00") + "\: \" + e);
        call = null;
    }
}

/**
 * this is a somewhat contrived variant constructor, one that throws an exception
 * if things go wrong.
 * @param ignored
 */
public AdminClient(boolean ignored) throws ServiceException {
initAdminClient();
}

/**
 * core initialisation routine
 *
 * @throws ServiceException
 */
private void initAdminClient() throws ServiceException {
    // Initialize our Service - allow the user to override the
    // default configuration with a thread-local version (see
    // setDefaultConfiguration() above)
    EngineConfiguration config =
      (EngineConfiguration) defaultConfiguration.get();
    Service service;
    if (config != null) {
        service = new Service(config);
    } else {
        service = new Service();
    }
    call = (Call) service.createCall();
}

/**
 * External access to our <code>Call</code> object.
 * This will be null if the non-excepting constructor was used
 * and the construction failed.
 * @return the <code>Call</code> object this instance uses
 */
public Call getCall() {
    return call;
}

/**
 * process the options then run a list call
 * @param opts
 * @return
 * @throws Exception
 */
public String list(Options opts) throws Exception {
    processOpts( opts );
    return list();
}

/**
 * send a list command

* @return the response from the call
* @throws Exception
*/
public String list() throws Exception {
    log.debug( Messages.getMessage("doList00") );
    String str = "<m:list xmlns:m="" + WSDDConstants.URI_WSDD + "/">";
    ByteArrayInputStream input = new ByteArrayInputStream(str.getBytes());
    return process(input);
}

/**
 * process the command line ops, then send a quit command
 * @param opts
 * @return
 * @throws Exception
*/
public String quit(Options opts) throws Exception {
    processOpts( opts );
    return quit();
}

/***
 * root element of the undeploy request
 */
protected static final String ROOT_UNDEPLOY= WSDDConstants.QNAME_UNDEPLOY.getLocalPart();

/***
 * make a quit command
 * @return
 * @throws Exception
*/
public String quit() throws Exception {
    log.debug(Messages.getMessage("doQuit00"));
    String str = "<m:quit xmlns:m="" + WSDDConstants.URI_WSDD + "/">";
    ByteArrayInputStream input = new ByteArrayInputStream(str.getBytes());
    return process(input);
}

/***
 * undeploy a handler
 * @param handlerName name of the handler to undeploy
 * @return
 * @throws Exception
*/
public String undeployHandler(String handlerName) throws Exception {
    log.debug(Messages.getMessage("doQuit00"));
    String str = "<m:"+ROOT_UNDEPLOY +" xmlns:m="" + WSDDConstants.URI_WSDD + "/">" + 
"<handler name="" + handlerName + "/">" +
ByteArrayInputStream input = new ByteArrayInputStream(str.getBytes());
return process(input);
}

/**
 * undeploy a service
 * @param serviceName name of service
 * @return
 * @throws Exception
 */
public String undeployService(String serviceName) throws Exception {
    log.debug(Messages.getMessage("doQuit00"));
    String               str   = "<m:"+ROOT_UNDEPLOY +" xmlns:m=" + WSDDConstants.URI_WSDD + ">
    " + 1nfo.getStr().getBytes());
    return process(input);
}

/**
 * <p>Processes a set of administration commands.</p>
 * <p>The following commands are available:</p>
 * <ul>
 *   <li><code>-l<i>url</i></code> sets the AxisServlet URL</li>
 *   <li><code>-h<i>hostName</i></code> sets the AxisServlet host</li>
 *   <li><code>-p<i>portNumber</i></code> sets the AxisServlet port</li>
 *   <li><code>-s<i>servletPath</i></code> sets the path to the
 *       AxisServlet</li>
 *   <li><code>-f<i>fileName</i></code> specifies that a simple file
 *       protocol should be used</li>
 *   <li><code>-u<i>username</i></code> sets the username</li>
 *   <li><code>-w<i>password</i></code> sets the password</li>
 *   <li><code>-d</code> sets the debug flag (for instance, -ddd would
 *       set it to 3)</li>
 *   <li><code>-t<i>name</i></code> sets the transport chain touse</li>
 *   <li><code>-l</code> will list the currently deployed services</li>
 *   <li><code>-q</code> will quit (???)</li>
 *   <li><code>-p<i>value</i></code> changes the admin password</li>
 *   <li><code>-c<i>xmlConfigFile</i></code> deploys or undeploys
 *       Axis components and web services</li>
 *   <li><code>-u</code></li>
 *   <li><code>-l</code> or <code>-h -p -s</code> are not set, the
 * AdminClient will invoke
 * <code>http://localhost:8080/axis/servlet/AxisServlet</code></li>
 * @param args Commands to process
 * @return XML result or null in case of failure. In the case of multiple
* commands, the XML results will be concatenated, separated by 
* @exception Exception Could be an IO exception, an AxisFault or something else
*
public String process(String[] args) throws Exception {
    StringBuffer sb = new StringBuffer();

    Options opts = new Options( args );
    opts.setDefaultURL( "http://localhost:8080/axis/services/AdminService" );

    if (opts.isFlagSet('d') > 0) {
        // Set logger properties... !!!
    }

    args = opts.getRemainingArgs();

    if ( args == null || opts.isFlagSet('?') > 0) {
        System.out.println(Messages.getMessage("usage00", "AdminClient [Options] [list | <deployment-descriptor-files>]"));
        System.out.println("");
        System.out.println(getUsageInfo());
        return null;
    }

    for ( int i = 0 ; i < args.length ; i++ ) {
        InputStream input = null;

        if ( args[i].equals("list") )
            sb.append( list(opts) );
        else if (args[i].equals("quit"))
            sb.append( quit(opts) );
        else if (args[i].equals("passwd")) {
            System.out.println(Messages.getMessage("changePwd00"));
            if (args[i + 1] == null) {
                System.err.println(Messages.getMessage("needPwd00"));
                return null;
            }
            String str = "<m:passwd xmlns:m="http://xml.apache.org/axis/wsdd/">";
            str += args[i + 1];
            str += "</m:passwd>";
            input = new ByteArrayInputStream(str.getBytes());
            i++;
            sb.append( process(opts, input) );
        } else {  
            if(args[i].indexOf(java.io.File.pathSeparatorChar)==-1){
                System.out.println( Messages.getMessage("processFile00", args[i]) );
                sb.append( process(opts, args[i] ) );
            } else {  

        }
    }
}

public static String list(Options opts) {
    StringBuffer sb = new StringBuffer();

    sb.append(Messages.getMessage("list00", "AdminClient [Options] [list | <deployment-descriptor-files>]"));
    sb.append(getUsageInfo());
    sb.append("");

    return sb.toString();
}

public static String quit(Options opts) {
    return Messages.getMessage("quit00");
}

public static String changePwd(Options opts) {
    return Messages.getMessage("changePwd00");
}

public static String processFile(Options opts, String file) {
    return Messages.getMessage("processFile00", file);  
}
if (tokenizer.hasMoreTokens()) {
    String file = tokenizer.nextToken();
    System.out.println(Messages.getMessage("processFile00", file));
    sb.append(process(opts, file));
    if(tokenizer.hasMoreTokens())
        sb.append("un");
}

return sb.toString();
}/**
 * go from the (parsed) command line to setting properties on our call object.
 * @param opts
 * @throws Exception if call==null
 */
public void processOpts(Options opts) throws Exception {
    if (call == null) {
        throw new Exception(Messages.getMessage("nullCall00"));
    }

    URL address = new URL(opts.getURL());
    setTargetEndpointAddress(address);
    setLogin(opts.getUser(), opts.getPassword());

    String tName = opts.isValueSet('t');
    setTransport(tName);
}

/**
 * set the username and password
 * requires that call!=null
 * @param user username
 * @param password password
 */
public void setLogin(String user, String password) {
    call.setUsername( user);
    call.setPassword( password);
}

/**
 * set the username and password
 * requires that call!=null
 * @param user username
 * @param password password
 */
public void setLogin(String user, String password) {
    call.setUsername( user);
    call.setPassword( password);
}
* set the URL to deploy to
* requires that call!=null
* @param address
*/
public void setTargetEndpointAddress(URL address) {
    call.setTargetEndpointAddress( address );
}

/**
* set the transport to deploy with.
* requires that call!=null
* @param transportName a null or empty value does not trigger a setting
*/
public void setTransport(String transportName) {
    if(transportName != null && !transportName.equals("")) {
        call.setProperty( Call.TRANSPORT_NAME, transportName );
    }
}

public String  process(InputStream input) throws Exception {
    return process(null, input );
}

public String process(URL xmlURL) throws Exception {
    return process(null, xmlURL.openStream() );
}

/**
* process an XML file containing a pre-prepared admin message
* @param xmlFile file to load
* @return
* @throws Exception
*/
public String process(String xmlFile) throws Exception {
    FileInputStream in = new FileInputStream(xmlFile);
    String result =  process(null, in );
    return result ;
}

public String process(Options opts, String xmlFile)  throws Exception {
    processOpts( opts );
    return process( xmlFile );
}

/**
* submit the input stream's contents to the endpoint, return the results as a string.
* The input stream is always closed after the call, whether the request worked or not
* @param opts options -can be null
public String process(Options opts, InputStream input) throws Exception {
    try {
        if (call == null) {
            // validate that the call is not null
            throw new Exception(Messages.getMessage("nullCall00"));
        }

        if (opts != null) {
            // process options if supplied
            processOpts(opts);
        }

        call.setUseSOAPAction(true);
        call.setSOAPActionURI("urn:AdminService");

        Vector result = null;
        Object[] params = new Object[] { new SOAPBodyElement(input) };
        result = (Vector) call.invoke(params);

        if (result == null || result.isEmpty()) {
            throw new AxisFault(Messages.getMessage("nullResponse00"));
        }

        SOAPBodyElement body = (SOAPBodyElement) result.elementAt(0);
        return body.toString();
    } finally {
        input.close();
    }
}

/**
 * Creates an instance of AdminClient and invokes process(args).
 * <p>Diagnostic output goes to log.info.</p>
 * @param args Commands to process
 */
public static void main(String[] args) {
    try {
        AdminClient admin = new AdminClient();

        String result = admin.process(args);
        if (result != null) {

System.out.println( StringUtils.unescapeNumericChar(result) );
}
} catch (AxisFault ae) {
    System.err.println(Messages.getMessage("exception00") + " " + ae.dumpToString());
    System.exit(1);
} catch (Exception e) {
    System.err.println(Messages.getMessage("exception00") + " " + e.getMessage());
    System.exit(1);
}

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1.198 linux-kernel 4.18.45

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 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstart() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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*
* M. Welsh, 6 July 1996
*
*
*/

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### *.makefile*-

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

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

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

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

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

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

## Shared object suffix
SO = so
## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

\%

$.$(STATIC_O): $(srcdir)/%.c

$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c

$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp

$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp

$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c

@echo "generating dependency information for $<"

$(SHELL) -ec '$(GEN_DEPS.c) $< |

| sed \"\"s/\(^*\)\(.*\)\.o \[ :\] */\1\.o $@ : /g\" > $@; |

[ -s $@ ] || rm -f $@’

%.d: $(srcdir)/%.cpp

@echo "generating dependency information for $<"

$(SHELL) -ec '$(GEN_DEPS.cc) $< |

| sed \"\"s/\(^*\)\(.*\)\.o \[ :\] */\1\.o $@ : /g\" > $@; |

[ -s $@ ] || rm -f $@’

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)

$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)

$(RM) $@ && ln -s ${*_F}.$(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup

1.202 gmp 6.1.2

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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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
3a0982da308228d796df35f98d787c5eff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<xsl:template name="isc.copyright.format">
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  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
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1.225 diffutils 3.6

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Version 3, 29 June 2007

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   ============
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Thanks to the following people for their input:
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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.

Author: Julio Merino <jmmv84@gmail.com>

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

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  <xsl:value-of select="$/isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
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  <xsl:if test="translate($rest, '&#9;&#32;', '')">
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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 3a0982da308228d796df35f98d787c5c0f2bb5b6.
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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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1.254 log-rotate 3.14.0

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

*/

minibz2
libbz2.dll test program.
by Yoshioka Tsuneo (tsuneo@rr.ii4u.or.jp)
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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

*/

1.257 rsync 3.1.3
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1.258 zlib 1.2.8

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

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1.259 gawk 4.2.1

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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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the Library into a program that is not a library.

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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
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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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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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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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executable containing the modified Library. (It is understood
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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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
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d) Verify that the user has already received a copy of these
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1.261 zlib 1.2.11

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

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/*

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**1.263 libjpeg 6b**

**1.263.1 Notifications :**
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README for release 6b of 27-Mar-1998

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

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DOCUMENTATION ROADMAP
=====================
This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

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

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

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

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.
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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

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

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

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


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG
currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
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RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a
few of them use this library to do so.) The JPEG FAQ described above lists
some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPLUS software, which provides many useful operations on PPM-format image
files. In particular, it can convert PPM images to and from a wide range of
other formats, thus making cjpeg/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous
sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
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Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read. (For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCEs). This format
has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.264 procps 3.3.15
1.264.1 Available under license:

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

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

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

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

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

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

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

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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,

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1.265 protobuf 3.6.1

1.266 attr 2.4.47

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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.

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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.

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.271 cryptsetup 2.0.4

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