Open Source Used In Firepower 6.3

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1.250 xmlsec1 1.2.20
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1.253 zip 2.31 :1.2.2
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Firepower 6.3 - Backdraft 6.3.0
2.1 @babel/helper-module-imports 7.0.0-beta.32
2.2 @babel/types 7.0.0-beta.32
2.3 @emotion/hash 0.6.3
2.4 @emotion/is-prop-valid 0.6.2
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Firepower 6.3 - Snort build
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6.4 xz 5.0.3
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* 
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* It has been rather extensively modified, including removing RARP
* and fixing a lot of bugs.
* 
* $Id: //depot/acmilan/main/Xpix/boot/rommon/nb_arp.c#2 $
* $Source:  $
* $ */

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1.7 Backbone.js 1.1.0

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jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.27 coreutils 8.24

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1.30 curl 7.44.0

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

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Index: tdba/tdb.c

===================================================================
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+ trivial database library - standalone version

- trivial database library - private includes
-
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from sources obtained from a mirror of:
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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
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1.53 freetype 2.5.3

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[This is the first released version of the library GPL. It is
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.58 gcc-runtime 5.2.0

1.58.1 Available under license :

` Automatically generated by Pod::Man 2.28 (Pod::Simple 3.29)

` Standard preamble:

` ========================================================================
.de Sp \ Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb \ Begin verbatim text
.ft CW
.nf
.ne \S1
..
.de Ve \ End verbatim text
.ft R
.fi
..
` Set up some character translations and predefined strings. ` will give an unbreakable dash, ` will give pi, ` will give a left double quote, and ` will give a right double quote. ` will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. ` and ` expand to ` in nroff,
escape single quotes in literal strings from groff's unicode transform.

if \n(g .ds Aq \{aq
.el .ds Aq '

if the F register is turned on, we'll generate index entries on stderr for

if !nF==2 \{ nr F 0
  \{ if \n(g .if rF .nr rF 1
    .if \nF(\n(g==0)) \{
      if \nF \{
        .de IX
        .tm Index:\$1\\n%\$t\$2
        .if !nF==2 \{
          nr % 0
          nr F 2
        \}
      \}
    \}
  \}
.. rr rF
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

`fudge factors for nroff and troff
.if n \n
  ds #H 0
  ds #V .8m
  ds #F .3m
  ds [#] M1
  ds [#] \n
`fudge factors for nroff and troff
.if n \n
  ds ` &
  ds ^ &
  ds , &
  ds ~ ~
  ds / &

`simple accents for nroff and troff
.if n \n
  ds ' &
  ds ` &
  ds ^ &
  ds , &
  ds ~ ~
  ds / &

`troff and (daisy-wheel) nroff accents
  .ds : \k:\h'-(\n(.wu*8/10-\ast(#H)'\h'\l)\n:u'
  .ds ^ \k:\h'-(\n(.wu*8/10-\ast(#H)'\v'\h'|\n:u'
  .ds th'-(\n(.wu*8/10-\ast(#H)'\s+1\h'|\n:u'
  .ds Th'-(\n(.wu*8/10-\ast(#H)'\s+2\h'|\n:u'
  .ds ae a\h'-(\n(.wu*4/10)'e
  .ds Ae A\h'-(\n(.wu*4/10)'E

`corrections for vroff
.if v .ds ~ \k:\h'-(\n(.wu*9/10-\ast(#H)'\s-2\h'|\n:u'
.if v .ds ^ \k:\h'-(\n(.wu*10/11-\ast(#H)'\v'-.4m\l'\v'-.4m\h'|\n:u'

`corrections for vroff
.if v .ds ~ \k:\h'-(\n(.wu*9/10-\ast(#H)'\s-2\h'|\n:u'
.if v .ds ^ \k:\h'-(\n(.wu*10/11-\ast(#H)'\v'-.4m\l'\v'-.4m\h'|\n:u'
" For nroff, turn off justification. Always turn off hyphenation; it makes
way too many mistakes in technical documents.
.if n .ad 1
.nh
.SH "NAME"
gpl GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1\-GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
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 *
 * You should have received a copy of the GNU Lesser General Public
 * License along with this library; if not, see <http://www.gnu.org/licenses/>.
 */

/*
 * Modified by the GLib Team and others 1997-2000. See the AUTHORS
 * file for a list of people on the GLib Team. See the ChangeLog
 */
* files for a list of changes. These files are distributed with
*/

#ifndef __GMODULE_H__
#define __GMODULE_H__

#include <glib.h>

G_BEGIN_DECLS

/* exporting and importing functions, this is special cased
* to feature Windows dll stubs.
*/
#define G_MODULE_EXPORT extern
#ifdef G_PLATFORM_WIN32
#define G_MODULE_EXPORT __declspec(dllexport)
#else /* !G_PLATFORM_WIN32 */
#define G_MODULE_EXPORT
#endif /* !G_PLATFORM_WIN32 */

typedef enum
{
   G_MODULE_BIND_LAZY = 1 << 0,
   G_MODULE_BIND_LOCAL = 1 << 1,
   G_MODULE_BIND_MASK = 0x03
} GModuleFlags;

typedef struct _GModule GModule;
typedef const gchar* (*GModuleCheckInit) (GModule*module);
typedef void (*GModuleUnload) (GModule*module);

/* return TRUE if dynamic module loading is supported */
GLIB_AVAILABLE_IN_ALL
gboolean g_module_supported (void) G_GNUC_CONST;

/* open a module 'file_name' and return handle, which is NULL on error */
GLIB_AVAILABLE_IN_ALL
GModule* g_module_open (const gchar *file_name,
   GModuleFlags flags);

/* close a previously opened module, returns TRUE on success */
GLIB_AVAILABLE_IN_ALL
gboolean g_module_close (GModule *module);

/* make a module resident so g_module_close on it will be ignored */
GLIB_AVAILABLE_IN_ALL
void g_module_make_resident (GModule *module);
/* query the last module error as a string */
GLIB_AVAILABLE_IN_ALL
const gchar * g_module_error (void);

/* retrieve a symbol pointer from 'module', returns TRUE on success */
GLIB_AVAILABLE_IN_ALL
gboolean g_module_symbol (GModule *module,
        const gchar  *symbol_name,
        gpointer     *symbol);

/* retrieve the file name from an existing module */
GLIB_AVAILABLE_IN_ALL
const gchar * g_module_name (GModule *module);

/* Build the actual file name containing a module. 'directory' is the
* directory where the module file is supposed to be, or NULL or empty
* in which case it should either be in the current directory or, on
* some operating systems, in some standard place, for instance on the
* PATH. Hence, to be absolutely sure to get the correct module,
* always pass in a directory. The file name consists of the directory,
* if supplied, and 'module_name' suitably decorated according to
* the operating system's conventions (for instance lib*.so or *.dll).
* No checks are made that the file exists, or is of correct type.
*/
GLIB_AVAILABLE_IN_ALL
gchar* g_module_build_path (const gchar  *directory,
        const gchar  *module_name);

#ifndef __GTK_DOC_IGNORE__
#define G_OS_WIN32
#define g_module_open g_module_open_utf8
#define g_module_name g_module_name_utf8

GLIB_AVAILABLE_IN_ALL
GModule * g_module_open_utf8 (const gchar *file_name,
        GModuleFlags  flags);

GLIB_AVAILABLE_IN_ALL
const gchar *g_module_name_utf8 (GModule *module);
#endif
#endif

G_END_DECLS
/* This is the public header file for the PCRE library, to be included by applications that call the PCRE functions. 

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*/

#ifndef _PCRE_H
#define _PCRE_H

/* The current PCRE version information. */

#define PCRE_MAJOR 8
#define PCRE_MINOR 31
#define PCRE_PRERELEASE
#define PCRE_DATE 2012-07-06
/* When an application links to a PCRE DLL in Windows, the symbols that are
imported have to be identified as such. When building PCRE, the appropriate
export setting is defined in pcre_internal.h, which includes this file. So we
don't change existing definitions of PCRE_EXPDECL and PCRECPEXPDECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
  #ifdef __cplusplus
    #define PCRE_EXP_DECL extern "C"
  #else
    #define PCRE_EXP_DECL extern
  #endif
  #ifdef __cplusplus
    #ifndef PCRECPEXPDECL
      #define PCRECPEXPDECL extern
    #endif
    #ifndef PCRECPEXPDEFN
      #define PCRECPEXPDEFN
    #endif
  #endif
#endif

/* By default, we use the standard "extern" declarations. */

#ifndef PCRE_EXPDECL
  #ifdef __cplusplus
    #define PCRE_EXPDECL extern "C"
  #else
    #define PCRE_EXPDECL extern
  #endif
  #ifdef __cplusplus
    #ifndef PCRECPEXPDECL
      #define PCRECPEXPDECL extern
    #endif
    #ifndef PCRECPEXPDEFN
      #define PCRECPEXPDEFN
    #endif
  #endif
#endif

/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */

#include <stdlib.h>

/* Allow for C++ users */

#ifndef __cplusplus
  extern "C" {
  #endif

  /*
  */
/* Options. Some are compile-time only, some are run-time only, and some are both, so we keep them all distinct. However, almost all the bits in the options word are now used. In the long run, we may have to re-use some of the compile-time only bits for runtime options, or vice versa. In the comments below, "compile", "exec", and "DFA exec" mean that the option is permitted to be set for those functions; "used in" means that an option may be set only for compile, but is subsequently referenced in exec and/or DFA exec. Any of the compile-time options may be inspected during studying (and therefore JIT compiling). */

#define PCRE_CASELESS 0x00000001 /* Compile */
#define PCRE_MULTILINE 0x00000002 /* Compile */
#define PCRE_DOTALL 0x00000004 /* Compile */
#define PCRE_EXTENDED 0x00000008 /* Compile */
#define PCRE_ANCHORED 0x00000010 /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY 0x00000020 /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA 0x00000040 /* Compile */
#define PCRE_NOTBOL 0x00000080 /* Exec, DFA exec */
#define PCRE_NOTEOL 0x00000100 /* Exec, DFA exec */
#define PCRE_UNGREEDY 0x00000200 /* Compile */
#define PCRE_NOTEMPTY 0x00000400 /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8 0x00000800 /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16 0x00000800 /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE 0x00001000 /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT 0x00004000 /* Compile */
#define PCRE_PARTIAL_SOFT 0x00008000 /* Exec, DFA exec */
#define PCRE_PARTIAL 0x00008000 /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST 0x00010000 /* DFA exec */
#define PCRE_DFA_RESTART 0x00020000 /* DFA exec */
#define PCRE_FIRSTLINE 0x00040000 /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES 0x00080000 /* Compile */
#define PCRE_NEWLINE_CR 0x00100000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF 0x00200000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF 0x00300000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY 0x00400000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF 0x00500000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF 0x00800000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE 0x01000000 /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000 /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000 /* Synonym */
#define PCRE_PARTIAL_HARD 0x08000000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x10000000 /* Exec, DFA exec */
/* Exec-time and get/set-time error codes */

#define PCRE_ERROR_NOMATCH (-1)
#define PCRE_ERROR_NULL (-2)
#define PCRE_ERROR_BADOPTION (-3)
#define PCRE_ERROR_BADMAGIC (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY (-6)
#define PCRE_ERROR_NOSUBSTRING (-7)
#define PCRE_ERROR_MATCHLIMIT (-8)
#define PCRE_ERROR_CALLOUT (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL (-12)
#define PCRE_ERROR_BADPARTIAL (-13)
#define PCRE_ERROR_INTERNAL (-14)
#define PCRE_ERROR_BADCOUNT (-15)
#define PCRE_ERROR_DFA_UITEM (-16)
#define PCRE_ERROR_DFA_UCOND (-17)
#define PCRE_ERROR_DFA_UMLIMIT (-18)
#define PCRE_ERROR_DFA_WSSIZE (-19)
#define PCRE_ERROR_DFA_RECURSE (-20)
#define PCRE_ERROR_RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE (-23)
#define PCRE_ERROR_BADOFFSET (-24)
#define PCRE_ERROR_SHORTUTF8 (-25)
#define PCRE_ERROR_SHORTUTF16 (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)

/* Specific error codes for UTF-8 validity checks */

#define PCRE_UTF8_ERR0 0
#define PCRE_UTF8_ERR1 1
#define PCRE_UTF8_ERR2 2
#define PCRE_UTF8_ERR3 3
#define PCRE_UTF8_ERR4 4
#define PCRE_UTF8_ERR5 5
#define PCRE_UTF8_ERR6 6
#define PCRE_UTF8_ERR7 7
#define PCRE_UTF8_ERR8 8
#define PCRE_UTF8_ERR9 9
#define PCRE_UTF8_ERR10 10
#define PCRE_UTF8_ERR11 11
#define PCRE_UTF8_ERR12 12
#define PCRE_UTF8_ERR13 13
#define PCRE_UTF8_ERR14 14
#define PCRE_UTF8_ERR15 15
#define PCRE_UTF8_ERR16 16
#define PCRE_UTF8_ERR17 17
#define PCRE_UTF8_ERR18 18
#define PCRE_UTF8_ERR19 19
#define PCRE_UTF8_ERR20 20
#define PCRE_UTF8_ERR21 21

/* Specific error codes for UTF-16 validity checks */

#define PCRE_UTF16_ERR0 0
#define PCRE_UTF16_ERR1 1
#define PCRE_UTF16_ERR2 2
#define PCRE_UTF16_ERR3 3
#define PCRE_UTF16_ERR4 4

/* Request types for pcre_fullinfo() */

#define PCRE_INFO_OPTIONS 0
#define PCRE_INFO_SIZE 1
#define PCRE_INFO_CAPTURECOUNT 2
#define PCRE_INFO_BACKREFMAX 3
#define PCRE_INFO_FIRSTBYTE 4
#define PCRE_INFO_FIRSTCHAR 4  /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE 5
#define PCRE_INFO_LASTLITERAL 6
#define PCRE_INFO_NAMEENTRYSIZE 7
#define PCRE_INFO_NAMECOUNT 8
#define PCRE_INFO_NAMETABLE 9
#define PCRE_INFO_STUDYSIZE 10
#define PCRE_INFO_DEFAULT_TABLES 11
#define PCRE_INFO_OKPARTIAL 12
#define PCRE_INFO_JCHANGED 13
#define PCRE_INFO_HASCRORLF 14
#define PCRE_INFO_MINLENGTH 15
#define PCRE_INFO_JIT 16
#define PCRE_INFO_JITSIZE 17
#define PCRE_INFO_MAXLOOKBEHIND 18

/* Request types for pcre_config(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_CONFIG_UTF8 0
#define PCRE_CONFIG_NEWLINE 1
#define PCRE_CONFIG_LINK_SIZE 2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT 4
#define PCRE_CONFIG_STACKRECURSE 5
#define PCRE_CONFIG_UNICODE_PROPERTIES 6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION 7
#define PCRE_CONFIG_BSR 8
#define PCRE_CONFIG_JIT 9
#define PCRE_CONFIG_UTF16 10
#define PCRE_CONFIG_JITTARGET 11

/* Request types for pcre_study(). Do not re-arrange, in order to remain compatible. */

#define PCRE_STUDY_JIT_COMPILE 0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE 0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE 0x0004

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine these bits, just add new ones on the end, in order to remain compatible. */

#define PCRE_EXTRA_STUDY_DATA 0x0001
#define PCRE_EXTRA_MATCH_LIMIT 0x0002
#define PCRE_EXTRA_CALLOUT_DATA 0x0004
#define PCRE_EXTRA_TABLES 0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION 0x0010
#define PCRE_EXTRA_MARK 0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT 0x0040

/* Types */

struct real_pcre; /* declaration; the definition is private */
typedef struct real_pcre pcre;

struct real_pcre16; /* declaration; the definition is private */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain...*/
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pc_re_internal.h. */
#endif PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */
#endif PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in
such as way as to be extensible. Always add new fields at the end, in order to
remain compatible. */
typedef struct pcre_extra {
unsigned long int flags; /* Bits for which fields are set */
void *study_data; /* Opaque data from pcre_study() */
unsigned long int match_limit; /* Maximum number of calls to match() */
void *callout_data; /* Data passed back in callouts */
const unsigned char *tables; /* Pointer to character tables */
unsigned long int match_limit_recursion; /* Max recursive calls to match() */
unsigned char **mark; /* For passing back a mark pointer */
void *executable_jit; /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */
typedef struct pcre16_extra {
unsigned long int flags; /* Bits for which fields are set */
void *study_data; /* Opaque data from pcre_study() */
unsigned long int match_limit; /* Maximum number of calls to match() */
void *callout_data; /* Data passed back in callouts */
const unsigned char *tables; /* Pointer to character tables */
unsigned long int match_limit_recursion; /* Max recursive calls to match() */
PCRE_UCHAR16 **mark; /* For passing back a mark pointer */
void *executable_jit; /* Contains a pointer to a compiled jit code */
} pcre16_extra;

/* The structure for passing out data via the pcre_callout_function. We use a
structure so that new fields can be added on the end in future versions,
without changing the API of the function, thereby allowing old clients to work without modification. */

typedef struct pcre_callout_block {
    int          version;     /* Identifies version of block */
    /* ------------------------ Version 0 ------------------------------- */
    int          callout_number; /* Number compiled into pattern */
    int          *offset_vector; /* The offset vector */
    PCRE_SPTR     subject;     /* The subject being matched */
    int          subject_length; /* The length of the subject */
    int          start_match;   /* Offset to start of this match attempt */
    int          current_position; /* Where we currently are in the subject */
    int          capture_top;   /* Max current capture */
    int          capture_last;  /* Most recently closed capture */
    void        *callout_data;  /* Data passed in with the call */
    /* ------------------- Added for Version 1 -------------------------- */
    int          pattern_position; /* Offset to next item in the pattern */
    int          next_item_length; /* Length of next item in the pattern */
    /* ------------------- Added for Version 2 -------------------------- */
    const unsigned char *mark; /* Pointer to current mark or NULL */
    /* ------------------------------------------------------------------ */
} pcre_callout_block;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_callout_block {
    int          version;     /* Identifies version of block */
    /* ------------------------ Version 0 ------------------------------- */
    int          callout_number; /* Number compiled into pattern */
    int          *offset_vector; /* The offset vector */
    PCRE_SPTR16  subject;     /* The subject being matched */
    int          subject_length; /* The length of the subject */
    int          start_match;   /* Offset to start of this match attempt */
    int          current_position; /* Where we currently are in the subject */
    int          capture_top;   /* Max current capture */
    int          capture_last;  /* Most recently closed capture */
    void        *callout_data;  /* Data passed in with the call */
    /* ------------------- Added for Version 1 -------------------------- */
    int          pattern_position; /* Offset to next item in the pattern */
    int          next_item_length; /* Length of next item in the pattern */
    /* ------------------- Added for Version 2 -------------------------- */
    const PCRE_UCHAR16 *mark; /* Pointer to current mark or NULL */
    /* ------------------------------------------------------------------ */
} pcre16_callout_block;

/* Indirection for store get and free functions. These can be set to alternative malloc/free functions if required. Special ones are used in the non-recursive case for "frames". There is also an optional callout function
that is triggered by the (?) regex item. For Virtual Pascal, these definitions have to take another form. */

#ifndef VPCOMPAT
PCRE_EXP_DECL void *(*pcre_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_free)(void *);
PCRE_EXP_DECL void *(*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_stack_free)(void *);
PCRE_EXP_DECL int   (*pcre_callout)(pcre_callout_block *);

PCRE_EXP_DECL void *(*pcre16_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_free)(void *);
PCRE_EXP_DECL void *(*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int   (*pcre16_callout)(pcre16_callout_block *);
#else   /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void  pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void  pcre_stack_free(void *);
PCRE_EXP_DECL int   pcre_callout(pcre_callout_block *);
#endif  /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */
typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
       const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
       const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **,
       int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
       int *, const unsigned char *);
PCRE_EXP_DECL int  pcre_config(int, void *);
PCRE_EXP_DECL int  pcre16_config(int, void *);
PCRE_EXP_DECL int  pcre_copy_named_substring(const pcre *, const char *,
       int *, int, const char *, char *, int);
PCRE_EXP_DECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16, int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_copy_substring(const char *, int *, int, int, char *, int);
PCRE_EXPDECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_dfa_exec(const pcre *, const pcre_extra *, const char *, int, int, int, int *, int, int *, int);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *, PCRE_SPTR16, int, int, int, int *, int, int *, int);
PCRE_EXP_DECL int pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR, int, int, int, int *, int);
PCRE_EXPDECL int pcre16_exec(const pcre16 *, const pcre16_extra *, PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_fullinfo(const pcre *, const pcre_extra *, int, void *);
PCRE_EXPDECL int pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int, void *);
PCRE_EXP_DECL int pcre_get_named_substring(const pcre *, const char *, int *, int, const char *, const char **);
PCRE_EXP_DECL int pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16, int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int pcre_get_stringtable_entries(const pcre *, const char *, char **, char **);
PCRE_EXP_DECL int pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16, PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int pcre_get_substring(const char *, int *, int, int, const char **);
PCRE_EXP_DECL int pcre16_get_substring(PCRE_SPTR16, int *, int, int, PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_substring_list(const char *, int *, int, const char **);
PCRE_EXP_DECL int pcre16_get_substring_list(PCRE_SPTR16, int *, int, PCRE_SPTR16 *);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int pcre_refcount(pcre *, int);
PCRE_EXP_DECL int pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, const pcre16_extra *, PCRE_SPTR16, int, const char **);
PCRE_EXP DECL void pcre_free_study(pcre_extra *);
PCRE_EXPDECL void pcre16_free_study(pcre16_extra *);
PCRE_EXPDECL const char *pcre_version(void);
PCRE_EXPDECL const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXPDECL int pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
    const unsigned char *);
PCRE_EXPDECL int pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
    const unsigned char *);
PCRE_EXPDECL int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *
    ,
    PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */

PCRE_EXPDECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXPDECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXPDECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXPDECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXPDECL void pcre_assign_jit_stack(pcre_extra *
    ,
    pcre_jit_callback, void *);
PCRE_EXPDECL void pcre16_assign_jit_stack(pcre16_extra *
    ,
    pcre16_jit_callback, void *);

#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* End of pcre.h */

PCRE LICENCE

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

End
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527
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# Run this script with the first argument being the location of
# gnulib's update-copyright script. Any other arguments are ignored.
# FSF copyright notices in the glibc source directory containing this
# script will be updated; glibc must then be built to update generated
# files. Copyright dates in --version copyright notices are not
# updated.

set -e

export LC_ALL=C
export UPDATE_COPYRIGHT_FORCE=1
export UPDATE_COPYRIGHT_USE_INTERVALS=2
export UPDATE_COPYRIGHT_MAX_LINE_LENGTH=79

update_script=$1

if ! [ -f "$update_script" ]; then
    echo "error: first argument must point to gnulib update-copyright script" >&2
    exit 1
fi

fi

cd "$dir name "$0")/..

files=$(find . -type f | sed 's|\n|/|' | grep -v '.*\.git')
```
for f in $files; do
case $f in
COPYING | COPYING.LIB | manual/fdl-1.3.texi | manual/lgpl-2.1.texi)
    # Licenses imported verbatim from FSF sources.
    ;;
    manual/texinfo.tex | scripts/config.guess | scripts/config.sub \
    | scripts/install-sh | scripts/mkinstalldirs | scripts/move-if-change)
    # Other files imported verbatim from other GNU repositories.
    ;;
p0/*.po)
    # Files imported verbatim from the Translation Project.
    ;;
INSTALL | intl/plural.c | locale/C-translit.h \
    | locale/programs/charmap-kw.h | locale/programs/locfile-kw.h \
    | po/libc.pot | sysdeps/gnu/errlist.c)
    # Generated files.
    ;;
    configure | */configure | preconfigure | */preconfigure)
    # Possibly generated files.
    if ! [ -f "$f.ac" ]; then
"$update_script" "$f"
    fi
    ;;
grp/initgroups.c | misc/bits/stab.def | posix/regex.h \
    | sysdeps/wordsize-32/divdi3.c)
    # Pre-1991 gaps in copyright years, so cannot use a single range.
    UPDATE_COPYRIGHT_USE_INTERVALS=1 "$update_script" "$f"
    ;;
"
"$update_script" "$f"
    ;;
esac
done

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Cobra is both a library for creating powerful modern CLI applications as well as a program to generate applications and command files.

Many of the most widely used Go projects are built using Cobra including:

* [Kubernetes](http://kubernetes.io/)
* [Hugo](http://gohugo.io)
* [rkt](https://github.com/coreos/rkt)
# Overview

Cobra is a library providing a simple interface to create powerful modern CLI interfaces similar to git & go tools.

Cobra is also an application that will generate your application scaffolding to rapidly develop a Cobra-based application.

Cobra provides:
* Easy subcommand-based CLIs: `app server`, `app fetch`, etc.
* Fully POSIX-compliant flags (including short & long versions)
* Nested subcommands
* Global, local and cascading flags
* Easy generation of applications & commands with `cobra init appname` & `cobra add cmdname`
* Intelligent suggestions (`app server`... did you mean `app server`?)
* Automatic help generation for commands and flags
* Automatic detailed help for `app help [command]`
* Automatic help flag recognition of `[--help]`, etc.
* Automatically generated bash autocomplete for your application
* Automatically generated man pages for your application
* Command aliases so you can change things without breaking them
* The flexibility to define your own help, usage, etc.
* Optional tight integration with [viper](http://github.com/spf13/viper) for 12-factor apps

Cobra has an exceptionally clean interface and simple design without needless constructors or initialization methods.
Applications built with Cobra commands are designed to be as user-friendly as possible. Flags can be placed before or after the command (as long as a confusing space isn’t provided). Both short and long flags can be used. A command need not even be fully typed. Help is automatically generated and available for the application or for a specific command using either the help command or the `--help` flag.

# Concepts

Cobra is built on a structure of commands, arguments & flags.

**Commands** represent actions, **Args** are things and **Flags** are modifiers for those actions.

The best applications will read like sentences when used. Users will know how to use the application because they will natively understand how to use it.

The pattern to follow is

`APPNAME VERB NOUN --ADJECTIVE.`

or

`APPNAME COMMAND ARG --FLAG`

A few good real world examples may better illustrate this point.

In the following example, 'server' is a command, and 'port' is a flag:

    hugo server --port=1313

In this command we are telling Git to clone the url bare.

    git clone URL --bare

## Commands

Command is the central point of the application. Each interaction that the application supports will be contained in a Command. A command can have children commands and optionally run an action.

In the example above, 'server' is the command.

A Command has the following structure:

```
go
type Command struct {
    Use string // The one-line usage message.
    Short string // The short description shown in the 'help' output.
    Long string // The long message shown in the 'help <this-command>' output.
    Run func(cmd *Command, args []string) // Run runs the command.
}
## Flags

A Flag is a way to modify the behavior of a command. Cobra supports fully POSIX-compliant flags as well as the Go [flag package](https://golang.org/pkg/flag/). A Cobra command can define flags that persist through to children commands and flags that are only available to that command.

In the example above, ‘port’ is the flag.

Flag functionality is provided by the [pflag library](https://github.com/spf13/pflag), a fork of the flag standard library which maintains the same interface while adding POSIX compliance.

## Usage

Cobra works by creating a set of commands and then organizing them into a tree. The tree defines the structure of the application.

Once each command is defined with its corresponding flags, then the tree is assigned to the commander which is finally executed.

# Installing

Using Cobra is easy. First, use `go get` to install the latest version of the library. This command will install the `cobra` generator executable along with the library and its dependencies:

    go get -u github.com/spf13/cobra/cobra

Next, include Cobra in your application:

```go
import "github.com/spf13/cobra"
```

# Getting Started

While you are welcome to provide your own organization, typically a Cobra-based application will follow the following organizational structure:

```bash
...  &amp;#9662; appName/
    &amp;#9662; cmd/
        add.go
        your.go
        commands.go
...```
In a Cobra app, typically the main.go file is very bare. It serves one purpose: initializing Cobra.

```
package main

import (  
  "fmt"  
  "os"  

  "{pathToYourApp}/cmd"
)

func main() {  
  if err := cmd.RootCmd.Execute(); err != nil {  
    fmt.Println(err)  
    os.Exit(1)  
  }  
}
```

## Using the Cobra Generator

Cobra provides its own program that will create your application and add any commands you want. It's the easiest way to incorporate Cobra into your application.

In order to use the cobra command, compile it using the following command:

```
go get github.com/spf13/cobra/cobra
```

This will create the cobra executable under your `$GOPATH/bin` directory.

### cobra init

The `cobra init [yourApp]` command will create your initial application code for you. It is a very powerful application that will populate your program with the right structure so you can immediately enjoy all the benefits of Cobra. It will also automatically apply the license you specify to your application.

Cobra init is pretty smart. You can provide it a full path, or simply a path similar to what is expected in the import.

```
cobra init github.com/spf13/newAppName
```
### cobra add

Once an application is initialized Cobra can create additional commands for you. Let's say you created an app and you wanted the following commands for it:

* app serve
* app config
* app config create

In your project directory (where your main.go file is) you would run the following:

```bash
cobra add serve
cobra add config
cobra add create -p 'configCmd'
```

*Note: Use camelCase (not snake_case/snake-case) for command names. Otherwise, you will encounter errors. For example, `cobra add add-user` is incorrect, but `cobra add addUser` is valid.*

Once you have run these three commands you would have an app structure similar to the following:

```
▾ app/
▾ cmd/
serve.go
config.go
create.go
main.go
```

At this point you can run `go run main.go` and it would run your app. `go run main.go serve`, `go run main.go config`, `go run main.go config create` along with `go run main.go help serve`, etc. would all work.

Obviously you haven't added your own code to these yet. The commands are ready for you to give them their tasks. Have fun!

### Configuring the cobra generator

The Cobra generator will be easier to use if you provide a simple configuration file which will help you eliminate providing a bunch of repeated information in flags over and over.

An example ~/.cobra.yaml file:
You can specify no license by setting `license` to `none` or you can specify a custom license:

```yaml
license:
  header: This file is part of {{ .appName }}.
  text: |
    {{ .copyright }}

  This is my license. There are many like it, but this one is mine.
  My license is my best friend. It is my life. I must master it as I must master my life.
```

You can also use built-in licenses. For example, **GPLv2**, **GPLv3**, **LGPL**,**AGPL**, **MIT**, **2-Clause BSD** or **3-Clause BSD**.

## Manually implementing Cobra

To manually implement Cobra you need to create a bare main.go file and a RootCmd file. You will optionally provide additional commands as you see fit.

### Create the root command

The root command represents your binary itself.

#### Manually create rootCmd

Cobra doesn't require any special constructors. Simply create your commands.

Ideally you place this in app/cmd/root.go:

```go
var RootCmd = &cobra.Command{
  Use:   "hugo",
  Short: "Hugo is a very fast static site generator",
  Long: `A Fast and Flexible Static Site Generator built with
         love by spf13 and friends in Go.
         Complete documentation is available at http://hugo.spf13.com`
  Run: func(cmd *cobra.Command, args []string) {
    // Do Stuff Here
  }
}
```
You will additionally define flags and handle configuration in your init() function.

For example cmd/root.go:

```go
import (
    "fmt"
    "os"
)

homedir "github.com/mitchellh/go-homedir"
"github.com/spf13/cobra"
"github.com/spf13/viper"
)

func init() {  
cobra.OnInitialize(initConfig)
RootCmd.PersistentFlags().StringVar(&cfgFile, "config", "", "config file (default is $HOME/.cobra.yaml)")
RootCmd.PersistentFlags().StringVarP(&projectBase, "projectbase", "b", "", "base project directory eg. github.com/spf13/")
RootCmd.PersistentFlags().StringP("author", "a", "YOUR NAME", "Author name for copyright attribution")
RootCmd.PersistentFlags().StringP(&userLicense, "license", "", "Name of license for the project (can provide ‘licensetext’ in config)")
RootCmd.PersistentFlags().Bool("viper", true, "Use Viper for configuration")
viper.BindPFlag("author", RootCmd.PersistentFlags().Lookup("author"))
viper.BindPFlag("projectbase", RootCmd.PersistentFlags().Lookup("projectbase"))
viper.BindPFlag("useViper", RootCmd.PersistentFlags().Lookup("viper"))
viper.SetDefault("author", "NAME HERE <EMAIL ADDRESS>")
viper.SetDefault("license", "apache")
}

func Execute() {  
RootCmd.Execute()
}

func initConfig() {  
    // Don't forget to read config either from cfgFile or from home directory!
if cfgFile != "" {  
    // Use config file from the flag.
viper.SetConfigFile(cfgFile)
} else {  
    // Find home directory.
home, err := homedir.Dir()
if err != nil {
    fmt.Println(err)
os.Exit(1)
```
```go
package main
import (  
  "fmt"  
  "os" 
  "{pathToYourApp}/cmd"
)

func main() {  
  if err := cmd.RootCmd.Execute(); err != nil {  
    fmt.Println(err)  
    os.Exit(1)  
  }  
}
```

### Create additional commands

Additional commands can be defined and typically are each given their own file inside of the cmd directory.

If you wanted to create a version command you would create cmd/version.go and populate it with the following:

```
```
### Attach command to its parent

If you notice in the above example we attach the command to its parent. In this case the parent is the rootCmd. In this example we are attaching it to the root, but commands can be attached at any level.

```go
RootCmd.AddCommand(versionCmd)
```

### Remove a command from its parent

Removing a command is not a common action in simple programs, but it allows 3rd parties to customize an existing command tree.

In this example, we remove the existing `VersionCmd` command of an existing root command, and we replace it with our own version:

```go
mainlib.RootCmd.AddCommand(versionCmd)
```

### Working with Flags

Flags provide modifiers to control how the action command operates.
### Assign flags to a command

Since the flags are defined and used in different locations, we need to define a variable outside with the correct scope to assign the flag to work with.

```go
var Verbose bool
var Source string
```

There are two different approaches to assign a flag.

### Persistent Flags

A flag can be 'persistent' meaning that this flag will be available to the command it's assigned to as well as every command under that command. For global flags, assign a flag as a persistent flag on the root.

```go
RootCmd.PersistentFlags().BoolVarP(&Verbose, "verbose", "v", false, "verbose output")
```

### Local Flags

A flag can also be assigned locally which will only apply to that specific command.

```go
RootCmd.Flags().StringVarP(&Source, "source", "s", ", "source directory to read from")
```

### Bind Flags with Config

You can also bind your flags with [viper](https://github.com/spf13/viper):

```go
var author string
func init() {
RootCmd.PersistentFlags().StringVar(&author, "author", "YOUR NAME", "Author name for copyright attribution")
viper.BindPFlag("author", RootCmd.PersistentFlags().Lookup("author"))
}
```

In this example the persistent flag `author` is bound with `viper`.

**Note**, that the variable `author` will not be set to the value from config, when the `--author` flag is not provided by user.
More in [viper documentation](https://github.com/spf13/viper#working-with-flags).

### Example

In the example below, we have defined three commands. Two are at the top level and one (cmdTimes) is a child of one of the top commands. In this case the root is not executable meaning that a subcommand is required. This is accomplished by not providing a 'Run' for the 'rootCmd'.

We have only defined one flag for a single command.

More documentation about flags is available at https://github.com/spf13/pflag

```go
```
var cmdTimes = &cobra.Command{
Use:   "times [# times] [string to echo]",
Short: "Echo anything to the screen more times",
Long: `echo things multiple times back to the user by providing
    a count and a string.`,
Run: func(cmd *cobra.Command, args []string) {
    for i := 0; i < echoTimes; i++ {
        fmt.Println("Echo: " + strings.Join(args, " "))
    }
}
}

cmdTimes.Flags().IntVarP(&echoTimes, "times", "t", 1, "times to echo the input")

var rootCmd = &cobra.Command{Use: "app"}
rootCmd.AddCommand(cmdPrint, cmdEcho)
    cmdEcho.AddCommand(cmdTimes)
rootCmd.Execute()
```

--

For a more complete example of a larger application, please checkout [Hugo](http://gohugo.io).

### The Help Command

Cobra automatically adds a help command to your application when you have subcommands. This will be called when a user runs 'app help'. Additionally, help will also support all other commands as input. Say, for instance, you have a command called 'create' without any additional configuration; Cobra will work when 'app help create' is called. Every command will automatically have the ' --help' flag added.

#### Example

The following output is automatically generated by Cobra. Nothing beyond the command and flag definitions are needed.

> hugo help

hugo is the main command, used to build your Hugo site.

Hugo is a Fast and Flexible Static Site Generator
    built with love by spf13 and friends in Go.

Complete documentation is available at http://gohugo.io/

Usage:
  hugo [flags]
hugo [command]

Available Commands:

server  Hugo runs its own webserver to render the files
version  Print the version number of Hugo
config  Print the site configuration
check  Check content in the source directory
benchmark  Benchmark hugo by building a site a number of times.
convert  Convert your content to different formats
new  Create new content for your site
list  Listing out various types of content
undraft  Undraft changes the content's draft status from 'True' to 'False'
genautocomplete  Generate shell autocompletion script for Hugo
gendoc  Generate Markdown documentation for the Hugo CLI.
genman  Generate man page for Hugo
import  Import your site from others.

Flags:

-b, --baseURL="": hostname (and path) to the root, e.g. http://spf13.com/
-D, --buildDrafts[=false]: include content marked as draft
-F, --buildFuture[=false]: include content with publishdate in the future
  --cacheDir="": filesystem path to cache directory. Defaults: STMPDIR/hugo_cache/
  --canonifyURLs[=false]: if true, all relative URLs will be canonicalized using baseURL
  --config="": config file (default is path/config.yaml|json|toml)
-d, --destination="": filesystem path to write files to
  --disableRSS[=false]: Do not build RSS files
  --disableSitemap[=false]: Do not build Sitemap file
  --editor="": edit new content with this editor, if provided
  --ignoreCache[=false]: Ignores the cache directory for reading but still writes to it
  --log[=false]: Enable Logging
  --logFile="": Log File path (if set, logging enabled automatically)
  --noTimes[=false]: Don't sync modification time of files
  --pluralizeListTitles[=true]: Pluralize titles in lists using inflect
  --preserveTaxonomyNames[=false]: Preserve taxonomy names as written ("Gérard Depardieu" vs "gerard-depardieu")
-s, --source="": filesystem path to read files relative from
  --stepAnalysis[=false]: display memory and timing of different steps of the program
-t, --theme="": theme to use (located in /themes/THEMENAME/)
  --uglyURLs[=false]: if true, use /filename.html instead of /filename/
-v, --verbose[=false]: verbose output
  --verboseLog[=false]: verbose logging
-w, --watch[=false]: watch filesystem for changes and recreate as needed

Use "hugo [command] --help" for more information about a command.

Help is just a command like any other. There is no special logic or behavior around it. In fact, you can provide your own if you want.
### Defining your own help

You can provide your own Help command or your own template for the default command to use.

The default help command is

```go
func (c *Command) initHelp() {
    if c.helpCommand == nil {
        c.helpCommand = &Command{
            Use:   "help [command]",
            Short: "Help about any command",
            Long: `Help provides help for any command in the application.
            Simply type ` + c.Name() + ` help [path to command] for full details.`,
            Run: c.HelpFunc(),
        }
        c.AddCommand(c.helpCommand)
    }
}
```

You can provide your own command, function or template through the following methods:

```go
command.SetHelpCommand(cmd *Command)
command.SetHelpFunc(f func(*Command, []string))
command.SetHelpTemplate(s string)
```

The latter two will also apply to any children commands.

## Usage

When the user provides an invalid flag or invalid command, Cobra responds by showing the user the 'usage'.

### Example

You may recognize this from the help above. That's because the default help embeds the usage as part of its output.

Usage:

```
hugo [flags]
hugo [command]
```

Available Commands:
server          Hugo runs its own webserver to render the files
version         Print the version number of Hugo
config          Print the site configuration
check           Check content in the source directory
benchmark       Benchmark hugo by building a site a number of times.
convert         Convert your content to different formats
new             Create new content for your site
list            Listing out various types of content
undraft         Undraft changes the content's draft status from 'True' to 'False'
genautocomplete Generate shell autocompletion script for Hugo
gendoc          Generate Markdown documentation for the Hugo CLI.
genman          Generate man page for Hugo
import          Import your site from others.

Flags:
-b, --baseUrl="": hostname (and path) to the root, e.g. http://spf13.com/
-D, --buildDrafts[]=false]: include content marked as draft
-F, --buildFuture[]=false]: include content with publishdate in the future
  --cacheDir="": filesystem path to cache directory. Defaults: STMPDIR/hugo_cache/
  --canonifyURLs[]=false]: if true, all relative URLs will be canonicalized using baseURL
  --config="": config file (default is path/config.yaml|json|toml)
-d, --destination="": filesystem path to write files to
  --disableRSS[]=false]: Do not build RSS files
  --disableSitemap[]=false]: Do not build Sitemap file
  --editor="": edit new content with this editor, if provided
  --ignoreCache[]=false]: Ignores the cache directory for reading but still writes to it
  --log[]=false]: Enable Logging
  --logFile="": Log File path (if set, logging enabled automatically)
  --noTimes[]=false]: Don't sync modification time of files
  --pluralizeListTitles[]=true]: Pluralize titles in lists using inflect
  --preserveTaxonomyNames[]=false]: Preserve taxonomy names as written ("Gérard Depardieu" vs "gerard-depardieu")
-s, --source="": filesystem path to read files relative from
  --stepAnalysis[]=false]: display memory and timing of different steps of the program
-t, --theme="": theme to use (located in /themes/THEMENAME/)
  --uglyURLs[]=false]: if true, use /filename.html instead of /filename/
-v, --verbose[]=false]: verbose output
  --verboseLog[]=false]: verbose logging
-w, --watch[]=false]: watch filesystem for changes and recreate as needed

### Defining your own usage
You can provide your own usage function or template for Cobra to use.
The default usage function is:
```
```
Like help, the function and template are overridable through public methods:

```go
command.SetUsageFunc(f func(*Command) error)
command.SetUsageTemplate(s string)
```

## PreRun or PostRun Hooks

It is possible to run functions before or after the main `Run` function of your command. The `PersistentPreRun` and `PreRun` functions will be executed before `Run`. `PersistentPostRun` and `PostRun` will be executed after `Run`. The `Persistent*Run` functions will be inherited by children if they do not declare their own. These functions are run in the following order:

- `PersistentPreRun`
- `PreRun`
- `Run`
- `PostRun`
- `PersistentPostRun`

An example of two commands which use all of these features is below. When the subcommand is executed, it will run the root command’s `PersistentPreRun` but not the root command’s `PersistentPostRun`:

```go
package main

import (
    "fmt"
    "github.com/spf13/cobra"
)

func main() {
    var rootCmd = &cobra.Command{
        Use: "root [sub]",
        Short: "My root command",
        PersistentPreRun: func(cmd *cobra.Command, args []string) {
            fmt.Printf("Inside rootCmd PersistentPreRun with args: %v\n", args)
        },
        PreRun: func(cmd *cobra.Command, args []string) {
            fmt.Printf("Inside rootCmd PreRun with args: %v\n", args)
        },
    }
    ...
```
Run: func(cmd *cobra.Command, args []string) {
    fmt.Printf("Inside rootCmd Run with args: %v\n", args)
},
PostRun: func(cmd *cobra.Command, args []string) {
    fmt.Printf("Inside rootCmd PostRun with args: %v\n", args)
},
PersistentPostRun: func(cmd *cobra.Command, args []string) {
    fmt.Printf("Inside rootCmd PersistentPostRun with args: %v\n", args)
},
}

subCmd = &cobra.Command{
    Use:   "sub [no options!]",
    Short: "My subcommand",
    PreRun: func(cmd *cobra.Command, args []string) {
        fmt.Printf("Inside subCmd PreRun with args: %v\n", args)
    },
    Run: func(cmd *cobra.Command, args []string) {
        fmt.Printf("Inside subCmd Run with args: %v\n", args)
    },
    PostRun: func(cmd *cobra.Command, args []string) {
        fmt.Printf("Inside subCmd PostRun with args: %\n", args)
    },
    PersistentPostRun: func(cmd *cobra.Command, args []string) {
        fmt.Printf("Inside subCmd PersistentPostRun with args: %\n", args)
    },
}

rootCmd.AddCommand(subCmd)

rootCmd.SetArgs([]string{""})
_ = rootCmd.Execute()
fmt.Print("\n")
rootCmd.SetArgs([]string{"sub", "arg1", "arg2"})
_ = rootCmd.Execute()
```

## Alternative Error Handling

Cobra also has functions where the return signature is an error. This allows for errors to bubble up to the top, providing a way to handle the errors in one location. The current list of functions that return an error is:

* PersistentPreRunE
* PreRunE
* RunE
* PostRunE
If you would like to silence the default `error` and `usage` output in favor of your own, you can set `SilenceUsage` and `SilenceErrors` to `true` on the command. A child command respects these flags if they are set on the parent command.

**Example Usage using RunE:**

```go
package main

import (  
    "errors"  
    "log"  

    "github.com/spf13/cobra"
)

cmd := &cobra.Command{  
    Use:   "hugo",  
    Short: "Hugo is a very fast static site generator",  
    Long: `A Fast and Flexible Static Site Generator built with love by spf13 and friends in Go. Complete documentation is available at http://hugo.spf13.com`,  
    RunE: func(cmd *cobra.Command, args []string) error {  
        // Do Stuff Here  
        return errors.New("some random error")  
    },  

    if err := cmd.Execute(); err != nil {  
        log.Fatal(err)  
    }  
}

## Suggestions when "unknown command" happens

Cobra will print automatic suggestions when "unknown command" errors happen. This allows Cobra to behave similarly to the `git` command when a typo happens. For example:

```
Run `hugo --help` for usage.
```
Suggestions are automatic based on every subcommand registered and use an implementation of [Levenshtein distance](http://en.wikipedia.org/wiki/Levenshtein_distance). Every registered command that matches a minimum distance of 2 (ignoring case) will be displayed as a suggestion.

If you need to disable suggestions or tweak the string distance in your command, use:

```go
command.DisableSuggestions = true
```

or

```go
command.SuggestionsMinimumDistance = 1
```

You can also explicitly set names for which a given command will be suggested using the `SuggestFor` attribute. This allows suggestions for strings that are not close in terms of string distance, but makes sense in your set of commands and for some which you don't want aliases. Example:

```
$ kubectl remove
Error: unknown command "remove" for "kubectl"

Did you mean this?
    delete

Run `kubectl help` for usage.
```

## Generating Markdown-formatted documentation for your command

Cobra can generate a Markdown-formatted document based on the subcommands, flags, etc. A simple example of how to do this for your command can be found in [Markdown Docs](doc/md_docs.md).

## Generating man pages for your command

Cobra can generate a man page based on the subcommands, flags, etc. A simple example of how to do this for your command can be found in [Man Docs](doc/man_docs.md).

## Generating bash completions for your command

Cobra can generate a bash-completion file. If you add more information to your command, these completions can be amazingly powerful and flexible. Read more about it in [Bash Completions](bash_completions.md).
## Debugging

Cobra provides a DebugFlags method on a command which, when called, will print out everything Cobra knows about the flags for each command.

### Example

```go
cmd.Command().DebugFlags()```

## Extensions

Libraries for extending Cobra:

* [cmdns](https://github.com/gosuri/cmdns): Enables name spacing a command's immediate children. It provides an alternative way to structure subcommands, similar to `heroku apps:create` and `ovrclk clusters:launch`.

## Contributing

1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (`git commit -am 'Add some feature'`)
4. Push to the branch (`git push origin my-new-feature`)
5. Create new Pull Request

## Contributors

Names in no particular order:

* [spf13](https://github.com/spf13), [eparis](https://github.com/eparis), [bep](https://github.com/bep), and many more!

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---

1.88 go-spf13-jwalterweatherman
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1.89 go-spf13-pflag
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1.93 go-stretchr-objx
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1.105 golang-testify 1.0.80

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1.128 krb5 1.13.2

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- lib/gss_mechs/mech_spnego/mecgssapiP_spnego.h
- lib/gss_mechs/mech_spnego/mecgspnego_mech.c
- lib/krb5/kadm5/kadm_host_srv_names.c
- lib/krb5/kdb/kdb_convert.c
- lib/krb5/kdb/kdb_hdr.h
- lib/krb5/kdb/kdb_log.c
- lib/krb5/kdb/kdb_log.h
- lib/libgss/g_accept_sec_context.c
- lib/libgss/g_acquire_cred.c
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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
and the initial implementation of incremental propagation, including the following new or changed files:

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

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1.129 libcap 2.24

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1.130 libcgroup 0.41
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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
loss of link, and correctly re-enable PHY when link is
re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
details.
*
*
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*
* M. Welsh, 6 July 1996
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}
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|| strcmp(license, "GPL and additional rights") == 0
|| strcmp(license, "Dual BSD/GPL") == 0
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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a single nxt200x frontend driver.

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1.157 net-snmp 5.7.3

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1.170 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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1.175 Parson May 8, 2017 e410fc7
1.176 pci.ids 2009.10.22 :ASA

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<one line to give the program’s name and a brief idea of what it does.>
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Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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<signature of Ty Coon>, 1 April 1989
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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>."
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3
--------------------------------------------------------------------------

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

#!perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

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

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

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

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' } if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" );
my ($opt) = @ARGV;

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

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

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

done_testing;

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

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

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

    $year;
  }

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

    $year;
  }

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

$year;
}

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1.180 pigz 2.3.3 :1.el7

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ppp-2.1.2b/netbsd-current/if_ppp.h
ppp-2.1.2b/pppd/fsm.c
ppp-2.1.2b/pppd/fsm.h
ppp-2.1.2b/pppd/ipcp.c
ppp-2.1.2b/pppd/ipcp.h
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ppp-2.1.2b/pppd/lcp.h
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1.185 protobuf-3.2.0 3.2.0

1.186 protobuf-c 1.2.0 :debden

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1.187 protobuf-c 0.15 :0

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1.188 pyasn1 0.1.7

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1.189 python 2.7.9
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Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

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

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

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

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

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# Default configuration for i386-bsd-user
# Default configuration for sparc-bsd-user
# Default configuration for x86_64-bsd-user
# Default configuration for sparc64-bsd-user

/*
 * FreeBSD strace list
 *
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 */

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
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{ TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s",%#o)", NULL, NULL },
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{ 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_systicks, "syscalls", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_th_exit, "thr_exit", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_kill, "thr_kill", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_kill2, "thr_kill2", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_new, "thr_new", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_new2, "thr_new2", "%s(%d, %d)", NULL, NULL },
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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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

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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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 */

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{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)%n"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s("%s", %d, "%s", %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s("%s", %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s("%s", %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, "%s", %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s("%s", %d, "%s", %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "%s("%s", %d, "%s", %d, "%s", %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s("%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s("%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, "%s", %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("%s", %d, "%s", %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("%s", %d, "%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %d, %#x, %d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %d, %#x, %d)"}, 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_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(""%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(""%s",%#o)", 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, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(""%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, "%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(""%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", 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", "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(""%s",%#p,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },

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{ 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, "rt prio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sb rkg, "sb rkg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_statsfs, "statsfs", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syncfs, "syncfs", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_tmpfs, "tmpfs", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_umount, "umount", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_umount2, "umount2", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NRUnmount, "Unmount", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NRＶolatility, "Volatility", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NRVoid, "Void", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NRString, "String", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NRUint, "Uint", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NRInt, "Int", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NRIntPtr, "IntPtr", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NRUIntPtr, "UIntPtr", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NRUint64, "Uint64", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NRInt64, "Int64", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NRIntPtr64, "IntPtr64", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NRUIntPtr64, "UIntPtr64", "%s(""%s",","%s")", NULL, NULL },
{ TARGET_FREEBSD_NRUint128, "Uint128", "%s(""%s",",...
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", "truncate", 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", "unmount", 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 },
/*
* 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

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#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk  69
#define TARGET_FREEBSD_NR_sstk  70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise   72
#define TARGET_FREEBSD_NR_munmap    73
#define TARGET_FREEBSD_NR_mprotect  74
#define TARGET_FREEBSD_NR_madvise   75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore   78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_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 */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2  90
#define TARGET_FREEBSD_NR_fcntl  92
#define TARGET_FREEBSD_NR_select    93
#define TARGET_FREEBSD_NR_fsync  95
#define TARGET_FREEBSD_NR_setpriority   96
#define TARGET_FREEBSD_NR_socket    97
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority   100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind  104
#define TARGET_FREEBSD_NR_setsockopt    105
#define TARGET_FREEBSD_NR_listen    106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt    118

#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeerefname */
/* 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_systemcall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msmsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semgid 221
#define TARGET_FREEBSD_NR_sempid 222
#define TARGET_FREEBSD_NR_freebsd7___msgid 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_mmsgget 226
#define TARGET_FREEBSD_NR_msmsgid 227
#define TARGET_FREEBSD_NR_msgsnd 228
#define TARGET_FREEBSD_NR_msgrcv 229
#define TARGET_FREEBSD_NR_shmat 230
#define TARGET_FREEBSD_NR_freebsd7___msgid 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_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_lio_listio 277
#define TARGET_FREEBSD_NR_nfstat 278
#define TARGET_FREEBSD_NR_openbsd_poll 279
#define TARGET_FREEBSD_NR_lchown 280
#define TARGET_FREEBSD_NR_aio_read 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_kldload 306
#define TARGET_FREEBSD_NR_kldunload 307
#define TARGET_FREEBSD_NR_kldunload 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_npfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigpending 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigsuspend 343
#define TARGET_FREEBSD_NR_freebsd4_sigtreturn 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_set_fd 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_extattr_delete_fd 359
#define TARGET_FREEBSD_NR___setugid 360
#define TARGET_FREEBSD_NR_eaccess 361
#define TARGET_FREEBSD_NR_afs3_syscall 362
#define TARGET_FREEBSD_NR_nmount 363
#define TARGET_FREEBSD_NR___mac_get_proc 364
#define TARGET_FREEBSD_NR___mac_set_proc 365
#define TARGET_FREEBSD_NR___mac_get_fd 366
#define TARGET_FREEBSD_NR___mac_get_file 367
#define TARGET_FREEBSD_NR___mac_set_fd 368
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR__lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_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_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 521
#define TARGET_FREEBSD_NR_getloginclass 522
#define TARGET_FREEBSD_NR_setloginclass 523
#define TARGET_FREEBSD_NR_rctl_get_racct 524
#define TARGET_FREEBSD_NR_rctl_get_rules 525
#define TARGET_FREEBSD_NR_rctl_get_limits 526
#define TARGET_FREEBSD_NR_rctl_add_rule 527
#define TARGET_FREEBSD_NR_rctl_remove_rule 528
#define TARGET_FREEBSD_NR_posix_fallocate 529
#define TARGET_FREEBSD_NR_posix_fadvise 530
#define TARGET_FREEBSD_NR_MAXSYSCALL 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532

/* $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_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_systxch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#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_xfs_ioctl 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_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_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_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_lstatfs 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) */
/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */
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*
* @(#)errno.h 8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM  1    /* Operation not permitted */
#define TARGET_ENOENT 2    /* No such file or directory */
#define TARGET_ESRCH  3    /* No such process */
#define TARGET_EINTR  4    /* Interrupted system call */
#define TARGET_EIO    5    /* Input/output error */
#define TARGET_ENXIO  6    /* Device not configured */
#define TARGET_E2BIG  7    /* Argument list too long */
#define TARGET_ENOEXEC 8    /* Exec format error */
#define TARGET_EBADF  9    /* Bad file descriptor */
#define TARGET_ECHILD 10   /* No child processes */
#define TARGET_EDEADLK 11  /* Resource deadlock avoided */
/* 11 was EAGAIN */
#define TARGET_ENOMEM 12   /* Cannot allocate memory */
#define TARGET_EACCES 13   /* Permission denied */
#define TARGET_EFAULT 14   /* Bad address */
#define TARGET_ENOTBLK 15   /* Block device required */
#define TARGET_EBUSY  16   /* Device busy */
#define TARGET_EEXIST 17   /* File exists */
#define TARGET_EXDEV  18   /* Cross-device link */
#define TARGET_ENODEV 19   /* Operation not supported by device */
#define TARGET_ENOTDIR 20   /* Not a directory */
#define TARGET_EISDIR 21   /* Is a directory */
#define TARGET EINVAL  22   /* Invalid argument */
#define TARGET_ENFILE 23   /* Too many open files in system */
#define TARGET_EMFILE 24   /* Too many open files */
#define TARGET_ENOTTY 25   /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26   /* Text file busy */
#define TARGET_EFBIG  27   /* File too large */
#define TARGET_ENOSPC 28   /* No space left on device */
#define TARGET_ESPIPE 29   /* Illegal seek */
#define TARGET_EROFS  30   /* Read-only file system */
#define TARGET_EMLINK 31   /* Too many links */
#define TARGET_EPIPE  32   /* Broken pipe */
/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

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

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

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_EETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */

#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
/* Network File System */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */
#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */
#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_EENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/* System call numbers. */

/* created fromNetBSD: 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_getsockoptname 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_NRcompat_13_sigprocmask13 48
#define TARGET_NETBSD_NR_getlogin 49
#define TARGET_NETBSD_NR_setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NRcompat_13_sigsending13 52
#define TARGET_NETBSD_NRcompat_13_signo13 53
#define TARGET_NETBSD_NR_ioctl 54
#define TARGET_NETBSD_NRcompat_12_oreboot 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_revoke 57
#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_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_okillpg 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_ouquota 149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc 155
#define TARGET_NETBSD_NR_compat_43_odirententries 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_9_ogetdomainname 162
#define TARGET_NETBSD_NR_compat_9_osetdomainname 163
#define TARGET_NETBSD_NR_compat_9_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_segeclean 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_ftruncate 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_gettime 207
#define TARGET_NETBSD_NR_getpgid 208
#define TARGET_NETBSD_NR_reboot 209
#define TARGET_NETBSD_NR_poll 209
#define TARGET_NETBSD_NR_compat_14___semctl 220
#define TARGET_NETBSD_NR_semget 221
#define TARGET_NETBSD_NR_semop 222
#define TARGET_NETBSD_NR_semconfig 223
#define TARGET_NETBSD_NR_compat_14_msgctl 224
#define TARGET_NETBSD_NR_msgget 225
#define TARGET_NETBSD_NR_msgsnd 226
#define TARGET_NETBSD_NR_msgrcv 227
#define TARGET_NETBSD_NR_shmat 228
#define TARGET_NETBSD_NR_compat_14_shmctl 229
#define TARGET_NETBSD_NR_shmdt 230
#define TARGET_NETBSD_NR_shmget 231
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime 233
#define TARGET_NETBSD_NR_clock_getres 234
#define TARGET_NETBSD_NR_timer_create 235
#define TARGET_NETBSD_NR_timer_delete 236
#define TARGET_NETBSD_NR_timer_settime
#define TARGET_NETBSD_NR_timer_gettime
#define TARGET_NETBSD_NR_timer_getoverrun
#define TARGET_NETBSD_NR_nanosleep
#define TARGET_NETBSD_NR_fdatasync
#define TARGET_NETBSD_NR_mlockall
#define TARGET_NETBSD_NR_munlockall
#define TARGET_NETBSD_NR___sigtimedwait
#define TARGET_NETBSD_NR_modctl
#define TARGET_NETBSD_NR__ksem_init
#define TARGET_NETBSD_NR__ksem_open
#define TARGET_NETBSD_NR__ksem_unlink
#define TARGET_NETBSD_NR__ksem_close
#define TARGET_NETBSD_NR__ksem_post
#define TARGET_NETBSD_NR__ksem_wait
#define TARGET_NETBSD_NR__ksem_trywait
#define TARGET_NETBSD_NR__ksem_getvalue
#define TARGET_NETBSD_NR__ksem_destroy
#define TARGET_NETBSD_NR_mq_open
#define TARGET_NETBSD_NR_mq_close
#define TARGET_NETBSD_NR_mq_unlink
#define TARGET_NETBSD_NR_mq_getattr
#define TARGET_NETBSD_NR_mq_setattr
#define TARGET_NETBSD_NR_mq_notify
#define TARGET_NETBSD_NR_mq_send
#define TARGET_NETBSD_NR_mq_receive
#define TARGET_NETBSD_NR_mq_timedsend
#define TARGET_NETBSD_NR_mq_timedreceive
#define TARGET_NETBSD_NR___posix_rename
#define TARGET_NETBSD_NR_swapctl
#define TARGET_NETBSD_NR_compat_30_getdents
#define TARGET_NETBSD_NR_minherit
#define TARGET_NETBSD_NR_lchmod
#define TARGET_NETBSD_NR_lchown
#define TARGET_NETBSD_NR_lutimes
#define TARGET_NETBSD_NR___msync13
#define TARGET_NETBSD_NR_compat_30___stat13
#define TARGET_NETBSD_NR_compat_30___fstat13
#define TARGET_NETBSD_NR_compat_30___lstat13
#define TARGET_NETBSD_NR___sigaltstack14
#define TARGET_NETBSD_NR___vfork14
#define TARGET_NETBSD_NR___posix_chown
#define TARGET_NETBSD_NR___posix_fchown
#define TARGET_NETBSD_NR___posix_lchown
#define TARGET_NETBSD_NR_getsid
#define TARGET_NETBSD_NR___clone
#define TARGET_NETBSD_NR_fktrace
#define TARGET_NETBSD_NR_preadv
#define TARGET_NETBSD_NR_pwritev 290
#define TARGET_NETBSD_NR_compat_16___sigaction14 291
#define TARGET_NETBSD_NR___sigpending14 292
#define TARGET_NETBSD_NR___sigprocmask14 293
#define TARGET_NETBSD_NR___sigsuspend14 294
#define TARGET_NETBSD_NR_compat_16___sigreturn14 295
#define TARGET_NETBSD_NR__getcwd 296
#define TARGET_NETBSD_NR_fchroot 297
#define TARGET_NETBSD_NR_compat_30_fhopen 298
#define TARGET_NETBSD_NR_compat_30_fhstat 299
#define TARGET_NETBSD_NR_compat_20_fhstatfs 300
#define TARGET_NETBSD_NR_____semct13 301
#define TARGET_NETBSD_NR___msgctl13 302
#define TARGET_NETBSD_NR___shmct13 303
#define TARGET_NETBSD_NR_lchflags 304
#define TARGET_NETBSD_NR_issetugid 305
#define TARGET_NETBSD_NR_utrace 306
#define TARGET_NETBSD_NR_getcontext 307
#define TARGET_NETBSD_NR_setcontext 308
#define TARGET_NETBSD_NR_lwp_create 309
#define TARGET_NETBSD_NR_lwp_exit 310
#define TARGET_NETBSD_NR_lwp_self 311
#define TARGET_NETBSD_NR_lwp_wait 312
#define TARGET_NETBSD_NR_lwp_suspend 313
#define TARGET_NETBSD_NR_lwp_continue 314
#define TARGET_NETBSD_NR_lwp_wakeup 315
#define TARGET_NETBSD_NR_lwp_getprivate 316
#define TARGET_NETBSD_NR_lwp_setprivate 317
#define TARGET_NETBSD_NR_lwp_kill 318
#define TARGET_NETBSD_NR_lwp_detach 319
#define TARGET_NETBSD_NR_lwp_park 320
#define TARGET_NETBSD_NR_lwp_unpark 321
#define TARGET_NETBSD_NR_lwp_unpark_all 322
#define TARGET_NETBSD_NR_lwp_setname 323
#define TARGET_NETBSD_NR_lwp_getname 324
#define TARGET_NETBSD_NR_lwp_ctl 325
#define TARGET_NETBSD_NR__sa_register 330
#define TARGET_NETBSD_NR__sa_stacks 331
#define TARGET_NETBSD_NR__sa_enable 332
#define TARGET_NETBSD_NR__sa_setconcurrency 333
#define TARGET_NETBSD_NR__sa_yield 334
#define TARGET_NETBSD_NR__sa_preempt 335
#define TARGET_NETBSD_NR__sa_unblockyield 336
#define TARGET_NETBSD_NR___sigaction_sigtamp 340
#define TARGET_NETBSD_NR_pmc_get_info 341
#define TARGET_NETBSD_NR_pmc_control 342
#define TARGET_NETBSD_NR_rasctl 343
#define TARGET_NETBSD_NR_kqueue 344
#define TARGET_NETBSD_NR_kevent 345
#define TARGET_NETBSD_NR__sched_setparam 346
#define TARGET_NETBSD_NR__sched_getparam 347
#define TARGET_NETBSD_NR__sched_setaffinity 348
#define TARGET_NETBSD_NR__sched_getaffinity 349
#define TARGET_NETBSD_NR_sched_yield 350
#define TARGET_NETBSD_NR_fsync_range 354
#define TARGET_NETBSD_NR_uuuidgen 355
#define TARGET_NETBSD_NR_getvfsstat 356
#define TARGET_NETBSD_NR_statvfs1 357
#define TARGET_NETBSD_NR_fstatvfs1 358
#define TARGET_NETBSD_NR_compat_30_fstatvfs1 359
#define TARGET_NETBSD_NR_extattrctl 360
#define TARGET_NETBSD_NR_extattr_set_file 361
#define TARGET_NETBSD_NR_extattr_get_file 362
#define TARGET_NETBSD_NR_extattr_delete_file 363
#define TARGET_NETBSD_NR_extattr_set_fd 364
#define TARGET_NETBSD_NR_extattr_get_fd 365
#define TARGET_NETBSD_NR_extattr_delete_fd 366
#define TARGET_NETBSD_NR_extattr_set_link 367
#define TARGET_NETBSD_NR_extattr_get_link 368
#define TARGET_NETBSD_NR_extattr_delete_link 369
#define TARGET_NETBSD_NR_extattr_list_fd 370
#define TARGET_NETBSD_NR_extattr_list_file 371
#define TARGET_NETBSD_NR_extattr_list_link 372
#define TARGET_NETBSD_NR_pselect 373
#define TARGET_NETBSD_NR_polls 374
#define TARGET_NETBSD_NR_setxattr 375
#define TARGET_NETBSD_NR_lsetxattr 376
#define TARGET_NETBSD_NR_fsetxattr 377
#define TARGET_NETBSD_NR_getxattr 378
#define TARGET_NETBSD_NR_lgetxattr 379
#define TARGET_NETBSD_NR_fgetxattr 380
#define TARGET_NETBSD_NR_listxattr 381
#define TARGET_NETBSD_NR_llistxattr 382
#define TARGET_NETBSD_NR_flistxattr 383
#define TARGET_NETBSD_NR_removexattr 384
#define TARGET_NETBSD_NR_lremovexattr 385
#define TARGET_NETBSD_NR_fremovexattr 386
#define TARGET_NETBSD_NR__stat30 387
#define TARGET_NETBSD_NR___fstat30 388
#define TARGET_NETBSD_NR___lstat30 389
#define TARGET_NETBSD_NR___getdents30 390
#define TARGET_NETBSD_NR___fhopen40 391
#define TARGET_NETBSD_NR_compat_30_fhopen40 392
#define TARGET_NETBSD_NR___socket30 393
#define TARGET_NETBSD_NR___getfh30 394
#define TARGET_NETBSD_NR___getfh30 395
#define TARGET_NETBSD_NR___fhopen40 396
#define TARGET_NETBSD_NR___fhstatvfs140  397
#define TARGET_NETBSD_NR___fhstat40 398
#define TARGET_NETBSD_NR_aio_cancel 399
#define TARGET_NETBSD_NR_aio_error 400
#define TARGET_NETBSD_NR_aio_fsync 401
#define TARGET_NETBSD_NR_aio_read 402
#define TARGET_NETBSD_NR_aio_return 403
#define TARGET_NETBSD_NR_aio_suspend 404
#define TARGET_NETBSD_NR_aio_write 405
#define TARGET_NETBSD_NR_lio_listio 406
#define TARGET_NETBSD_NR___mount50 410
#define TARGET_NETBSD_NR_mremap 411
#define TARGET_NETBSD_NR_pset_create 412
#define TARGET_NETBSD_NR_pset_destroy 413
#define TARGET_NETBSD_NR_pset_assign 414
#define TARGET_NETBSD_NR_pset_bind 415
#define TARGET_NETBSD_NR___posix_fadvise50 416

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  * @(#)mman.h     8.2 (Berkeley) 1/9/95
  *
  */
#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK       0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC       0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK     0x1ff7


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

#define TARGET_NETBSD_MAP_INHERIT     0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED     0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED        0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK       0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK    0x3ff7
/* $NetBSD: mmman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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 *
 * @(#)mmman.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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(principal original author of dtc and libfdt)
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# ***************************************************************************

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

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $$dir \ || \ exit 1 ; done

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

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# *****************************************************************************/

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

include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS=
ASFLAGS= -I/include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDDEBUG -m64 -I -I/include/x86emu \ 
   -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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# *****************************************************************************
#!/bin/bash
#set -x
#set -e

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

# check wether svn, patch, ... is available...

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

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."
mkdir -p include/x86emu

cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

Index: debug.c

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c	7 Sep 2007 10:01:21 -0000	1.1
+++ debug.c	15 Jan 2008 13:49:25 -0000	1.3
@@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void)
 {
   if (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()) {
   printk("%04x:%04x ",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));
 } 
- printk("%-20s",buf1);
+ printk("%-20s ",buf1);
 }

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+
case 0xc8:
+
DECODE_PRINTF("EAX\n");
+
M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+
break;
+
case 0xc9:
+
DECODE_PRINTF("ECX\n");
+
M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);

Open Source Used In Firepower 6.3

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+ break;
+ case 0xca:
+  DECODE_PRINTF("EDX\n");
+  M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+  break;
+ case 0xcb:
+  DECODE_PRINTF("EBX\n");
+  M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+  break;
+ case 0xcc:
+  DECODE_PRINTF("ESP\n");
+  M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+  break;
+ case 0xcd:
+  DECODE_PRINTF("EBP\n");
+  M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+  break;
+ case 0xce:
+  DECODE_PRINTF("ESI\n");
+  M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+  break;
+ case 0xcf:
+  DECODE_PRINTF("EDI\n");
+  M.x86.R EDI = x86emu_bswap(M.x86.R EDI);
+  break;
+  }
+(trace_and_step();
+decode_clear_segovr();
+end_of_instr();
}
/+/* 0xce */ x86emuOp2_bswap,
/+/* 0xcf */ x86emuOp2_bswap,

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,

Index: ops.c

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    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 @@
    if (cond) {
        M.x86.R_IP = target;
        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2574,6 +2586,8 @@
    }
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val1 = fetch_data_byte(M.x86.R_SI);
                val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
M.x86.R_CX -= 1;
else
M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ((M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0)) break;
if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val1 = fetch_data_long(M.x86.R_SI);
        val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
@@ -2655,11 +2674,16 @@
        cmp_word((u16)val1, (u16)val2);
    }
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ((M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0)) break;
if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
    M.x86.R_CX -= 1;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX -= 1;
    else
        M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}

++ -2783,9 +2812,11 @@

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
++ -2795,6 +2826,8 @@
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
}
M.x86.R_DI += inc;
if (M.x86.intr & INTR_HALTED)
    break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
++ -2817,11 +2850,16 @@

inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
        }
    }
}
else
    M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--)
    M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    M.x86.R_SI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
icc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
/* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
        }
    }
}
break;

+     if (M.x86.intr & INTR_HALTED)
+     break;
   }
   M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
   /* REPNE */
   /* move them until CX is ZERO. */
   -    while (M.x86.R_CX != 0) {
   +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
      cmp_byte(M.x86.R_AL, val2);
      -      M.x86.R_CX -= 1;
      +      if (M.x86.mode & SYSMODE_32BIT_REP)
      +          M.x86.R_ECX -= 1;
      +      else
      +          M.x86.R_CX -= 1;
      M.x86.R_DI += inc;
      if (ACCESS_FLAG(F_ZF))
      break;          /* zero flag set means equal */
    +    if (M.x86.intr & INTR_HALTED)
    +        break;
   }
   M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
     /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
        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) == 0)
break;
+    if (M.x86.intr & INTR_HALTED)
+        break;

    } else if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPNE */
        -/* move them until CX is ZERO. */
        -while (M.x86.R_CX != 0) {
            M.x86.R_CX -= 1;
        }
        +/* move them until (E)CX is ZERO. */
        +while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
                break;          /* zero flag set means equal */
        }
        +if (M.x86.intr & INTR_HALTED)
        +    break;

    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* move them until (E)CX is ZERO. */
        -while (M.x86.R_CX != 0) {
            M.x86.R_CX -= 1;
        }
        +/* move them until (E)CX is ZERO. */
        +while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
                break;          /* zero flag set means equal */
        }
        +if (M.x86.intr & INTR_HALTED)
        +    break;

    } else {
        @ @ -2977,10 +3034,15 @ @
        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;

    } 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\n");
    -RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    }
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
DECODE_PRINTF("RETF\t");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{START_OF_INSTR();
    DECODE_PRINTF("RETFu\t");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
    - M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 & & !ACCESS_FLAG(F_ZF)) /* CX ! = 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 & &
!ACCESS_FLAG(F_ZF)) /* (E)CX ! = 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+    ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
  M.x86.R_IP = ip;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
  M.x86.R_IP = ip;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
  DECODE_PRINTF2("%x\n", target);
  TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
+    M.x86.R_IP = target;
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR ");
  TRACE_AND_STEP();
  M.x86.R_IP = (u16)ip;
  DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
  DECODE_PRINTF2("%04x:\", cs);
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 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
    case 4: /* jmp word ptr ... */
        destval = fetch_data_word(destoffset);
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;
    case 5: /* jmp far ptr ... */
        destval = fetch_data_word(destoffset);
        destval2 = fetch_data_word(destoffset + 2);
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -00001.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -00001.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{                                                  }
#define __HAS_LONG_LONG__
- s64 res = (s64)d * (s64)s;
+ s64 res = (s64)(s32)d * (s64)(s32)s;

 *res_lo = (u32)res;
 *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{                                                  }
#define __HAS_LONG_LONG__
- u64 res = (u32)M.x86.R_EAX * (u32)s;
+ u64 res = (u64)M.x86.R_EAX * s;

 M.x86.R_EAX = (u32)res;
 M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
}                                               
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) { 
    /* dont care whether REPE or REPNE */
-    /* in until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* in until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
-        while (count--) {
-            single_in(size);
-            M.x86.R_DI += inc;
-        }
-    M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) { 
+    if (M.x86.mode & SYSMODE_32BIT_REP) { 
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
}                                               
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) { 
    /* dont care whether REPE or REPNE */
/* out until CX is ZERO. */
/* out until (E)CX is ZERO. */

u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
             u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
while (count--) {
  single_out(size);
  M.x86.R_SI += inc;
}
M.x86.R_CX = 0;
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include <sys/io.h>
-#else
-#include <io.h>
-#else
-#include <sys/io.h>
-#endif

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

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

void X86EMU_setMemBase(void *base, size_t size)
{
-M.mem_base = (int) base;
+M.mem_base = (unsigned long) base;
M.mem_size = size;
}

Index: include/x86emu/debug.h
====================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H
-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/
@@ -78,6 +76,8 @@
# 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)
@@ -96,6 +96,8 @@
# 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
@@ -169,14 +171,20 @@
x86emu_dump_regs(); \ 
if (DEBUG_TRACECALL()) \ 
printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x); \ 
-# define RETURN_TRACE(n,u,v) \ 
+## define RETURN_TRACE(u,v,w,x,s) \ 
if (DEBUG_TRACECALLREGS())\ 
x86emu_dump_regs(); \ 
if (DEBUG_TRACECALL()) \ 
-printk("%04x:%04x: %s\n",u,v,n); \ 
+printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x); \ 
+# define JMP_TRACE(u,v,w,x,s) \ 
+ if (DEBUG_TRACEJMPREGS()) \ 
+ x86emu_dump_regs();\ 
+ if (DEBUG_TRACEJMP()) \ 

Open Source Used In Firepower 6.3
#ifdef DEBUG
 Index: include/x86emu/regs.h
==================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
 #define SYSMODE_PREFIX_REPNE 0x00000100
 #define SYSMODE_PREFIX_DATA 0x00000200
 #define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
 #define SYSMODE_INTR_PENDING 0x10000000
 #define SYSMODE_EXTRN_INTR 0x20000000
 #define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
 SYSMODE_SEGOVR_GS  | \
 SYSMODE_SEGOVR_SS  | \
 SYSMODE_PREFIX_DATA | \
-    SYSMODE_PREFIX_ADDR)
+    SYSMODE_PREFIX_ADDR    | \
+    SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTRASYNCH 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;

+ printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#elif
# 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

@Injectable

int enc_pos;

Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
 #include <console.h>
 #define printk(x...) printk(BIOS_DEBUG, x)
 #else
+#include <stdio.h>
 #define printk printf
 #endif

@@ -189,6 +181,8 @@
 #define DEBUG_TRACECALL_REGS_F  0x004000
 #define DEBUG_DECODE_NOPRINT_F  0x008000
 #define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
 #define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

 void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
 #ifdef  __cplusplus
 }                       /* End of "C" linkage for C++   */
 #endif
-#endif /* __X86EMU_X86EMU_H */
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the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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-- Wolfgang Denk

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[This is the first released version of the library GPL. It is
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changing the library, is in some sense simply using the library, and is 
analogous to running a utility program or application program. However, in 
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derivative of the original library, and the ordinary General Public License 
treats it as such.

Because of this blurred distinction, using the ordinary General 
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concluded that weaker conditions might promote sharing better.

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1.198 require.js 2.1.6

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
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1.233 sysvinit-inittab 2.88dsf

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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
root function must still compute square roots.)

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

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

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

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

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

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

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

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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.

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*/

// JSLitmus.js

// History:
// 2008-10-27: Initial release
// 2008-11-09: Account for iteration loop overhead
// 2008-11-13: Added OS detection
// 2009-02-25: Create tinyURL automatically, shift-click runs tests in reverse

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/**
* QUnit v1.10.0 - A JavaScript Unit Testing Framework
*
1.244 unzip 5.52 :0

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<td>2</td>
<td>7680</td>
<td>16383</td>
<td>8704</td>
<td>4.3M</td>
<td></td>
<td>8f8378c0-02</td>
</tr>
<tr>
<td>5</td>
<td>7936</td>
<td>12799</td>
<td>4864</td>
<td>2.4M</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
 Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2ecf9 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
-------------------
Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db33418dd73fbe bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
<removed>2 4096 20479 16384 8M a5 FreeBSD

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

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

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

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start End Sectors Size Type Fsize Bsize Cpg
c 4096 20479 16384 8M unused 0 0 0
d 0 16064 16065 7.9M unused 0 0 0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

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

b5c121c2091b2ff26b880551feac7112 bsd.img

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

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M 4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
]0U"h-J|[Z(EkZMkZP(@0@I6Y$TK6jS\`[S$@$lI$$/$U$n}$I I$H$I .|@$$I
I$I$H1c!$$TA`PPPPPU]W]r]uU@UYVUUUU-mW[UeKjHR
sUE)H:Eu;]jGD;r
#XZ^;{n|}}@?$X(8HXo<@@>bdo:>6BFJNRVZ^`8y
Tb))i*j+k,l-D
y{}/^FH:ZzZ;Cv}BBa$I$I$I$I$I$B<A<8aU`J7UUUU33333330I$I$$I$Ppur8\@>}"@I$I$I$I$~M#;qr\|x[@(jVZ:a
H-kfWULR&vLI;HzS1p07R@mb`b.lEE2m"DSyP(Ejwq_X5u fBgXH mr*]5`'QrdC :,1JU@@-h@@lC-1^\A5a 7@(\Ei.E7q\DP0,5:
@)9@@/D|.p
BZh91AY&SYf"'~@H R h%CFTC@OQ6_@
tTJmlAH1||/F0HA]BAk@
#!/bin/bash
#
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# GNU General Public License for more details.
#
#
TS_TOPDIR="${0%/*}/../.."
TS_DESC="nested BSD"
. $TS_TOPDIR/functions.sh
ts_init "$*"
ts_check_test_command "$TS_CMD_FDISK"
ts_check_test_command "$TS_HELPER_SYSINFO"
FDISK_CMD_CREATE_DOSLABEL="o\n"
# create dos label
FDISK_CMD_SETID="x\ni\n0x1\nr\n"
# set non-random ID
FDISK_CMD_WRITE_CLOSE="w\nq\n"
# write to image
FDISK_CMD_CREATE_PRIMARY1="n\np\n1\n\n+1M\n" # 1st primary partition of size 1MiB
FDISK_CMD_CREATE_PRIMARY2="n\np\n2\n\n\n" # 2nd primary partition for whole of the disk
FDISK_CMD_CHANGE_PART2TYPE="t\n2\na5\n"
# change partition type FreeBSD
FDISK_CMD_BSD_CREATE="b\ny\n"
# create nested BSD PT
FDISK_CMD_BSD_LIST="b\np\nr\nq\n"
# list nested BSD PT and quit
FDISK_CMD_BSD_CREATE_PART="b\nn\na\n\n+1M\n" # add BSD partition 'a', size 1MiB

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FDISK_CMD_BSD_PARTTYPE="b\n\na\n7\n"  # set partition 'a' to type 4.2BSD
FDISK_CMD_BSD_LIST_TYPES="b\n\nq\n"  # list supported PT types and quit

#set -x

# BSD disklabel depends on sector/offset and endianess. We convert the md5sums
# into the most common values (little endian, BSD_LABELSECTOR = 1,  
# BSDLABELOFFSET = 0) so that they can be easily compared to the expected
# ones.
BYTE_ORDER=$($TS_HELPER_SYSINFO byte-order)

function fdisk_bsd_offset_and_byte_order_clean 
{
    # expected md5sums are from x86 systems
    local md5_bsdimg1_LE_0_64="2e1cee529eb59e9341aef0443f196a1" 
    local md5_bsdimg2_LE_0_64="b5c121c2091b2ff26b880551feac7112" 

    if [ $BYTE_ORDER = "BE" ]; then
        # BSD_LABELSECTOR = 0, BSDLABELOFFSET = 64
        sed -i \
        -e "s/c2273b52976351b75596c47c10b0725/Smd5_bsdimg1_LE_0_64/" \
        -e "s/9a23a4a5b99e37d2ce0d92b65437b93cd/Smd5_bsdimg2_LE_0_64/" \
        "$TS_OUTPUT"
        # BSD_LABELSECTOR = 1, BSDLABELOFFSET = 0
        sed -i \
        -e "s/e990c8a8c2106a4cd4b008f16d71aa6/Smd5_bsdimg1_LE_0_64/" \
        -e "s/187a48c26e83d146b866868addc93702/Smd5_bsdimg2_LE_0_64/" \
        "$TS_OUTPUT"
    else
        # BSD_LABELSECTOR = 0, BSDLABELOFFSET = 64
        sed -i \
        -e "s/6d760d7a8ef33b27cc6e27f1e8807d48/Smd5_bsdimg1_LE_0_64/" \
        -e "s/373cc7959c972c4b7a99914e8/Smd5_bsdimg2_LE_0_64/" \
        "$TS_OUTPUT"
    fi
}

function print_layout 
{
    echo -ne "---layout----------
    $TS_CMD_FDISK -l ${TEST_IMAGE_NAME}  >> $TS_OUTPUT
    echo -ne   "-------------------

    $TS_CMD_FDISK -l ${TEST_IMAGE_NAME} >> $TS_OUTPUT
}

function print_bsd_layout 
{
    echo -ne "---layout----------
    $TS_CMD_FDISK ${TEST_IMAGE_NAME} >> $TS_OUTPUT
    echo -ne   "-------------------

    $TS_CMD_FDISK ${TEST_IMAGE_NAME} >> $TS_OUTPUT
}

Open Source Used In Firepower 6.3  1932
ts_log "Initialize empty image"
TEST_IMAGE_NAME=$(ts_image_init 10)


$$\text{TS\_IMAGE\_MD5SUM} \gg \$TS\_OUTPUT 2\&1$$


print_layout


print_layout


print_layout


print_layout


print_bsd_layout


print_bsd_layout
echo -e "${FDISK_CMD_BSD_LIST_TYPES}" | \ 
STD_CMD_FDISK ${TEST_IMAGE_NAME} | \ 
sed 's/Reading .*/g; s/Welcome to fdisk .*/' >> $TS_OUTPUT 2>&1

gencode

gencode $TEST_IMAGE_NAME

gencode

gencode

gencode

gencode

gencode

gencode

gencode

gencode

gencode

gencode

gencode

gencode

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gencode

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### 1.250 xmlsec1 1.2.20

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xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries

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

* Cordys R&D BV

* Cryptocom LTD

1.251 zeromq 4.0.4

1.251.1 Available under license :

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1.253 zip 2.31 :1.2.2

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1.254 Zlib 1.2.3

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 version 1.2.2, October 3rd, 2004

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1.255 zlib 1.2.8 :3.0

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2.1 @babel/helper-module-imports 7.0.0-beta.32

2.2 @babel/types 7.0.0-beta.32

2.3 @emotion/hash 0.6.3
2.4 @emotion/is-prop-valid 0.6.2

2.5 @emotion/memoize 0.6.2

2.6 @emotion/stylis 0.6.7

2.7 @emotion/unitless 0.6.3

2.8 abbrev 1.1.1

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2.9 ajv 6.5.0

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2.10 argparse 1.0.10

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2.11 asap 2.0.6

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2.12 autosize 4.0.2

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2.13 babel-plugin-emotion 9.1.2

2.14 babel-plugin-macros 2.2.1

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2.15 babel-plugin-syntax-jsx 6.18.0

2.16 babel-runtime 6.26.0
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2.17 bem-cn 2.1.3
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2.18 bem-cn-lite 3.0.0

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2.19 bootstrap 4.1.1

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2.20 case 1.5.5

2.21classnames 2.2.5

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2.22 computed-style 0.1.4

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2.23 convert-source-map 1.5.1

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2.97 react-input-autosize 2.2.1

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2.102 react-onclickoutside 6.7.1

2.103 react-popper 1.0.0-beta.6

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2.117 source-map 0.5.7

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2.118 sprintf-js 1.0.3

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2.119 stylis 3.5.0

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2.120 stylis-rule-sheet 0.0.10
2.121 symbol-observable 1.2.0

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2.122 synchronous-promise 1.0.18

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2.123 timezones.json 1.3.3
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2.124 to-fast-properties 2.0.0
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2.125 toposort 0.2.12

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2.126 touch 1.0.0

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2.129 typed-styles 0.0.5

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2.130 ua-parser-js 0.7.18

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 * Lightweight JavaScript-based User-Agent string parser
 * https://github.com/faisalman/ua-parser-js
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2.131 uri-js 4.2.1

2.132 uuid 3.2.1

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2.133 value-equal 0.4.0
2.134 warning 3.0.0

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2.135 whatwg-fetch 2.0.4

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2.138 yup 0.24.1
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The Debian package of MySQL was first debianized on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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requires SVR4 uname() and -lc

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cmake-2.4.8/Utilities/cmzlib/zlib.h:
zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002

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cmake-2.4.8/Source/CTest/Curl/inet_pton.c:
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The tz database

The public-domain time zone database contains code and data that represent the history of local time for many representative locations around the globe. It is updated periodically to reflect changes made by political bodies to time zone boundaries, UTC offsets, and daylight-saving rules. This database (often called tz or zoneinfo) is used by several implementations, including the GNU C Library used in GNU/Linux, FreeBSD, NetBSD, OpenBSD, Cygwin, DJGPP, HP-UX, IRIX, Mac OS X, OpenVMS, Solaris, Tru64, and UnixWare.

Each location in the database represents a national region where all clocks keeping local time have agreed since 1970. Locations are identified by continent or ocean and then by the name of the location, which is typically the largest city within the region. For example, America/New_York represents most of the US eastern time zone; America/Phoenix represents most of Arizona, which uses mountain time without daylight saving time (DST); America/Detroit represents most of Michigan, which uses eastern time but with different DST rules in 1975; and other entries represent smaller regions like Starke County, Indiana, which switched from central to eastern time in 1991 and switched back in 2006. To use the database on an extended POSIX implementation set the TZ environment variable to the location's full name, e.g., TZ="America/New_York".

In the tz database's FTP distribution the code is in the file tzcodeC.tar.gz.
where C is the code's version; similarly, the data are in tzdataD.tar.gz, where
D is the data's version. The following shell commands download these files to a
GNU/Linux or similar host; see the downloaded README file for what to do next.

```bash
wget 'ftp://elsie.nci.nih.gov/pub/tz*.tar.gz'
gzip -dc tzcode*.tar.gz | tar -xf -
gzip -dc tzdata*.tar.gz | tar -xf -
```

The code lets you compile the tz source files into machine-readable binary
files, one for each location. It also lets you read a tz binary file and
interpret time stamps for that location.

The data are by no means authoritative. If you find errors, please send changes
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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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.

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

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

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The reason we have a separate public license for some libraries is that
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program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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The Debian package of MySQL was first debianized on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net.

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--echo '---------------------BS_STVARS_040_01---------------------- #' 
# Displaying default value                                   
# SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '---------------------BS_STVARS_040_02---------------------- #' 
# Check if Value can set                                     
# SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error ‘Read only variable’

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '---------------------BS_STVARS_040_03---------------------- #' 
# Check if the value in GLOBAL Table matches value in variable
#
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_04----------------------#'
#############################################################################
#  Check if accessing variable with and without GLOBAL point to same variable  #
#############################################################################
SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_05----------------------#'
#############################################################################
#   Check if license can be accessed with and without @@ sign                  #
#############################################################################
SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected

SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected

SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected

SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION/license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

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Skeleton parser for Yacc-like parsing with Bison,
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cmake-2.4.8/Utilities/cmzlib/zlib.h:
zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002

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cmake-2.4.8/Source/CTest/Curl/inet_pton.c:
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keeping local time have agreed since 1970. Locations are identified by continent
or ocean and then by the name of the location, which is typically the largest
city within the region. For example, America/New_York represents most of the US eastern time zone; America/Phoenix represents most of Arizona, which uses mountain time without daylight saving time (DST); America/Detroit represents most of Michigan, which uses eastern time but with different DST rules in 1975; and other entries represent smaller regions like Starke County, Indiana, which switched from central to eastern time in 1991 and switched back in 2006. To use the database on an extended POSIX implementation set the TZ environment variable to the location's full name, e.g., TZ="America/New_York".

In the tz database's FTP distribution the code is in the file tzcodeC.tar.gz, where C is the code's version; similarly, the data are in tzdataD.tar.gz, where D is the data's version. The following shell commands download these files to a GNU/Linux or similar host; see the downloaded README file for what to do next.

```
wget 'ftp://elsie.nci.nih.gov/pub/tz*.tar.gz'
gzip -dc tzcode*.tar.gz | tar -xf -
gzip -dc tzdata*.tar.gz | tar -xf -
```

The code lets you compile the tz source files into machine-readable binary files, one for each location. It also lets you read a tz binary file and interpret time stamps for that location.

The data are by no means authoritative. If you find errors, please send changes to the time zone mailing list. You can also subscribe to the mailing list, retrieve the archive of old messages (in gzip compressed format), or retrieve archived older versions of code and data; there is also a smaller HTTP mirror.

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PCRE (Perl-compatible regular expression library)

THE BASIC LIBRARY FUNCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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of these things:

a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

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

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

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

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

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

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

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

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4. You may copy and distribute the Library (or a portion or 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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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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THE BASIC LIBRARY FUNCTIONS
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5.8 aws-java-sdk 1.8.9.1

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5.11 bird 1.3.8

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5.14 c-ares19 1.9.1 :(18 Jun 2012)

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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5.35 DBD-mysql 4.046_01

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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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Email domain: cam.ac.uk

University of Cambridge Computing Service,
PCRE JUST-IN-TIME COMPILATION SUPPORT
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Written by:       Zoltan Herczeg
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 */

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

[zlib]

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

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

[edoc, syntax_tools]

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[eldap]

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5.48 gwt-highcharts 1.3.0

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

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

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

*/

For the expat xml parser component:

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<li><a href="/foundation/thanks.html">Thanks</a></li>
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<img src="/images/SupportApache-small.png" style="height: 150px; width: 150px;">
</a>
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gcse.async = true;
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s.parentNode.insertBefore(gcse, s);
})();
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<footer class="bg-primary">
  <div class="container">
    <div class="row">
      <div class="col-sm-1"></div>
      <div class="col-sm-2">
        <h5 class="white">Community</h5>
        <ul class="list-unstyled white" role="menu">
          <li><a href="http://community.apache.org/">Overview</a></li>
          <li><a href="/foundation/conferences.html">Conferences</a></li>
          <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
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          <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
          <li><a href="/memorials/">Memorials</a></li>
        </ul>
      </div>
      <div class="col-sm-2">
        <h5 class="white">Innovation</h5>
        <ul class="list-unstyled white" role="menu">
          <li><a href="http://incubator.apache.org/">Incubator</a></li>
          <li><a href="http://labs.apache.org/">Labs</a></li>
          <li><a href="/licenses/">Licensing</a></li>
          <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
          <li><a href="/foundation/marks/">Trademark Policy</a></li>
          <li><a href="/foundation/contact.html">Contacts</a></li>
        </ul>
      </div>
      <div class="col-sm-2">
        <h5 class="white">Tech Operations</h5>
        <ul class="list-unstyled white" role="menu">
          <li><a href="/dev/">Developer Information</a></li>
          <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
          <li><a href="/security/">Security</a></li>
          <li><a href="http://status.apache.org/">Status</a></li>
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        </ul>
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/************************************************************************
* NCSA HTTPd Server
* Software Development Group
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)
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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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Java Servlet API 2.5 (servlet-api.jar from Tomcat 6.0.14)

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

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

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

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

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

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
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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
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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
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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.

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5.82 jna-platform 4.1.0

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

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

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

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

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

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

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

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
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5.92 JT400 8.4

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- Chris McDonough, 2005-12-18
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zlib.h -- interface of the 'zlib' general purpose compression library
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On all platforms, Nmap is normally linked with:
- libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.  
  http://www.tcpdump.org/
- libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.  
  http://code.google.com/p/libdnet/
- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.  
  http://www.pcre.org/
- liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.  
  http://www.lua.org/
- OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. A binary copy of the OpenSSL library for Windows is distributed with Nmap in the subdirectory mswin32/OpenSSL. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.  
  http://www.openssl.org/
- LIBLINEAR. Used for IPv6 OS classification.  
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/
- libsvn. The Subversion library, used by the updater program


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

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

Zenmap and Ndiff require:
- Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
  http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:
- GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/lgpl-2.
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- Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/lgpl-2.1 and licenses/mpl-1.1.
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- PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.
The Mac OS binary packages also include:
- Various X.org libraries. These were built using MacPorts.
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Written by: Philip Hazel
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Written by: Philip Hazel
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5.117 OpenSSL 1.0.1e

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5.118 OpenSSL patch to 0.9.8 branch to add
RFC5649 (key wrap with pad) 1.0

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5.125 redis 3.0.7

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5.126 scala-library 2.9.1

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/* NSC -- new Scala compiler
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5.133 slf4j-api 1.7.12

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5.143 spring-tx 4.0.5.RELEASE

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5.145 spring-webmvc 3.2.4

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5.146 SQLite-JDBC 3.7.2

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5.147 sqlite-jdbc 3.8.7

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5.148 strongswan 5.0.1

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
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- web-common_3_0.xsd
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Wen Quan Yi Micro Hei

Release Notes

Summary:

Author : WenQuanYi Project Contributors
Font Name: WenQuanYi Micro Hei
Version : 0.2.0-beta (Big-Bang)
Release : 0
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Droid Sans Fallback extension interface
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Read LICENSE_Apache2.txt and LICENSE_GPLv3.txt for details
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I. About this font

WenQuanYi Micro Hei font family is a Sans-Serif style (also known as Hei, Gothic or Dotum among the Chinese/Japanese/Korean users) high quality CJK outline font. It was derived from "Droid Sans Fallback", "Droid Sans" and "Droid Sans Mono" released by Google Corp. This font package contains two faces, "Micro Hei" and "Micro Hei Mono", in form of a True-Type Collection (ttc) file. All the unified CJK Han glyphs, i.e. GBK Hanzi, in the range of U+4E00-U+9FC3 defined in Unicode Standard 5.1 are covered, with additional support to many other international languages such as Latin, Extended Latin, Hanguls and Kanas. The font file is extremely compact (~5M) compared with most known CJK fonts. As a result, it can be used for hand-held devices or embedded systems, or used on PC with a significantly small memory footprint. Because both font faces carry hinting and kerning instructions for Latin glyphs, they are the excellent choices for desktop fonts.

II. Development History

The original Droid Sans Fallback font contain 16,000 Unified Han glyphs, and was officially released by Google under Apache2 license on Dec. 9, 2008 [2]. With a Javascript-based web interface, Fontopia(TM) [1], developed by mozbug and Qianqian Fang, the WenQuanYi contributors had completed over 10,000 new glyphs by combining the spline contours from the existing Droid Han glyphs. By the end of 2008, project phase-1 had almost completed, and phase-2 for CJK Extension A (U+4E00-U+4DB5) was brought online on Dec. 29, 2009. A review panel was formed to reinforce the quality of all submitted glyphs [3]. In Jan. 2009, the reviewers had redone over 2000 Hanzi and completed all the missing characters. The nightly-build font has become online since Jan. 16. As of Feb. 2009, there has been over 5500 CJK Extension A Han glyphs completed, which led this font toward a complete GB18030 coverage.
In this font, we incorporated the high quality Latin glyphs from "Droid Sans" and "Droid Sans Mono", which contain not only a better coverage but also the additional hinting and kerning information. The EM of MicroHei and MicroHeiMono fonts were unified to 2048 to retain all the advanced typesetting features.

III. Credits

We cordially thank Google(TM) for generously releasing Droid fonts to public under an open-source license. Google purchased the font from Ascenders Corp. (which was originally designed by a Chinese company).

The project for extending the Droid fonts is based on the web-based glyph-composing applet [1], created by mozbug and Qianqian Fang jointly. They are constantly improving this application targeting at a web-based collaborative font development environment.

Over a thousand anonymous contributors have participated the project; they submitted over 10,000 new Hanzi glyphs and many modifications. The full update history of the glyphs can be found at [4].

The key members of the review panel, i.e. lsz, FangQ, kmc, Xhacker, philacorns, and an "anonymous" (as requested) contributor, had spent significant amount of efforts to redesign nearly half of the submitted glyphs. We appreciate the incredible effort from this team to make this font available. The detailed review credit can be found at [3].

IV. Language Coverage

The following table is based on the locale data provided by fontconfig (generated by langcover.pl from Dejavu Project http://dejavu.sourceforge.net/wiki/index.php/Font_utilities).

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<td>Afrikaans</td>
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<td>Amharic</td>
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100% (62/62) 100% (90/90) 100% (69/69) (0/264) (0/125) (0/89) 100% (72/72) 100% (67/67) 100% (60/60)
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<th>Language</th>
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<th>Notes</th>
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<td>Oromo or Galla</td>
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<td>(52/52)</td>
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<td>or</td>
<td>Oriya</td>
<td>0%</td>
<td>(0/79)</td>
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<td>Ossetic</td>
<td>100%</td>
<td>(66/66)</td>
</tr>
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<td>Punjabi (Gurumukhi script)</td>
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<td>Pashto in Afghanistan</td>
<td>0%</td>
<td>(0/49)</td>
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<td>ps-pk</td>
<td>Pashto in Pakistan</td>
<td>0%</td>
<td>(0/49)</td>
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<td>Portuguese</td>
<td>100%</td>
<td>(83/83)</td>
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<td>(66/66)</td>
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<td>Romanian</td>
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<td>(60/62)</td>
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<td>Russian</td>
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<td>(66/66)</td>
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<td>(0/68)</td>
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<td>sah</td>
<td>Yakut</td>
<td>100%</td>
<td>(76/76)</td>
</tr>
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<td>sco</td>
<td>Scots</td>
<td>92%</td>
<td>(52/56)</td>
</tr>
<tr>
<td>se</td>
<td>North Sami</td>
<td>100%</td>
<td>(66/66)</td>
</tr>
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<td>Selkup (Ostyak-Samoyed)</td>
<td>100%</td>
<td>(66/66)</td>
</tr>
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<td>Serbo-Croatian</td>
<td>100%</td>
<td>(76/76)</td>
</tr>
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<td>si</td>
<td>Sinhala (Sinhalese)</td>
<td>0%</td>
<td>(0/77)</td>
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<td>100%</td>
<td>(60/60)</td>
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<td>Inari Sami</td>
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<td>(0/48)</td>
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<td>0%</td>
<td>(0/80)</td>
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<td>100%</td>
<td>(78/78)</td>
</tr>
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<td>Thai</td>
<td>1%</td>
<td>(1/87)</td>
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<td>ti-er</td>
<td>Eritrean Tigrinya</td>
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<td>(0/256)</td>
</tr>
<tr>
<td>Code</td>
<td>Language</td>
<td>Coverage (%)</td>
<td>Numerator/Denominator</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------</td>
<td>--------------</td>
<td>------------------------</td>
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<td>Ethiopian Tigrinya</td>
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<td>Tigre</td>
<td>(0/221)</td>
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<td>(0/19)</td>
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<td>Tonga</td>
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<td>100% (70/70)</td>
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<td>100% (52/52)</td>
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<td>Tatar</td>
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</tr>
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<td>Twi</td>
<td>91% (67/73)</td>
<td></td>
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<td>Tuvinian</td>
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<td>Uighur</td>
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<td>Urdu</td>
<td>(0/145)</td>
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<td>Uzbek</td>
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<td>Venda</td>
<td>83% (52/62)</td>
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<td>Vietnamese</td>
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</tr>
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<td>Volapuk</td>
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</tr>
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<td>Votic</td>
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<td>Walloon</td>
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</tr>
<tr>
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<td>Sorbian languages (lower and upper)</td>
<td>100% (76/76)</td>
<td></td>
</tr>
<tr>
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<td>Wolof</td>
<td>100% (66/66)</td>
<td></td>
</tr>
<tr>
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<td>Xhosa</td>
<td>100% (52/52)</td>
<td></td>
</tr>
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<td>Yapese</td>
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<td>Yiddish</td>
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<td>Chinese (simplified)</td>
<td>99% (21873/21920)</td>
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<td>Chinese (simplified)</td>
<td>99% (6754/6765)</td>
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<tr>
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<td>Chinese in Macau</td>
<td>99% (2212/2213)</td>
<td></td>
</tr>
<tr>
<td>zh-sg</td>
<td>Chinese in Singapore</td>
<td>99% (6754/6765)</td>
<td></td>
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<tr>
<td>zh-tw</td>
<td>Chinese (traditional)</td>
<td>99% (13051/13063)</td>
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<tr>
<td>zu</td>
<td>Zulu</td>
<td>100% (52/52)</td>
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</table>

V. About "WenQuanYi Project"

The "Wen Quan Yi" Project [5] was founded by Qianqian Fang [6] in Oct. 2004. The goal of this project is to create a web-based collaborative environment for open-source type-face development. The initial focus of the project is to create high quality bitmap character glyphs and outline fonts for all 70,000+ CJK characters currently encoded by the Unicode Consortium. Some of the fonts released by this project have been widely used as the default Chinese desktop fonts by main-stream GNU/Linux distributions.

The Wen Quan Yi Project uses wiki [5] as the primary development tool for glyph creation, documentation and coordinations. Wen Quan Yi
wiki also supports glyph version control and nightly build.

VI. Links

[2] http://android.git.kernel.org/?p=platform/frameworks/base.git;a=commit;h=1a2d9dbe9c6f54c5e0dc26386dc01df1d18073ad

VII. Appendix

Appendix A.

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5.158 vjdb 1.6.5
5.158.1 Available under license:

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

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5.161 WCH 3.10

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WCH.js - Windowed Controls Hider v3.10
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Credits: Mike Foster for x functions (cross-browser.com)
Credits: Tim Connor for short and sweet way of dealing with IE5.0 - dynamic creation of style rule (www.infosauce.com)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
Based on idea presented by Joe King. Works with IE5.0+/Win
IE 5.5+: place iFrame below the layer to hide windowed controls
IE 5.0 : hide/show all elements that have "WCHhider" class
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -*/

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5.164 yui 2.9.0
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5.165 zmq 3.1
6.1 libdnet 1.12

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6.3 pcre 7.4
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Written by: Philip Hazel
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6.4 xz 5.0.3

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7.19 jetty-util 7.1.4.v20100610

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3.0.4.RELEASE

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7.35 slf4j-api 1.5.2

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 * */
package org.slf4j;

/**
 * <code>ILoggerFactory</code> instances manufacture {@link Logger}
 * instances by name.
 * 
 * Most users retrieve {@link Logger} instances through the static
 * method. An instance of this interface is bound internally with
 * class at compile time.
 * 
 * @author Ceki Gülcü
 */

public interface ILoggerFactory {

 /**
 * Return an appropriate {@link Logger} instance as specified by the
 * parameter.
 * 
 * If the name parameter is equal to {@link Logger#ROOT_LOGGER_NAME}, that is
 * the string value "ROOT" (case insensitive), then the root logger of the
 * underlying logging system is returned.
 * 
 * Null-valued name arguments are considered invalid.
 * 
 * Certain extremely simple logging systems, e.g. NOP, may always
 * return the same logger instance regardless of the requested name.
 * 
 * @param name the name of the Logger to return
 */

public Logger getLogger(String name);
}
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7.37 syslog4j 0.9.46

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-- activemq-web

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2001-12-12

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2001-12-12

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```java
2

<init>()V
CodeLineNumberTable
LocalVariableTable
this
Lorg/apache/shiro/authz/permission/WildcardPermissionResolver;
resolvePermission7(Ljava/lang/String;)
Lorg/apache/shiro/authz/Permission;
permissionStringLjava/lang/String;
SourceFile
WildcardPermissionResolver.java
4
org/apache/shiro/authz/permission/WildcardPermissionResolver;
org/apache/shiro/authz/PermissionResolver(Ljava/lang/String;)
V
/*

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Wildcard string cannot be null or empty. Make sure permission strings are properly formatted.
Wildcard string cannot contain parts with only dividers. Make sure permission strings are properly formatted.
Wildcard string cannot contain only dividers. Make sure permission strings are properly formatted.
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========================================================================
== For the standardista-table-sorting.js library ==
== For the css.js library ==
========================================================================

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package org.apache.commons.codec;

/**
 * Defines common decoding methods for byte array decoders.
 */

public interface BinaryDecoder extends Decoder {
* Decodes a byte array and returns the results as a byte array.
* 
* @param pArray A byte array which has been encoded with the
* appropriate encoder
* 
* @return a byte array that contains decoded content
* 
* @throws DecoderException A decoder exception is thrown
* if a Decoder encounters a failure condition during
* the decode process.
*/
byte[] decode(byte[] pArray) throws DecoderException;
}

The commons-codec team is pleased to announce the Codec 1.3 release!

http://jakarta.apache.org/commons/codec/

The codec package contains simple encoder and decoders for various formats such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding utilities.

Changes in this version include:

New Features:

- BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
- QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.
- BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- QCodec: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.

Fixed bugs:

- The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
o Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
o Hex converts illegal characters to 255. Issue: 28455.
o Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
o Added missing tags in Javadoc comments.
o General Javadoc improvements.

Changes:

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o The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

Have fun!
-The commons-codec team

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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8.22 asm-tree 5.0.1

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8.25 aws-java-sdk 1.8.9.1

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(For example, a function in a library to compute square roots has
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8.90 jackson-core-asl 1.1.1

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8.91 jackson-databind 2.8.11.1
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8.101 jackson-mapper-asl 1.9.9

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org/relaxng/datatype/helpers/DatatypeLibraryLoader.java

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8.122 jcl-over-slf4j 1.7.7

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package org.jdom;

/**
 * An XML comment. Methods allow the user to get and set the text of the
 * comment.
 * @version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
 * @author  Brett McLaughlin
 * @author  Jason Hunter
 */

public class Comment extends Content {

    private static final String CVS_ID =
    "@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 $";

    /** Text of the <code>Comment</code> */
    protected String text;

    /**
     * Default, no-args constructor for implementations to use if needed.
     */
    protected Comment() {}
public Comment(String text) {
    setText(text);
}

/**
 * Returns the XPath 1.0 string value of this element, which is the
 * text of this comment.
 *
 * @return the text of this comment
 */
public String getValue() {
    return text;
}

/**
 * This returns the textual data within the <code>Comment</code>.
 *
 * @return <code>String</code> - text of comment.
 */
public String getText() {
    return text;
}

/**
 * This will set the value of the <code>Comment</code>.
 *
 * @param text <code>String</code> text for comment.
 * @return <code>Comment</code> - this Comment modified.
 * @throws IllegalDataException if the given text is illegal for a
 * Comment.
 */
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalDataException(text, "comment", reason);
    }
    this.text = text;
    return this;
}

/**
 * This returns a <code>String</code> representation of the
 * <code>Comment</code>, suitable for debugging. If the XML
* representation of the <code>Comment</code> is desired,
* {@link org.jdom.output.XMLOutputter#outputString(Comment)}
* should be used.
*
* @return <code>String</code> - information about the
*
<code>Attribute</code>
*/
public String toString() {
return new StringBuffer()
.append("[Comment: ")
.append(new org.jdom.output.XMLOutputter().outputString(this))
.append("]")
.toString();
}
}

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

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<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
</thead>
<tbody>
<tr>
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<td>12 September 2006</td>
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Full name: David Jencks
E-Mail:   david_jencks@yahoo.com
Mailing Address: 2215 SE 39th Ave, Portland OR 97214 USA

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Mailing Address: 37 TwinHill St., New Manila Rolling Hills, Q.C., Philippines

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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javax.servlet.jsp:javax.servlet.jsp-api
org.glassfish.web:javax.servlet.jsp
org.glassfish.web:javax.servlet.jsp
org.glassfish.web:javax.servlet.jsp.jstl
org.eclipse.jetty.orbit.javaservlet.jsp.jstl

------

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Open Source Used In Firepower 6.3

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

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

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

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

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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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8.145 jsr311-api 1.1.1

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8.170 PNG Encoder 4

8.170.1 Available under license:

com.keypoint.PngEncoder - a Java class to convert Image objects to PNG byte arrays.

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8.172 protobuf 2.4.1

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**8.173 quartz 1.8.0**

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8.174 regexp 1.1

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8.195 spring-expression 4.0.5.RELEASE

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8.214 Twofish_Properties.java 1

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8.215 validation-api 1.1.0

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8.216 velocity-dep 1.3.1

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8.217 voltdb 6.2

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package org.voltdb.common;

import java.util.Arrays;
import java.util.Collection;
import java.util.EnumSet;
import org.voltdb.catalog.Group;

//If you add a permission here add a boolean in spec.txt and update getPermissionSetForGroup method
public enum Permission {
//These enums maps to specific boolean in spec.txt

    ADMIN,     // aliased by SYSPROC
    ALLPROC,
    DEFAULTPROC,
    DEFAULTPROCREAD,
    SQL,       // aliased by ADHOC
    SQLREAD;

    public static final String toListString() {
        return Arrays.asList(values()).toString();
    }

    /**
     * Get the Permission enum by its name or alias
     */
    public static final Permission valueOfFromAlias(String name) throws IllegalArgumentException {
        try {
            return valueOf(name);
        } catch (IllegalArgumentException e) {
            // Put the aliases here
            if (name.equalsIgnoreCase("SYSPROC")) {
                return ADMIN;
            } else if (name.equalsIgnoreCase("ADHOC")) {
                return SQL;
            } else {
                throw e;
            }
        }
    }

    /**
     * This is there so that bools in spec are converted to enums in one place.
     * @param catGroup defined in catalog
     * @return permissions as <code>EnumSet&ltPermission&gt</code>
     */
    public static final EnumSet<Permission> getPermissionSetForGroup(Group catGroup) {
        EnumSet<Permission> perms = EnumSet.noneOf(Permission.class);
        if (catGroup.getAdmin()) addPermission(perms, ADMIN);
        if (catGroup.getSql()) addPermission(perms, Permission.SQL);
        if (catGroup.getSqlread()) addPermission(perms, Permission.SQLREAD);
        if (catGroup.getDefaultproc()) addPermission(perms, Permission.DEFAULTPROC);
        if (catGroup.getDefaultprocread()) addPermission(perms, Permission.DEFAULTPROCREAD);
        if (catGroup.getAllproc()) addPermission(perms, Permission.ALLPROC);
    }
}
return perms;
}

/**
 * Construct a permissions set from a collection of aliases.
 * @throws java.lang.IllegalArgumentException If the alias is not valid. The message is the alias name.
 */
public static final EnumSet<Permission> getPermissionsFromAliases(Collection<String> aliases)
throws IllegalArgumentException {
    EnumSet<Permission> permissions = EnumSet.noneOf(Permission.class);
    for (String alias : aliases) {
        try {
            addPermission(permissions, Permission.valueOfFromAlias(alias.trim().toUpperCase()));
        } catch (IllegalArgumentException e) {
            throw new IllegalArgumentException(alias.trim().toUpperCase());
        }
    }
    return permissions;
}

/**
 * Add the given permission to the permission set.
 * @param permissions    The permission set
 * @param toAdd          The permissions to add
 * @return The same permission set as passed in
 */
private static EnumSet<Permission> addPermission(EnumSet<Permission> permissions, Permission...toAdd)
{
    for (Permission onePerm : toAdd) {
        // Permissions that infer other permissions need to be listed here and
        // set the inferred permissions as well as itself.
        //
        // Always add the permission itself and then call this method to add
        // the inferred permissions.
        switch (onePerm) {
            case ADMIN:
                permissions.addAll(EnumSet.allOf(Permission.class));
                break;
            case SQL:
                permissions.add(SQL);
                addPermission(permissions, SQLREAD, DEFAULTPROC);
                break;
            case SQLREAD:
                permissions.add(SQLREAD);
                addPermission(permissions, DEFAULTPROCREAD);
                break;
            case DEFAULTPROC:
                permissions.add(DEFAULTPROC);
                break;
        }
    }
    return permissions;
}
addPermission(permissions, DEFAULTPROCREAD);
    default:
        permissions.add(onePerm);
    }
}
return permissions;
}

/**
 * Set the boolean flags in the catalog group based on the given permissions.
 * If a flag is set in the catalog group but the corresponding permission is not
 * present in the permissions set, the flag will NOT be flipped.
 *
 * @param group          The catalog group
 * @param permissions    Permissions to set in the group
 */
public static final void setPermissionsInGroup(Group group, EnumSet<Permission> permissions) {
    for (Permission p : permissions) {
        switch(p) {
            case ADMIN:
                group.setAdmin(true);
                break;
            case DEFAULTPROC:
                group.setDefaultproc(true);
                break;
            case DEFAULTPROCREAD:
                group.setDefaultprocread(true);
                break;
            case SQL:
                group.setSql(true);
                break;
            case SQLREAD:
                group.setSqlread(true);
                break;
            case ALLPROC:
                group.setAllproc(true);
                break;
        }
    }
}

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/** A very fast and memory efficient class to encode and decode to and from BASE64 in full accordance
with RFC 2045,<br><br>On Windows XP sp1 with 1.4.2_04 and later ;), this encoder and decoder is about 10 times faster
on small arrays (10 - 1000 bytes) and 2-3 times as fast on larger arrays (10000 - 1000000 bytes)
compared to <code>sun.misc.Encoder()/Decoder()</code>.<br><br>
On byte arrays the encoder is about 20% faster than Jakarta Commons Base64 Codec for encode and
about 50% faster for decoding large arrays. This implementation is about twice as fast on very small
arrays (&lt;30 bytes). If source/destination is a <code>String</code> this
version is about three times as fast due to the fact that the Commons Codec result has to be recoded
to a <code>String</code> from <code>byte[]</code>, which is very expensive.<br><br>
This encode/decode algorithm doesn't create any temporary arrays as many other codecs do, it only
allocates the resulting array. This produces less garbage and it is possible to handle arrays twice
as large as algorithms that create a temporary array. (E.g. Jakarta Commons Codec). It is unknown
whether Sun's <code>sun.misc.Encoder()/Decoder()</code> produce temporary arrays but since performance
is quite low it probably does.<br><br>
The encoder produces the same output as the Sun one except that the Sun's encoder appends
a trailing line separator if the last character isn't a pad. Unclear why but it only adds to the
length and is probably a side effect. Both are in conformance with RFC 2045 though.<br><br>
Commons codec seem to always add a trailing line separator.<br><br>
Note!</b>

The encode/decode method pairs (types) come in three versions with the <b>exact</b> same algorithm and
thus a lot of code redundancy. This is to not create any temporary arrays for transcoding to/from different
format types. The methods not used can simply be commented out.<br><br>
There is also a "fast" version of all decode methods that works the same way as the normal ones, but
has a few demands on the decoded input. Normally though, these fast versions should be used if the source if
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* @author Mikael Grev
* Date: 2004-aug-02
* Time: 11:31:11
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 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
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//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
  #pragma once
#endif

#include <cstddef>

namespace boost {
    namespace container {
        namespace container_detail {

            template <class T, T val>
            struct integral_constant
            {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_>
            {
                //

                #ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
                #define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

                #if (defined _MSC_VER) && (_MSC_VER >= 1200)
                #  pragma once
                #endif

                #include <cstddef>

                namespace boost {
                    namespace container {
                        namespace container_detail {

                            template <class T, T val>
                            struct integral_constant
                            {
                                static const T value = val;
                                typedef integral_constant<T,val> type;
                            };

                            template< bool C_ >
                            struct bool_ : integral_constant<bool, C_>
                            {
                                //
                                
                            };

                        };
                    };
                };

            };

        };
    };
}

#endif // BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
static const bool value = C_

operator bool() const { return bool_::value; }

typedef bool_<true>        true_

typedef bool_<false>       false_

typedef true_  true_type;

typedef false_ false_type;

typedef char yes_type;

struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c :
    typedef T type;

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if :
    public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if :
    public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c :
    public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();

public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};


., typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    {  return x;   }
};
template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

} //namespace container_detail {
} //namespace container {
} //namespace boost {
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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 *
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# A gnuplot script to generate a bar chart
reset
set style fill solid 1.00 border 0
set style histogram clustered gap 2
set style data histogram
set xtics rotate by -45
set grid ytics
set xlabel "Number of rows"
set ylabel "Cardinality"
set yrange [0:*]
set key on left

set term png size 1280, 960 font 'Helvetica,20' noenhanced
set output 'bench_accuracy.png'

plot 'bench_accuracy.dat' using 2:xticlabel(sprintf("%s
%2.1f\% error", stringcolumn(1), column(4))) ti "Exact", \
'bench_accuracy.dat' using 3:xticlabel(sprintf("%s
%2.1f\% error", stringcolumn(1), column(4))) ti "Estimate"
# A gnuplot script to generate a bar chart
reset
set style fill solid 1.00 border 0
set style histogram clustered gap 2
set style data histogram
set xtics rotate by -45
set grid ytics
set xlabel "Number of rows"
set ylabel "Execution time (ms)"
set yrange [0:*]
set key on left

set term png size 1280, 960 font 'Helvetica,20' noenhanced
set output 'bench_perf.png'

plot 'bench_perf.dat' using 2:xticlabels(1) ti "count(distinct value)", \
'bench_perf.dat' using 3:xtic(1) ti 'approx_count_distinct(value)'

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That's all there is to it!
java/lang/Object!

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   RW
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   'Z
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   `cdedfg
   Qhi
   j
   k
   lmdno
   Qp
   qrs
   tu
   vxy
   classNameLjava/lang/String;nameactionStringactionsLjava/util/Set;<init>()VCodeLineNumberTableLocalVariableTablethis
   PermissionInnerClasses3Lorg/apache/tools/ant/types/Permissions$Permission;setClass(Ljava/lang/String;)VaClass
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XML APIs 1.3.04
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Version 2.1, February 1999

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9.1 amqp-client 3.6.6

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9.2 antlr4 4.5.3

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9.3 asap 2.0.5
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9.4 attr-accept 1.1.0

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9.5 babel-runtime 6.20.0

9.6 bcprov-jdk15on 1.54

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9.27 element-resize-event 2.0.7

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9.28 encoding 0.1.12

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9.29 es6-promise 4.0.5

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9.30 fbjs 0.8.8

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9.31 file-saver 1.3.3

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[1]: http://eligrey.com

9.32 filesize 3.3.0

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9.34 fluent-hc 4.3.5

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9.44 HttpCore 4.3.2

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9.79 keycode 2.1.8

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9.83 log4j-core 2.5

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9.103 react-dropzone 3.7.3

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9.104 react-flexr 2.1.2

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9.105 react-input-autosize 1.1.0

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9.106 react-intl 2.1.5

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9.107 react-lazy-cache 3.0.1

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9.108 react-notification 6.5.2

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9.111 react-prop-types 0.4.0

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9.112 react-rating 0.6.3

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9.113 react-redux 4.4.6

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9.114 react-router 3.0.0

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9.115 react-router-redux 4.0.7

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9.116 react-select 1.0.0-rc.2

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9.118 redux-form 5.2.5

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9.120 regenerator-runtime 0.10.1

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9.122 Restlet Core - API and Engine 2.3.3

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9.129 snakeyaml 1.17

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9.134 stix 1.2.0.2

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9.135 strict-uri-encode 1.1.0

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9.136 symbol-observable 1.0.4

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9.137 tether 1.4.0

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9.138 topo 2.0.2

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9.140 ua-parser-js 0.7.12

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9.141 uncontrollable 4.0.3

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9.144 uuid 3.0.1

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9.145 validation-api 1.1.0.FINAL :FINAL

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9.146 warning 3.0.0

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9.147 whatwg-fetch 2.0.1
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Issue 16/04/2007
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10.4 AppConfig 1.6600000000000001

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10.7 Archive-Tar 1.54

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<signature of Ty Coon>, 1 April 1989
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From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995
12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).
Hi. I snagged some of your bash functions from your home directory on the FSF machines (naughty, I know), and I was wondering if you'd let me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in ~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwruc/WRU-2.1-ins) id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwruc/WRU-2.3) id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

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

Chet Ramey
--
``The lyf so short, the craft so long to lerne.'' - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu
-- End of excerpt from Chet Ramey

10.12 beecrypt 3.1.0
10.12.1 Available under license:

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/*-
 * $Id: berkely-db.txt,v 1.2 2012-02-09 17:36:37 mbrannig Exp $
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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.
* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

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

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

10.15 binutils 2.25.1

10.15.1 Available under license:

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.
Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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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.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

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

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

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

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

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

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

@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

@end enumerate

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

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

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

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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.

@item
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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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@end enumerate

@ifex
@end ifex
@ifinfo
@end ifinfo
@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

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school, if any, to sign a `copyright disclaimer'' for the library, if
necessary.  Here is a sample; alter the names:

@end smallexample

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

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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Version 2.1, February 1999

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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.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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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.

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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 combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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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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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
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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
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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.

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

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

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

That's all there is to it!
(This file is under construction.-*- text -*-.

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]  

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.
Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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10.16 boost 1_64_0
10.16.1 Available under license :
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
All the value based traits in this library conform to MPL’s requirements for an Integral Constant type. Please note that these types no longer inherit from `<code class="computeroutput">mpl</code>` or `true_`, `false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `<code class="computeroutput">mpl</code>` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.
Abrahams,
Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten
Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
Watanabe

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file LICENSE_1_0.txt or copy at <a href="http://www.boost.org/LICENSE_1_0.txt" target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
</p>
</div></td></tr></table>

All the value based traits in this library conform to MPL's requirements
for an [@../../../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type].

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library
will no longer implicitly include any MPL header. However there is an implicit conversion from
`integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types
in function overloads will still work as before.

[endsect]

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]

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```cpp
#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; };

struct state {}

template <int i>
struct t {};

using vector = mpl_vector((1..input_size).to_a.map { [n] "t<#{n}>" }) %;  

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() {}
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <int i>
struct t {};

using vector = mpl_vector((1..input_size).to_a.map { [n] "t<#{n}>" }) %;  

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() {}
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// (See accompanying file LICENSE.md or copy at http://boost.org/LICENSE_1_0.txt)

#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>
```
template <int i>
struct t { };

using vector = mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>

int main() { }

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<table>
<thead>
<tr>
<th>Project Name</th>
<th>Version</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boost.Hana</td>
<td>1.1.0</td>
<td>Your standard library for metaprogramming</td>
</tr>
</tbody>
</table>

<!-- window showing the filter options -->
Adapters for Boost.MPL containers.

- **Boost::mpl::integral_c< T, v >**
  - Adapter for IntegralConstants from the Boost.MPL.
  - [More...](#)

- **Boost::mpl::list< T >**
  - Adapter for Boost.MPL lists.
  - [More...](#)

- **Boost::mpl::vector< T >**
  - Adapter for Boost.MPL vectors.
  - [More...](#)
var group__group_ext_mpl =
[
[ "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
[ "list", "structboost_1_1mpl_1_1list.html", null ],
[ "vector", "structboost_1_1mpl_1_1vector.html", null ]
];

#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%x09%ad', filename],
               universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author

    return f
key = (start, author)
yield key, line
return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^
\s*\*\*\copyright\s*(\(c\))\)?\s*\d{4}\(\s*\-\s*\d{4}\)?\s*\+\(\?P<name>\+\)?\s*$',
                          line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
    if len(prefix) != 1:
        print 'Not found:', filename
        return
    prefix = list(prefix)[0]
    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                for repl in new:
                    print >>f, prefix + repl
            else:
                print >>f, line,
    pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename
    for f in all_files():
        fix_copyright(f)
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-->

<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="../../../index.htm">
<imagedata align="left"
format="GIF"
fileref="../../../boost.png"
al="C++ Boost" />
</ulink>-->

<!--hr /-->

<para>
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</para>
</hr />
</ulink>

Jeff Garland

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

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Boost.Geometry (aka GGL, Generic Geometry Library)

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Maybe this should pass?
/*
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 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();
    
    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();
    
    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
; std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os << "<!DOCTYPE HTML PUBLIC "'-//W3C//DTD HTML 4.0 Transitional//EN"'>\n" << "<html>
" << "<head>
" << "<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
    os << "</title>\n" << "</head>\n" << "<body>\n"
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
os << " for " << *(m_module_list.begin());
}
os <<
"</H1>\n"
"<H2>Contents</h2>\n"
"<pre><a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";
while(i != j)
{
// title:
os << " <A href=\"#" << make_link_target(licenses.first[i->first].license_name)
<< "\">" << licenses.first[i->first].license_name << "</a>\n";
++i;
}
os << "<a href=\"#files\">Files with no recognised license</a>\n"
"<a href=\"#authors\">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
os <<
"Moving to the Boost Software License...\n"
" <a href=\"#bsl-converted\">Files that can be automatically converted to the Boost Software License</a>\n"
" <a href=\"#to-bsl\">Files that can be manually converted to the Boost Software License</a>\n"
" <a href=\"#not-to-bsl\">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
" <a href=\"#need-bsl-authors\">Authors we need to move to the Boost Software License</a>\n"
"<a href=\"#copyright\">Copyright Holder Information</a>\n";
}
os <<
"<a href=\"#depend\">File Dependency Information</a>\n"
"</pre>";
//
// input Information:
//
os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
os << "<P>The following files were scanned for boost dependencies:<BR>";
else
os << "<P>The following Boost modules were checked:<BR>";
std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();

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while(si != sj)
{
    os << *si << "<BR>";
    ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]*define\[[:blank:]]*BOOST_VERSION\[[:blank:]]*+(\d+)(?=[\:\/:])");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
os << "The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "\n";
}

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n"
        // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
os << "This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" make_link_target(licenses.first[i->first].license_name) "">(see details)</a>";
os << "\n";
        ++i;
    }
}
and now the details:

```
// title:
os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << "></a>" << licenses.first[i->first].license_name << "</H3>
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
    // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:<P>
    std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "<BR>"
;++x;
}
os << "</P></BLOCKQUOTE>"
// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:<P>
    std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
os << split_path(m_boost_path, *m) << "<br>"
;++m;
}
os << "</P></BLOCKQUOTE>"
}
else
{
os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>"
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>"
}
++license_index;
```
// Output list of files not found to be under license control:
//
os << "\n<< m_unknown_licenses.size() << " files had no recognisable license information:" << BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";

// Output list of files with no found copyright holder:
//
os << "\n<< m_unknown_authors.size() << " files had no recognisable copyright holder:" << BLOCKQUOTE><P>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
os << "\n<< m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software
License<<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2><\n";
    << "\n<< m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:\n";
    if(!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
{
    os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
    << "<tt>\n<br>\n<table border="1" cellspacing="0" cellpadding="4" class="small">
  <tr>
    <td><pre>" << i->second.first << ">
    <td><pre>" << i->second.second << 
  </tr>
</table><br>
    
++; i;
    ++file_num;
}

// Output list of files that could be moved over to the Boost Software License
//
// os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>\n";
<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:"
<BLOCKQUOTE><P>;</p>
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "</p>";
        ++i2;
    }
    os << "</BLOCKQUOTE>";
    
// Output list of files that can not be moved over to the Boost Software License
//
// os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>\n";
<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:"
<BLOCKQUOTE><P>;</p>
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "</p>";
        ++i2;
    }
    os << "</BLOCKQUOTE>";
    
// Output list of authors that we need permission for to move to the BSL
//
// os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>\n";
<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in the file "more/blanket-permission.txt".
<BLOCKQUOTE>;</p>
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),

std::ostream_iterator<std::string>(os, "<br/>");

os << "</p></BLOCKQUOTE>");

// output a table of copyright information:

os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1">

std::map<std::string, std::set<fs::path, path_less>>::const_iterator ad, ead;

ad = m_author_data.begin();
ead = m_author_data.end();

while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>

std::set<fs::path, path_less>::const_iterator fi, efi;

fi = ad->second.begin();
efi = ad->second.end();

while(fi != efi)
{
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
}

os << "</td></tr>

++ad;
}

os << "</table>

// output file dependency information:

os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>

std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;

std::set<fs::path, path_less>::const_iterator fi, efi;

fi = m_copy_paths.begin();
efi = m_copy_paths.end();

// if in summary mode, just figure out the "bad" files and print those only:

std::set<fs::path, path_less> bad_paths;

if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());

typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;

conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();

while(i != ie)
{
bad_paths.insert(i->first);
++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
while(fi != efi)
{
  os << split_path(m_boost_path, *fi);
  dep = m_dependencies.find(*fi);
  last_dep = m_dependencies.end();
  std::set<fs::path, path_less> seen_deps;
  if (dep != last_dep)
    while(true)
    {
      os << " -> ";
      if(fs::exists(m_boost_path / dep->second))
        os << split_path(m_boost_path, dep->second);
      else if(fs::exists(dep->second))
        os << split_path(fs::path(), dep->second);
      else
        os << dep->second.string();
      if(seen_deps.find(dep->second) != seen_deps.end())
        {
          os << " <I>(Circular dependency!)</I>";
          break; // circular dependency!!!
        }
      seen_deps.insert(dep->second);
      last_dep = dep;
      dep = m_dependencies.find(dep->second);
      if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
        break;
    }
  os << "\n";
  ++fi;
}
os << "</pre></BLOCKQUOTE>\n";
  os << "</body></html>\n";

if(!os)
{
  std::string msg("Error writing to ");
  msg += m_dest_path.string();
  msg += "."
  std::runtime_error e(msg);
  boost::throw_exception(e);
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agle@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.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::false_;  // Note: This should be 'true_'
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;

namespace BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::false_;  // Note: This should be 'true_'
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template <class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    {  return x.first;   }

    template<class T>
    type& operator()(T& x)
    {  return const_cast<type&>(x.first);   }
};

//namespace container_detail {
}  //namespace container {
}  //namespace boost {

#include <boost/container/detail/config_end.hpp>

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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//
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
  #include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
  #pragma once
#endif

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
  #include <boost/config.hpp>
#endif

#ifdef BOOST_HAS_PRAGMA_ONCE
  #pragma once
#endif

#endif //ifndef BOOST_CONFIG_HPP

Open Source Used In Firepower 6.3
#include <cstdint>

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_> {
                static const bool value = C_; 
            };

            typedef bool_<true>        true_;
            typedef bool_<false>       false_;

            typedef true_  true_type;
            typedef false_ false_type;

            typedef char yes_type;
            struct no_type {
                char padding[8];
            };

            template <bool B, class T = void>
            struct enable_if_c {
                typedef T type;
            };

            template <class T>
            struct enable_if_c<!false, T> {};

            template <class Cond, class T = void>
            struct enable_if : public enable_if_c<Cond::value, T> {};

            template <class Cond, class T = void>
            struct disable_if : public enable_if_c<!Cond::value, T> {};

            template<
                bool C
            , typename T1
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#endif

#include <boost/config.hpp>

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>

#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;

} // namespace detail
} // namespace intrusive
} // namespace boost

Open Source Used In Firepower 6.3
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;  
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_; 
using boost::move_detail::true_;  
using boost::move_detail::false_;  
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>  
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<> 
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMLPLT(TNAME)  \
  template<typename T, typename DefaultType>  \
  struct boost_intrusive_default_type_ ## TNAME  \
  {
    template<typename X>  \
    static char test(int, typename X::TNAME*);
  }

//
template <typename X>
static int test(...);

struct DefaultWrap { typedef DefaultType TNAME; };

static const bool value = (1 == sizeof(test<T>(0, 0)));

typedef typename ::boost::intrusive::detail::if_c
<value, T, DefaultWrap>::type::TNAME type;

//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)   
    typename INSTANTIATION_NS_PREFIX
      boost_intrusive_default_type_ ## TNAME < T, TIMPL >::type
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)   
    template <typename T, typename DefaultType>                    
    struct boost_intrusive_eval_default_type_ ## TNAME             
    {                                                              
        template <typename X>                                       
        static char test(int, typename X::TNAME*);                  
        
        template <typename X>                                       
        static int test(...);                                       
        
        struct DefaultWrap                                          
        { typedef typename DefaultType::type TNAME; };              
        
        static const bool value = (1 == sizeof(test<T>(0, 0)));     
        
        typedef typename ::boost::intrusive::detail::eval_if_c        
        < value                                               
        , ::boost::intrusive::detail::identity<T>                 
        , ::boost::intrusive::detail::identity<DefaultWrap>        
        >::type::TNAME type;                                  
    };

//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) 
    typename INSTANTIATION_NS_PREFIX
      boost_intrusive_eval_default_type_ ## TNAME < T, TIMPL >::type
//
```c
#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
    TYPEDEF_TO_FIND)\
template <class T>\
struct TRAITS_PREFIX##_bool\
{\
    template<bool Add>\
    struct two_or_three {yes_type _[2 + Add];};\
    template <class U> static yes_type test(...);\
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
    static const std::size_t value = sizeof(test<T>(0));\
};\

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
    FUNC_NAME)\
    template <typename U, typename Signature>\
    class TRAITS_NAME\
    {\
    private:\
    template<Signature> struct helper;\
    template<typename T>\
    static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*);\
    template<typename T> static ::boost::intrusive::detail::no_type test(...);\
    public:\
    static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);\
};\

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME)\
    template <typename Type>\
    struct TRAITS_NAME\
    {\
    struct BaseMixin\
    {\
    void FUNC_NAME();\
    };\
    template<typename T, T t> class Helper{};\
    template <typename U>\
    static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0);\
    static ::boost::intrusive::detail::yes_type test(...);\
```
static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0)));\}

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME,
FUNC_NAME) 
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)
\ 
\ template<typename Type, class> 
struct TRAITS_NAME 
  : public TRAITS_NAME##_ignore_signature<Type> 
{};\}

//

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>
#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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--- end ---

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

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <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 1, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

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

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

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

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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 a sample; alter the names:

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

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

That's all there is to it!

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Version 2.1, February 1999
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Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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

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.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
   a) The modified work must itself be a software library.
   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

That's all there is to it!

10.22 cairo 1.7.4
10.22.1 Available under license:

Cairo is free software.

Every source file in the implementation[*] of cairo is available to be redistributed and/or modified under the terms of either the GNU Lesser General Public License (LGPL) version 2.1 or the Mozilla Public License (MPL) version 1.1. Some files are available under more liberal terms, but we believe that in all cases, each file may be used under either the LGPL or the MPL.

See the following files in this directory for the precise terms and conditions of either license:

COPYING-LGPL-2.1
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Please see each file in the implementation for copyright and licensing information, (in the opening comment of each file).

[*] The implementation of cairo is contained entirely within the "src" and "pixman" directories of the cairo source distribution. There are other components of the cairo source distribution (such as the "test" and "perf") that are auxiliary to the library itself. None of the source code in these directories contributes to a build of the cairo library itself, (libcairo.so or cairo.dll or similar).

These auxiliary components are also free software, but may be under different license terms than cairo itself. For example, most of the test cases in the perf and test directories are made available under an MIT license to simplify any use of this code for reference purposes in using cairo itself. Other files might be available under the GNU General Public License (GPL), for example. Again, please see the opening comment of each file for copyright and licensing information.
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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
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free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

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for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.
We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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software only, so we use the Lesser General Public License.

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

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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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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.

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Package "Carp::Clan"
=================================

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Abstract:
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This module reports errors from the perspective of the caller of a
"clan" of modules, similar to "Carp.pm" itself. But instead of giving
it a number of levels to skip on the calling stack, you give it a
pattern to characterize the package names of the "clan" of modules
which shall never be blamed for any error. :-)

So these modules stick together like a "clan" and any error which
occurs will be blamed on the "outsider" script or modules not belonging
to this "clan".
What’s new in this release:
------------------------

+ Solved RT ticket #50796 (inform type of license)
+ Made the test suite compatible with Perl versions < v5.6.0

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Prerequisites:
-------------
Perl version 5.005_03 or higher.

(Should probably also work with older versions of Perl, however.)

Installation:
------------
As usual:

    perl Makefile.PL
    make
    make test
    make install

Changes over previous versions:
-------------------------------
Please refer to the file "Changes" in this distribution for a more
detailed version history log.

What does it do:

This module is based on "Carp.pm" from Perl 5.005_03. It has been modified to skip all package names matching the pattern given in the "use" statement inside the "qw()" term (or argument list).

Suppose you have a family of modules or classes named "Pack::A", "Pack::B" and so on, and each of them uses "Carp::Clan qw(^Pack::);" (or at least the one in which the error or warning gets raised).

Thus when for example your script "tool.pl" calls module "Pack::A", and module "Pack::A" calls module "Pack::B", an exception raised in module "Pack::B" will appear to have originated in "tool.pl" where "Pack::A" was called, and not in "Pack::A" where "Pack::B" was called, as the unmodified "Carp.pm" would try to make you believe :-).

This works similarly if "Pack::B" calls "Pack::C" where the exception is raised, etcetera.

In other words, this blames all errors in the "Pack::*" modules on the user of these modules, i.e., on you. ;-)

The skipping of a clan (or family) of packages according to a pattern describing its members is necessary in cases where these modules are not classes derived from each other (and thus when examining "@ISA" - as in the original "Carp.pm" module - doesn't help).

The purpose and advantage of this is that a "clan" of modules can work together (and call each other) and throw exceptions at various depths down the calling hierarchy and still appear as a monolithic block (as though they were a single module) from the perspective of the caller.

In case you just want to ward off all error messages from the module in which you "use Carp::Clan", i.e., if you want to make all error messages or warnings to appear to originate from where your module was called (this is what you usually used to "use Carp;" for ;-) ), instead of in your module itself (which is what you can do with a "die" or "warn" anyway), you do not need to provide a
pattern, the module will automatically provide the correct one for you.

I.e., just "use Carp::Clan;" without any arguments and call "carp" or "croak" as appropriate, and they will automatically defend your module against all blames!

In other words, a pattern is only necessary if you want to make several modules (more than one) work together and appear as though they were only one.

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10.26 cifs-mount 1.7

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10.27 Class-Accessor 0.34

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10.28 Class-Data-Inheritable 0.08
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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

10.29 Class-ErrorHandler 0.01
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name: Class-ErrorHandler
version: 0.01
abstract: Base class for error handling
author: Benjamin Trott <cpan@stupidfoo.org>
license: perl
distribution_type: module
no_index:
directory:
  - t
  - inc
generated_by: Module::Install version 0.33
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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10.30 Class-Generate 1.1
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<one line to give the program's name and a brief idea of what it does.>
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10.31 Class-Loader 2.02
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from lib/Class/Loader.pm

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<snip>

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cut

from lib/Class/LoaderTest.pm
<snip>

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<signature of Ty Coon>, 1 April 1989
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10.32 Class-Singleton 1.4

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10.33 Class-XPath 1.4
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10.34 clish 0.7.3

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tinyrl/history
tinyrl/vt100

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Yves Berquin

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That's all there is to it!
from /Config-Crontab-1.30/Crontab.pm

<snip>

=head1 AUTHOR

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

That's all there is to it!

10.40 Convert-ASN1 0.22

10.40.1 Available under license :

I consider Convert::ASN1 a replacement for my earlier Convert::BER module. While ASN1.pm is not as flexible as BER.pm, because PDUs must be described up front, it is also more powerful. For example an LDAP filter is a recursive structure, BER.pm cannot encode or decode this in a single pass, ASN1.pm can.

Convert::ASN1 will parse ASN.1 descriptions and will encode from and decode to perl data structures using a hierarchy of references.

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The latest release is available from CPAN

http://search.cpan.org/author/GBARR/Convert-ASN1

INSTALL

To install run these commands, substituting x.xx for the version number that you have downloaded

gunzip Convert-ASN1-x.xx.tar.gz
tar xvf Convert-ASN1-x.xx.tar
cd Convert-ASN1-x.xx
perl Makefile.PL
  make
  make test
  make install

REPORTING BUGS

If you find any bugs with Convert::ASN1, please report them via

bugs-Convert-ASN1@rt.cpan.org

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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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10.41 Convert-PEM 0.07

10.41.1 Available under license:
from /lib/Convert/PEM.pm

<snip>
=head1 AUTHOR & COPYRIGHTS

Benjamin Trott, ben@rhumba.pair.com

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That's all there is to it!

10.42 coreutils 8.22
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10.43 cpio 2.4.2.91
10.43.1 Available under license :

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Appendix: How to Apply These Terms to Your New Programs

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<one line to give the program's name and a brief idea of what it does.>  
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<signature of Ty Coon>, 1 April 1989
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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.

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

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

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

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

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

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

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

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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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10.44 cracklib 2.8.12
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This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

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
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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)
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   by rutherford.zen.co.uk with esmt (Exim 4.50)
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for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b36d80710010908k1i1dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
      <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
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Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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Ty Coon, President of Vice

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

Preamble

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

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

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

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

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

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

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

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

   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.

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

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

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

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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.)
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10.46 cronie 1.2
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10.47 Crypt-Blowfish 2.1

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10.48 Crypt-CBC 2.33
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=head1 AUTHOR

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10.52.1 Available under license :

from /lib/Crypt/DH.pm

=head1 AUTHOR & COPYRIGHT

Benjamin Trott, ben@rhumba.pair.com

Brad Fitzpatrick, brad@danga.com

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

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10.55 Crypt-OpenSSL-Random 0.06

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from README...

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    <signature of Ty Coon>, 1 April 1989
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That's all there is to it!
10.58 Crypt-Primes 0.50

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That's all there is to it!

10.61 curl 7.61.1
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==============

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10.62 Cython 0.20.2

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#### 10.63.1 Available under license:

```plaintext
from Buffer.pm

<snip>

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10.64 Data-Compare 1.22
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# Author: Fabien Tassin <fta@sofaraway.org>
# updated by David Cantrell <david@cantrell.org.uk>
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<snip>

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10.65 Data-Serializer 0.49

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That's all there is to it!
10.66 Data-UUID 1.203

10.66.1 Available under license:

from README

<snip>

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from META.yml

<snip>

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10.67 Date-Calc 6.3
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10.68 Date-Calc-XS 6.2
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<snip>

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <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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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:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
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The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
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This pod text by Tim Bunce, J. Douglas Dunlop, Jonathan Leffler and others.
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10.80 debianutils 2.7
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10.82 dhcp 4.2.4-P1

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<signature of Ty Coon>, 1 April 1989
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*/
10.87 Digest-SHA1 2.12

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--- #YAML:1.0
name: Digest-SHA1
version: 2.12
abstract: Perl interface to the SHA-1 algorithm
author:
  - Gisle Aas <gisle@activestate.com>
license: perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
requires:
  Digest::base: 1.00
  perl: 5.004
no_index:
directory:
  - t
  - inc
generated_by: ExtUtils::MakeMaker version 6.4801
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
repository: http://github.com/gisle/digest-sha1

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**10.88 Django 1.6.1**

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10.89 dmidecode 2.1

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curve25519-donna: Curve25519 elliptic curve, public key function

http://code.google.com/p/curve25519-donna/

Adam Langley <agl@imperialviolet.org>

Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>

More information about curve25519 can be found here
http://cr.yp.to/ecdh.html

djb's sample implementation of curve25519 is written in a special assembly
language called qhasm and uses the floating point registers.

This is, almost, a clean room reimplementation from the curve25519 paper. It
uses many of the tricks described therein. Only the crecip function is taken
from the sample implementation.

10.92 e1000 8.0.35

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Theodore Ts'o
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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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Version 2, June 1991
Preamble

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customarily used for software interchange; or,

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

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   (For example, a function in a library to compute square roots has
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   application. Therefore, Subsection 2d requires that any
   application-supplied function or table used by this function must
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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10.96 efibootmgr 0.12

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10.97 efitools 1.7.0

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10.99 elementtree 1.2.6-20050316
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10.109 Error 0.15

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#
# Based on my original Error.pm, and Exceptions.pm by Peter Seibel
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#
# but modified ***significantly***

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10.110 ethtool 3.9
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10.111 ethwireck 1.2
10.111.1 Available under license:
ethwireck -- check if the wire in the Ethernet port is live

History
-------
This code is based on the code form the linuxjournal.com article about ioctl written by Lisa Corsetti. The original code can be found at:
and

I have contacted Lisa and she has confirmed to me that the license of the code is GPL.

A bit of research showed that the code is actually based on either the mii-diag tool from Donald Becker or the standard linux net-tools package. The code from Lisa uses the exact same variable names and has many other lines in common.

Despite this ethwireck offers really new functionality which is as such not available via the net-tools.
I have asked Lisa if she wants to maintain the code but she did not show any interested. Therefore this code is now maintained by me.

January 2004, Guido Socher (guido at linuxfocus.org)

Difference to mii-tool
----------------------

The functionality is similar to mii-tool however on my computer mii-tool will only produce this:  
SIOCGMIIPHY on 'eth0' failed: Operation not supported

The reasons is that there are a number of incompatible methods in the various ethernet drivers and mii-tool supports only the mii-tool interface.

ethwireck supports: ethtool interface, mii-tool and the old mii-tool interface.

Installation
-------------
run
make
make install
or to not install to /usr/sbin/ethwireck but to /opt you can use make PREFIX=/opt install

Sofar I have tested ethwireck only with 2.4.x Kernels. Probably it will also work with 2.6.x Kernels but I have not used it on a 2.6.x Kernel.

DHCP clients
-------------

There are basically two DHCP clients for Linux:
pump -- this one was originally part of redhat but is now hardly used anymore. It is still very good and easy to use therefore I have included the source code within this package.
dhcclient -- this is a more modern but also more complicated dhcp client

You can get it from: http://www.isc.org/products/DHCP/

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---------
The copyright of the ethwireck code is GPL

I am not going to include a copy of the GPL in the package because the GPL is a very common licence and can be found almost everywhere
on the internet. On top of that the license file would be bigger than the source code for this program. If you don't know what GPL is then go to www.gnu.org

Version history
---------------


Sat Jan 24 11:44:54 EST 2004, version 1.1, README file updated

Thu Apr 15 22:32:30 EST 2004, version 1.2, ebuild file for gentoo added

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10.112 EV 4.17

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10.113 eventlog 0.2.12

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10.114 ewaters-poe-component-client-amqp

58941a1

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10.118 Exporter::Tiny 0.042

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Upstream-Name: Exporter-Tiny
Upstream-Contact: Toby Inkster (TOBYINK) <tobyink@cpan.org>
Source: https://metacpan.org/release/Exporter-Tiny

Files: lib/Exporter/Shiny.pm
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10.120 ExtUtils-Constant 0.23

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

That's all there is to it!

10.123 File-Slurp 9999.13

10.123.1 Available under license:

File::Slurp.pm version 0.04

This module provides subroutines to read or write entire files with a simple call. It also has a subroutine for reading the list of filenames in a directory.

In the extras/ directory you can read an article (slurp_article.pod) about file slurping and also run a benchmark (slurp_bench.pl) that compares many ways of slurping/spewing files.

This module was first written and owned by David Muir Sharnoff (MUIR on CPAN). I checked out his module and decided to write a new version which would be faster, and with many more features. To that end, David graciously transfered the namespace to me.

Since then, I discovered and fixed a bug in the original module's test script (which had only 7 tests), which is included now as t/original.t. This module now has 164 tests in 7 test scripts, and passes on Windows, Linux, Solaris and Mac OS X.

There have been some comments about the somewhat unusual version number.
The problem was that David used a future date (2004.0904) in his version number, and the only way I could get CPAN to index my new module was to make it have a version number higher than the old one, so I chose the 9999 prefix and appended the real revision number to it.

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
test
make install

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

That's all there is to it!

10.124 findutils 4.4.0

10.124.1 Available under license :

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Version 3, 29 June 2007

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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.

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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   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.)

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

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

10.131 gcc 4.7.1
10.131.1 Available under license:
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Version 3, 29 June 2007

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

TERMS AND CONDITIONS

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

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

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

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

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

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

6. Conveying Non-Source Forms.

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

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

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

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

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

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

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

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# BSD on the PA already has ANSI include files which are c++ compatible.
STMP_FIXPROTO=
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttenen (Ari.Huttenen@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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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

You should also get your employer (if you work as a programmer) or your
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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

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

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
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free software--to make sure the software is free for all its users.

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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directing the user to the copy of this License. Also, you must do one
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a) Accompany the work with the complete corresponding
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
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Library will not necessarily be able to recompile the application
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distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
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It may happen that this requirement contradicts the license
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facilities not covered by this License, and distribute such a combined
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the Library and of the other library facilities is otherwise
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a) Accompany the combined library with a copy of the same work
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10.141 glib 1.2.10

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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 BASIC LIBRARY FUNCTIONS

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

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

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

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

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user
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#!/bin/sh

# Attempt to guess a canonical system name.

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10.148 gnu-efi 3.0.3

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10.151 Graph 0.91

10.151.1 Available under license:

--- #YAML:1.0
name: Graph
version: 0.91
abstract: ~
author:
  - Jarkko Hietaniemi <jhi@iki.fi>
license: perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
requires:
  List::Util: 0
  Math::Complex: 0
  Safe: 0
  Scalar::Util: 0
  Storable: 2.05
  Test::More: 0
no_index:
directory:
  - t
  - inc
generated_by: ExtUtils::MakeMaker version 6.48
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
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   <signature of Ty Coon>, 1 April 1989
   Ty Coon, President of Vice

That's all there is to it!

10.152 grep 2.5.3
10.152.1 Available under license:
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   Version 3, 29 June 2007

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

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

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the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

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

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

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

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eval '(exit $?0)' && eval 'exec perl -wS -0777 -pi "$0" $argv:q'
& eval 'exec perl -wS -0777 -pi "$0" $argv:q'
if 0;
# Update an FSF copyright year list to include the current year.

my $VERSION = '2012-02-05.21:39'; # UTC

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#
Written by Jim Meyering and Joel E. Denny

# The arguments to this script should be names of files that contain
# copyright statements to be updated. The copyright holder's name
# defaults to "Free Software Foundation, Inc." but may be changed to
# any other name by using the "UPDATE_COPYRIGHT_HOLDER" environment
# variable.
#
# For example, you might wish to use the update-copyright target rule
# in maint.mk from gnulib's maintainer-makefile module.
#
# If a copyright statement is recognized in a file and the final
# year is not the current year, then the statement is updated for the
# new year and it is reformatted to:
#
# 1. Fit within 72 columns.
# 2. Convert 2-digit years to 4-digit years by prepending "19".
# 3. Expand copyright year intervals. (See "Environment variables"
#    below.)
# A warning is printed for every file for which no copyright statement is recognized.

# Each file's copyright statement must be formatted correctly in order to be recognized. For example, each of these is fine:

# Copyright @copyright{} 1990-2005, 2007-2009 Free Software Foundation, Inc.

# # Copyright (C) 1990-2005, 2007-2009 Free Software Foundation, Inc.

# /*
# * Copyright &copy; 90,2005,2007-2009
# * Free Software Foundation, Inc.
# */

# However, the following format is not recognized because the line prefix changes after the first line:

# ## Copyright (C) 1990-2005, 2007-2009 Free Software Foundation, Inc.

# However, any correctly formatted copyright statement following a non-matching copyright statements would be recognized.

# The exact conditions that a file's copyright statement must meet to be recognized are:

# 1. It is the first copyright statement that meets all of the following conditions. Subsequent copyright statements are ignored.
# 2. Its format is "Copyright (C)", then a list of copyright years, and then the name of the copyright holder.
# 3. The "(C)" takes one of the following forms or is omitted entirely:

# A. (C)
# B. (c)
# C. @copyright{}
# D. &copy;

# 4. The "Copyright" appears at the beginning of a line, except that it may be prefixed by any sequence (e.g., a comment) of no more than 5 characters -- including white space.
# 5. Iff such a prefix is present, the same prefix appears at the beginning of each remaining line within the FSF copyright
# statement. There is one exception in order to support C-style comments: if the first line's prefix contains nothing but whitespace surrounding a "/*", then the prefix for all subsequent lines is the same as the first line's prefix except with each of "/" and possibly "*" replaced by a " ". The replacement of "*" by " " is consistent throughout all subsequent lines.
# 6. Blank lines, even if preceded by the prefix, do not appear within the FSF copyright statement.
# 7. Each copyright year is 2 or 4 digits, and years are separated by commas or dashes. Whitespace may appear after commas.
#
# Environment variables:
#
# 1. If UPDATE_COPYRIGHT_FORCE=1, a recognized FSF copyright statement is reformatted even if it does not need updating for the new year. If unset or set to 0, only updated FSF copyright statements are reformatted.
# 2. If UPDATE_COPYRIGHT_USE_INTERVALS=1, every series of consecutive copyright years (such as 90, 1991, 1992-2007, 2008) in a reformatted FSF copyright statement is collapsed to a single interval (such as 1990-2008). If unset or set to 0, all existing copyright year intervals in a reformatted FSF copyright statement are expanded instead.
# 3. If UPDATE_COPYRIGHT_USE_INTERVALS=2, convert a sequence with gaps to the minimal containing range. For example, convert 2000, 2004-2007, 2009 to 2000-2009.
# 4. The default maximum line length for a copyright line is 72. Set UPDATE_COPYRIGHT_MAX_LINE_LENGTH to use a different length.
# 5. Set UPDATE_COPYRIGHT_HOLDER if the copyright holder is other than "Free Software Foundation, Inc.".

use strict;
use warnings;

my $copyright_re = 'Copyright';
my $circle_c_re = '(?:\[cC\]|@copyright{}|©)';
my $holder = $ENV{UPDATE_COPYRIGHT_HOLDER};
$holder ||= 'Free Software Foundation, Inc.';
my $prefix_max = 5;
my $margin = $ENV{UPDATE_COPYRIGHT_MAX_LINE_LENGTH};
!$margin || $margin !~ m/\d+$/
and $margin = 72;
my $tab_width = 8;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/\d{4}$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
    $this_year = $year + 1900;
}

# Unless the file consistently uses "\r\n" as the EOL, use "\n" instead.
my $eol = /(?<!|^\[\r\])\n/ ? "\n" : "\r\n";

my $leading;
my $prefix;
my $ws_re;
my $stmt_re;
while (/(^|\n)(0,\prefix_max |)\copyright_re/g)
{
    $leading = "$1$2";
    $prefix = $2;
    if ($prefix =~ /^\s*(\*/\s*)$/)
    {
        $prefix =~ s,/, ,;
        my $prefix_ws = $prefix;
        $prefix_ws =~ s/*/ /; # Only whitespace.
        if (/$prefix_ws/)
        {
            $prefix = $prefix_ws;
        }
    }
    $ws_re = '^[\s\v]*$'; # \s without \n
    $ws_re = "(?<?,?:\ws_re|\n* . quotemeta($prefix) . "\s\ws_re")";
    my $holder_re = $holder;
    $holder_re =~ s/$/\s/$ws_re/$g;
    my $stmt_remainder_re = "(?<?,?:\ws_re|\circle_c_re)?";
    "\s_re:((?:\d\d)?\d\d(?<?,?:\ws_re|[-]))*";
    "((?:\d\d)?\d\d)\s_re$holder_re";
    if (/\A\stmt_remainder_re/)
    {
        $stmt_re = quotemeta($leading) . "($copyright_re$stmt_remainder_re)";
        last;
    }
}

if (defined $stmt_re)
{
    /$stmt_re/ or die; # Should never die.
    my $stmt = $1;
    my $final_year_orig = $2;
# Handle two-digit year numbers like "98" and "99".
my $final_year = $final_year_orig;
$final_year <= 99
    and $final_year += 1900;

if ($final_year != $this_year)
{
    # Update the year.
    $stmt =~ s/$final_year_orig/$final_year, $this_year/;
}
if ($final_year != $this_year || $ENV{'UPDATE_COPYRIGHT_FORCE'})
{
    # Normalize all whitespace including newline-prefix sequences.
    $stmt =~ s/$ws_re/ /g;

    # Put spaces after commas.
    $stmt =~ s/, ?, /, /g;

    # Convert 2-digit to 4-digit years.
    $stmt =~ s/\b\d\d\b/19\$1/g;

    # Make the use of intervals consistent.
    if (!$ENV{UPDATE_COPYRIGHT_USE_INTERVALS})
    {
        $stmt =~ s/\d\{4\}-\d\{4\}/join(', ', $1..$2)/eg;
    }
    else
    {
        $stmt =~
        s/
        (\d\{4\})
        (\??:
         (\-?\-
          (?=\n          if   ($2 eq ''), \d\{4\}';
          elsif ($3)     [ $1 + 1;  ]
          else           [ $3 + 1;  ]
          }))
        )+
        /$1-$3/gx;

        # When it's 2, emit a single range encompassing all year numbers.
        $ENV{UPDATE_COPYRIGHT_USE_INTERVALS} == 2
            and $stmt =~ s/\b\d\{4\}\b.*\b\d\{4\}\b/$1-$2/;
    }

    # Format within margin.
my $stmt_wrapped;
my $text_margin = $margin - length($prefix);
if ($prefix =~ /^\((\t+)/)
{
    $text_margin -= length($1) * ($tab_width - 1);
}
while (length $stmt)
{
    if (($stmt =~ s/^(.{1,$text_margin})(?: |$)//) || ($stmt =~ s/^([\S]+)(?: |$)//))
    {
        my $line = $1;
        $stmt_wrapped .= $stmt_wrapped ? "$eol$prefix $leading;" : $leading;
        $stmt_wrapped .= $line;
    } else
    {
        # Should be unreachable, but we don't want an infinite
        # loop if it can be reached.
        die;
    }
}

# Replace the old copyright statement.
s/$stmt_re/$stmt_wrapped/;
}
}
else
{
    print STDERR "$ARGV: warning: copyright statement not found in";
}

# Local variables:
# mode: perl
# indent-tabs-mode: nil
# eval: (add-hook 'write-file-hooks 'time-stamp)
# time-stamp-start: "my $VERSION = ";
# time-stamp-format: "%:y-%02m-%02d-%02H:%02M"
# time-stamp-time-zone: "UTC"
# time-stamp-end: "; # UTC"
# End:

10.155 hd2u 1.0.3
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10.156 Heap 0.8

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Heap routines...

This is a collection of routines for managing a heap data structure.

There are two major components: a heap component, and an element component.

A heap package basically keeps a collection of elements and is able to return the smallest one.

The heap component interface is defined in Heap(3) and must be supported by all heap packages. Currently there are three heap components provided:

Heap::Fibonacci (the preferred one)
Heap::Binomial
Heap::Binary

See the book "Algorithms" by Cormen, Leiserson, and Rivest for details of the three heap packages.

The element package wraps the data that is to be stored and retrieved on the heap. You can inherit from the Heap::Elem object to embed element capability into your own objects, or you can use the provided objects to embed your data into elements without having to specifically design your dat for that purpose. The Heap::Elem(3) module provides a detailed description of the requirements of an element module. (The main ones are that it must provide a cmp method so that the elements can be ordered, and it must provide a heap method that will either store or retrieve a scalar value so that the heap routines can map an element reference into its position within the heap.

Version 0.70 was used for the graph routines in the book "Mastering Algorithms with Perl", and there has been some feedback from users, which indicates that it is not too rough around the edges.

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<signature of Ty Coon>, 1 April 1989
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That's all there is to it!

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10.159 HTML-HTMLDoc 0.1

10.159.1 Available under license:

This module is an Perl OO-interface to the HTMLDOC commandline-tool available
from http://www.easysw.com/htmldoc. It can be used for easily creating
PDF and PS documents from HTML-Documents.

The module tries to be easy to use. It is possible to send the PDF-output
directly to a browser in a web-environment or to save it to a file.
If you use this module in mod_perl-environment, be careful because there are problems using IPC::Open3 with mod_perl. See the pod for an other way of this module to generate the PDF without using IPC::Open3.

Example of use:

```
use HTML::HTMLDoc();
my $htmldoc = new HTML::HTMLDoc();
$htmldoc->set_html_content($html);
my $pdf = $htmldoc->generate_pdf();

# output the generated pdf to a web-browser:
# send the correct header to the client
print "Content-type:application/pdf\n\n";
print $pdf->to_string();

# or save the pdf to file
$pdf->to_file('foo.pdf');
```

LIMITATIONS

HTMLDOC CURRENTLY ONLY SUPPORTS HTML 3.2 AND DOES NOT SUPPORT STYLE SHEETS!

Please read the documentation of HTMLDOC

Currently this module has only be tested under Linux. Any Unix that is supported by HTMLDOC should be no problem.

Please let me know of problems.

INSTALLATION

Install HTMLDOC first. See dependencies-section. If you want to use this on a webserver, you possibly want to disable the gui of HTMLDOC at configure.

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

DEPENDENCIES
This module requires these other modules and libraries:

HTMLDOC programm available on http://www.easysw.com/htmldoc

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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
Ty Coon, President of Vice

That's all there is to it!

10.160 HTML-Parser 3.64

10.160.1 Available under license:

from META.yml

<snip>

license: perl

<snip>

from Parser.xs

/*
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 *
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 */

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

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10.161 HTML-Tagset 3.20 :DUPLICATE
10.161.1 Available under license :
from README

<snip>

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That's all there is to it!
10.162 HTML-Template 2.9

10.162.1 Available under license:

from README

<snip>

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10.163 HTML-TokeParser-Simple 3.15
10.163.1 Available under license :

---
name: HTML-TokeParser-Simple
version: 3.15
author:
  - Curtis "Ovid" Poe <ovid@cpan.org>
abstract: Easy to use C<HTML::TokeParser> interface
license: perl
resources:
  license: http://dev.perl.org/licenses/
requires:
  HTML::Parser: 3.25
  HTML::TokeParser: 2.24
  Sub::Override: 0
  Test::More: 0
provides:
  HTML::TokeParser::Simple:
    file: lib/HTML/TokeParser/Simple.pm
version: 3.15
HTML::TokeParser::Simple::Token:
  file: lib/HTML/TokeParser/Simple/Token.pm
  version: 3.0
HTML::TokeParser::Simple::Token::Comment:
  file: lib/HTML/TokeParser/Simple/Token/Comment.pm
  version: 1.0
HTML::TokeParser::Simple::Token::Declaration:
  file: lib/HTML/TokeParser/Simple/Token/Declaration.pm
  version: 1.0
HTML::TokeParser::Simple::Token::ProcessInstruction:
  file: lib/HTML/TokeParser/Simple/Token/ProcessInstruction.pm
  version: 2.0
HTML::TokeParser::Simple::Token::Tag:
  file: lib/HTML/TokeParser/Simple/Token/Tag.pm
  version: 1.2
HTML::TokeParser::Simple::Token::Tag::End:
  file: lib/HTML/TokeParser/Simple/Token/Tag/End.pm
  version: 1.0
HTML::TokeParser::Simple::Token::Tag::Start:
  file: lib/HTML/TokeParser/Simple/Token/Tag/Start.pm
  version: 1.0
HTML::TokeParser::Simple::Token::Text:
  file: lib/HTML/TokeParser/Simple/Token/Text.pm
  version: 1.0
  generated_by: Module::Build version 0.2703
  meta-spec:
    url: http://module-build.sourceforge.net/META-spec-v1.2.html
    version: 1.2
HTML/TokeParser/Simple version 1.2
=================================

HTML::TokeParser::Simple is a subclass of HTML::TokeParser that uses easy-to-remember method calls to work with the tokens. Rather than try to remember a bunch of array indices or try to write a bunch of constants for them, you can now do something like:

$token->is_start_tag('form')

Instead of

$token->[0] eq 'S' and $token->[1] eq 'form'

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

DEPENDENCIES

This module requires these other modules and libraries:

HTML::TokeParser 3.25

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Glenn Randers-Pehrson
glennrp@users.sourceforge.net
September 12, 2004
/* png.h - header file for PNG reference library
 *
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 * See also "Contributing Authors", below.
 *
 * Note about libpng version numbers:
 *
 * Due to various miscommunications, unforeseen code incompatibilities
 * and occasional factors outside the authors' control, version numbering
 * on the library has not always been consistent and straightforward.
 * The following table summarizes matters since version 0.89c, which was
 * the first widely used release:
 *
 * source    png.h    png.h    shared-lib
 * version    string    int version
* 0.89c "1.0 beta 3" 0.89 89 1.0.89
* 0.90 "1.0 beta 4" 0.90 90 0.90 [should have been 2.0.90]
* 0.95 "1.0 beta 5" 0.95 95 0.95 [should have been 2.0.95]
* 0.96 "1.0 beta 6" 0.96 96 0.96 [should have been 2.0.96]
* 0.97b "1.0.97 beta 7" 1.00.97 97 1.0.1 [should have been 2.0.97]
* 0.97c 0.97 97 2.0.97
* 0.98 0.98 98 2.0.98
* 0.99 0.99 98 2.0.99
* 0.99a-m 0.99 99 2.0.99
* 1.00 1.00 100 2.1.0 [100 should be 10000]
* 1.0.0 (from here on, the 100 2.1.0 [100 should be 10000]
* 1.0.1 png.h string is 10001 2.1.0
* 1.0.1a-e identical to the 10002 from here on, the shared library
* 1.0.2 source version) 10002 is 2.V where V is the source code
* 1.0.2a-b 10003 version, except as noted.
* 1.0.3 10003
* 1.0.3a-d 10004
* 1.0.4 10004
* 1.0.4a-f 10005
* 1.0.5 (+ 2 patches) 10005
* 1.0.5a-d 10006
* 1.0.5e-r 10100 (not source compatible)
* 1.0.5s-v 10006 (not binary compatible)
* 1.0.6 (+ 3 patches) 10006 (still binary incompatible)
* 1.0.6d-f 10007 (still binary incompatible)
* 1.0.6g 10007
* 1.0.6h 10007 10.6h (testing xy.z so-numbering)
* 1.0.6i 10007 10.6i
* 1.0.6j 10007 2.1.0.6j (incompatible with 1.0.0)
* 1.0.7beta1-14 DLLNUM 10007 2.1.0.7beta1-14 (binary compatible)
* 1.0.7beta15-18 1 10007 2.1.0.7beta15-18 (binary compatible)
* 1.0.7rc1-2 1 10007 2.1.0.7rc1-2 (binary compatible)
* 1.0.7 1 10007 (still compatible)
* 1.0.8beta1-4 1 10008 2.1.0.8beta1-4
* 1.0.8rc1 1 10008 2.1.0.8rc1
* 1.0.8 1 10008 2.1.0.8
* 1.0.9beta1-6 1 10009 2.1.0.9beta1-6
* 1.0.9rc1 1 10009 2.1.0.9rc1
* 1.0.9beta7-10 1 10009 2.1.0.9beta7-10
* 1.0.9rc2 1 10009 2.1.0.9rc2
* 1.0.9 1 10009 2.1.0.9
* 1.0.10beta1 1 10010 2.1.0.10beta1
* 1.0.10rc1 1 10010 2.1.0.10rc1
* 1.0.10 1 10010 2.1.0.10
* 1.0.11beta1-3 1 10011 2.1.0.11beta1-3
* 1.0.11rc1 1 10011 2.1.0.11rc1
* 1.0.11 1 10011 2.1.0.11

Open Source Used In Firepower 6.3
* 1.0.12beta1-2  2  10012  2.1.0.12beta1-2
* 1.0.12rc1  2  10012  2.1.0.12rc1
* 1.0.12  2  10012  2.1.0.12
* 1.1.0a-f - 10100  2.1.1.0a-f (branch abandoned)
* 1.2.0beta1-2  2  10200  2.1.2.0beta1-2
* 1.2.0beta3-5  3  10200  3.1.2.0beta3-5
* 1.2.0rc1  3  10200  3.1.2.0rc1
* 1.2.0  3  10200  3.1.2.0
* 1.2.1beta1-4  3  10201  3.1.2.1beta1-4
* 1.2.1rc1-2  3  10201  3.1.2.1rc1-2
* 1.2.1  3  10201  3.1.2.1
* 1.2.2beta1-6  12  10202  12.so.0.1.2.2beta1-6
* 1.0.13beta1  10  10013  10.so.0.1.0.13beta1
* 1.0.13rc1  10  10013  10.so.0.1.0.13rc1
* 1.2.2rc1  12  10202  12.so.0.1.2.2rc1
* 1.0.13  10  10013  10.so.0.1.0.13
* 1.2.2  12  10202  12.so.0.1.2.2
* 1.2.3rc1-6  12  10203  12.so.0.1.2.3rc1-6
* 1.2.3  12  10203  12.so.0.1.2.3
* 1.2.4beta1-3  13  10204  12.so.0.1.2.4beta1-3
* 1.0.14rc1  13  10014  10.so.0.1.0.14rc1
* 1.2.4rc1  13  10204  12.so.0.1.2.4rc1
* 1.0.14  10  10014  10.so.0.1.0.14
* 1.2.4  13  10204  12.so.0.1.2.4
* 1.2.5beta1-2  13  10205  12.so.0.1.2.5beta1-2
* 1.0.15rc1-3  10  10015  10.so.0.1.0.15rc1-3
* 1.2.5rc1-3  13  10205  12.so.0.1.2.5rc1-3
* 1.0.15  10  10015  10.so.0.1.0.15
* 1.2.5  13  10205  12.so.0.1.2.5
* 1.2.6beta1-4  13  10206  12.so.0.1.2.6beta1-4
* 1.0.16  10  10016  10.so.0.1.0.16
* 1.2.6  13  10206  12.so.0.1.2.6
* 1.2.7beta1-2  13  10207  12.so.0.1.2.7beta1-2
* 1.0.17rc1  10  10017  12.so.0.1.0.17rc1
* 1.2.7rc1  13  10207  12.so.0.1.2.7rc1
* 1.0.17  10  10017  12.so.0.1.0.17
* 1.2.7  13  10207  12.so.0.1.2.7
*
* Henceforth the source version will match the shared-library major
and minor numbers; the shared-library major version number will be
used for changes in backward compatibility, as it is intended. The
PNG_LIBPNG_VER macro, which is not used within libpng but is available
for applications, is an unsigned integer of the form xyyzz corresponding
to the source version x.y.z (leading zeros in y and z). Beta versions
were given the previous public release number plus a letter, until
version 1.0.6j; from then on they were given the upcoming public
release number plus "betaNN" or "rcN".

* Binary incompatibility exists only when applications make direct access
  * to the info_ptr or png_ptr members through png.h, and the compiled
  * application is loaded with a different version of the library.
  *
  * DLLNUM will change each time there are forward or backward changes
  * in binary compatibility (e.g., when a new feature is added).
  *
  * See libpng.txt or libpng.3 for more information. The PNG specification
  * is available as a W3C Recommendation and as an ISO Specification,
  * <http://www.w3.org/TR/2003/REC-PNG-20031110/>
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10.165 httpd 2.4.20

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<head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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<script src="./style/scripts/prettify.min.js" type="text/javascript"></script>
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<body id="manual-page" class="no-sidebar">
<div id="page-header">
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="./"><img title="<" alt="<" src="./images/left.gif" /></a></div>
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* httpd@ncsa.uiuc.edu
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                           ================
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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

/*
For the expat xml parser component:

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10.166 hwloc 1.10.1

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10.167 ifenslave 1.1.0

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10.173 IO-Socket-INET6 2.69

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---

abstract: 'Object interface for AF_INET|AF_INET6 domain sockets'

author:
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  - "Modified by Rafael Martinez Torres <rafael.martinez@novagnet.com> and\nEuro6IX project."
  - "Modified further by Shlomi Fish <shlomif@iglu.org.il>, while disclaiming\nall copyrights."

build_requires:
  Test::More: 0

configure_requires:
  Module::Build: 0.36

dynamic_config: 1

generated_by: 'Module::Build version 0.38, CPAN::Meta::Converter version 2.112621'

keywords:
  - inet6
  - input
  - internet
  - ipv6
  - network
  - networking
  - output
  - socket
  - sockets

license: perl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: IO-Socket-INET6
provides:
  IO::Socket::INET6:
    file: lib/IO/Socket/INET6.pm
    version: 2.69
requires:
  Carp: 0
  Errno: 0
  Exporter: 0
  IO::Socket: 0
  Socket: 0
  Socket6: 0.12
  strict: 0
  warnings: 0
resources:
  license: http://dev.perl.org/licenses/
  repository: https://bitbucket.org/shlomif/perl-io-socket-inet6
  version: 2.69
IO::Socket::INET6

1. Abstract
IO::Socket::INET6 provides an object interface to creating and using sockets
in both AF_INET|AF_INET6 domain. It is built upon the IO::Socket interface and
inherits all the methods defined by IO::Socket.

WARNING: You should use this module mainly to program IPv6
domain. Most probably future releases will not support AF_INET | AF_UNSPEC
options, as the module seems to fail on some given corner cases. If you require
IPv4, you are encouraged to use IO::Socket::INET from the application
level. Be warned.

2. Install
  % perl Makefile.PL
  % make
  % make test
  # make install

3. AUTHOR and COPYRIGHT
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Euro6IX project.

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10.174 IO-Socket-IP 0.31

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10.176 IO-String 1.08

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Installation as usual:

perl Makefile.PL
make
make test
make install

Documentation is embedded in the module.

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10.177 IO-Tty 1.08

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* rewrite by me, Roland Giersig <RGiersig@cpan.org>.
* 
* Nevertheless my references to Tatu Ylonen <ylo@cs.hut.fi>
* and the Xemacs development team for their inspiring code.
* 
* mysignal and strlcpy were borrowed from openssh and have their
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*/

/*
* from $OpenBSD: misc.c,v 1.12 2001/06/26 17:27:24 markus Exp $  */

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*/

<snip>

/* from $OpenBSD: strlcpy.c,v 1.5 2001/05/13 15:40:16 deraadt Exp $ */

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Originally by Graham Barr E<lt>G<gbarr@pobox.com>E<gt>, based on the 
Pttty module by Nick Ing-Simmons E<lt>N<nik@tiuk.ti.com>E<gt>.
Now maintained and heavily rewritten by Roland Giersig
E<lt>F<RGiersig@cpan.org>E<gt>.

Contains copyrighted stuff from openssh v3.0p1, authored by Tatu
Ylonen <ylo@cs.hut.fi>, Markus Friedl and Todd C. Miller
<Todd.Miller@courtesan.com>. I also got a lot of inspy from the pty
code in Xemacs.

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*
* Using the InterNet Control Message Protocol (ICMP) "ECHO" facility,
* measure round-trip-delays and packet loss across network paths.
*
* Author -
* Mike Muuss
* U. S. Army Ballistic Research Laboratory
* December, 1983
*
* Status -
* Bugs -
* More statistics could always be gathered.
This program has to run SUID to ROOT to access the ICMP socket.

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# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# A lot of this script is taken from autoconf-2.10.

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
if test "$(CDPATH+set)" = set; then CDPATH=; export CDPATH; fi

echo=echo
if test "X$(echo \t) 2>/dev/null" = 'X\t'; then :
else
  # The Solaris and AIX default echo program unquotes backslashes.
  # This makes it impossible to quote backslashes using
  #    echo "$something" | sed 's/\\/\\/g'
  # So, we emulate echo with printf %s
  echo="printf %s\n"
if test "X$(echo \t) 2>/dev/null" = 'X\t'; then :
else
  # Ooops.  We have no working printf.  Try to find a not-so-buggy echo.
  echo=echo
  IFS="${IFS= }"; save_ifs="${IFS}"; IFS="${IFS}:
for dir in SPATH /usr/ucb; do
  if test -f $dir/echo && test "X$dir/echo \t" = 'X\t'; then
    echo="$dir/echo"
    break
  fi
done
IFS="$save_ifs"
fi
fi

# Sed substitution that helps us do robust quoting.  It backslashifies
# metacharacters that are still active within double-quoted strings.
Xsed=\sed -e s/\^[^/]*$/\n sed_quote_subst='s/\([\\\"\\']\\/\\/g'

# Same as above, but do not quote variable references.
double_quote_subst='s/\([\\\"\\']\\/g'

# The name of this program.
# Constants:
PROGRAM=ltconfig
PACKAGE=libtool
VERSION=1.2
ac_compile='${CC-cc} -c $CFLAGS $CPPFLAGS conftest.c 1>&5'
ac_link='${CC-cc} -o conftest $CFLAGS $CPPFLAGS $LDFLAGS conftest.c $LIBS 1>&5'
rm='rm -f'
help="Try \$proname --help' for more information."

# Global variables:
can_build_shared=yes
enable_shared=yes
# All known linkers require a `.a' archive for static linking.
enable_static=yes
ltmain=
silent=
srmdir=
ac_config_guess=
ac_config_sub=
host=
nonopt=
verify_host=yes
with_gcc=no
with_gnu ld=no

old_AR="$AR"
old_CC="$CC"
old_CFLAGS="$CFLAGS"
old_CPPFLAGS="$CPPFLAGS"
old_LD="$LD"
old_LN S="$LN S"
old_NM="$NM"
old_RANLIB="$RANLIB"

# Parse the command line options.
args=
prev=
for option
do
case "$option" in
  -*e=*) optarg='echo "$option" | sed 's/\[-_a-zA-Z0-9]*=//'' ;;
  *) optarg= ;;
esac

# If the previous option needs an argument, assign it.
if test -n "$prev"; then eval "$prev='$option'" prev= continue fi

case "$option" in
  --help) cat <<EOM
  Usage: $progname [OPTION]... LTMAIN [HOST]

  Generate a system-specific libtool script.

  --disable-shared   do not build shared libraries
  --disable-static   do not build static libraries
  --help            display this help and exit
  --no-verify        do not verify that HOST is a valid host type
  --quiet           same as '--silent'
  --silent          do not print informational messages
  --srcdir=DIR      find \config.guess' in DIR
  --version         output version information and exit
  --with-gcc        assume that the GNU C compiler will be used
  --with-gnu-ld      assume that the C compiler uses the GNU linker

  LTMAIN is the \ltmain.sh' shell script fragment that provides basic libtool functionality.

  HOST is the canonical host system name [default=guessed].
EOM
  exit 0 ;;

  --disable-shared) enable_shared=no ;;

  --disable-static) enable_static=no ;;

  --quiet | --silent) silent=yes ;;

  --srcdir) prev=srcdir ;;
  --srcdir=*) srcdir="$optarg" ;;

  --no-verify) verify_host=no ;;

  --version) echo "$PROGRAM (GNU $PACKAGE) $VERSION"; exit 0 ;;

  --with-gcc) with_gcc=yes ;;
  --with-gnu-ld) with_gnu_ld=yes ;;

  *)
echo "$progname: unrecognized option '$option'" 1>&2
echo "$help" 1>&2
exit 1

*)
if test -z "$ltmain"; then
    ltmain="$option"
elif test -z "$host"; then
    # This generates an unnecessary warning for sparc-sun-solaris4.1.3_U1
    #      if test -n "$echo $option| sed 's/[\-a-z0-9.]/\&/g'"; then
    #        echo "$progname: warning '$option' is not a valid host type" 1>&2
    #      fi
    host="$option"
else
    echo "$progname: too many arguments" 1>&2
    echo "$help" 1>&2
    exit 1
    fi ;;
esac
done

if test -z "$ltmain"; then
    echo "$progname: you must specify a LTMAIN file" 1>&2
    echo "$help" 1>&2
    exit 1
fi

if test -f "$ltmain"; then :
else
    echo "$progname: '$ltmain' does not exist" 1>&2
    echo "$help" 1>&2
    exit 1
fi

# Quote any args containing shell metacharacters.
ltconfig_args=
for arg
    case "$arg" in
    *"*["*"*"*"*"*"*"
    ltconfig_args=""$ltconfig_args $arg";;
    *) ltconfig_args=""$ltconfig_args $arg";;
esac
done

# A relevant subset of AC_INIT.
# File descriptor usage:
# 0 standard input
# 1 file creation
# 2 errors and warnings
# 3 some systems may open it to /dev/tty
# 4 used on the Kubota Titan
# 5 compiler messages saved in config.log
# 6 checking for... messages and results
if test "$silent" = yes; then
exec 6>/dev/null
else
exec 6>&1
fi
exec 5>>./config.log
# NLS nuisances.
# Only set LANG and LC_ALL to C if already set.
# These must not be set unconditionally because not all systems understand
# e.g. LANG=C (notably SCO).
if test "${LC_ALL+set}" = set; then LC_ALL=C; export LC_ALL; fi
if test "${LANG+set}" = set; then LANG=C; export LANG; fi
if (echo "testing\c"; echo 1,2,3) | grep c >/dev/null; then
# Stardent Vistra SVR4 grep lacks -e, says ghazi@caip.rutgers.edu.
if (echo -n testing; echo 1,2,3) | sed s/-n/xn/ | grep xn >/dev/null; then
ac_n= ac_c='
' ac_t=''
else
ac_n=-n ac_c= ac_t=
fi
else
ac_n= ac_c='\c' ac_t=
fi
if test -z "$srcdir"; then
# Assume the source directory is the same one as the path to ltmain.sh.
srcdir='$echo "$ltmain" | $Xsed -e 's%/[^/]*$%%''
test "$srcdir" = "$ltmain" && srcdir=.
fi
trap "$rm conftest*; exit 1" 1 2 15
if test "$verify_host" = yes; then
# Check for config.guess and config.sub.
ac_aux_dir=
for ac_dir in $srcdir $srcdir/.. $srcdir/../..; do
if test -f $ac_dir/config.guess; then
ac_aux_dir=$ac_dir
break

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if test -z "$ac_aux_dir"; then
  echo "$progname: cannot find config.guess in $srcdir $srcdir/.. $srcdir/../../.." 1>&2
  echo "$help" 1>&2
  exit 1
fi
ac_config_guess=$ac_aux_dir/config.guess
ac_config_sub=$ac_aux_dir/config.sub

# Make sure we can run config.sub.
if $ac_config_sub sun4 >/dev/null 2>&1; then :
else
  echo "$progname: cannot run $ac_config_sub" 1>&2
  echo "$help" 1>&2
  exit 1
fi

echo $ac_n "checking host system type""... $ac_c" 1>&6

host_alias=$host

if test -z "$ac_config_guess"; then :
else
  echo "$progname: cannot guess host type; you must specify one" 1>&2
  echo "$help" 1>&2
  exit 1
fi ;;
esac
host_alias=$host

# Transform linux* to *-*-linux-gnu*, to support old configure scripts.
case "$host_os" in
  linux-gnu*) ;;
  linux*) host='echo $host | sed 's/\(^.*-.*-linux\)\(.*\)$/\1-gnu\2/''

# Make sure the host verified.
test -z "$host" && exit 1

elif test -z "$host"; then
  echo "$progname: you must specify a host type if you use "--no-verify"" 1>&2
  exit 1
else
  host_alias=$host
fi
esac

host_cpu='echo $host | sed 's/^[^-]*-[^^-]*-[^-]*$/\1/''
host_vendor='echo $host | sed 's/^[^-]*-[^^-]*-[^-]*$/\2/''
host_os='echo $host | sed 's/^[^-]*-[^^-]*-[^-]*$/\3/''

case "$host_os" in
  aix3*)
    # AIX sometimes has problems with the GCC collect2 program. For some
    # reason, if we set the COLLECT_NAMES environment variable, the problems
    # vanish in a puff of smoke.
    if test "${COLLECT_NAMES+set}" != set; then
      COLLECT_NAMES=
      export COLLECT_NAMES
    fi
  ;;
esac

# Determine commands to create old-style static archives.
old_archive_cmds='$AR cru $oldlib$oldobjs'
old_postinstall_cmds='chmod 644 $oldlib'
old_postuninstall_cmds=

# Set a sane default for 'AR'.
test -z "$AR" && AR=ar

# If RANLIB is not set, then run the test.
if test "${RANLIB+set}" != "set"; then
  RANLIB=
  result=no
  echo $ac_n "checking for ranlib... $ac_e" 1>&6
  IFS="$IFS= "; save_ifs="IFS"; IFS="$IFS .=":
  for dir in $PATH; do
    test -z "$dir" && dir=.
    if test -f $dir/ranlib; then
      RANLIB="ranlib"
      result="ranlib"
      break
    fi
  done
  IFS="$save_ifs"

  echo "$ac_t$result" 1>&6
  fi

if test -n "$RANLIB"; then
  old_archive_cmds="$old_archive_cmds;$RANLIB $oldlib"
  old_postinstall_cmds="$RANLIB $oldlib;\$old_postinstall_cmds"
# Check to see if we are using GCC.
if test "$with_gcc" != yes || test -z "$CC"; then
  # If CC is not set, then try to find GCC or a usable CC.
  if test -z "$CC"; then
    echo $ac_n "checking for gcc... $ac_c" 1>&6
    IFS="${IFS= }"; save_ifs="IFS"; IFS="${IFS=}";
    for dir in $PATH; do
      IFS="$save_ifs"
      test -z "$dir" && dir=.
      if test -f $dir/gcc; then
        CC="gcc"
        break
      fi
    done
    IFS="$save_ifs"
    if test -n "$CC"; then
      echo "$ac_t$CC" 1>&6
    else
      echo "$ac_t"no 1>&6
    fi
  fi
fi
done
IFS="$save_ifs"

if test -z "$CC"; then
  echo $ac_n "checking for cc... $ac_c" 1>&6
  if test -z "$CC"; then
    echo "$ac_t"no 1>&6
  fi
else
  echo $ac_t$CC 1>&6
fi

# Not "gcc", so try "cc", rejecting "/usr/ucb/cc".
if test -z "$CC"; then
  echo $ac_n "checking for cc... $ac_c" 1>&6
  IFS="${IFS= }"; save_ifs="IFS"; IFS="${IFS=}";
  cc_rejected=no
  for dir in $PATH; do
    test -z "$dir" && dir=.
    if test -f $dir/cc; then
      if test "$dir/cc" = "/usr/ucb/cc"; then
        cc_rejected=yes
        continue
      fi
      CC="cc"
      break
    fi
  done
  if cc_rejected = yes; then
    # We found a bogon in the path, so make sure we never use it.
    set dummy $CC
    shift
    if test $# -gt 0; then
      # We chose a different compiler from the bogus one.
# However, it has the same name, so the bogon will be chosen
# first if we set CC to just the name; use the full file name.
shift
set dummy "$dir/cc" "$@"
shift
CC="$@
fi
fi

if test -n "$CC"; then
echo "$ac_t$CC" 1>&6
else
echo "$ac_t"no 1>&6
fi
fi

if test -z "$CC"; then
  echo "$progname: error: no acceptable cc found in \$PATH" 1>&2
  exit 1
fi
fi

# Now see if the compiler is really GCC.
with_gcc=no
echo $ac_n "checking whether we are using GNU C... $ac_c" 1>&6
echo "$progname:424: checking whether we are using GNU C" >&5
$rm conftest.c
cat > conftest.c <<EOF
#ifdef __GNUC__
yes;
#endif
EOF
if { ac_try='${CC-cc} -E conftest.c'; { (eval echo $progname:432: "$ac_try") 1>&5; (eval $ac_try) 2>&5; }; } |
egrep yes >/dev/null 2>&1; then
  with_gcc=yes
fi
$rm conftest.c
echo "$ac_t$with_gcc" 1>&6
fi

# Allow CC to be a program name with arguments.
set dummy $CC
compiler="$2"

echo $ac_n "checking for $compiler option to produce PIC... $ac_e" 1>&6
pic_flag=
special_shlib_compile_flags=
w1=
link_static_flag=
no_builtin_flag=

if test "$with_gcc" = yes; then
  wl='-Wl,'
  link_static_flag='-static'
  no_builtin_flag=' -fno-builtin'

  case "$host_os" in
    aix3* | aix4* | irix5* | irix6* | osf3* | osf4*)
      # PIC is the default for these OSES.
      ;;
    os2*)
      # We can build DLLs from non-PIC.
      ;;
    amigaos*)
      #FIXME: we need at least 68020 code to build shared libraries, but
      # adding the '-m68020' flag to GCC prevents building anything better,
      # like '-m68040'.
      pic_flag='-m68020 -resident32 -malways-restore-a4'
      ;;
    *)
      pic_flag='-fPIC'
      ;;
  esac

  case "$host_os" in
    aix3* | aix4*)
      # All AIX code is PIC.
      link_static_flag='-bnso -bI:/lib/syscalls.exp'
      ;;
    hpux9* | hpux10*)
      # Is there a better link_static_flag that works with the bundled CC?
      wl='-Wl,'
      link_static_flag="${wl} -a ${wl}archive"
      pic_flag='+Z'
      ;;
    irix5* | irix6*)
      wl='-Wl,'
      link_static_flag='-non_shared'
      # PIC (with -KPIC) is the default.
      ;;
    os2*)
      # We can build DLLs from non-PIC.
      ;;
  esac

  esac
else
  # PORTME Check for PIC flags for the system compiler.
  case "$host_os" in
    aix3* | aix4*)
      # All AIX code is PIC.
      link_static_flag='-bnso -bI:/lib/syscalls.exp'
      ;;
osf3* | osf4*)
  # All OSF/1 code is PIC.
  wI='-Wl,'
  link_static_flag='-non_shared'
  ::

sco3.2v5*)
  pic_flag='-Kpic'
  link_static_flag='-dn'
  special_shlib_compile_flags='-belf'
  ::

solaris2*)
  pic_flag='-KPIC'
  link_static_flag='-Bstatic'
  wI='-Wl,'
  ::

sunos4*)
  pic_flag='-PIC'
  link_static_flag='-Bstatic'
  wI='-Wl,'
  ::

sysv4.2uw2*)
  pic_flag='-KIC'
  link_static_flag='-Bstatic'
  wI='-Wl,'
  ::

uts4*)
  pic_flag='-pic'
  link_static_flag='-Bstatic'
  ::

*)
  can_build_shared=no
  ::
esac
fi

if test -n "$pic_flag"; then
  echo "$ac_t$pic_flag" 1>&6
  # Check to make sure the pic_flag actually works.
  echo $ac_n "checking if $compiler PIC flag $pic_flag works... $ac_c" 1>&6
$rm conftest*
echo > conftest.c
save_CFLAGS="$CFLAGS"
CFLAGS="$CFLAGS $pic_flag -DPIC"
echo "$progname:547: checking if $compiler PIC flag $pic_flag works" >&5
if { (eval echo $progname:548: "$ac_compile") 1>&5; (eval $ac_compile) 2>conftest.err; } && test -s conftest.o;
then
  # Append any warnings to the config.log.
cat conftest.err 1>&5

  # On HP-UX, both CC and GCC only warn that PIC is supported... then they create non-PIC objects. So, if there were any warnings, we assume that PIC is not supported.
  if test -s conftest.err; then
    echo "$ac_t"no 1>&6
    can_build_shared=no
    pic_flag=
  else
    echo "$ac_t"yes 1>&6
    pic_flag=" $pic_flag"
  fi
else
  # Append any errors to the config.log.
cat conftest.err 1>&5
  can_build_shared=no
  pic_flag=
cat conftest.err 1>&5
  CFLAGS="$save_CFLAGS"
$rm conftest*
else
  echo "$ac_t"none 1>&6
fi

  # Check for any special shared library compilation flags.
if test -n "$special_shlib_compile_flags"; then
  echo "$progname: warning: "$CC" requires "$special_shlib_compile_flags" to build shared libraries" 1>&2
  if echo "$old_CC $old_CFLAGS " | egrep -e "[ ]$special_shlib_compile_flags[ ]" >/dev/null; then :
    else
      echo "$progname: add "$special_shlib_compile_flags" to the CC or CFLAGS env variable and reconfigure" 1>&2
      can_build_shared=no
    fi
  fi
  echo $ac_n "checking if $compiler static flag $link_static_flag works... $ac_c" 1>&6
  $rm conftest*
echo 'main(){return(0);}' > conftest.c
save_LDFLAGS="$LDFLAGS"
LDFLAGS="LDFLAGS $link_static_flag"
echo "$progname:591: checking if $compiler static flag $link_static_flag works" >&5
if { (eval echo "$progname:592: "$ac_link") 1>&5; (eval $ac_link) 2>&5; } && test -s conftest; then
echo "$ac_t$link_static_flag" 1>&6
else
echo "$ac_t"none 1>&6
link_static_flag=
fi
LDFLAGS="$save_LDFLAGS"
rm conftest*

if test -z "$LN_S"; then
# Check to see if we can use ln -s, or we need hard links.
echo "$ac_n" "checking whether ln -s works... "$ac_c" 1>&6
rm conftestdata
if ln -s X conftestdata 2>/dev/null; then
  rm conftestdata
  LN_S="ln -s"
else
  LN_S=ln
fi
if test "$LN_S" = "ln -s"; then
  echo "$ac_t"yes 1>&6
else
  echo "$ac_t"no 1>&6
fi
fi

# Make sure LD is an absolute path.
if test -z "$LD"; then
  ac_prog=ld
if test "$with_gcc" = yes; then
  # Check if gcc -print-prog-name=ld gives a path.
echo "$ac_n" "checking for ld used by GCC... "$ac_c" 1>&6
ac_prog="($CC -print-prog-name=ld) 2>&5"
case "$ac_prog" in
  # Accept absolute paths.
  /* | [A-Za-z]:\*)
    test -z "$LD" && LD="$ac_prog"
    ;;
  *)
    # If it fails, then pretend we are not using GCC.
    ac_prog=ld
    ;;
)/*

with_gnu_ld=unknown
::
esac
elif test "$with_gnu_ld" = yes; then
    echo $ac_n "checking for GNU ld... $ac_c" 1>&6
    echo "$progname:642: checking for GNU ld" >&5
else
    echo $ac_n "checking for non-GNU ld"... $ac_c" 1>&6
    echo "$progname:645: checking for non-GNU ld" >&5
fi

if test -z "$LD"; then
    IFS="${IFS= }": ac_save_ifs="IFS"; IFS="${IFS}="
    for ac_dir in $PATH; do
test -z "$ac_dir" && ac_dir=.
    if test -f "$ac_dir/$ac_prog"; then
        LD="$ac_dir/$ac_prog"
        # Check to see if the program is GNU ld. I'd rather use --version,
        # but apparently some GNU ld's only accept -v.
        # Break only if it was the GNU/non-GNU ld that we prefer.
        if "$LD" -v 2>&1 < /dev/null | egrep '(GNU|with BFD)'; then
            test "$with_gnu_ld" != no && break
        else
            test "$with_gnu_ld" != yes && break
        fi
    done
    IFS=""ac_save_ifs"
fi

if test -n "$LD"; then
    echo "$LD" 1>&6
else
    echo "no" 1>&6
fi

if test -z "$LD"; then
    echo "$progname: error: no acceptable ld found in $PATH" 1>&2
    exit 1
fi

if test -z "$LD"; then
    echo "$progname: error: no acceptable ld found in $PATH" 1>&2
    exit 1
fi

# Check to see if it really is or is not GNU ld.
echo $ac_n "checking if the linker ($LD) is GNU ld... $ac_c" 1>&6
# I'd rather use --version here, but apparently some GNU ld's only accept -v.
if "$LD" -v 2>&1 < /dev/null | egrep '(GNU|with BFD)'; then
    with_gnu_ld=yes
else
    with_gnu_ld=no
fi

# Check to see if it really is or is not GNU ld.
echo $ac_n "checking if the linker ($LD) is GNU ld... $ac_c" 1>&6
# I'd rather use --version here, but apparently some GNU ld's only accept -v.
if "$LD" -v 2>&1 < /dev/null | egrep '(GNU|with BFD)'; then
    with_gnu_ld=yes
else
    with_gnu_ld=no
echo "$ac_r$with_gnu_ld" 1>&6

# See if the linker supports building shared libraries.
echo $ac_n "checking whether the linker (SLD) supports shared libraries... $ac_c" 1>&6

allow_undefined_flag=
no_undefined_flag=
archive_cmds=
old_archive_from_new_cmds=
export_dynamic_flag_spec=
hardcode_libdir_flag_spec=
hardcode_libdir_separator=
hardcode_direct=no
hardcode_minus_L=no
hardcode_shlibpath_var=unsupported
runpath_var=

case "$host_os" in
  amigaos* | sunos4*)
    # On these operating systems, we should treat GNU ld like the system ld.
    gnu_ldActs_native=yes
    ;;
  *
  *)
    gnu_ldActs_native=no
    ;;
  esac

ld_shlibs=yes
if test "$with_gnu_ld" = yes && test "$gnu_ldActs_native" != yes; then
  # See if GNU ld supports shared libraries.
  if SLD --help 2>&1 | egrep ': supported targets::.* elf' > /dev/null; then
    archive_cmds='"$CC -shared ${wl}-soname $wl$soname -o $lib$libobjs"
    runpath_var=LD_RUN_PATH
    ld_shlibs=yes
  else
    ld_shlibs=no
  fi
if test "$ld_shlibs" = yes; then
  hardcode_libdir_flag_spec='"${wl}--rpath ${wl}$libdir"
  export_dynamic_flag_spec='"${wl}--export-dynamic"
fi
else
  # PORTME fill in a description of your system's linker (not GNU ld)
case "$host_os" in
  aix3*)
allow_undefined_flag=unsupported
archive_cmds="$NM$libobjs | $global_symbol_pipe | sed \"s/\s+//\" > $lib.exp;$LD -o $objdir/$soname$libobjs -bE:$lib.exp -T512 -H512 -bM:SRE;$AR cru $lib $objdir/$soname"
# Note: this linker hardcodes the directories in LIBPATH if there
# are no directories specified by -L.
hardcode_minus_L=yes
if test "Swith_gcc" = yes && test -z "$link_static_flag"; then
  # Neither direct hardcoding nor static linking is supported with a
  # broken collect2.
  hardcode_direct=unsupported
fi
;;

aix4*)
  allow_undefined_flag=unsupported
  archive_cmds="$NM$libobjs | $global_symbol_pipe | sed \"s/\s+//\" > $lib.exp;$CC -o $objdir/$soname$libobjs $[wl]-bE:$lib.exp $[wl]-bM:SRE $[wl]-bnoentry;$AR cru $lib $objdir/$soname"
  hardcode_direct=yes
  hardcode_minus_L=yes
  ;;
amigaos*)
  archive_cmds="$rm $objdir/a2ixlibrary.data;$echo "#define NAME $libname" > $objdir/a2ixlibrary.data;$echo "#define LIBRARY_ID 1" >> $objdir/a2ixlibrary.data;$echo "#define VERSION $major" >> $objdir/a2ixlibrary.data;$echo "#define REVISION $revision" >> $objdir/a2ixlibrary.data;$AR cru $lib$libobjs;$RANLIB $lib;(cd $objdir && a2ixlibrary -32)"
  hardcode_libdir_flag_spec='-L$libdir'
  hardcode_minus_L=yes
  ;;

# FreeBSD 2.2.[012] allows us to include c++rt0.o to get C++ constructor
# support. Future versions do this automatically, but an explicit c++rt0.o
# does not break anything, and helps significantly (at the cost of a little
# extra space).
freebsd2.2*)
  archive_cmds="$LD -Bshareable -o $lib$libobjs /usr/lib/c++rt0.o"
  hardcode_libdir_flag_spec='-R$libdir'
  hardcode_direct=yes
  hardcode_minus_L=yes
  hardcode_shlibpath_var=no
  ;;

# Unfortunately, older versions of FreeBSD 2 do not have this feature.
freebsd2*)
  archive_cmds="$LD -Bshareable -o $lib$libobjs"
  hardcode_direct=yes
  hardcode_minus_L=yes
  hardcode_shlibpath_var=no
# FreeBSD 3, at last, uses gcc -shared to do shared libraries.
freebsd3*)
archive_cmds='\$CC -shared -o \$lib$libobjs'
hardcode_libdir_flag_spec='-R$libdir'
hardcode_direct=yes
hardcode_minus_L=yes
hardcode_shlibpath_var=no

hpux9*)
archive_cmds='\$rm $objdir/$soname;\$LD -b +s +b $install_libdir -o $objdir/$soname$libobjs;mv $objdir/$soname $lib'
hardcode_libdir_flag_spec='${wl}+b ${wl}$libdir'
hardcode_direct=yes
hardcode_minus_L=yes
export_dynamic_flag_spec='${wl}-E'

hpux10*)
archive_cmds='\$LD -b +h $soname +s +b $install_libdir -o $lib$libobjs'
hardcode_libdir_flag_spec='${wl}+b ${wl}$libdir'
hardcode_direct=yes
hardcode_minus_L=yes
export_dynamic_flag_spec='${wl}-E'

irix5* | irix6*)
archive_cmds='\$LD -shared -o $lib -soname $soname -set_version $verstring$libobjs'
hardcode_libdir_flag_spec='${wl}-rpath ${wl}$libdir'

netbsd*)
# Tested with NetBSD 1.2 ld
archive_cmds='\$LD -Bshareable -o $lib$libobjs'
hardcode_libdir_flag_spec='-R$libdir'
hardcode_direct=yes
hardcode_shlibpath_var=no

openbsd*)
archive_cmds='\$LD -Bshareable -o $lib$libobjs'
hardcode_libdir_flag_spec='-R$libdir'
hardcode_direct=yes
hardcode_shlibpath_var=no
os2*)
  hardcode_libdir_flag_spec='-L$libdir'
  hardcode_minus_L=yes
  allow_undefined_flag=unsupported
  archive_cmds='$echo "LIBRARY $libname INITINSTANCE" > $objdir/$libname.def;$echo "DESCRIPTION " "$libname\"" >> $objdir/$libname.def;$echo DATA >> $objdir/$libname.def;$echo " SINGLE NONSHARED" >> $objdir/$libname.def;$echo EXPORTS >> $objdir/$libname.def;emxexp$libobjs >> $objdir/$libname.def;SCC -Zdll -Zcrtdll -o $lib$libobjs $objdir/$libname.def'
  old_archive_from_new_cmds='emximp -o $objdir/$libname.a $objdir/$libname.def'
  :

  osf3* | osf4*)
  allow_undefined_flag=' -expect_unresolved '\"'
  archive_cmds='LD -shared${allow_undefined_flag} -o $lib -soname $soname -set_version $verstring$libobjs$deplibs'
  hardcode_libdir_flag_spec='${w}l-rpath ${w}l$libdir'
  hardcode_libdir_separator=:
  :

sco3.2v5*)
  archive_cmds='LD -G -o $lib$libobjs'
  hardcode_direct=yes
  :

solaris2*)
  no_undefined_flag=' -z text'
  archive_cmds='LD -G${allow_undefined_flag} -h $soname -o $lib$libobjs'
  hardcode_libdir_flag_spec='-R$libdir'
  hardcode_shlibpath_var=no

# Solaris 2 before 2.5 hardcodes -L paths.
case "$host_os" in
  solaris2.[0-4]*)
    hardcode_minus_L=yes
    :
    esac
    :

sunos4*)
  if test "$with_gcc" = yes; then
    archive_cmds='$CC -shared -o $lib$libobjs'
  else
    archive_cmds='LD -assert pure-text -Bstatic -o $lib$libobjs'
  fi
if test "$with_gnu_ld" = yes; then
  export_dynamic_flag_spec='[$w]l-export-dynamic'
fi
hardcode_libdir_flag_spec='-L$libdir'
hardcode_direct=yes
hardcode_minus_L=yes
hardcode_shlibpath_var=no

;

uts4*)
archive_cmds='L -G -h $soname -o $lib$libobjs'
hardcode_libdir_flag_spec='-L$libdir'
hardcode_direct=no
hardcode_minus_L=no
hardcode_shlibpath_var=no

;

*)
ld_shlibs=no
can_build_shared=no

;
esac
fi
echo "$ac_r$ld_shlibs" 1>&6

if test -z "$NM"; then
  echo $ac_n 'checking for BSD-compatible nm... $ac_c' 1>&6
  case "$NM" in
    /* | /usr/ucb/ustccs/bin $PATH /bin;
    do
      test -z "$ac_dir" && ac_dir=
      if test -f $ac_dir/nm; then
        # Check to see if the nm accepts a BSD-compat flag.
        # Adding the 'sed 1q' prevents false positives on HP-UX, which says:
        # nm: unknown option "B" ignored
        if ($ac_dir/nm -B /dev/null 2>&1 | sed '1q'; exit 0) | grep /dev/null >/dev/null; then
          NM="$ac_dir/nm -B"
        elif ($ac_dir/nm -p /dev/null 2>&1 | sed '1q'; exit 0) | grep /dev/null >/dev/null; then
          NM="$ac_dir/nm -p"
        else
          NM="$ac_dir/nm"
        fi
        break
      fi
done
IFS="$SIFS"

"$NM" & & NM=nm

;
esac
echo "$ac_t$NM" 1>&6
fi

# Check for command to grab the raw symbol name followed by C symbol from nm.
echo $ac_n "checking command to parse $NM output... $ac_c" 1>&6

# These are sane defaults that work on at least a few old systems.
# [They come from Ultrix. What could be older than Ultrix?!! ;)]

# Character class describing NM global symbol codes.
symcode='[BCDEGRSTU]'

# Regexp to match symbols that can be accessed directly from C.
sympat='([_A-Za-z][_A-Za-z0-9]*n)'

# Transform the above into a raw symbol and a C symbol.
symxfrm='\1 \1'

# Define system-specific variables.
case "$host_os" in
  aix*)
symcode='[BCDTU]'
  ;;
  irix*)
# Cannot use undefined symbols on IRIX because inlined functions mess us up.
symcode='[BCDEGRST]'
  ;;
  solaris2*)
symcode='[BDTU]'
  ;;
  esac

# If we're using GNU nm, then use its standard symbol codes.
if $NM -V 2>&1 | egrep '(GNU|with BFD)' > /dev/null; then
  symcode='[ABCDGISTUW]'
fi

# Write the raw and C identifiers.
global_symbol_pipe="sed -n -e 's/^.* $symcode $sympat$/$symxfrm/p'"

# Check to see that the pipe works correctly.
pipe_works=no
$rm conftest*
cat > conftest.c <<EOF
#ifdef __cplusplus
extern "C" {
#endif
c
char nm_test_var;
EOF

void nm_test_func();
#endif

main(){nm_test_var='a';nm_test_func();return(0);}

EOF

echo "$progname:971: checking if global_symbol_pipe works" >&5
if [ (eval echo "$progname:972: \"$ac_compile\" 1>&5; (eval $ac Compile) 2>&5; ) ] & & test -s conftest.o; then
# Now try to grab the symbols.
nlist=conftest.nm
if [ echo "$progname:975: eval \"$NM conftest.o | $global_symbol_pipe > $nlist\" >&5; eval "$NM conftest.o | $global_symbol_pipe > $nlist 2>&5; ] ] & & test -s "$nlist"; then

# Try sorting and uniquifying the output.
if sort "$nlist" | uniq > "$nlist"; then
mv -f "$nlist" "$nlist"T
wcout="wc "$nlist" 2>&dev/null"
count="$echo "X$wcout" "$Xsed -e 's/^[0-9]*\[.*[0-9]*\].*$/\1/'" (test "$count" -ge 0) 2>&dev/null || count=-1
else
rm -f "$nlist"T
count=-1
fi

# Make sure that we snagged all the symbols we need.
if egrep ' nm_test_var$' "$nlist" >/dev/null; then
if egrep ' nm_test_func$' "$nlist" >/dev/null; then
cat <<EOF > conftest.c
#ifdef __cplusplus
extern "C"
#endif
EOF
# Now generate the symbol file.
"sed 's/^[0-9]*\(/\1;/f < "$nlist" >> conftest.c

cat <<EOF >> conftest.c
#endif
extern "C" { 
#endif

EOF

/* The number of symbols in dld_preloaded_symbols, -1 if unsorted. */
int dld_preloaded_symbol_count = $count;

/* The mapping between symbol names and symbols. */
struct {
    char *name;
    __ptr_t address;
};

dld_preloaded_symbols[] =
{
    EOF
    sed 's/\(.*\) \(.*\)/ {"\1", (__ptr_t) &\2},/ < "$nlist" >> conftest.c
    cat <<EOF >> conftest.c
    {0, (__ptr_t) 0}
};

#ifdef __cplusplus
}
#endif
EOF

# Now try linking the two files.
mv conftest.o conftestm.o
save_LIBS="$LIBS"
save_CFLAGS="$CFLAGS"
LIBS='conftestm.o'
CFLAGS="$CFLAGS$sno_builtin_flag"
if { (eval echo $progname:1033: "$ac_link") 1>&5; (eval $ac_link) 2>&5; } && test -s conftest; then
    pipe_works=yes
else
    echo "$progname: failed program was:" >&5
cat conftest.c >&5
fi
LIBS="$save_LIBS"
else
    echo "cannot find nm_test_func in $nlist" >&5
    fi
else
    echo "cannot find nm_test_var in $nlist" >&5
fi
else
    echo "cannot run $global_symbol_pipe" >&5
fi
else
    echo "$progname: failed program was:" >&5
cat conftest.c >&5
fi
$rm conftest*

# Do not use the global_symbol_pipe unless it works.
echo "$ac_t$pipe_works" 1>&6
test "$pipe_works" = yes || global_symbol_pipe=
# Check hardcoding attributes.
echo $ac_n "checking how to hardcode library paths into programs... $ac_c" 1>&6
hardcode_action=
if test -n "$hardcode_libdir_flag_spec" || \
  test -n "$runpath_var"; then

  # We can hardcode non-existant directories.
  if test "$hardcode_direct" != no && \
    test "$hardcode_minus_L" != no && \
    test "$hardcode_shlibpath_var" != no; then
    # Linking always hardcodes the temporary library directory.
    hardcode_action=relink
  else
    # We can link without hardcoding, and we can hardcode nonexisting dirs.
    hardcode_action=immediate
  fi
elif test "$hardcode_direct" != yes && \
  test "$hardcode_minus_L" != yes && \
  test "$hardcode_shlibpath_var" != yes; then
  # We cannot hardcode anything.
  hardcode_action=unsupported
else
  # We can only hardcode existing directories.
  hardcode_action=relink
fi
echo "$ac_t$hardcode_action" 1>&6
test "$hardcode_action" = unsupported && can_build_shared=no

reload_flag=
reload_cmds='$LD$reload_flag -o $output$reload_objs'
echo $ac_n "checking for $LD option to reload object files... $ac_c" 1>&6
# PORTME Some linker may need a different reload flag.
reload_flag='-r'
echo "$ac_t$reload_flag"
test -n "$reload_flag" && reload_flag=" $reload_flag"

# PORTME Fill in your ld.so characteristics
library_names_spec=
libname_spec='lib$name'
soname_spec=
postinstall_cmds=
postuninstall_cmds=
finish_cmds=
finish_eval=
shlibpath_var=
version_type=none
dynamic_linker="$host_os ld.so"

echo $ac_n "checking dynamic linker characteristics... $ac_c" 1>&6
case "$host_os" in
  aix3* | aix4*)
    version_type=linux
    library_names_spec="${libname}${release}.so.$versuffix ${libname}.a"
    shlibpath_var=LIBPATH
    soname_spec="${libname}${release}.so.$major"
    # AIX has no versioning support, so we append a major version to the name.
    $finish_eval="for lib in "ls $libdir/*.ixlibrary 2>/dev/null"; do libname='"X$lib" | $Xsed -e 's%^.*\([/\].\)%\1%'; test $rm /sys/libs/${libname}_ixlibrary.a; $show "(cd /sys/libs && $LN_S $lib ${libname}_ixlibrary.a)"; (cd /sys/libs && $LN_S $lib ${libname}_ixlibrary.a) || exit 1; done"
  ;;
  amigaos*)
    library_names_spec="${libname}.ixlibrary ${libname}.a"
    # Create ${libname}_ixlibrary.a entries in /sys/libs.
    $finish_eval="for lib in "ls $libdir/*.ixlibrary 2>/dev/null"; do libname='"X$lib" | $Xsed -e 's%^.*\([/\].\)%\1%'; test $rm /sys/libs/${libname}_ixlibrary.a; $show "(cd /sys/libs && $LN_S $lib ${libname}_ixlibrary.a)"; (cd /sys/libs && $LN_S $lib ${libname}_ixlibrary.a) || exit 1; done"
  ;;
  freebsd2* | freebsd3*)
    version_type=sunos
    library_names_spec="${libname}${release}.so.$versuffix ${libname}.so"
    $finish_cmds="PATH=\"$PATH:/sbin\" ldconfig -m $libdir"
    shlibpath_var=LD_LIBRARY_PATH
  ;;
  gnu*)
    version_type=sunos
    library_names_spec="${libname}${release}.so.$versuffix"
    shlibpath_var=LD_LIBRARY_PATH
  ;;
  hpux9* | hpux10*)
    # Give a soname corresponding to the major version so that dld.sl refuses to
    # link against other versions.
    dynamic_linker="$host_os dld.sl"
    version_type=sunos
    shlibpath_var=SHLIB_PATH
    library_names_spec="${libname}${release}.sl.$versuffix ${libname}.sl"$versuffix $libname.sl"
    soname_spec="${libname}${release}.sl.${major}"
    # HP-UX runs *really* slowly unless shared libraries are mode 555.
    $postinstall_cmds="chmod 555 $lib"
  ;;
  irix5* | irix6*)
    version_type=osf
soname_spec='${libname}${release}.so'
library_names_spec='${libname}${release}.so.$versuffix $libname.so'
shlibpath_var=LD_LIBRARY_PATH
;;

# No shared lib support for Linux oldld, aout, or coff.
linux-gnuoldld* | linux-gnuaout* | linux-gnucoff*)
dynamic_linker=no
;;

# This must be Linux ELF.
linux-gnu*)
    version_type=linux
    library_names_spec='${libname}${release}.so.$versuffix
    soname_spec='${libname}${release}.so.$major $libname.so'
    finish_cmds='PATH="$PATH:/sbin" ldconfig -n $libdir'
    shlibpath_var=LD_LIBRARY_PATH
if test -f /lib/ld.so.1; then
dynamic_linker='GNU ld.so'
else
    # Only the GNU ld.so supports shared libraries on MkLinux.
    case "$host_cpu" in
    powerpc*) dynamic_linker=no ;;;
    *) dynamic_linker='Linux ld.so' ;;;
esac
fi
;;

netbsd* | openbsd*)
    version_type=sunos
    library_names_spec='${libname}${release}.so.$versuffix'
    finish_cmds='PATH="$PATH:/sbin" ldconfig -m $libdir'
    shlibpath_var=LD_LIBRARY_PATH
;;

os2*)
    libname_spec='$name'
    library_names_spec='$libname.dll $libname.a'
    dynamic_linker='OS/2 ld.exe'
    shlibpath_var=LIBPATH
;;

osf3* | osf4*)
    version_type=osf
    soname_spec='${libname}${release}.so'
    library_names_spec='${libname}${release}.so.$versuffix $libname.so'
    shlibpath_var=LD_LIBRARY_PATH
;;
sco3.2v5*)
version_type=osf
soname_spec='${libname}${release}.so.$major'
library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
shlibpath_var=LD_LIBRARY_PATH
;;
solaris2*)
version_type=linux
library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
soname_spec='${libname}${release}.so.$major'
shlibpath_var=LD_LIBRARY_PATH
;;
sunos4*)
version_type=sunos
library_names_spec='${libname}${release}.so.$versuffix'
finish_cmds='PATH="$PATH:/usr/etc" ldconfig $libdir'
shlibpath_var=LD_LIBRARY_PATH
;;
sysv4.2uw2*)
version_type=linux
library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
soname_spec='${libname}${release}.so.$major'
shlibpath_var=LD_LIBRARY_PATH
;;
uts4*)
version_type=linux
library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
soname_spec='${libname}${release}.so.$major'
shlibpath_var=LD_LIBRARY_PATH
;;
*)
dynamic_linker=no
;;
esac
echo "$ac_t$dynamic_linker"
test "$dynamic_linker" = no && can_build_shared=no
# Report the final consequences.
echo "checking if libtool supports shared libraries... $can_build_shared" 1>&6
echo $ac_n "checking whether to build shared libraries... $ac_c" 1>&6

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test "$can_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case "$host_os" in
  aix*)
    test "$enable_shared" = yes && enable_static=no
    if test -n "$RANLIB"; then
      archive_cmds="$archive_cmds\$RANLIB \$lib"
      postinstall_cmds="$RANLIB $lib"
    fi
  ;;
esac

echo "$ac_t$enable_shared" 1>&6

# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes

echo "checking whether to build static libraries... $enable_static" 1>&6

echo "$ac_a" "checking for objdir... $ac_c" 1>&6
rm -f .libs 2>/dev/null
mkdir .libs 2>/dev/null
if test -d .libs; then
  objdir=.libs
else
  # MS-DOS does not allow filenames that begin with a dot.
  objdir=_libs
fi
rmdir .libs 2>/dev/null

# Copy echo and quote the copy, instead of the original, because it is
# used later.
ltecho="$echo"

# Now quote all the things that may contain metacharacters.
for var in ltecho old_CC old_CFLAGS old_CPPFLAGS old_LD old_NM old_RANLIB \
  old_LN_S AR CC LD LN_S NM reload_flag reload_cmds wl pic_flag \ 
  link_static_flag no_builtin_flag export_dynamic_flag_spec \ 
  libname_spec library_names_spec soname_spec RANLIB \ 
  old_archive_cmds old_archive_from_new_cmds old_postinstall_cmds \ 
  old_postuninstall_cmds archive_cmds postinstall_cmds postuninstall_cmds \ 
  allow_undefined_flag no_undefined_flag \ 
  finish_cmds finish_eval global_symbol_pipe \ 
  hardcode_libdir_flag_spec hardcode_libdir_separator; do
case "$var" in
  reload_cmds | old_archive_cmds | old_archive_from_new_cmds | \
  old_postinstall_cmds | old_postuninstall_cmds | archive_cmds | \
  postinstall_cmds | postuninstall_cmds | finish_cmds)
    # Double-quote double-evaled strings.
    eval "$var=""\"X\"$$var"" | \$Xsed -e "\"$double_quote_subst\"" -e "\"$sed_quote_subst\"""
    ;;
  *)
    eval "$var=""\"X\"$$var"" | \$Xsed -e "\"$sed_quote_subst\"""
    ;;
esac
done

ofile=libtool
trap "$rm $ofile; exit 1" 1 2 15
echo creating $ofile
$rm $ofile
cat <<EOF > $ofile
#!/bin/sh

# libtool - Provide generalized library-building support services.
# Generated automatically by $PROGRAM - GNU $PACKAGE $VERSION
# NOTE: Changes made to this file will be lost: look at ltconfig or ltmain.sh.
#
# Copyright (C) 1996-1998 Free Software Foundation, Inc.
# Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
#
# 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.
#
# This program is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
# General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
#
# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.
#
# This program was configured as follows,
# on host '(hostname || uname -n) 2>/dev/null | sed 1q':


# CC="$old_CC" CFLAGS="$old_CFLAGS" CPPFLAGS="$old_CPPFLAGS" \ # LD="$old_LD" NM="$old_NM" RANLIB="$old_RANLIB" LN_S="$old_LN_S" \ # "$0$ltconfig_args

# Compiler and other test output produced by $progname, useful for # debugging $progname, is in ./config.log if it exists.

# Sed that helps us avoid accidentally triggering echo(1) options like -n.
Xsed="sed -e s/^X//"

# The HP-UX ksh and POSIX shell print the target directory to stdout # if CDPATH is set.
if test "$(CDPATH+set)" = set; then CDPATH=; export CDPATH; fi

# An echo program that does not interpret backslashes.
echo="$ltecho"

# The version of $progname that generated this script.
LTCONFIG_VERSION="$VERSION"

# Shell to use when invoking shell scripts.
SHELL=${CONFIG_SHELL:-/bin/sh}

# Whether or not to build libtool libraries.
build_libtool_libs=$enable_shared

# Whether or not to build old-style libraries.
build_old_libs=$enable_static

# The host system.
host_alias="$host_alias"
host="$host"

# The archiver.
AR="$AR"

# The default C compiler.
CC="$CC"

# The linker used to build libraries.
LD="$LD"

# Whether we need hard or soft links.
LN_S="$LN_S"

# A BSD-compatible nm program.
NM="$NM"
case "$host_os" in

EOF
aix3*)
cat <<\EOF >> $ofile
# AIX sometimes has problems with the GCC collect2 program. For some
# reason, if we set the COLLECT_NAMES environment variable, the problems
# vanish in a puff of smoke.
if test "${COLLECT_NAMES+set}" != set; then
    COLLECT_NAMES=
    export COLLECT_NAMES
fi
EOF
::
esac

# Append the ltmain.sh script.
cat "$ltmain" >> $ofile || (rm -f $ofile; exit 1)
chmod +x $ofile
exit 0

# Local Variables:
# mode:shell-script
# sh-indentation:2
# End:
Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

10.190 JSON 2.16
10.190.1 Available under license :

--- #YAML:1.0
name:          JSON
version:       2.16
abstract:      JSON (JavaScript Object Notation) encoder/decoder
author:
    - Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>
license:       perl
distribution_type: module
configure_requires:
    ExtUtils::MakeMaker: 0
requires:
    Test::More: 0
no_index:
directory:
    - t
    - inc
INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS

use JSON; # imports encode_json, decode_json, to_json and from_json.

$json_text = to_json($perl_scalar);
$perl_scalar = from_json($json_text);

# option-acceptable
$json_text = to_json($perl_scalar, {ascii => 1});
$perl_scalar = from_json($json_text, {utf8 => 1});

# OOP
$json = new JSON;

$json_text = $json->encode($perl_scalar);
$perl_scalar = $json->decode($json_text);

# pretty-printing
$json_text = $json->pretty->encode($perl_scalar);

# simple interface
$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

# If you want to use PP only support features, call with '-support_by_pp'
# When XS unsupported feature is enable, using PP de/encode.

use JSON -support_by_pp;

VERSION
This version is compatible with JSON::XS 2.26 and later.

DESCRIPTION

************************************************************************ CAUTION ************************************************************************
* This is 'JSON module version 2' and there are many differences *
* to version 1.xx                                           *
* Please check your applications using old version.        *
* See to 'INCOMPATIBLE CHANGES TO OLD VERSION'            *
*******************************************************************************************************************************************************

JSON (JavaScript Object Notation) is a simple data format. See to
<http://www.json.org/> and

This module converts Perl data structures to JSON and vice versa using
either JSON::XS or JSON::PP.

JSON::XS is the fastest and most proper JSON module on CPAN which must
be compiled and installed in your environment. JSON::PP is a pure-Perl
module which is bundled in this distribution and has a strong
compatibility to JSON::XS.

This module try to use JSON::XS by default and fail to it, use JSON::PP
instead. So its features completely depend on JSON::XS or JSON::PP.

See to "BACKEND MODULE DECISION".

To distinguish the module name 'JSON' and the format type JSON, the
former is quoted by C<> (its results vary with your using media), and
the latter is left just as it is.

Module name : "JSON"

Format type : JSON

FEATURES

* correct unicode handling
  This module (i.e. backend modules) knows how to handle Unicode,
documents how and when it does so, and even documents what "correct"
means.

Even though there are limitations, this feature is available since
Perl version 5.6.

JSON::XS requires Perl 5.8.2 (but works correctly in 5.8.8 or
later), so in older versions "JSON" should call JSON::PP as the
backend which can be used since Perl 5.005.

With Perl 5.8.x JSON::PP works, but from 5.8.0 to 5.8.2, because of a Perl side problem, JSON::PP works slower in the versions. And in 5.005, the Unicode handling is not available. See to "UNICODE HANDLING ON PERLS" in JSON::PP for more information.

See also to "A FEW NOTES ON UNICODE AND PERL" in JSON::XS and "ENCODING/CODESET_FLAG_NOTES" in JSON::XS.

* round-trip integrity
  When you serialise a perl data structure using only data types supported by JSON, the deserialised data structure is identical on the Perl level. (e.g. the string "2.0" doesn't suddenly become "2" just because it looks like a number). There minor *are* exceptions to this, read the MAPPING section below to learn about those.

* strict checking of JSON correctness
  There is no guessing, no generating of illegal JSON texts by default, and only JSON is accepted as input by default (the latter is a security feature).

See to "FEATURES" in JSON::XS and "FEATURES" in JSON::PP.

* fast
  This module returns a JSON::XS object itself if available. Compared to other JSON modules and other serialisers such as Storable, JSON::XS usually compares favourably in terms of speed, too.

If not available, "JSON" returns a JSON::PP object instead of JSON::XS and it is very slow as pure-Perl.

* simple to use
  This module has both a simple functional interface as well as an object oriented interface interface.

* reasonably versatile output formats
  You can choose between the most compact guaranteed-single-line format possible (nice for simple line-based protocols), a pure-ASCII format (for when your transport is not 8-bit clean, still supports the whole Unicode range), or a pretty-printed format (for when you want to read that stuff). Or you can combine those features in whatever way you like.

FUNCTIONAL INTERFACE
  Some documents are copied and modified from "FUNCTIONAL INTERFACE" in JSON::XS. "to_json" and "from_json" are additional functions.
to_json
$\text{to\_json} = \text{to\_json}(\text{perl\_scalar})

Converts the given Perl data structure to a json string.

This function call is functionally identical to:

$\text{to\_json} = \text{JSON\texttt{\_}new\texttt{\_}\texttt{-\_}encode}(\text{perl\_scalar})

Takes a hash reference as the second.

$\text{to\_json} = \text{to\_json}(\text{perl\_scalar}, \text{flag\_hashref})

So,

$\text{to\_json} = \text{encode\_json}(\text{perl\_scalar}, \{\text{utf8} => 1, \text{pretty} => 1\})$

equivalent to:

$\text{to\_json} = \text{JSON\texttt{\_}new\texttt{\_}\texttt{-}utf8\texttt{\(1\)}\texttt{\_}\texttt{-}pretty\texttt{\(1\)}\texttt{\_}encode}(\text{perl\_scalar})$

from_json
$\text{from\_json} = \text{from\_json}(\text{json\_text})$

The opposite of "to_json": expects a json string and tries to parse it, returning the resulting reference.

This function call is functionally identical to:

$\text{from\_json} = \text{JSON\texttt{\_}decode}(\text{json\_text})$

Takes a hash reference as the second.

$\text{from\_json} = \text{from\_json}(\text{json\_text}, \text{flag\_hashref})$

So,

$\text{from\_json} = \text{from\_json}(\text{json\_text}, \{\text{utf8} => 1\})$

equivalent to:

$\text{from\_json} = \text{JSON\texttt{\_}new\texttt{\_}\texttt{-}utf8\texttt{\(1\)}\texttt{\_}\texttt{-}decode}(\text{json\_text})$

encode_json
$\text{encode\_json} = \text{encode\_json}(\text{perl\_scalar})$

Converts the given Perl data structure to a UTF-8 encoded, binary string.
This function call is functionally identical to:

```perl
$json_text = JSON->new->utf8->encode($perl_scalar)
```

`decode_json`

```perl
$perl_scalar = decode_json $json_text
```

The opposite of "encode_json": expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference.

This function call is functionally identical to:

```perl
$perl_scalar = JSON->new->utf8->decode($json_text)
```

`JSON::is_bool`

```perl
akis_boolean = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like 1 and 0 respectively and are also used to represent JSON "true" and "false" in Perl strings.

`JSON::true`

Returns JSON true value which is blessed object. It "isa" JSON::Boolean object.

`JSON::false`

Returns JSON false value which is blessed object. It "isa" JSON::Boolean object.

`JSON::null`

Returns "undefined".

See MAPPING, below, for more information on how JSON values are mapped to Perl.

**COMMON OBJECT-ORIENTED INTERFACE**

`new`

```perl
$json = new JSON
```

Returns a new "JSON" object inherited from either JSON::XS or JSON::PP that can be used to de/encode JSON strings.

All boolean flags described below are by default *disabled*.

The mutators for flags all return the JSON object again and thus calls can be chained:
my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> { "a": [1, 2]}

ascii
$json = $json->ascii([$enable])
$enabled = $json->get_ascii

If $enable is true (or missing), then the encode method will not generate characters outside the code range 0..127. Any Unicode characters outside that range will be escaped using either a single \uXXXX or a double \uHHHH\uLLLLL escape sequence, as per RFC4627.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

This feature depends on the used Perl version and environment.

See to "UNICODE HANDLING ON PERLS" in JSON::PP if the backend is PP.

JSON->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\udc01"]

latin1
$json = $json->latin1([$enable])
$enabled = $json->get_latin1

If $enable is true (or missing), then the encode method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags.

JSON->new->latin1->encode (["\x{89}\x{abc}"]
=> ["\x{89}\u0abc"]  # (perl syntax, U+abc escaped, U+89 not)

utf8
$json = $json->utf8([$enable])
$enabled = $json->getUtf8

If $enable is true (or missing), then the encode method will encode the JSON result into UTF-8, as required by many protocols, while the decode method expects to be handled an UTF-8-encoded string. Please note that
UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bytewise/binary I/O.

In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If $enable is false, then the encode method will return the JSON string as a (non-encoded) Unicode string, while decode expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

Example, output UTF-16BE-encoded JSON:

use Encode;
$jsontext = encode "UTF-16BE", JSON::XS->new->encode ($object);

Example, decode UTF-32LE-encoded JSON:

use Encode;
$object = JSON::XS->new->decode (decode "UTF-32LE", $jsontext);

See to "UNICODE HANDLING ON PERLS" in JSON::PP if the backend is PP.

pretty

$jsontext = $json->pretty([$enable])

This enables (or disables) all of the "indent", "space_before" and "space_after" (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

Equivalent to:

$jsontext->indent->space_before->space_after

The indent space length is three and JSON::XS cannot change the indent space length.

indent

$jsontext = $json->indent([$enable])

$enabled = $json->get_indent

If $enable is true (or missing), then the "encode" method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If $enable is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any "newlines".
This setting has no effect when decoding JSON texts.

The indent space length is three. With JSON::PP, you can also access "indent_length" to change indent space length.

space_before
   $json = $json->space_before([$enable])

   $enabled = $json->get_space_before

If $enable is true (or missing), then the "encode" method will add an extra optional space before the ":" separating keys from values in JSON objects.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before enabled, space_after and indent disabled:

   {"key" :"value"}

space_after
   $json = $json->space_after([$enable])

   $enabled = $json->get_space_after

If $enable is true (or missing), then the "encode" method will add an extra optional space after the ":" separating keys from values in JSON objects and extra whitespace after the "," separating key-value pairs and array members.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

   {"key": "value"}

relaxed
   $json = $json->relaxed([$enable])

   $enabled = $json->get_relaxed
If $enable is true (or missing), then "decode" will accept some extensions to normal JSON syntax (see below). "encode" will not be affected in anyway. *Be aware that this option makes you accept invalid JSON texts as if they were valid!* I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If $enable is false (the default), then "decode" will only accept valid JSON texts.

Currently accepted extensions are:

* list items can have an end-comma

  JSON *separates* array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

  
  ```json
  [  
    1,  
    2, <- this comma not normally allowed  
  ]
  ```

* shell-style '#'-comments

  Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

  ```json
  [  
    1, # this comment not allowed in JSON  
    # neither this one...  
  ]
  ```

canonical

```php
$json = $json->canonical([$enable])
```

```php
$enabled = $json->get_canonical
```

If $enable is true (or missing), then the "encode" method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If $enable is false, then the "encode" method will output key-value
pairs in the order Perl stores them (which will likely change between
runs of the same script).

This option is useful if you want the same data structure to be encoded
as the same JSON text (given the same overall settings). If it is
disabled, the same hash might be encoded differently even if contains
the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

allow_nonref
$-json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

If $enable is true (or missing), then the "encode" method can convert a
non-reference into its corresponding string, number or null JSON value,
which is an extension to RFC4627. Likewise, "decode" will accept those
JSON values instead of croaking.

If $enable is false, then the "encode" method will croak if it isn't
passed an arrayref or hashref, as JSON texts must either be an object or
array. Likewise, "decode" will croak if given something that is not a
JSON object or array.

    JSON->new->allow_nonref->encode ("Hello, World!")
=> "Hello, World!"

allow_unknown
$-json = $json->allow_unknown([$enable])

$enabled = $json->get_allow_unknown

If $enable is true (or missing), then "encode" will *not* throw an
exception when it encounters values it cannot represent in JSON (for
example, filehandles) but instead will encode a JSON "null" value. Note
that blessed objects are not included here and are handled separately by
allow_nonref.

If $enable is false (the default), then "encode" will throw an exception
when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended
to leave it off unless you know your communications partner.

allow_blessed
$-json = $json->allow_blessed([$enable])
$enabled = $json->get_allow_blessed

If $enable is true (or missing), then the "encode" method will not barf when it encounters a blessed reference. Instead, the value of the convert_blessed option will decide whether "null" ("convert_blessed" disabled or no "TO_JSON" method found) or a representation of the object ("convert_blessed" enabled and "TO_JSON" method found) is being encoded. Has no effect on "decode".

If $enable is false (the default), then "encode" will throw an exception when it encounters a blessed object.

convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

If $enable is true (or missing), then "encode", upon encountering a blessed object, will check for the availability of the "TO_JSON" method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object. If no "TO_JSON" method is found, the value of "allow_blessed" will decide what to do.

The "TO_JSON" method may safely call die if it wants. If "TO_JSON" returns other blessed objects, those will be handled in the same way. "TO_JSON" must take care of not causing an endless recursion cycle (== crash) in this case. The name of "TO_JSON" was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with the "to_json" function or method.

This setting does not yet influence "decode" in any way.

If $enable is false, then the "allow_blessed" setting will decide what to do when a blessed object is found.

convert_blessed_universally mode

If use "JSON" with "-convert_blessed_universally", the "UNIVERSAL::TO_JSON" subroutine is defined as the below code:

*UNIVERSAL::TO_JSON = sub {
    my $b_obj = B::svref_2object( $_[0] );
    return $b_obj->isa('B::HV') ? { %{ $_[0] } } :
        $b_obj->isa('B::AV') ? [ @{ $_[0] } ] :
            undef ;
}
This will cause that "encode" method converts simple blessed objects into JSON objects as non-blessed object.

JSON -convert_blessed_universally;
$json->allow_blessed->convert_blessed->encode( $blessed_object )

This feature is experimental and may be removed in the future.

filter_json_object
$json = $json->filter_json_object( [ $coderef ] )

When $coderef is specified, it will be called from "decode" each time it decodes a JSON object. The only argument passed to the coderef is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: *not* "undef", which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When $coderef is omitted or undefined, any existing callback will be removed and "decode" will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

my $js = JSON->new->filter_json_object ( sub { 5 } );
# returns [5]
$js->decode ( '[{}]' ); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ( '{"a":1, "b":2}' );

filter_json_single_key_object
$json = $json->filter_json_single_key_object($key => $coderef)

Works remotely similar to "filter_json_object", but is only called for JSON objects having a single key named $key.

This $coderef is called before the one specified via
"filter_json_object", if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even "undef" but the empty list), the callback from "filter_json_object" will be called next, as if no single-key callback were specified.

If $coderef is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.
As this callback gets called less often than the "filter_json_object" one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "__class_whatever__", or "$__dollars_are_rarely_used__$" or "ugly_brace_placement", or even things like "__class_md5sum(classname)__", to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form "{ "__widget__" => <id> }" into the corresponding $WIDGET{<id>} object:

```perl
# return whatever is in $WIDGET{5}:
JSON
->new
->filter_json_single_key_object (__widget__ => sub {
  $WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5}
```

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
  my ($self) = @_;
  unless ($self->{id}) {
    $self->{id} = ..get..some..id..;
    $WIDGET{$self->{id}} = $self;
  }
  { __widget__ => $self->{id} }
}

shrink
$json = $json->shrink([$enable])

$enabled = $json->get_shrink

With JSON::XS, this flag resizes strings generated by either "encode" or "decode" to their minimum size possible. This can save memory when your JSON texts are extremely long or you have many short strings. It will also try to downgrade any strings to octet-form if possible: perl stores strings internally either in an encoding called UTF-X or in
octet-form. The latter cannot store everything but uses less space in general (and some buggy Perl or C code might even rely on that internal representation being used).

With JSON::PP, it is noop about resizing strings but tries "utf8::downgrade" to the returned string by "encode". See to utf8.

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS and "METHODS" in JSON::PP.

max_depth
$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default 512) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of "[" or "]" characters without their matching closing parenthesis crossed to reach a given character in a string.

If no argument is given, the highest possible setting will be used, which is rarely useful.

Note that nesting is implemented by recursion in C. The default value has been chosen to be as large as typical operating systems allow without crashing. (JSON::XS)

With JSON::PP as the backend, when a large value (100 or more) was set and it de/encodes a deep nested object/text, it may raise a warning 'Deep recursion on subroutin' at the perl runtime phase.

See "SECURITY CONSIDERATIONS" in JSON::XS for more info on why this is useful.

max_size
$json = $json->max_size([$maximum_string_size])

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is 0, meaning no limit. When "decode" is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no
effect on "encode" (yet).

If no argument is given, the limit check will be deactivated (same as when 0 is specified).

See "SECURITY CONSIDERATIONS" in JSON::XS, below, for more info on why this is useful.

**encode**

```perl
$json_text = $json->encode($perl_scalar)
```

Converts the given Perl data structure (a simple scalar or a reference to a hash or array) to its JSON representation. Simple scalars will be converted into JSON string or number sequences, while references to arrays become JSON arrays and references to hashes become JSON objects. Undefined Perl values (e.g. "undef") become JSON "null" values. References to the integers 0 and 1 are converted into "true" and "false".

**decode**

```perl
$perl_scalar = $json->decode($json_text)
```

The opposite of "encode": expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

JSON numbers and strings become simple Perl scalars. JSON arrays become Perl arrayrefs and JSON objects become Perl hashrefs. "true" becomes 1 ("JSON::true"), "false" becomes 0 ("JSON::false") and "null" becomes "undef".

**decode_prefix**

```perl
($perl_scalar, $characters) = $json->decode_prefix($json_text)
```

This works like the "decode" method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

```perl
JSON->new->decode_prefix ("[1] the tail")
=> ([], 3)
```

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS

**property**

```perl
$boolean = $json->property($property_name)
```

Returns a boolean value about above some properties.
The available properties are "ascii", "latin1", "utf8", "indent", "space_before", "space_after", "relaxed", "canonical", "allow_nonref", "allow_unknown", "allow_blessed", "convert_blessed", "shrink", "max_depth" and "max_size".

```perl
$boolean = $json->property('utf8');
=> 0
$json->utf8;
$boolean = $json->property('utf8');
=> 1
```

Sets the property with a given boolean value.

```perl
$json = $json->property($property_name => $boolean);
```

With no argument, it returns all the above properties as a hash reference.

```perl
$flag_hashref = $json->property();
```

**INCREMENTAL PARSING**

In JSON::XS 2.2, incremental parsing feature of JSON texts was implemented. Please check to "INCREMENTAL PARSING" in JSON::XS.

```perl
[void, scalar or list context] = $json->incr_parse ($string)
```

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If `$string` is given, then this string is appended to the already existing JSON fragment stored in the `$json` object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly *one* JSON object. If that is successful, it will return this object, otherwise it will return "undef". If there is a parse error, this method will croak just as "decode" would do (one can then use "incr_skip" to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in
the scalar context case. Note that in this case, any
previously-parsed JSON texts will be lost.

$lvalue_string = $json->incr_text
This method returns the currently stored JSON fragment as an lvalue,
that is, you can manipulate it. This *only* works when a preceding
call to "incr_parse" in *scalar context* successfully returned an
object. Under all other circumstances you must not call this
function (I mean it. although in simple tests it might actually
work, it *will* fail under real world conditions). As a special
exception, you can also call this method before having parsed
anything.

This function is useful in two cases: a) finding the trailing text
after a JSON object or b) parsing multiple JSON objects separated by
non-JSON text (such as commas).

In Perl 5.005, "lvalue" attribute is not available. You must write
codes like the below:

$string = $json->incr_text;
$string =~ s/\s*,\s*//;
$json->incr_text( $string );

$json->incr_skip
This will reset the state of the incremental parser and will remove
the parsed text from the input buffer. This is useful after
"incr_parse" died, in which case the input buffer and incremental
parser state is left unchanged, to skip the text parsed so far and
to reset the parse state.

$json->incr_reset
This completely resets the incremental parser, that is, after this
call, it will be as if the parser had never parsed anything.

This is useful if you want ot repeatedly parse JSON objects and want
to ignore any trailing data, which means you have to reset the
parser after each successful decode.

JSON::PP SUPPORT METHODS
The below methods are JSON::PP own methods, so when "JSON" works with
JSON::PP (i.e. the created object is a JSON::PP object), available. See
to "JSON::PP OWN METHODS" in JSON::PP in detail.

If you use "JSON" with additonal ":support_by_pp", some methods are
available even with JSON::XS. See to "USE PP FEATURES EVEN THOUGH XS
BACKEND".
use JSON -support_by_pp;

my $json = new JSON;
$json->allow_nonref->escape_slash->encode("/");

# functional interfaces too.
print to_json(["/"], {escape_slash => 1});
print from_json(['foo'], {utf8 => 1});

If you do not want to all functions but "-support_by_pp", use 
"-no_export".

use JSON -support_by_pp, -no_export;
# functional interfaces are not exported.

allow_singlequote
    $json = $json->allow_singlequote([$enable])

If $enable is true (or missing), then "decode" will accept any JSON
strings quoted by single quotations that are invalid JSON format.

    $json->allow_singlequote->decode({'foo': 'bar'});
    $json->allow_singlequote->decode({'foo': "bar"});
    $json->allow_singlequote->decode({'foo': 'bar'});

As same as the "relaxed" option, this option may be used to parse
application-specific files written by humans.

allow_barekey
    $json = $json->allow_barekey([$enable])

If $enable is true (or missing), then "decode" will accept bare keys of
JSON object that are invalid JSON format.

As same as the "relaxed" option, this option may be used to parse
application-specific files written by humans.

    $json->allow_barekey->decode({'foo': 'bar'});

allow_bignum
    $json = $json->allow_bignum([$enable])

If $enable is true (or missing), then "decode" will convert the big
integer Perl cannot handle as integer into a Math::BigInt object and
convert a floating number (any) into a Math::BigFloat.
On the contrary, "encode" converts "Math::BigInt" objects and "Math::BigFloat" objects into JSON numbers with "allow_blessed" enable.

\$json->allow_nonref->allow_blessed->allow_bignum;
\$bigfloat = \$json->decode('2.000000000000000000000000001');
print \$json->encode(\$bigfloat);
# => 2.000000000000000000000000001

See to MAPPING about the conversion of JSON number.

loose
\$json = \$json->loose([\$enable])

The unescaped [\x00-\x1f\x22\x2f\x5c] strings are invalid in JSON strings and the module doesn't allow to "decode" to these (except for \x2f). If \$enable is true (or missing), then "decode" will accept these unescaped strings.

\$json->loose->decode(qq|["abc
def"]|);

See to "JSON::PP OWN METHODS" in JSON::PP.

escape_slash
\$json = \$json->escape_slash([\$enable])

According to JSON Grammar, *slash* (U+002F) is escaped. But by default JSON backend modules encode strings without escaping slash.

If \$enable is true (or missing), then "encode" will escape slashes.

indent_length
\$json = \$json->indent_length($length)

With JSON::XS, The indent space length is 3 and cannot be changed. With JSON::PP, it sets the indent space length with the given $length. The default is 3. The acceptable range is 0 to 15.

sort_by
\$json = \$json->sort_by($function_name)
\$json = \$json->sort_by($subroutine_ref)

If $function_name or $subroutine_ref are set, its sort routine are used.

\$js = \$pc->sort_by(sub { \$JSON::PP::a cmp \$JSON::PP::b })->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);

\$js = \$pc->sort_by('own_sort')->encode($obj);
As the sorting routine runs in the JSON::PP scope, the given subroutine name and the special variables $a, $b will begin with 'JSON::PP::'.

If $integer is set, then the effect is same as "canonical" on.

See to "JSON::PP OWN METHODS" in JSON::PP.

MAPPING
This section is copied from JSON::XS and modified to "JSON". JSON::XS and JSON::PP mapping mechanisms are almost equivalent.

See to "MAPPING" in JSON::XS.

JSON -> PERL

object
A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

array
A JSON array becomes a reference to an array in Perl.

string
A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

number
A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, "JSON" will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss.
of precision (in which case you might lose perfect roundtrippping ability, but the JSON number will still be re-encoded as a JSON number).

If the backend is JSON::PP and "allow_bignum" is enable, the big integers and the numeric can be optionally converted into Math::BigInt and Math::BigFloat objects.

true, false
These JSON atoms become "JSON::true" and "JSON::false", respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check wether a scalar is a JSON boolean by using the "JSON::is_bool" function.

If "JSON::true" and "JSON::false" are used as strings or compared as strings, they represent as "true" and "false" respectively.

    print JSON::true . "\n";
    => true
    print JSON::true + 1;
    => 1

    ok(JSON::true eq 'true');
    ok(JSON::true eq '1');
    ok(JSON::true == '1');

"JSON" will install these missing overloading features to the backend modules.

null
A JSON null atom becomes "undef" in Perl.

"JSON::null" returns "undef".

PERL -> JSON
The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

hash references
Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order that can change between runs of the same program but stays generally the same within a single run of a program. "JSON" optionally sort the hash keys (determined by the *canonical* flag), so the same datastructure will serialise to the same JSON text (given same settings and version of JSON::XS), but this incurs a runtime overhead and is only rarely useful, e.g. when
you want to compare some JSON text against another for equality.

In future, the ordered object feature will be added to JSON::PP using "tie" mechanism.

array references
Perl array references become JSON arrays.

other references
Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers 0 and 1, which get turned into "false" and "true" atoms in JSON. You can also use "JSON::false" and "JSON::true" to improve readability.

to_json [0,JSON::true] # yields [false,true]

JSON::true, JSON::false, JSON::null
These special values become JSON true and JSON false values, respectively. You can also use "\1" and "\0" directly if you want.

JSON::null returns "undef".

blessed objects
Blessed objects are not directly representable in JSON. See the "allow_blessed" and "convert_blessed" methods on various options on how to deal with this: basically, you can choose between throwing an exception, encoding the reference as if it weren't blessed, or provide your own serialiser method.

With "convert_blessed_universally" mode, "encode" converts blessed hash references or blessed array references (contains other blessed references) into JSON members and arrays.

use JSON -convert_blessed_universally;
JSON->new->allow_blessed->convert_blessed->encode( $blessed_object );

See to convert_blessed.

simple scalars
Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::XS and JSON::PP will encode undefined scalars as JSON "null" values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

# dump as number
encode_json [-3.0e17] # yields [-3e+17]
my $value = 5; encode_json [$value] # yields [5]

# used as string, so dump as string
print $value;
encode_json [$value] # yields ["5"]

# undef becomes null
encode_json [undef] # yields [null]

You can force the type to be a string by stringifying it:

my $x = 3.1; # some variable containing a number
"$x"; # stringified
$x .= ""; # another, more awkward way to stringify
print $x; # perl does it for you, too, quite often

You can force the type to be a number by numifying it:

my $x = "3"; # some variable containing a string
$x += 0; # numify it, ensuring it will be dumped as a number
$x *= 1; # same thing, the choise is yours.

You can not currently force the type in other, less obscure, ways.

Big Number
If the backend is JSON::PP and "allow_bignum" is enable, "encode" converts "Math::BigInt" objects and "Math::BigFloat" objects into JSON numbers.

JSON and ECMAscript
See to "JSON and ECMAscript" in JSON::XS.

JSON and YAML
JSON is not a subset of YAML. See to "JSON and YAML" in JSON::XS.

BACKEND MODULE DECISION
When you use "JSON", "JSON" tries to "use" JSON::XS. If this call failed, it will "uses" JSON::PP. The required JSON::XS version is *2.2* or later.

The "JSON" constructor method returns an object inherited from the backend module, and JSON::XS object is a blessed scaler reference while JSON::PP is a blessed hash reference.

So, your program should not depend on the backend module, especially returned objects should not be modified.

my $json = JSON->new; # XS or PP?
$json->{stash} = 'this is xs object';  # this code may raise an error!

To check the backend module, there are some methods - "backend", "is_pp" and "is_xs".

JSON->backend;  # 'JSON::XS' or 'JSON::PP'

JSON->backend->is_pp:  # 0 or 1

JSON->backend->is_xs:  # 1 or 0

$json->is_xs;  # 1 or 0

$json->is_pp;  # 0 or 1

If you set an environment variable "PERL_JSON_BACKEND", the calling action will be changed.

PERL_JSON_BACKEND = 0 or PERL_JSON_BACKEND = 'JSON::PP'
    Always use JSON::PP

PERL_JSON_BACKEND == 1 or PERL_JSON_BACKEND = 'JSON::XS,JSON::PP'
    (The default) Use compiled JSON::XS if it is properly compiled & installed, otherwise use JSON::PP.

PERL_JSON_BACKEND == 2 or PERL_JSON_BACKEND = 'JSON::XS'
    Always use compiled JSON::XS, die if it isn't properly compiled & installed.

These ideas come from DBI::PurePerl mechanism.

example:

BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::PP' }
use JSON;  # always uses JSON::PP

In future, it may be able to specify another module.

USE PP FEATURES EVEN THOUGH XS BACKEND
Many methods are available with either JSON::XS or JSON::PP and when the backend module is JSON::XS, if any JSON::PP specific (i.e. JSON::XS unsupported) method is called, it will "warn" and be noop.

But if you "use" "JSON" passing the optional string "-support_by_pp", it makes a part of those unsupported methods available. This feature is achieved by using JSON::PP in "de/encode".

BEGIN { $ENV{PERL_JSON_BACKEND} = 2 }  # with JSON::XS
use JSON -support_by_pp;
my $json = new JSON;
$json->allow_nonref->escape_slash->encode("/");

At this time, the returned object is a "JSON::Backend::XS::Supportable"
object (re-blessed XS object), and by checking JSON::XS unsupported
flags in de/encoding, can support some unsupported methods - "loose",
"allow_bignum", "allow_barekey", "allow_singlequote", "escape_slash",
"as_nonblessed" and "indent_length".

When any unsupported methods are not enable, "XS de/encode" will be used
as is. The switch is achieved by changing the symbolic tables.

"-support_by_pp" is effective only when the backend module is JSON::XS
and it makes the de/encoding speed down a bit.

See to "JSON::PP SUPPORT METHODS".

INCOMPATIBLE CHANGES TO OLD VERSION
There are big incompatibility between new version (2.00) and old (1.xx).
If you use old "JSON" 1.xx in your code, please check it.

See to "Transition ways from 1.xx to 2.xx."

jsonToObj and objToJson are obsoleted.
Non Perl-style name "jsonToObj" and "objToJson" are obsoleted (but
not yet deleted from the source). If you use these functions in your
code, please replace them with "from_json" and "to_json".

Global variables are no longer available.
"JSON" class variables - $JSON::AUTOCONVERT, $JSON::BareKey, etc...
- are not available any longer. Instead, various features can be
used through object methods.

Package JSON::Converter and JSON::Parser are deleted.
Now "JSON" bundles with JSON::PP which can handle JSON more properly
than them.

Package JSON::NotString is deleted.
There was "JSON::NotString" class which represents JSON value
"true", "false", "null" and numbers. It was deleted and replaced by
"JSON::Boolean".

"JSON::Boolean" represents "true" and "false".

"JSON::Boolean" does not represent "null".

"JSON::null" returns "undef".
"JSON" makes JSON::XS::Boolean and JSON::PP::Boolean is-a relation to JSON::Boolean.

function JSON::Number is obsoleted.
"JSON::Number" is now needless because JSON::XS and JSON::PP have round-trip integrity.

JSONRPC modules are deleted.
Perl implementation of JSON-RPC protocol - "JSONRPC ", "JSONRPC::Transport::HTTP" and "Apache::JSONRPC " are deleted in this distribution. Instead of them, there is JSON::RPC which supports JSON-RPC protocol version 1.1.

Transition ways from 1.xx to 2.xx.
You should set "suport_by_pp" mode firstly, because it is always successful for the below codes even with JSON::XS.

use JSON -support_by_pp;

Exported jsonToObj (simple)
from_json($json_text);

Exported jsonObj (simple)
to_json($perl_scalar);

Exported jsonToObj (advanced)
$flags = {allow_barekey => 1, allow_singlequote => 1};
from_json($json_text, $flags);

equivalent to:

$JSON::BareKey = 1;
$JSON::QuotApos = 1;
jsonToObj($json_text);

Exported jsonObj (advanced)
$flags = {allow_blessed => 1, allow_barekey => 1};
to_json($perl_scalar, $flags);

equivalent to:

$JSON::BareKey = 1;
objToJson($perl_scalar);

jsonToObj as object method
$json->decode($json_text);
objcToJson as object method

$json->encode($perl_scalar);

new method with parameters

The "new" method in 2.x takes any parameters no longer. You can set parameters instead;

$json = JSON->new->pretty;

$JSON::Pretty, $JSON::Indent, $JSON::Delimiter

If "indent" is enable, that menas $JSON::Pretty flag set. And $JSON::Delimiter was substituted by "space_before" and "space_after". In conclusion:

$json->indent->space_before->space_after;

Equivalent to:

$json->pretty;

To change indent length, use "indent_length".

(Only with JSON::PP, if "-support_by_pp" is not used.)

$json->pretty->indent_length(2)->encode($perl_scalar);

$JSON::BareKey

(Only with JSON::PP, if "-support_by_pp" is not used.)

$json->allow_barekey->decode($json_text)

$JSON::ConvBlessed

use "-convert_blessed_universally". See to convert_blessed.

$JSON::QuotApos

(Only with JSON::PP, if "-support_by_pp" is not used.)

$json->allow_singlequote->decode($json_text)

$JSON::SingleQuote

Disable. "JSON" does not make such a invalid JSON string any longer.

$JSON::KeySort

$json->canonical->encode($perl_scalar)

This is the ascii sort.

If you want to use with your own sort routine, check the "sort_by"
method.

(Only with JSON::PP, even if "-support_by_pp" is used currently.)

$json->sort_by($sort_routine_ref)->encode($perl_scalar)

$json->sort_by(sub { $JSON::PP::a <=> $JSON::PP::b })->encode($perl_scalar)

Can't access $a and $b but $JSON::PP::a and $JSON::PP::b.

$JSON::SkipInvalid
$json->allow_unknown

$JSON::AUTOCONVERT
Needless. "JSON" backend modules have the round-trip integrity.

$JSON::UTF8
Needless because "JSON" (JSON::XS/JSON::PP) sets the UTF8 flag on properly.

# With UTF8-flagged strings

$json->allow_nonref;
$str = chr(1000); # UTF8-flagged

$json_text = $json->utf8(0)->encode($str);
utf8::is_utf8($json_text);
# true
$json_text = $json->utf8(1)->encode($str);
utf8::is_utf8($json_text);
# false

$str = "" . chr(1000) . ""; # UTF8-flagged

$perl_scalar = $json->utf8(0)->decode($str);
utf8::is_utf8($perl_scalar);
# true
$perl_scalar = $json->utf8(1)->decode($str);
# died because of 'Wide character in subroutine'

See to "A FEW NOTES ON UNICODE AND PERL" in JSON::XS.

$JSON::UnMapping
Disable. See to MAPPING.

$JSON::SelfConvert
This option was deleted. Instead of it, if a givien blessed object has the "TO_JSON" method, "TO_JSON" will be executed with
"convert_blessed".

$json->convert_blessed->encode($blesed_hashref_or_arrayref)
# if need, call allow_blessed

Note that it was "toJson" in old version, but now not "toJson" but "TO_JSON".

TODO

example programs

THREADS

No test with JSON::PP. If with JSON::XS, See to "THREADS" in JSON::XS.

BUGS

Please report bugs relevant to "JSON" to <makamaka[at]cpan.org>.

SEE ALSO

Most of the document is copied and modified from JSON::XS doc.

JSON::XS, JSON::PP

"RFC4627"(<http://www.ietf.org/rfc/rfc4627.txt>)

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The relese of this new version owes to the courtesy of Marc Lehmann.

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That's all there is to it!

10.191 JSON-XS 2.26
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  lib/gss_mechs/mech_krb5/et/kdb5_err.c
  lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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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
and the initial implementation of incremental propagation, including the following new or changed files:

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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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.)

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

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Nahanni/ivshmem guest-code

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10.201 libaio 0.3.110-1

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

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

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

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

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

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

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

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10.202 libarchive 3.1.2

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10.203 libart_lgpl 2.3.20
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Version 2, June 1991

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

Preamble

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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 a program 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.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
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Note that it is possible for a library to be covered by the ordinary
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addressed as "you".

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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

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

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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However, linking a "work that uses the Library" with the Library
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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
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 *
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10.205 libevent 1.4.13-stable

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10.206 libiconv 1.14

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GNU LIBICONV - character set conversion library

This library provides an iconv() implementation, for use on systems which don't have one, or whose implementation cannot convert from/to Unicode.

It provides support for the encodings:

European languages
- ASCII, ISO-8859-{1,2,3,4,5,7,9,10,13,14,15,16},
- KOI8-R, KOI8-U, KOI8-RU,
- CP{1250,1251,1252,1253,1254,1257}, CP{850,866,1131},
- Mac{Roman,CentralEurope,Iceland,Croatian,Romania},
- Mac{Cyrillic,Ukraine,Greek,Turkish},
- Macintosh

Semitic languages
- ISO-8859-{6,8}, CP{1255,1256}, CP862, Mac{Hebrew,Arabic}

Japanese

Chinese
- EUC-CN, HZ, GBK, CP936, GB18030, EUC-TW, BIG5, CP950, BIG5-HKSCS,
- ISO-2022-CN-EXT

Korean

Armenian
- ARMSCII-8

Georgian
- Georgian-Academy, Georgian-PS

Tajik
- KOI8-T

Kazakh
- PT154, RK1048

Thai
- ISO-8859-11, TIS-620, CP874, MacThai

Laotian
- MuleLao-1, CP1133

Vietnamese
- VISCII, TCVN, CP1258

Platform specifics
- HP-ROMAN8, NEXTSTEP

Full Unicode
- UTF-8
- UCS-2, UCS-2BE, UCS-2LE
- UCS-4, UCS-4BE, UCS-4LE
UTF-16, UTF-16BE, UTF-16LE
UTF-32, UTF-32BE, UTF-32LE
UTF-7
C99, JAVA

Full Unicode, in terms of 'uint16_t' or 'uint32_t'
(with machine dependent endianness and alignment)
UCS-2-INTERNAL, UCS-4-INTERNAL

Locale dependent, in terms of 'char' or 'wchar_t'
(with machine dependent endianness and alignment, and with OS and locale dependent semantics)
char, wchar_t
The empty encoding name "" is equivalent to "char": it denotes the locale dependent character encoding.

When configured with the option --enable-extra-encodings, it also provides support for a few extra encodings:

European languages
  CP{437,737,775,852,853,855,857,858,860,861,863,865,869,1125}
Semitic languages
  CP864
Japanese
Chinese
  BIG5-2003 (experimental)
Turkmen
  TDS565
Platform specifics
  ATARIST, RISCOS-LATIN1

It can convert from any of these encodings to any other, through Unicode conversion.

It has also some limited support for transliteration, i.e. when a character cannot be represented in the target character set, it can be approximated through one or several similarly looking characters. Transliteration is activated when "//TRANSLIT" is appended to the target encoding name.

libiconv is for you if your application needs to support multiple character encodings, but that support lacks from your system.

Installation
------------

As usual for GNU packages:

$ ./configure --prefix=/usr/local
After installing GNU libiconv for the first time, it is recommended to recompile and reinstall GNU gettext, so that it can take advantage of libiconv.

On systems other than GNU/Linux, the iconv program will be internationalized only if GNU gettext has been built and installed before GNU libiconv. This means that the first time GNU libiconv is installed, we have a circular dependency between the GNU libiconv and GNU gettext packages, which can be resolved by building and installing either
- first libiconv, then gettext, then libiconv again,
- first gettext, then libiconv, then gettext again.

Recall that before building a package for the second time, you need to erase the traces of the first build by running "make distclean".

This library can be built and installed in two variants:

- The library mode. This works on all systems, and uses a library 'libiconv.so' and a header file `<iconv.h>' (Both are installed through "make install").

  To use it, simply #include `<iconv.h>' and use the functions.

  To use it in an autoconfiguring package:
  - If you don't use automake, append m4/iconv.m4 to your aclocal.m4 file.
  - If you do use automake, add m4/iconv.m4 to your m4 macro repository.
  - Add to the link command line of libraries and executables that use the functions the placeholder @LIBICONV@ (or, if using libtool for the link, @LTLIBICONV@). If you use automake, the right place for these additions are the *_LDADD variables.

  Note that 'iconv.m4' is also part of the GNU gettext package, which installs it in /usr/local/share/aclocal/iconv.m4.

- The libc plug/override mode. This works on GNU/Linux, Solaris and OSF/1 systems only. It is a way to get good iconv support without having glibc-2.1.

  It installs a library 'preloadable_libiconv.so'. This library can be used with LD_PRELOAD, to override the iconv* functions present in the C library.

  On GNU/Linux and Solaris:
  $ export LD_PRELOAD=/usr/local/lib/preloadable_libiconv.so

  On OSF/1:
  $ export _RLD_LIST=/usr/local/lib/preloadable_libiconv.so:DEFAULT
A program's source need not be modified, the program need not even be recompiled. Just set the LD_PRELOAD environment variable, that's it!

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Download
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Homepage
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http://www.gnu.org/software/libiconv/

Bug reports to
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<bug-gnu-libiconv@gnu.org>

Bruno Haible <bruno@clisp.org>

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December 17, 2015
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10.213 libusb 1.017

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10.215 libwww-perl 5.834
10.215.1 Available under license:

LIBWWW-Perl-5
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The libwww-perl collection is a set of Perl modules which provides a simple and consistent application programming interface to the World-Wide Web. The main focus of the library is to provide classes and functions that allow you to write WWW clients. The library also contain modules that are of more general use and even classes that help you implement simple HTTP servers.

PREREQUISITES

In order to install and use this package you will need Perl version 5.6 or better. Some modules within this package depend on other packages that are distributed separately from Perl. We recommend that you have the following packages installed before you install libwww-perl:

URI
MIME-Base64
HTML-Tagset
HTML-Parser
libnet
Digest-MD5
Compress-Zlib

If you want to access sites using the https protocol, then you need to
install the Crypt::SSLeay or the IO::Socket::SSL module. The README.SSL file will tell you more about how libwww-perl supports SSL.

INSTALLATION

You install libwww-perl using the normal perl module distribution drill:

    perl Makefile.PL
    make
    make test
    make install

If you don't want to install any programs (only the library files) then pass the '--no-programs' option to Makefile.PL:

    perl Makefile.PL --no-programs

DOCUMENTATION

See the lib/LWP.pm file for an overview of the library. See the Changes file for recent changes.

POD style documentation is included in all modules and scripts. These are normally converted to manual pages and installed as part of the "make install" process. You should also be able to use the 'perldoc' utility to extract and read documentation from the module files directly.

SUPPORT

Bug reports and suggestions for improvements can be sent to the <libwww@perl.org> mailing list. This mailing list is also the place for general discussions and development of the libwww-perl package.

AVAILABILITY

The latest version of libwww-perl is available from CPAN:

    http://search.cpan.org/dist/libwww-perl/

If you want to hack on the source it might be a good idea to grab the latest version with git using the command:

    git clone git://gitorious.org/libwww-perl/mainline.git lwp
You can also browse the git repository at:

http://gitorious.org/projects/libwww-perl

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

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M. Welsh, 6 July 1996

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for the initial saa7146 driver and its recent overhaul

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

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Version 1.0

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

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M. Welsh, 6 July 1996

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

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

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

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

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

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

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

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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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the "copyright" line and a pointer to where the full notice is found.

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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
*interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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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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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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for the driver for the Technisat SkyStar2 PCI DVB card

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for adding support for Typhoon DVB-S budget card

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for tuning/DiSEqC support for the DEC 3000-s

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for the lgdt330x frontend driver, and various bugfixes

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for maintaining v4l/dvb inter-tree dependencies

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for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com> for the or51211 and or51132 frontend drivers, and for merging the nxt2002 and nxt2004 modules into a single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

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

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG_PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
   * see init_nicstar() for PHY initialization to change this. This driver
   * expects the Linux ATM stack to support scatter-gather lists
   * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
   *
   * Implementing minimal-copy of received data:
   * IDT always receives data into a small buffer, then large buffers
   * as needed. This means that data must always be copied to create
   * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
   * Fix is simple: make large buffers large enough to hold entire
   * SDU, and leave <small_buffer_data> bytes empty at the start. Then
   * copy small buffer contents to head of large buffer.
   * Trick is to avoid fragmenting Linux, due to need for a lot of large
   * buffers. This is done by 2 things:
   * 1) skb->destructor / skb->atm.recycle_buffer
   * combined, allow nicstar_free_rx_skb to be called to
   * recycle large data buffers
   * 2) skb_clone of received buffers
   * See nicstar_free_rx_skb and linearize_buffer for implementation
   * details.
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* M. Welsh, 6 July 1996

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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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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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user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

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for the tda1004x frontend driver, and various bugfixes

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for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
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Hans-Frieder Vogt <hfvogt@arcor.de>
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TechnoTrend/Hauppauge DEC driver firmware

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for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
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Peter Beutner <p.beutner@gmx.net>
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Wilson Michaels <wilsonmichaels@earthlink.net>
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Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
details.
*
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
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* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* Modified to work with the IDT7721 NICStar -- AAL5 (tested) only.
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* Linux driver for the IDT77201 NICStar PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destroyor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
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* 2) skb_clone of received buffers
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*  
*  M. Welsh, 6 July 1996  
*  
*  */  

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            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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.. note::

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10.225 Log::Syslog::Fast 0.65

10.226 logrotate 3.9.1

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10.229 lua 5.1.4

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9056
10.230 luajit 2.0.2
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10.231 Math-Base85 0.2
10.231.1 Available under license :

README...

-------------
Math::Base85 Version 0.2
-------------

This module handles numbers in base 85, via strings and Math::BigInt.
For more information, read the module or rfc1924.txt.

The usual installation instructions apply:

/path/to/perl Makefile.PL
make
make test
make install

Please report bugs to the author at <tmonroe plus perl at nog dot net>.

-------------
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That's all there is to it!
10.232 Math-BigInt-GMP 1.24

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10.233 Math-BigInt-Pari 1.13

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

That's all there is to it!

10.234 Math-Complex 1.56

10.234.1 Available under license:

--- #YAML:1.0
name: Math-Complex
version: 1.56
abstract: ~
license: perl
author: ~
generated_by: ExtUtils::MakeMaker version 6.42
distribution_type: module
requires:
  Scalar::Util: 1.11
  Test::More: 0
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
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10.235 Math-GMP 2.06

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Ty Coon, President of Vice

That's all there is to it!

Math::GMP, a Perl module for high-speed arbitrary size integer
calculations
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--- #YAML:1.0
name: MIME-Types
version: 1.28
abstract: Definition of MIME types
license: perl
author:
  - Mark Overmeer
generated_by: ExtUtils::MakeMaker version 6.42
The "Artistic License"

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    <signature of Ty Coon>, 1 April 1989
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That's all there is to it!
10.243 minicom 2.6.1

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Miquel van Smoorenburg.

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**10.246 Module-Pluggable 3.9**

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README

<snip>

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10.247 mojolioscious 5.28
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```perl
%e = 20 + 3
% my $self = shift;
% if ($self->app->mode eq 'development') {
%   $self->stash('exception')->message
% }
% else {
Internal Server Error
%
% my $c = shift;
Hello Mojo from the other template <$%= $c->url_for %!>
% my $self = shift;
<![DOCTYPE html>]
<html>
<head> </head>
```
10.248 msmtsp 1.4.31

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README file for the ncurses package

See the file ANNOUNCE for a summary of ncurses features and ports.
See the file INSTALL for instructions on how to build and install ncurses.
See the file NEWS for a release history and bug-fix notes.
See the file TO-DO for things that still need doing, including known bugs.

Browse the file misc/ncurses-intro.html for narrative descriptions of how to use ncurses and the panel, menu, and form libraries.

Browse the file doc/html/hackguide.html for a tour of the package internals.

ROADMAP AND PACKAGE OVERVIEW:

You should be reading this file in a directory called: ncurses-d.d, where d.d is the current version number (see the dist.mk file in this directory for that). There should be a number of subdirectories, including `c++', `form', `man', `menu', `misc', `ncurses', `panel', `progs', `test', `tack' and `Ada95'. (The 'tack' program may be distributed separately).

A full build/install of this package typically installs several libraries, a handful of utilities, and a database hierarchy. Here is an inventory of the pieces:

The libraries are:

libn curses.a  (normal)
libn curses.so  (shared)
libncurses_g.a  (debug and trace code enabled)
libn curses_p.a  (profiling enabled)

libpanel.a  (normal)
libpanel.so  (shared)
libpanel_g.a  (debug and trace code enabled)
libmenu.a    (normal)
libmenu.so   (shared)
libmenu_g.a  (debug enabled)
libform.a    (normal)
libform.so   (shared)
libform_g.a  (debug enabled)

If you configure using the --enable-widec option, a "w" is appended to the library names (e.g., libncursesw.a), and the resulting libraries support wide-characters, e.g., via a UTF-8 locale. The corresponding header files are compatible with the non-wide-character configuration; wide-character features are provided by ifdef's in the header files. The wide-character library interfaces are not binary-compatible with the non-wide-character version.

The ncurses libraries implement the curses API. The panel, menu and forms libraries implement clones of the SVr4 panel, menu and forms APIs. The source code for these lives in the `ncurses', `panel', `menu', and `form' directories respectively.

In the `c++' directory, you'll find code that defines an interface to the curses, forms, menus and panels library packaged as C++ classes, and a demo program in C++ to test it. These class definition modules are not installed by the `make install.libs' rule as libncurses++.

In the `Ada95' directory, you'll find code and documentation for an Ada95 binding of the curses API, to be used with the GNAT compiler. This binding is built by a normal top-level `make' if configure detects an usable version of GNAT (3.11 or above). It is not installed automatically. See the Ada95 directory for more build and installation instructions and for documentation of the binding.

To do its job, the ncurses code needs your terminal type to be set in the environment variable TERM (normally set by your OS; under UNIX, getty(1) typically does this, but you can override it in your .profile); and, it needs a database of terminal descriptions in which to look up your terminal type's capabilities.

In older (V7/BSD) versions of curses, the database was a flat text file, /etc/termcap; in newer (USG/USL) versions, the database is a hierarchy of fast-loading binary description blocks under /usr/lib/terminfo. These binary blocks are compiled from an improved editable text representation called `terminfo' format (documented in man/terminfo.5). The ncurses library can use either /etc/termcap or the compiled binary terminfo blocks, but prefers the second form.
In the `misc' directory, there is a text file terminfo.src, in editable terminfo format, which can be used to generate the terminfo binaries (that's what make install.data does). If the package was built with the --enable-termcap option enabled, and the ncurses library cannot find a terminfo description for your terminal, it will fall back to the termcap file supplied with your system (which the ncurses package installation leaves strictly alone).

The utilities are as follows:

- tic -- terminfo source to binary compiler
- infocmp -- terminfo binary to source decompiler/comparator
- clear -- emits clear-screen for current terminal
- tput -- shell-script access to terminal capabilities.
- toe -- table of entries utility
- tset -- terminal-initialization utility

The first two (tic and infocmp) are used for manipulating terminfo descriptions; the next two (clear and tput) are for use in shell scripts. The last (tset) is provided for 4.4BSD compatibility. The source code for all of these lives in the `progs' directory.

Detailed documentation for all libraries and utilities can be found in the `man' and `doc' directories. An HTML introduction to ncurses, panels, and menus programming lives in the `doc/html' directory. Manpages in HTML format are under `doc/html/man'.

The `test' directory contains programs that can be used to verify or demonstrate the functions of the ncurses libraries. See test/README for descriptions of these programs. Notably, the `ncurses' utility is designed to help you systematically exercise the library functions.

AUTHORS:

Pavel Curtis:
wrote the original ncurses

Zeyd M. Ben-Halim:
port of original to Linux and many enhancements.

Thomas Dickey (maintainer for 1.9.9g through 4.1, resuming with FSF's 5.0):
configuration scripts, porting, mods to adhere to XSI Curses in the areas of background color, terminal modes. Also memory leak testing, the wresize, default colors and key definition extensions and numerous bug fixes (more than half of those enumerated in NEWS beginning with the internal release 1.8.9).
Florian La Roche (official maintainer for FSF's ncurses 4.2)
Beginning with release 4.2, ncurses is distributed under an MIT-style license.

Eric S. Raymond:
the man pages, infocmp(1), tput(1), clear(1), captoinfo(1), tset(1),
toe(1), most of tic(1), trace levels, the HTML intro, wgetnstr() and
many other entry points, the cursor-movement optimization, the
scroll-pack optimizer for vertical motions, the mouse interface and
xterm mouse support, and the ncurses test program.

Juergen Pfeifer
The menu and form libraries, C++ bindings for ncurses, menus, forms and
panels, as well as the Ada95 binding. Ongoing support for panel.

CONTRIBUTORS:

Alexander V. Lukyanov
for numerous fixes and improvements to the optimization logic.

David MacKenzie
for first-class bug-chasing and methodical testing.

Ross Ridge
for the code that hacks termcap parameterized strings into terminfo.

Warren Tucker and Gerhard Fuernkranz,
for writing and sending the panel library.

Hellmuth Michaelis,
for many patches and testing the optimization code.

Eric Newton, Ulrich Drepper, and Anatoly Ivasyuk:
the C++ code.

Jonathan Ross,
for lessons in using sed.

Keith Bostic (maintainer of 4.4BSD curses)
for help, criticism, comments, bug-finding, and being willing to
deep-six BSD curses for this one when it grew up.

Richard Stallman,
for his commitment to making ncurses free software.

Countless other people have contributed by reporting bugs, sending fixes,
suggesting improvements, and generally whining about ncurses :-)

BUGS:
See the INSTALL file for bug and developer-list addresses.
The Hacker's Guide in the doc directory includes some guidelines
on how to report bugs in ways that will get them fixed most quickly.

10.250 net tools 1.60
10.250.1 Available under license:

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10.252 Net-CIDR 0.13
10.252.1 Available under license:

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

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10.253 Net-CIDR-Lite 0.21
10.253.1 Available under license:

from Lite.pm

<snip>

=head1 COPYRIGHT

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<snip>
--- #YAML:1.0
name: Net-CIDR-Lite
version: 0.21
abstract: Perl extension for merging IPv4 or IPv6 CIDR addresses
author:
  - Douglas Wilson <dougw@cpan.org>
license: unknown
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

10.254 Net-DNS 0.68

10.254.1 Available under license:

from /demo/mresolv

<snip>

=head1 COPYRIGHT

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<snip>

from META.yml

--- #YAML:1.0
name: Net-DNS
version: 0.68
abstract: Perl DNS resolver module
author:
- Olaf Kolkman <olaf@net-dns.org>
license: perl
distribution_type: module
configure_requires: ExtUtils::MakeMaker: 0
build_requires: ExtUtils::MakeMaker: 0
requires:
  Digest::HMAC_MD5: 1
  Digest::MD5: 2.12
  Digest::SHA: 5.23
IO::Socket: 0
MIME::Base64: 2.11
Test::More: 0.18

no_index:
  directory:
    - t
    - inc

generated_by: ExtUtils::MakeMaker version 6.56
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4

from README

<snip>

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

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**10.256 Net-IPv4Addr 0.1**

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<snip>

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10.257 Net-IPv6Addr 0.2
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<snip>

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10.258 Net-IPv6Addr/rfc-document 0.2
10.258.1 Available under license :
   from rfc2373.txt This is the addressing architecture specification for IPV6.

<snip>
1.0 INTRODUCTION

This specification defines the addressing architecture of the IP Version 6 protocol. It includes a detailed description of the currently defined address formats for IPv6 [IPV6]

<snip>

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<snip>

10.259 Net-SCP-Expect 0.16

10.259.1 Available under license:

from Expect.pm

<snip>
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Daniel Berger

djberg96 at yahoo dot com

<snip>

from META.yml

--- #YAML:1.0
name: Net-SCP-Expect
version: 0.16
abstract: Wrapper for scp that allows passwords via Expect.
license: ~
author:
  - Eric Rybski <rybskej@yahoo.com>
generated_by: ExtUtils::MakeMaker version 6.44
distribution_type: module
requires:
  Expect: 1.14
  Net::IPv6Addr: 0.2
  Term::ReadPassword: 0.01
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
from README

<snip>

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10.260 net-snmp 5.6.2 5.6.2

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1. Introduction

The SNMP Management Framework at the time of this writing consists of five major components:

- An overall architecture, described in STD 62, RFC 3411 [RFC3411].

- Mechanisms for describing and naming objects and events for the purpose of management. The first version of this Structure of Management Information (SMI) is called SMIv1 and described in STD 16, RFC 1155 [RFC1155], STD 16, RFC 1212 [RFC1212] and RFC 1215 [RFC1215]. The second version, called SMIv2, is described...
- Message protocols for transferring management information. The first version of the SNMP message protocol is called SNMPv1 and described in STD 15, RFC 1157 [RFC1157]. A second version of the SNMP message protocol, which is not an Internet standards track protocol, is called SNMPv2c and described in RFC 1901 [RFC1901] and STD 62, RFC 3417 [RFC3417]. The third version of the message protocol is called SNMPv3 and described in STD 62, RFC 3417 [RFC3417], RFC 3412 [RFC3412] and RFC 3414 [RFC3414].

- Protocol operations for accessing management information. The first set of protocol operations and associated PDU formats is described in STD 15, RFC 1157 [RFC1157]. A second set of protocol operations and associated PDU formats is described in this document.

- A set of fundamental applications described in STD 62, RFC 3413 [RFC3413] and the view-based access control mechanism described in STD 62, RFC 3415 [RFC3415].

A more detailed introduction to the SNMP Management Framework at the time of this writing can be found in RFC 3410 [RFC3410].

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. Objects in the MIB are defined using the mechanisms defined in the SMI.

This document, Version 2 of the Protocol Operations for the Simple Network Management Protocol, defines the operations of the protocol with respect to the sending and receiving of PDUs to be carried by the message protocol.

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2. Overview

SNMP entities supporting command generator or notification receiver applications (traditionally called "managers") communicate with SNMP entities supporting command responder or notification originator
applications (traditionally called "agents"). The purpose of this protocol is the transport of management information and operations.

2.1. Management Information

The term "variable" refers to an instance of a non-aggregate object type defined according to the conventions set forth in the SMI [RFC2578] or the textual conventions based on the SMI [RFC2579]. The term "variable binding" normally refers to the pairing of the name of a variable and its associated value. However, if certain kinds of exceptional conditions occur during processing of a retrieval request, a variable binding will pair a name and an indication of that exception.

A variable-binding list is a simple list of variable bindings.

The name of a variable is an OBJECT IDENTIFIER which is the concatenation of the OBJECT IDENTIFIER of the corresponding object-type together with an OBJECT IDENTIFIER fragment identifying the instance. The OBJECT IDENTIFIER of the corresponding object-type is called the OBJECT IDENTIFIER prefix of the variable.

2.2. Retransmission of Requests

For all types of request in this protocol, the receiver is required under normal circumstances, to generate and transmit a response to the originator of the request. Whether or not a request should be retransmitted if no corresponding response is received in an appropriate time interval, is at the discretion of the application originating the request. This will normally depend on the urgency of the request. However, such an application needs to act responsibly in respect to the frequency and duration of re-transmissions. See BCP 41 [RFC2914] for discussion of relevant congestion control principles.

2.3. Message Sizes

The maximum size of an SNMP message is limited to the minimum of:

(1) the maximum message size which the destination SNMP entity can accept; and,
the maximum message size which the source SNMP entity can
generate.

The former may be known on a per-recipient basis; and in the absence
of such knowledge, is indicated by transport domain used when sending
the message. The latter is imposed by implementation-specific local
constraints.

Each transport mapping for the SNMP indicates the minimum message
size which a SNMP implementation must be able to produce or consume.
Although implementations are encouraged to support larger values
whenever possible, a conformant implementation must never generate
messages larger than allowed by the receiving SNMP entity.

One of the aims of the GetBulkRequest-PDU, specified in this
protocol, is to minimize the number of protocol exchanges required to
retrieve a large amount of management information. As such, this PDU
type allows an SNMP entity supporting command generator applications
to request that the response be as large as possible given the
constraints on message sizes. These constraints include the limits
on the size of messages which the SNMP entity supporting command
responder applications can generate, and the SNMP entity supporting
command generator applications can receive.

However, it is possible that such maximum sized messages may be
larger than the Path MTU of the path across the network traversed by
the messages. In this situation, such messages are subject to
fragmentation. Fragmentation is generally considered to be harmful
[FRAG], since among other problems, it leads to a decrease in the
reliability of the transfer of the messages. Thus, an SNMP entity
which sends a GetBulkRequest-PDU must take care to set its parameters
accordingly, so as to reduce the risk of fragmentation. In
particular, under conditions of network stress, only small values
should be used for max-repetitions.

2.4. Transport Mappings

It is important to note that the exchange of SNMP messages requires
only an unreliable datagram service, with every message being
entirely and independently contained in a single transport datagram.
Specific transport mappings and encoding rules are specified
elsewhere [RFC3417]. However, the preferred mapping is the use of
the User Datagram Protocol [RFC768].
2.5. SMIv2 Data Type Mappings

The SMIv2 [RFC2578] defines 11 base types (INTEGER, OCTET STRING, OBJECT IDENTIFIER, Integer32, IpAddress, Counter32, Gauge32, Unsigned32, TimeTicks, Opaque, Counter64) and the BITS construct. The SMIv2 base types are mapped to the corresponding selection type in the SimpleSyntax and ApplicationSyntax choices of the ASN.1 SNMP protocol definition. Note that the INTEGER and Integer32 SMIv2 base types are mapped to the integer-value selection type of the SimpleSyntax choice. Similarly, the Gauge32 and Unsigned32 SMIv2 base types are mapped to the unsigned-integer-value selection type of the ApplicationSyntax choice.

The SMIv2 BITS construct is mapped to the string-value selection type of the SimpleSyntax choice. A BITS value is encoded as an OCTET STRING, in which all the named bits in (the definition of) the bitstring, commencing with the first bit and proceeding to the last bit, are placed in bits 8 (high order bit) to 1 (low order bit) of the first octet, followed by bits 8 to 1 of each subsequent octet in turn, followed by as many bits as are needed of the final subsequent octet, commencing with bit 8. Remaining bits, if any, of the final octet are set to zero on generation and ignored on receipt.

3. Definitions

The PDU syntax is defined using ASN.1 notation [ASN1].

SNMPv2-PDU DEFINITIONS ::= BEGIN

ObjectName ::= OBJECT IDENTIFIER

ObjectSyntax ::= CHOICE {
  simple SimpleSyntax,
  application-wide ApplicationSyntax }

SimpleSyntax ::= CHOICE {
  integer-value INTEGER (-2147483648..2147483647),
  ...}
string-value OCTET STRING (SIZE (0..65535)),
objectID-value OBJECT IDENTIFIER }

ApplicationSyntax ::= CHOICE {
ipAddress-value IpAddress,
counter-value Counter32,
timeticks-value TimeTicks,
arbitrary-value Opaque,
big-counter-value Counter64,
unsigned-integer-value Unsigned32 }

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IpAddress ::= [APPLICATION 0] IMPLICIT OCTET STRING (SIZE (4))

Counter32 ::= [APPLICATION 1] IMPLICIT INTEGER (0..4294967295)

Unsigned32 ::= [APPLICATION 2] IMPLICIT INTEGER (0..4294967295)

Gauge32 ::= Unsigned32

TimeTicks ::= [APPLICATION 3] IMPLICIT INTEGER (0..4294967295)

Opaque ::= [APPLICATION 4] IMPLICIT OCTET STRING

Counter64 ::= [APPLICATION 6]
IMPLICIT INTEGER (0..18446744073709551615)

-- protocol data units

PDUs ::= CHOICE {
get-request GetRequest-PDU,
get-next-request GetNextRequest-PDU,
get-bulk-request GetBulkRequest-PDU,
response Response-PDU,
set-request SetRequest-PDU,
inform-request InformRequest-PDU,
smtpV2-trap SNMPv2-Trap-PDU,
report Report-PDU }

-- PDUs
GetRequest-PDU ::= [0] IMPLICIT PDU

GetNextRequest-PDU ::= [1] IMPLICIT PDU

Response-PDU ::= [2] IMPLICIT PDU

SetRequest-PDU ::= [3] IMPLICIT PDU

-- [4] is obsolete

GetBulkRequest-PDU ::= [5] IMPLICIT BulkPDU

InformRequest-PDU ::= [6] IMPLICIT PDU

SNMPv2-Trap-PDU ::= [7] IMPLICIT PDU

-- Usage and precise semantics of Report-PDU are not defined
-- in this document. Any SNMP administrative framework making
-- use of this PDU must define its usage and semantics.

PDU ::= SEQUENCE {
 request-id INTEGER (-214783648..214783647),

 error-status -- sometimes ignored
 INTEGER {
 noError(0),
 tooBig(1),
 noSuchName(2), -- for proxy compatibility
 badValue(3), -- for proxy compatibility
 readOnly(4), -- for proxy compatibility
 genErr(5),
 noAccess(6),
 wrongType(7),
 wrongLength(8),
 wrongEncoding(9),
 wrongValue(10),
 noCreation(11),

 max-bindings INTEGER ::= 2147483647

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inconsistentValue(12),
resourceUnavailable(13),
commitFailed(14),
undoFailed(15),
authorizationError(16),
notWritable(17),
inconsistentName(18)
},

error-index -- sometimes ignored
INTEGER (0..max-bindings),

variable-bindings -- values are sometimes ignored
VarBindList
}

BulkPDU ::= -- must be identical in
SEQUENCE {
  request-id INTEGER (-214783648..214783647),
  non-repeaters INTEGER (0..max-bindings),
  max-repetitions INTEGER (0..max-bindings),
  variable-bindings -- values are ignored
  VarBindList
}

-- variable binding

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VarBind ::= SEQUENCE {
  name ObjectName,
  CHOICE {
    value ObjectSyntax,
    unSpecified NULL, -- in retrieval requests
    -- exceptions in responses
    noSuchObject [0] IMPLICIT NULL,
    noSuchInstance [1] IMPLICIT NULL,
    endOfMibView [2] IMPLICIT NULL
  }
}
-- variable-binding list

VarBindList ::= SEQUENCE (SIZE (0..max-bindings)) OF VarBind

END

4. Protocol Specification

4.1. Common Constructs

The value of the request-id field in a Response-PDU takes the value
of the request-id field in the request PDU to which it is a response.
By use of the request-id value, an application can distinguish the
(potentially multiple) outstanding requests, and thereby correlate
incoming responses with outstanding requests. In cases where an
unreliable datagram service is used, the request-id also provides a
simple means of identifying messages duplicated by the network. Use
of the same request-id on a retransmission of a request allows the
response to either the original transmission or the retransmission to
satisfy the request. However, in order to calculate the round trip
time for transmission and processing of a request-response
transaction, the application needs to use a different request-id
value on a retransmitted request. The latter strategy is recommended
for use in the majority of situations.

A non-zero value of the error-status field in a Response-PDU is used
to indicate that an error occurred to prevent the processing of the
request. In these cases, a non-zero value of the Response-PDU's
error-index field provides additional information by identifying
which variable binding in the list caused the error. A variable
binding is identified by its index value. The first variable binding
in a variable-binding list is index one, the second is index two,
etc.

SNMP limits OBJECT IDENTIFIER values to a maximum of 128 sub-
identifiers, where each sub-identifier has a maximum value of
2**32-1.

4.2. PDU Processing
In the elements of procedure below, any field of a PDU which is not referenced by the relevant procedure is ignored by the receiving SNMP entity. However, all components of a PDU, including those whose values are ignored by the receiving SNMP entity, must have valid ASN.1 syntax and encoding. For example, some PDUs (e.g., the GetRequest-PDU) are concerned only with the name of a variable and not its value. In this case, the value portion of the variable binding is ignored by the receiving SNMP entity. The unSpecified value is defined for use as the value portion of such bindings.

On generating a management communication, the message "wrapper" to encapsulate the PDU is generated according to the "Elements of Procedure" of the administrative framework in use. The definition of "max-bindings" imposes an upper bound on the number of variable bindings. In practice, the size of a message is also limited by constraints on the maximum message size. A compliant implementation must support as many variable bindings in a PDU or BulkPDU as fit into the overall maximum message size limit of the SNMP engine, but no more than 2147483647 variable bindings.

On receiving a management communication, the "Elements of Procedure" of the administrative framework in use is followed, and if those procedures indicate that the operation contained within the message is to be performed locally, then those procedures also indicate the MIB view which is visible to the operation.

4.2.1. The GetRequest-PDU

A GetRequest-PDU is generated and transmitted at the request of an application.

Upon receipt of a GetRequest-PDU, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU. All fields of the Response-PDU have the same values as the corresponding fields of the received request except as indicated below. Each variable binding is processed as follows:

(1) If the variable binding's name exactly matches the name of a variable accessible by this request, then the variable binding's value field is set to the value of the named variable.
(2) Otherwise, if the variable binding’s name does not have an
OBJECT IDENTIFIER prefix which exactly matches the OBJECT
IDENTIFIER prefix of any (potential) variable accessible by
this request, then its value field is set to "noSuchObject".

(3) Otherwise, the variable binding’s value field is set to
"noSuchInstance".

If the processing of any variable binding fails for a reason other
than listed above, then the Response-PDU is re-formatted with the
same values in its request-id and variable-bindings fields as the
received GetRequest-PDU, with the value of its error-status field set
to "genErr", and the value of its error-index field is set to the
index of the failed variable binding.

Otherwise, the value of the Response-PDU’s error-status field is set
to "noError", and the value of its error-index field is zero.

The generated Response-PDU is then encapsulated into a message. If
the size of the resultant message is less than or equal to both a
local constraint and the maximum message size of the originator, it
is transmitted to the originator of the GetRequest-PDU.

Otherwise, an alternate Response-PDU is generated. This alternate
Response-PDU is formatted with the same value in its request-id field
as the received GetRequest-PDU, with the value of its error-status
field set to "tooBig", the value of its error-index field set to
zero, and an empty variable-bindings field. This alternate
Response-PDU is then encapsulated into a message. If the size of the
resultant message is less than or equal to both a local constraint
and the maximum message size of the originator, it is transmitted to
the originator of the GetRequest-PDU. Otherwise, the snmpSilentDrops
[RFC3418] counter is incremented and the resultant message is
discarded.

4.2.2. The GetNextRequest-PDU

A GetNextRequest-PDU is generated and transmitted at the request of
an application.

Upon receipt of a GetNextRequest-PDU, the receiving SNMP entity
processes each variable binding in the variable-binding list to
produce a Response-PDU. All fields of the Response-PDU have the same
values as the corresponding fields of the received request except as
indicated below. Each variable binding is processed as follows:
(1) The variable is located which is in the lexicographically ordered list of the names of all variables which are accessible by this request and whose name is the first lexicographic successor of the variable binding's name in the incoming GetNextRequest-PDU. The corresponding variable binding's name and value fields in the Response-PDU are set to the name and value of the located variable.

(2) If the requested variable binding's name does not lexicographically precede the name of any variable accessible by this request, i.e., there is no lexicographic successor, then the corresponding variable binding produced in the Response-PDU has its value field set to "endOfMibView", and its name field set to the variable binding's name in the request.

If the processing of any variable binding fails for a reason other than listed above, then the Response-PDU is re-formatted with the same values in its request-id and variable-bindings fields as the received GetNextRequest-PDU, with the value of its error-status field set to "genErr", and the value of its error-index field is set to the index of the failed variable binding.

Otherwise, the value of the Response-PDU's error-status field is set to "noError", and the value of its error-index field is zero.

The generated Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetNextRequest-PDU.

Otherwise, an alternate Response-PDU is generated. This alternate Response-PDU is formatted with the same values in its request-id field as the received GetNextRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is
transmitted to the originator of the GetNextRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded.

4.2.2.1. Example of Table Traversal

An important use of the GetNextRequest-PDU is the traversal of conceptual tables of information within a MIB. The semantics of this type of request, together with the method of identifying individual instances of objects in the MIB, provides access to related objects in the MIB as if they enjoyed a tabular organization.

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In the protocol exchange sketched below, an application retrieves the media-dependent physical address and the address-mapping type for each entry in the IP net-to-media Address Translation Table [RFC1213] of a particular network element. It also retrieves the value of sysUpTime [RFC3418], at which the mappings existed. Suppose that the command responder's IP net-to-media table has three entries:

<table>
<thead>
<tr>
<th>Interface-Number</th>
<th>Network-Address</th>
<th>Physical-Address</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10.0.0.51</td>
<td>00:00:10:01:23:45</td>
<td>static</td>
</tr>
<tr>
<td>1</td>
<td>9.2.3.4</td>
<td>00:00:10:54:32:10</td>
<td>dynamic</td>
</tr>
<tr>
<td>2</td>
<td>10.0.0.15</td>
<td>00:00:10:98:76:54</td>
<td>dynamic</td>
</tr>
</tbody>
</table>

The SNMP entity supporting a command generator application begins by sending a GetNextRequest-PDU containing the indicated OBJECT IDENTIFIER values as the requested variable names:

GetNextRequest ( sysUpTime,
                 ipNetToMediaPhysAddress,
                 ipNetToMediaType )

The SNMP entity supporting a command responder application responds with a Response-PDU:

Response (( sysUpTime.0 = "123456" ),
           ( ipNetToMediaPhysAddress.1.9.2.3.4 = "000010543210" ),
           ( ipNetToMediaType.1.9.2.3.4 = "dynamic" ))

The SNMP entity supporting the command generator application
continues with:

```plaintext
GetNextRequest ( sysUpTime,
    ipNetToMediaPhysAddress.1.9.2.3.4,
    ipNetToMediaType.1.9.2.3.4 )
```

The SNMP entity supporting the command responder application responds with:

```plaintext
Response ( ( sysUpTime.0 = "123461" ),
    ( ipNetToMediaPhysAddress.1.10.0.0.51 = "000010012345" ),
    ( ipNetToMediaType.1.10.0.0.51 = "static" ) )
```

The SNMP entity supporting the command generator application continues with:

```plaintext
GetNextRequest ( sysUpTime,
    ipNetToMediaPhysAddress.1.10.0.0.51,
    ipNetToMediaType.1.10.0.0.51 )
```

```plaintext
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```

The SNMP entity supporting the command responder application responds with:

```plaintext
Response ( ( sysUpTime.0 = "123466" ),
    ( ipNetToMediaPhysAddress.2.10.0.0.15 = "000010987654" ),
    ( ipNetToMediaType.2.10.0.0.15 = "dynamic" ) )
```

The SNMP entity supporting the command generator application continues with:

```plaintext
GetNextRequest ( sysUpTime,
    ipNetToMediaPhysAddress.2.10.0.0.15,
    ipNetToMediaType.2.10.0.0.15 )
```

As there are no further entries in the table, the SNMP entity supporting the command responder application responds with the variables that are next in the lexicographical ordering of the accessible object names, for example:

```plaintext
Response ( ( sysUpTime.0 = "123471" ),
    ( ipNetToMediaNetAddress.1.9.2.3.4 = "9.2.3.4" ),
```

```plaintext
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```
Note how, having reached the end of the column for ipNetToMediaPhysAddress, the second variable binding from the command responder application has now "wrapped" to the first row in the next column. Furthermore, note how, having reached the end of the ipNetToMediaTable for the third variable binding, the command responder application has responded with the next available object, which is outside that table. This response signals the end of the table to the command generator application.

4.2.3. The GetBulkRequest-PDU

A GetBulkRequest-PDU is generated and transmitted at the request of an application. The purpose of the GetBulkRequest-PDU is to request the transfer of a potentially large amount of data, including, but not limited to, the efficient and rapid retrieval of large tables.

Upon receipt of a GetBulkRequest-PDU, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU with its request-id field having the same value as in the request.

For the GetBulkRequest-PDU type, the successful processing of each variable binding in the request generates zero or more variable bindings in the Response-PDU. That is, the one-to-one mapping between the variable bindings of the GetRequest-PDU, GetNextRequest-PDU, and SetRequest-PDU types and the resultant Response-PDUs does not apply for the mapping between the variable bindings of a GetBulkRequest-PDU and the resultant Response-PDU.

The values of the non-repeaters and max-repetitions fields in the request specify the processing requested. One variable binding in the Response-PDU is requested for the first N variable bindings in the request and M variable bindings are requested for each of the R remaining variable bindings in the request. Consequently, the total number of requested variable bindings communicated by the request is given by N + (M * R), where N is the minimum of: a) the value of the non-repeaters field in the request, and b) the number of variable bindings in the request; M is the value of the max-repetitions field.
in the request; and R is the maximum of: a) number of variable bindings in the request - N, and b) zero.

The receiving SNMP entity produces a Response-PDU with up to the total number of requested variable bindings communicated by the request. The request-id shall have the same value as the received GetBulkRequest-PDU.

If N is greater than zero, the first through the (N)-th variable bindings of the Response-PDU are each produced as follows:

1. The variable is located which is in the lexicographically ordered list of the names of all variables which are accessible by this request and whose name is the first lexicographic successor of the variable binding's name in the incoming GetBulkRequest-PDU. The corresponding variable binding's name and value fields in the Response-PDU are set to the name and value of the located variable.

2. If the requested variable binding's name does not lexicographically precede the name of any variable accessible by this request, i.e., there is no lexicographic successor, then the corresponding variable binding produced in the Response-PDU has its value field set to "endOfMibView", and its name field set to the variable binding's name in the request.

If M and R are non-zero, the (N + 1)-th and subsequent variable bindings of the Response-PDU are each produced in a similar manner. For each iteration i, such that i is greater than zero and less than or equal to M, and for each repeated variable, r, such that r is greater than zero and less than or equal to R, the (N + ( (i-1) * R ) + r)-th variable binding of the Response-PDU is produced as follows:

---

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(1) The variable which is in the lexicographically ordered list of the names of all variables which are accessible by this request and whose name is the (i)-th lexicographic successor of the (N + r)-th variable binding's name in the incoming GetBulkRequest-PDU is located and the variable binding's name
and value fields are set to the name and value of the located variable.

(2) If there is no (i)-th lexicographic successor, then the corresponding variable binding produced in the Response-PDU has its value field set to "endOfMibView", and its name field set to either the last lexicographic successor, or if there are no lexicographic successors, to the (N + r)-th variable binding's name in the request.

While the maximum number of variable bindings in the Response-PDU is bounded by N + (M * R), the response may be generated with a lesser number of variable bindings (possibly zero) for either of three reasons.

(1) If the size of the message encapsulating the Response-PDU containing the requested number of variable bindings would be greater than either a local constraint or the maximum message size of the originator, then the response is generated with a lesser number of variable bindings. This lesser number is the ordered set of variable bindings with some of the variable bindings at the end of the set removed, such that the size of the message encapsulating the Response-PDU is approximately equal to but no greater than either a local constraint or the maximum message size of the originator. Note that the number of variable bindings removed has no relationship to the values of N, M, or R.

(2) The response may also be generated with a lesser number of variable bindings if for some value of iteration i, such that i is greater than zero and less than or equal to M, that all of the generated variable bindings have the value field set to "endOfMibView". In this case, the variable bindings may be truncated after the (N + (i * R))-th variable binding.

(3) In the event that the processing of a request with many repetitions requires a significantly greater amount of processing time than a normal request, then a command responder application may terminate the request with less than the full number of repetitions, providing at least one repetition is completed.
If the processing of any variable binding fails for a reason other than listed above, then the Response-PDU is re-formatted with the same values in its request-id and variable-bindings fields as the received GetBulkRequest-PDU, with the value of its error-status field set to "genErr", and the value of its error-index field is set to the index of the variable binding in the original request which corresponds to the failed variable binding.

Otherwise, the value of the Response-PDU’s error-status field is set to "noError", and the value of its error-index field to zero.

The generated Response-PDU (possibly with an empty variable-bindings field) is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetBulkRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded.

4.2.3.1. Another Example of Table Traversal

This example demonstrates how the GetBulkRequest-PDU can be used as an alternative to the GetNextRequest-PDU. The same traversal of the IP net-to-media table as shown in Section 4.2.2.1 is achieved with fewer exchanges.

The SNMP entity supporting the command generator application begins by sending a GetBulkRequest-PDU with the modest max-repetitions value of 2, and containing the indicated OBJECT IDENTIFIER values as the requested variable names:

\[
\text{GetBulkRequest [ non-repeaters = 1, max-repetitions = 2 ]}
\]
\[
( \text{sysUpTime},
\text{ipNetToMediaPhysAddress},
\text{ipNetToMediaType} )
\]

The SNMP entity supporting the command responder application responds with a Response-PDU:

\[
\text{Response ( ( sysUpTime.0 = "123456" ),}
\]
\[
( \text{ipNetToMediaPhysAddress.1.9.2.3.4 = "000010543210" },
\text{ipNetToMediaType.1.9.2.3.4 = "dynamic" },
\text{ipNetToMediaPhysAddress.1.10.0.0.51 = "000010012345" },
\text{ipNetToMediaType.1.10.0.0.51 = "static" )}
\]
The SNMP entity supporting the command generator application continues with:

GetBulkRequest [ non-repeaters = 1, max-repetitions = 2 ]

    ( sysUpTime,
      ipNetToMediaPhysAddress.1.10.0.0.51,
      ipNetToMediaType.1.10.0.0.51 )

The SNMP entity supporting the command responder application responds with:

Response (( sysUpTime.0 = "123466" ),

    ( ipNetToMediaPhysAddress.2.10.0.0.15 = "000010987654" ),
    ( ipNetToMediaType.2.10.0.0.15 = "dynamic" ),
    ( ipNetToMediaNetAddress.1.9.2.3.4 = "9.2.3.4" ),
    ( ipRoutingDiscards.0 = "2" ))

Note how, as in the first example, the variable bindings in the response indicate that the end of the table has been reached. The fourth variable binding does so by returning information from the next available column; the fifth variable binding does so by returning information from the first available object lexicographically following the table. This response signals the end of the table to the command generator application.

4.2.4. The Response-PDU

The Response-PDU is generated by an SNMP entity only upon receipt of a GetRequest-PDU, GetNextRequest-PDU, GetBulkRequest-PDU, SetRequest-PDU, or InformRequest-PDU, as described elsewhere in this document.

If the error-status field of the Response-PDU is non-zero, the value fields of the variable bindings in the variable binding list are ignored.

If both the error-status field and the error-index field of the
Response-PDU are non-zero, then the value of the error-index field is the index of the variable binding (in the variable-binding list of the corresponding request) for which the request failed. The first variable binding in a request's variable-binding list is index one, the second is index two, etc.

A compliant SNMP entity supporting a command generator application must be able to properly receive and handle a Response-PDU with an error-status field equal to "noSuchName", "badValue", or "readOnly". (See sections 1.3 and 4.3 of [RFC2576].)

Upon receipt of a Response-PDU, the receiving SNMP entity presents its contents to the application which generated the request with the same request-id value. For more details, see [RFC3412].

4.2.5. The SetRequest-PDU

A SetRequest-PDU is generated and transmitted at the request of an application.

Upon receipt of a SetRequest-PDU, the receiving SNMP entity determines the size of a message encapsulating a Response-PDU having the same values in its request-id and variable-bindings fields as the received SetRequest-PDU, and the largest possible sizes of the error-status and error-index fields. If the determined message size is greater than either a local constraint or the maximum message size of the originator, then an alternate Response-PDU is generated, transmitted to the originator of the SetRequest-PDU, and processing of the SetRequest-PDU terminates immediately thereafter. This alternate Response-PDU is formatted with the same values in its request-id field as the received SetRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the SetRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded. Regardless, processing of the SetRequest-PDU terminates.
Otherwise, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU. All fields of the Response-PDU have the same values as the corresponding fields of the received request except as indicated below.

The variable bindings are conceptually processed as a two phase operation. In the first phase, each variable binding is validated; if all validations are successful, then each variable is altered in the second phase. Of course, implementors are at liberty to implement either the first, or second, or both, of these conceptual phases as multiple implementation phases. Indeed, such multiple implementation phases may be necessary in some cases to ensure consistency.

The following validations are performed in the first phase on each variable binding until they are all successful, or until one fails:

(1) If the variable binding’s name specifies an existing or non-existent variable to which this request is/would be denied access because it is/would not be in the appropriate MIB view, then the value of the Response-PDU’s error-status field is set to "noAccess", and the value of its error-index field is set to the index of the failed variable binding.

(2) Otherwise, if there are no variables which share the same OBJECT IDENTIFIER prefix as the variable binding’s name, and which are able to be created or modified no matter what new value is specified, then the value of the Response-PDU’s error-status field is set to "notWritable", and the value of its error-index field is set to the index of the failed variable binding.

(3) Otherwise, if the variable binding’s value field specifies, according to the ASN.1 language, a type which is inconsistent with that required for all variables which share the same
OBJECT IDENTIFIER prefix as the variable binding's name, then the value of the Response-PDU's error-status field is set to "wrongType", and the value of its error-index field is set to the index of the failed variable binding.

(4) Otherwise, if the variable binding's value field specifies, according to the ASN.1 language, a length which is inconsistent with that required for all variables which share the same OBJECT IDENTIFIER prefix as the variable binding's name, then the value of the Response-PDU's error-status field is set to "wrongLength", and the value of its error-index field is set to the index of the failed variable binding.

(5) Otherwise, if the variable binding's value field contains an ASN.1 encoding which is inconsistent with that field's ASN.1 tag, then the value of the Response-PDU's error-status field is set to "wrongEncoding", and the value of its error-index field is set to the index of the failed variable binding. (Note that not all implementation strategies will generate this error.)

(6) Otherwise, if the variable binding's value field specifies a value which could under no circumstances be assigned to the variable, then the value of the Response-PDU's error-status field is set to "wrongValue", and the value of its error-index field is set to the index of the failed variable binding.

(7) Otherwise, if the variable binding's name specifies a variable which does not exist and could not ever be created (even though some variables sharing the same OBJECT IDENTIFIER prefix might under some circumstances be able to be created), then the value of the Response-PDU's error-status field is set to "noCreation", and the value of its error-index field is set to the index of the failed variable binding.

(8) Otherwise, if the variable binding's name specifies a variable which does not exist but can not be created under the present circumstances (even though it could be created under other circumstances), then the value of the Response-PDU's error-status field is set to "inconsistentName", and the value of its
error-index field is set to the index of the failed variable binding.

(9) Otherwise, if the variable binding’s name specifies a variable which exists but can not be modified no matter what new value is specified, then the value of the Response-PDU’s error-status field is set to "notWritable", and the value of its error-index field is set to the index of the failed variable binding.

(10) Otherwise, if the variable binding’s value field specifies a value that could under other circumstances be held by the variable, but is presently inconsistent or otherwise unable to be assigned to the variable, then the value of the Response-PDU’s error-status field is set to "inconsistentValue", and the value of its error-index field is set to the index of the failed variable binding.

(11) When, during the above steps, the assignment of the value specified by the variable binding’s value field to the specified variable requires the allocation of a resource which is presently unavailable, then the value of the Response-PDU’s error-status field is set to "resourceUnavailable", and the value of its error-index field is set to the index of the failed variable binding.

(12) If the processing of the variable binding fails for a reason other than listed above, then the value of the Response-PDU’s error-status field is set to "genErr", and the value of its error-index field is set to the index of the failed variable binding.

(13) Otherwise, the validation of the variable binding succeeds.

At the end of the first phase, if the validation of all variable bindings succeeded, then the value of the Response-PDU’s error-status field is set to "noError" and the value of its error-index field is zero, and processing continues as follows.
For each variable binding in the request, the named variable is created if necessary, and the specified value is assigned to it. Each of these variable assignments occurs as if simultaneously with respect to all other assignments specified in the same request. However, if the same variable is named more than once in a single request, with different associated values, then the actual assignment made to that variable is implementation-specific.

If any of these assignments fail (even after all the previous validations), then all other assignments are undone, and the Response-PDU is modified to have the value of its error-status field set to "commitFailed", and the value of its error-index field set to the index of the failed variable binding.

If and only if it is not possible to undo all the assignments, then the Response-PDU is modified to have the value of its error-status field set to "undoFailed", and the value of its error-index field is set to zero. Note that implementations are strongly encouraged to take all possible measures to avoid use of either "commitFailed" or "undoFailed" - these two error-status codes are not to be taken as license to take the easy way out in an implementation.

Finally, the generated Response-PDU is encapsulated into a message, and transmitted to the originator of the SetRequest-PDU.

4.2.6. The SNMPv2-Trap-PDU

An SNMPv2-Trap-PDU is generated and transmitted by an SNMP entity on behalf of a notification originator application. The SNMPv2-Trap-PDU is often used to notify a notification receiver application at a logically remote SNMP entity that an event has occurred or that a condition is present. There is no confirmation associated with this notification delivery mechanism.

The destination(s) to which an SNMPv2-Trap-PDU is sent is determined in an implementation-dependent fashion by the SNMP entity. The first two variable bindings in the variable binding list of an SNMPv2-Trap-PDU are sysUpTime.0 [RFC3418] and snmpTrapOID.0 [RFC3418] respectively. If the OBJECTS clause is present in the invocation of the corresponding NOTIFICATION-TYPE macro, then each corresponding variable, as instantiated by this notification, is copied, in order,
to the variable-bindings field. If any additional variables are
being included (at the option of the generating SNMP entity), then
each is copied to the variable-bindings field.

4.2.7. The InformRequest-PDU

An InformRequest-PDU is generated and transmitted by an SNMP entity
on behalf of a notification originator application. The
InformRequest-PDU is often used to notify a notification receiver
application that an event has occurred or that a condition is
present. This is a confirmed notification delivery mechanism,
although there is, of course, no guarantee of delivery.

The destination(s) to which an InformRequest-PDU is sent is specified
by the notification originator application. The first two variable
bindings in the variable binding list of an InformRequest-PDU are
sysUpTime.0 [RFC3418] and snmpTrapOID.0 [RFC3418] respectively. If
the OBJECTS clause is present in the invocation of the corresponding
NOTIFICATION-TYPE macro, then each corresponding variable, as
instantiated by this notification, is copied, in order, to the
variable-bindings field. If any additional variables are being
included (at the option of the generating SNMP entity), then each is
copied to the variable-bindings field.

Upon receipt of an InformRequest-PDU, the receiving SNMP entity
determines the size of a message encapsulating a Response-PDU with
the same values in its request-id, error-status, error-index and
variable-bindings fields as the received InformRequest-PDU. If the
determined message size is greater than either a local constraint or
the maximum message size of the originator, then an alternate
Response-PDU is generated, transmitted to the originator of the
InformRequest-PDU, and processing of the InformRequest-PDU terminates
immediately thereafter. This alternate Response-PDU is formatted
with the same values in its request-id field as the received
InformRequest-PDU, with the value of its error-status field set to
"tooBig", the value of its error-index field set to zero, and an
empty variable-bindings field. This alternate Response-PDU is then
encapsulated into a message. If the size of the resultant message is
less than or equal to both a local constraint and the maximum message
size of the originator, it is transmitted to the originator of the
InformRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter
is incremented and the resultant message is discarded. Regardless,
processing of the InformRequest-PDU terminates.

Otherwise, the receiving SNMP entity:
(1) presents its contents to the appropriate application;

(2) generates a Response-PDU with the same values in its request-id and variable-bindings fields as the received InformRequest-PDU, with the value of its error-status field set to "noError" and the value of its error-index field set to zero; and

(3) transmits the generated Response-PDU to the originator of the InformRequest-PDU.

5. Notice on Intellectual Property

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7. Security Considerations

The protocol defined in this document by itself does not provide a secure environment. Even if the network itself is secure (for example by using IPSec), there is no control as to who on the secure network is allowed access to management information.

It is recommended that the implementors consider the security features as provided by the SNMPv3 framework. Specifically, the use of the User-based Security Model STD 62, RFC 3414 [RFC3414] and the View-based Access Control Model STD 62, RFC 3415 [RFC3415] is recommended.

It is then a customer/user responsibility to ensure that the SNMP entity is properly configured so that:

- only those principals (users) having legitimate rights can
access or modify the values of any MIB objects supported by that entity;

- the occurrence of particular events on the entity will be communicated appropriately;

- the entity responds appropriately and with due credence to events and information that have been communicated to it.

8. References

8.1. Normative References


8.2. Informative References


Presuhn, et al. Standards Track [Page 27]

RFC 3416 Protocol Operations for SNMP December 2002


[RFC1157] Case, J., Fedor, M., Schoffstall, M. and J. Davin,


9. Changes from RFC 1905

These are the changes from RFC 1905:

- Corrected spelling error in copyright statement;

- Updated copyright date;

- Updated with new editor's name and contact information;

- Added notice on intellectual property;

Presuhn, et al. Standards Track [Page 28]
- Cosmetic fixes to layout and typography;

- Added table of contents;

- Title changed;

- Updated document headers and footers;

- Deleted the old clause 2.3, entitled "Access to Management Information";

- Changed the way in which request-id was defined, though with the same ultimate syntax and semantics, to avoid coupling with SMI. This does not affect the protocol in any way;

- Replaced the word "exception" with the word "error" in the old clause 4.1. This does not affect the protocol in any way;

- Deleted the first two paragraphs of the old clause 4.2;

- Clarified the maximum number of variable bindings that an implementation must support in a PDU. This does not affect the protocol in any way;

- Replaced occurrences of "SNMPv2 application" with "application";

- Deleted three sentences in old clause 4.2.3 describing the handling of an impossible situation. This does not affect the protocol in any way;

- Clarified the use of the SNMPv2-Trap-Pdu in the old clause 4.2.6. This does not affect the protocol in any way;

- Aligned description of the use of the InformRequest-Pdu in old clause 4.2.7 with the architecture. This does not affect the protocol in any way;

- Updated references;

- Re-wrote introduction clause;

- Replaced manager/agent/SNMPv2 entity terminology with terminology from RFC 2571. This does not affect the protocol in any way;
- Eliminated IMPORTS from the SMI, replaced with equivalent in-line ASN.1. This does not affect the protocol in any way;

- Added notes calling attention to two different manifestations of reaching the end of a table in the table walk examples;

- Added content to security considerations clause;

- Updated ASN.1 comment on use of Report-PDU. This does not affect the protocol in any way;

- Updated acknowledgments section;

- Included information on handling of BITS;

- Deleted spurious comma in ASN.1 definition of PDUs;

- Added abstract;

- Made handling of additional variable bindings in informs consistent with that for traps. This was a correction of an editorial oversight, and reflects implementation practice;

- Added reference to RFC 2914.

10. Editor's Address

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This version of this MIB module is part of RFC 5591; see the RFC itself for full legal notices.

REVISION "200906090000Z"
DESCRIPTION "The initial version, published in RFC 5591."
 ::= { mib-2 190 }

-- ---------------------------------------------------------- --
-- subtrees in the SNMP-TSM-MIB
-- ---------------------------------------------------------- --

snmpTsmNotifications OBJECT IDENTIFIER ::= { snmpTsmMIB 0 }
snmpTsmMIBObjects OBJECT IDENTIFIER ::= { snmpTsmMIB 1 }
snmpTsmConformance OBJECT IDENTIFIER ::= { snmpTsmMIB 2 }

-- -------------------------------------------------------------
-- Objects
-- -------------------------------------------------------------

-- Statistics for the Transport Security Model

snmpTsmStats OBJECT IDENTIFIER ::= { snmpTsmMIBObjects 1 }

snmpTsmInvalidCaches OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The number of incoming messages dropped because the
tmStateReference referred to an invalid cache.
"
::= { snmpTsmStats 1 }

snmpTsmInadequateSecurityLevels OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The number of incoming messages dropped because
the securityLevel asserted by the Transport Model was
less than the securityLevel requested by the
application."
"
::= { snmpTsmStats 2 }

snmpTsmUnknownPrefixes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The number of messages dropped because
snmpTsmConfigurationUsePrefix was set to true and
there is no known prefix for the specified transport
domain."
"
::= { snmpTsmStats 3 }

snmpTsmInvalidPrefixes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The number of messages dropped because
the securityName associated with an outgoing message
did not contain a valid transport domain prefix."
"
::= { snmpTsmStats 4 }

-- Configuration

-- Configuration for the Transport Security Model

snmpTsmConfiguration OBJECT IDENTIFIER ::= { snmpTsmMIBObjects 2 }

snmpTsmConfigurationUsePrefix OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION "If this object is set to true, then securityNames passing to and from the application are expected to contain a transport-domain-specific prefix. If this object is set to true, then a domain-specific prefix will be added by the TSM to the securityName for incoming messages and removed from the securityName when processing outgoing messages. Transport domains and prefixes are maintained in a registry by IANA. This object SHOULD persist across system reboots."

DEFVAL { false }
 ::= { snmpTsmConfiguration 1 }

-- -------------------------------------------------------------
-- snmpTsmMIB - Conformance Information
-- -------------------------------------------------------------

snmpTsmCompliances OBJECT IDENTIFIER ::= { snmpTsmConformance 1 }

snmpTsmGroups OBJECT IDENTIFIER ::= { snmpTsmConformance 2 }

-- Compliance statements
-- -------------------------------------------------------------

snmpTsmCompliance MODULE-COMPLIANCE
  STATUS    current
  DESCRIPTION "The compliance statement for SNMP engines that support the SNMP-TSM-MIB."

  MODULE
    MANDATORY-GROUPS { snmpTsmGroup }
    ::= { snmpTsmCompliances 1 }

-- Units of conformance
-- -------------------------------------------------------------

snmpTsmGroup OBJECT-GROUP
  OBJECTS {
    snmpTsmInvalidCaches,
    snmpTsmInadequateSecurityLevels,
    snmpTsmUnknownPrefixes,
    snmpTsmInvalidPrefixes,
    snmpTsmConfigurationUsePrefix
  }
  STATUS    current
  DESCRIPTION "A collection of objects for maintaining information of an SNMP engine that implements
the SNMP Transport Security Model.

```
::= { snmpTsmGroups 2 }
```

END

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10.262 Net-SSLeay 1.55

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from /lib/Net/SSLeay.pm

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#
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from META.yml

license: SSLeay

from ppport.h

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10.263 Net-Telnet 3.03
10.263.1 Available under license :

from /lib/Net/Telnet.pm

package Net::Telnet;

## Copyright 1997, 2000, 2002 Jay Rogers.  All rights reserved.
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## modify it under the same terms as Perl itself.

## See user documentation at the end of this file.  Search for =head
use strict;
require 5.002;

## Module export.
use vars qw(@EXPORT_OK);
@EXPORT_OK = qw(TELNET_IAC TELNET_DONT TELNET_DO TELNET_WONT TELNET_WILL
TELNET_SB TELNET_GB TELNET_EL TELNET_EC TELNET_AYT TELNET_AO
TELNET_IP TELNET_BREAK TELNET_DM TELNET_NOP TELNET_SE
TELNET_EOR TELNET_ABORT TELNET_SUSP TELNET_EOF TELNET_SYNCH
TELOPT_BINARY TELOPT_ECHO TELOPT_RCP TELOPT_SGA TELOPT_NAMS
TELOPT_STATUS TELOPT_TM TELOPT_RCTE TELOPT_NAOL TELOPT_NAOP
TELOPT_NAOCRDM TELOPT_NAOHTS TELOPT_NAOHTD TELOPT_NAOFFD
TELOPT_NAOVTS TELOPT_NAOVTD TELOPT_NAOLFD TELOPT_XASCII
TELOPT_LOGOUT TELOPT_TMTELOPT_DET TELOPT_SUPDUP
TELOPT_SUPDUPOUTPUT TELOPT_SDLOC TELOPT_TTYPE TELOPT_EOR
TELOPT_TUID TELOPT_OUTMRK TELOPT_TTYLOC TELOPT_3270REGIME
TELOPT_X3PAD TELOPT_NAWS TELOPT_TSPEED TELOPT_LFLOW
TELOPT_LINEMODE TELOPT_XDISLOC TELOPT_OLD_ENVIRON
TELOPT_AUTHENTICATION TELOPT_ENCRYPT TELOPT_NEW_ENVIRON
TELOPT_EXOPL);

## Module import.
use Exporter ();
use Socket qw(AF_INET SOCK_STREAM inet_aton sockaddr_in);
use Symbol qw(qualify);

## Base classes.
use vars qw(@ISA);
@ISA = qw(Exporter);
if (&_io_socket_include) {  # successfully required module IO::Socket
  push @ISA, "IO::Socket::INET";
} else {  # perl version < 5.004
  require FileHandle;
  push @ISA, "FileHandle";
}

## Global variables.
use vars qw($VERSION @Telopts);
$VERSION = "3.03";
@Telopts = ("BINARY", "ECHO", "RCP", "SUPPRESS GO AHEAD", "NAME", "STATUS",
"TIMING MARK", "RCTE", "NAOL", "NAOP", "NAOCRDM", "NAOHTS",
"NAOHTD", "NAOFFD", "NAOVTSD", "NAOVTSD", "NAOVTSDL", "EXTEND ASCII",
"LOGOUT", "BYTE MACRO", "DATA ENTRY TERMINAL", "SUPDUP",
"SUPDUP OUTPUT", "SEND LOCATION", "TERMINAL TYPE", "END OF RECORD",
"TACACS UID", "OUTPUT MARKING", "TTYLOC", "3270 REGIME", "X.3 PAD",
"NAWS", "TSPEED", "LFLOW", "LINEMODE", "XDISLOC", "OLD-ENVIRON",
"AUTHENTICATION", "ENCRYPT", "NEW-ENVIRON");
sub new {
    my ($class) = @_; 
    my ( 
        $errmode, 
        $fh_open, 
        $host, 
        $self, 
        %args, 
    );
    local $_;

    ## Create a new object with defaults.
    $self = $class->SUPER::new;
    *$self->{net_telnet} = {
        bin_mode    => 0, 
        blksize     => &_optimal_blksize(), 
        buf         => "", 
        cmd_prompt   => '/[$%#>] $/', 
        cmd_rm_mode  => "auto", 
        dumplog     => "", 
        eofile      => 1, 
        errormode   => "die", 
        errormsg    => "", 
        fdmask      => "", 
        host        => "localhost", 
        inputlog    => "", 
        last_line   => "", 
        last_prompt => "", 
        maxbufsize  => 1_048_576, 
        num_wrote   => 0, 
        ofs         => "", 
        opened      => "", 
        opt_cback   => "", 
        opt_log     => "", 
        opts        => {}, 
        ors         => "\n", 
        outputlog   => "", 
        pending_errormsg => "", 
        port        => 23, 
        pushback_buf => "", 
        rs          => "\n", 
        subopt_cback => "", 
        telnet_mode => 1, 
    };
    "
}
time_out => 10,
timedout => 
unsent_opts => "",

## Indicate that we'll accept an offer from remote side for it to echo
## and suppress go aheads.
&_opt_accept($self,  
{ option => &TELOPT_ECHO,  
is_remote => 1,  
is_enable => 1 },  
{ option => &TELOPT_SGA,  
is_remote => 1,  
is_enable => 1 },
);

## Parse the args.
if (@_ == 2) {  # one positional arg given
$host = $_[1];
}
else if (@_ > 2) {  # named args given
## Get the named args.
(undef, %args) = @_;

## Parse all other named args.
foreach (keys %args) {
   if (/^-?binmode$/i) {
$self->binmode($args{$_});
}
else if (/^-?cmd_remove_mode$/i) {
$self->cmd_remove_mode($args{$_});
}
else if (/^-?dump_log$/i) {
$self->dump_log($args{$_});
}
else if (/^-?errmode$/i) {
$errmode = $args{$_};
}
else if (/^-?fhopen$/i) {
$fh_open = $args{$_};
}
else if (/^-?host$/i) {
$host = $args{$_};
}
else if (/^-?input_log$/i) {
$self->input_log($args{$_});
}
else if (/^-?input_record_separator$/i or /^-?rs$/i) {
$self->input_record_separator($args{$_});
    } elsif (/^-?option_log$/i) {
        $self->option_log($args{$_});
    } elsif (/^-?output_log$/i) {
        $self->output_log($args{$_});
    } elsif (/^-?output_record_separator$/i or /^-?ors$/i) {
        $self->output_record_separator($args{$_});
    } elsif (/^-?port$/i) {
        $self->port($args{$_});
    } elsif (/^-?prompt$/i) {
        $self->prompt($args{$_});
    } elsif (/^-?telnetmode$/i) {
        $self->telnetmode($args{$_});
    } elsif (/^-?timeout$/i) {
        $self->timeout($args{$_});
    } else {
        &_croak($self, "bad named parameter \"$_\" given ".
            "to ". ref($self) . ":::new()\"");
    }

if (defined $errmode) {  # user wants to set errmode
    $self->errmode($errmode);
}

if (defined $fh_open) {  # user wants us to attach to existing filehandle
    $self->fhopen($fh_open)
    or return;
} elsif (defined $host) {  # user wants us to open a connection to host
    $self->host($host);
    $self->open
    or return;
}
$self;
}  # end sub new
sub DESTROY {
    # end sub DESTROY
}

sub binmode {
    my ($self, $mode) = @_; 
    my ($prev, $s, $prev);

    $s = *$self->{net_telnet}; 
    $prev = $s->{bin_mode};

    if (@_ >= 2) {
        unless (defined $mode) {
            $mode = 0;
        } 
    }

    $s->{bin_mode} = $mode;
}

$prev;
} # end sub binmode

sub break {
    my ($self) = @_; 
    my $s = *$self->{net_telnet};
    my $break_cmd = "\xff\xff"

    $s->{timedout} = "";

    &_put($self, $break_cmd, "break");
} # end sub break

sub buffer {
    my ($self) = @_; 
    my $s = *$self->{net_telnet};

    $s->{buf};
} # end sub buffer

sub buffer_empty {
    my ($self) = @_; 
    my ($prev, $s, $prev);

    $s->{bin_mode} = $mode;
}

$prev;
} # end sub binmode
$buffer,
);

$buffer = $self->buffer;
$$buffer = "";
} # end sub buffer_empty

sub close {
    my ($self) = @_;;
    my $s = *$self->{net_telnet};

    $s->{eofile} = 1;
    $s->{opened} = "";
    close $self
    if defined fileno($self);

    1;
} # end sub close

sub cmd {
    my ($self, @args) = @_;;
    my ( $cmd_remove_mode, $errmode, $firstpos, $last_prompt, $lastpos, $lines, $ors, $output, $output_ref, $prompt, $remove_echo, $rs, $rs_len, $s, $telopt_echo, $timeout, %args, );

    my $cmd = "";
    local $_;;

    ## Init.
    $self->timed_out("");
    $self->last_prompt("");
    $self->buffer_empty("");

    # Colors
    $self->cmd($cmd, $secondpos, $secondprompt, $binary, $chars, $numbers, $columns, $displaymode, $escape, $filename, $fmt, $flag, $foreground, $highlight, $length, $modes, $number, $nslimit, $sep, $setflag, $size, $space, $screenoff, $screenon, $string, $telnetgrep, $telnetping, $timeout, $tftp, $width, $widthmode, $y);
$s = *$self->{net_telnet};
$output = [];
$cmd_remove_mode = $self->cmd_remove_mode;
$errmode = $self->errmode;
$ors = $self->output_record_separator;
$prompt = $self->prompt;
$rs = $self->input_record_separator;
$timeout = $self->timeout;

## Parse args.
if (@_ == 2) {  # one positional arg given
    $cmd = $_[1];
} elsif (@_ > 2) {  # named args given
    ## Get the named args.
    (undef, %args) = @_;

    ## Parse the named args.
    foreach (keys %args) {
        if (/^-?cmd_remove/i) {
            $cmd_remove_mode = &_parse_cmd_remove_mode($self, $args{$_});
        } elsif (/^-?errmode$/i) {
            $errmode = &_parse_errmode($self, $args{$_});
        } elsif (/^-?input_record_separator$/i or /^-?rs$/i) {
            $rs = &_parse_input_record_separator($self, $args{$_});
        } elsif (/^-?output$/i) {
            $output_ref = $args{$_};
            if (defined($output_ref) and ref($output_ref) eq "ARRAY") {
                $output = $output_ref;
            }
        } elsif (/^-?output_record_separator$/i or /^-?ors$/i) {
            $ors = $self->output_record_separator($args{$_});
        } elsif (/^-?prompt$/i) {
            $prompt = &_parse_prompt($self, $args{$_});
        } elsif (/^-?string$/i) {
            $cmd = $args{$_};
        } elsif (/^-?timeout$/i) {
            $timeout = &_parse_timeout($self, $args{$_});
        } else {
            &_croak($self, "bad named parameter \"$_\" given ");
        }
    }
}
"to " . ref($self) . ":cmd()";
}
}

## Override some user settings.
local $s->{errormode} = "return";
local $s->{time_out} = &_endtime($timeout);
$self->errmsg(""");

## Send command and wait for the prompt.
$self->put(cmd . Sors)
and ($lines, $last_prompt) = $self->waitfor($prompt);

## Check for failure.
$s->{errormode} = $errmode;
return $self->error("command timed-out") if $self->timed_out;
return $self->error($self->errmsg) if $self->errmsg ne "";

## Save the most recently matched prompt.
$self->last_prompt($last_prompt);

## Split lines into an array, keeping record separator at end of line.
$firstpos = 0;
$rs_len = length $rs;
while (($lastpos = index($lines, $rs, $firstpos)) > -1) {
push(@$output,
    substr($lines, $firstpos, $lastpos - $firstpos + $rs_len));
$firstpos = $lastpos + $rs_len;
}
if ($firstpos < length $lines) {
push @$output, substr($lines, $firstpos);
}

## Determine if we should remove the first line of output based
## on the assumption that it's an echoed back command.
if ($cmd_remove_mode eq "auto") {
## See if remote side told us they'd echo.
$telopt_echo = $self->option_state(&TELOPT_ECHO);
$remove_echo = $telopt_echo->{remote_enabled};
}
else {  # user explicitly told us how many lines to remove.
$remove_echo = $cmd_remove_mode;
}

## Get rid of possible echo back command.
while ($remove_echo--) {

shift @$output;

## Ensure at least a null string when there's no command output - so
## "true" is returned in a list context.
unless (@$output) {
  @$output = ("");
}

## Return command output via named arg, if requested.
if (defined $output_ref) {
  if (ref($output_ref) eq "SCALAR") {
    $$output_ref = join "", @$output;
  }
  elsif (ref($output_ref) eq "HASH") {
    %$output_ref = @$output;
  }
}

wantarray ? @$output : 1;
} # end sub cmd

sub cmd_remove_mode {
  my ($self, $mode) = @_;;
  my (%$prev, $s);

  $s = *$self->{net_telnet};
  $prev = $s->{cmd_rm_mode};

  if ( @$_ >= 2) {
    $s->{cmd_rm_mode} = &_parse_cmd_remove_mode($self, $mode);
  }

  $prev;
} # end sub cmd_remove_mode

sub dump_log {
  my ($self, $name) = @_;;
  my ($fh, $s, $s);

  
} # end sub cmd_remove_mode
$s = *$self->{net_telnet};
$fh = $s->{dumplog};

if (@_ >= 2) {
    unless (defined $name) {
        $name = "";
    }

    $fh = &_fname_to_handle($self, $name)
    or return;
    $s->{dumplog} = $fh;
}

$fh;
} # end sub dump_log

sub eof {
    my ($self) = @_;

    *$self->{net_telnet}{eofile};
} # end sub eof

sub errmode {
    my ($self, $mode) = @_;
    my (
        $prev,
        $s,
    );

    $s = *$self->{net_telnet};
    $prev = $s->{errormode};

    if (@_ >= 2) {
        $s->{errormode} = &_parse_errmode($self, $mode);
    }

    $prev;
} # end sub errmode

sub errmsg {
    my ($self, @errmsgs) = @_;
sub error {
    my ($self, @errmsg) = @_; 
    my ( 
        $errmsg, 
        $func, 
        $mode, 
        $s, 
        @args, 
    ); 
    local $_; 

    $s = *$self->{net_telnet}; 

    if (@_ >= 2) { 
        ## Put error message in the object.
        $errmsg = join "", @errmsg;
        $s->{errormsg} = $errmsg;
        ## Do the error action as described by error mode.
        $mode = $s->{errormode};
        if (ref($mode) eq "CODE") {
            &$mode($errmsg);
            return;
        } elsif (ref($mode) eq "ARRAY") {
            ($func, @args) = @$mode;
            &$func(@args);
            return;
        } elsif ($mode =~ /^return$/i) { 
            return;
        } else {  # die
            if ($errmsg =~ /
            die $errmsg;
        }
    } # end sub errmsg

    $prev = $s->{errormsg}; 
    if (@_ >= 2) { 
        $s->{errormsg} = join "", @errmsgs;
    } 
    $prev;
} # end sub error

$s = *$self->{net_telnet};
$prev = $s->{errormsg};

if (@_ >= 2) {
    $s->{errormsg} = join "", @errmsgs;
}

$s = *$self->{net_telnet};

if (@_ >= 2) { 
    ## Put error message in the object.
    $errmsg = join "", @errmsg;
    $s->{errormsg} = $errmsg;
    ## Do the error action as described by error mode.
    $mode = $s->{errormode};
    if (ref($mode) eq "CODE") {
        &$mode($errmsg);
        return;
    } elsif (ref($mode) eq "ARRAY") {
        ($func, @args) = @$mode;
        &$func(@args);
        return;
    } elsif ($mode =~ /^return$/i) { 
        return;
    } else {  # die
        if ($errmsg =~ /
        die $errmsg;
    }
}
else {
    ## Die and append caller's line number to message.
    &_croak($self, $errmsg);
    }
}
}
}
else {
    return $s->{errormsg} ne "";
}
} # end sub error

sub fhopen {
    my ($self, $fh) = @_; 
    my ( 
        $globref, 
        $s, 
    );

    ## Convert given filehandle to a typeglob reference, if necessary.
    $globref = &_qualify_fh($self, $fh);

    ## Ensure filehandle is already open.
    return $self->error("fhopen filehandle isn't already open")
    unless defined($globref) and defined(fileno $globref);

    ## Ensure we're closed.
    $self->close;

    ## Save our private data.
    $s = *$self->{net_telnet};

    ## Switch ourself with the given filehandle.
    *$self = *$globref;

    ## Restore our private data.
    *$self->{net_telnet} = $s;

    ## Re-initialize ourself.
    select((select($self), $|=1)[0]);  # don't buffer writes
    $s = *$self->{net_telnet};
    $s->{blksize} = &_optimal_blksize((stat $self)[11]);
    $s->{buf} = "";
    $s->{eofile} = "";
    $s->{errormsg} = "";
    vec($s->{fdmask})=", fileno($self), 1) = 1;
    $s->{host} = "";
    $s->{last_line} = "";
$s->{last_prompt} = "";
$s->{num_wrote} = 0;
$s->{opened} = 1;
$s->{pending_errormsg} = "";
$s->{port} = "";
$s->{pushback_buf} = "";
$s->{timedout} = "";
$s->{unsent_opts} = "";
&_reset_options($s->{opts});

1;
} # end sub fhopen

sub get {
    my ($self, %args) = @_; 
    my ($binmode, $endtime, $errmode, $line, $s, $telnetmode, $timeout, $s);
    local $_; 

    ## Init.
    $s = *$self->{net_telnet};
    $timeout = $s->{time_out};
    $s->{timedout} = "";
    return if $s->{eofile};

    ## Parse the named args.
    foreach (keys %args) {
        if (/^-?binmode$/i) {
            $binmode = $args{$_};
            unless (defined $binmode) {
                $binmode = 0;
            }
        }
        elsif (/^-?errmode$/i) {
            $errmode = &_parse_errmode($self, $args{$_});
        }
        elsif (/^-?telnetmode$/i) {
            $telnetmode = $args{$_};
            unless (defined $telnetmode) {
                $telnetmode = 0;
            }
        }
    }
}
elsif (/^-?timeout$/i) {
    $timeout = &_parse_timeout($self, $args{$_});
} else {
    &_croak($self, "bad named parameter \"$_\" given ".
    "to \". ref($self) . \"::get\"());
}

## If any args given, override corresponding instance data.
local $s->{errormode} = $errmode
if defined $errmode;
    local $s->{bin_mode} = $binmode
if defined $binmode;
    local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;

## Set wall time when we time out.
$endtime = &_endtime($timeout);

## Try to send any waiting option negotiation.
if (length $s->{unsent_opts}) {
    &_flush_opts($self);
}

## Try to read just the waiting data using return error mode.
{
    local $s->{errormode} = "return";
    $s->{errormsg} = "";
    &_fillbuf($self, $s, 0);
}

## We're done if we timed-out and timeout value is set to "poll".
return $self->error($s->{errormsg})
if ($s->{timedout} and defined($timeout) and $timeout == 0
    and !length $s->{buf});

## We're done if we hit an error other than timing out.
if ($s->{errormsg} and !$s->{timedout}) {
    if (!length $s->{buf}) {
        return $self->error($s->{errormsg});
    } else {
        # error encountered but there's some data in buffer
        $s->{pendingErrMsg} = $s->{errormsg};
    }
}

## Clear time-out error from first read.
$s->{timedout} = ";
$s->{errormsg} = ";

## If buffer is still empty, try to read according to user's timeout.
if (!length $s->{buf}) {
    &_fillbuf($self, $s, $endtime)
    or do {
        return if $s->{timedout};
    }

## We've reached end-of-file.
$self->close;
return;
}

## Extract chars from buffer.
$line = $s->{buf};
$s->{buf} = "";

$line;
} # end sub get

sub getline {
    my ($self, %args) = @_; 
    my ($binmode, $endtime, $errmode, $len, $line, $offset, $pos, $rs, $s, $telnetmode, $timeout);
    local $_;

    ## Init.
    $s = *$self->{net_telnet};
    $s->{timedout} = ";
    return if $s->{eofile};
    $rs = $s->{rs};
    $timeout = $s->{time_out};
## Parse the named args.

foreach (keys %args) {
    if (/^-?binmode$/i) {
        $binmode = $args{$_};
        unless (defined $binmode) {
            $binmode = 0;
        }
    }
    elsif (/^-?errmode$/i) {
        $errmode = &_parseErrmode($self, $args{$_});
    }
    elsif (/^-?input_record_separator$/i or /^-?rs$/i) {
        $rs = &_parseInputRecordSeparator($self, $args{$_});
    }
    elsif (/^-?telnetmode$/i) {
        $telnetmode = $args{$_};
        unless (defined $telnetmode) {
            $telnetmode = 0;
        }
    }
    elsif (/^-?timeout$/i) {
        $timeout = &_parseTimeout($self, $args{$_});
    }
    else {
        &_croak($self, "bad named parameter \"$_\" given ".
                "to \" . ref($self) . ":::getline()\";)
    }
}

## If any args given, override corresponding instance data.

local $s->{bin_mode} = $binmode if defined $binmode;
local $s->{errormode} = $errmode if defined $errmode;
local $s->{telnet_mode} = $telnetmode if defined $telnetmode;

## Set wall time when we time out.

$endtime = &_endtime($timeout);

## Try to send any waiting option negotiation.

if (length $s->{unsent_opts}) {
    &_flush_opts($self);
}

## Keep reading into buffer until end-of-line is read.

$offset = 0;
while ($pos = index($s->{buf}, $rs, $offset)) == -1) {
  $offset = length $s->{buf};
  &_fillbuf($self, $s, $endtime)
  or do {
    return if $s->{timedout};

    ## We've reached end-of-file.
    $self->close;
    if (length $s->{buf}) {
      return $s->{buf};
    } else {
      return;
    }
  }:
}

## Extract line from buffer.
$len = $pos + length $rs;
$line = substr($s->{buf}, 0, $len);
substr($s->{buf}, 0, $len) = "";

$line;
} # end sub getline

sub getlines {
  my ($self, %args) = @_;
  my ( $binmode, $errmode, $line, $rs, $s, $telnetmode, $timeout);
  my $all = 1;
  my @lines = ();
  local $_;

  ## Init.
  $s = *$self->{net_telnet};
  $s->{timedout} = ";
  return if $s->{eofile};
  $timeout = $s->{time_out};

  ## Parse the named args.
  "$s = "$self->{net_telnet};
  $s->{timedout} = "\n  return if $s->{eofile};
  $timeout = $s->{time_out};

  ## Parse the named args.
foreach (keys %args) {
    if (/^-?all$/i) {
        $all = $args{$_};
        unless (defined $all) {
            $all = ";
        }
    }
    elsif (/^-?binmode$/i) {
        $binmode = $args{$_};
        unless (defined $binmode) {
            $binmode = 0;
        }
    }
    elsif (/^-?errmode$/i) {
        $errmode = &_parse_errmode($self, $args{$_});
    }
    elsif (/^-?input_record_separator$/i or /^-?rs$/i) {
        $rs = &_parse_input_record_separator($self, $args{$_});
    }
    elsif (/^-?telnetmode$/i) {
        $telnetmode = $args{$_};
        unless (defined $telnetmode) {
            $telnetmode = 0;
        }
    }
    elsif (/^-?timeout$/i) {
        $timeout = &_parse_timeout($self, $args{$_});
    }
    else {
        &_croak($self, "bad named parameter \"$_\" given ".
        "to \"". ref($self). ".getlines\()");
    }
}

## If any args given, override corresponding instance data.
local $s->{bin_mode} = $binmode
if defined $binmode;
local $s->{errormode} = $errmode
if defined $errmode;
local $s->{rs} = $rs
if defined $rs;
local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;
local $s->{time_out} = &_endtime($timeout);

## User requested only the currently available lines.
if (! $all) {
    return &_next_getlines($self, $s);
## Read lines until eof or error.

```perl
while (1) {
    $line = $self->getline
    or last;
    push @lines, $line;
}
```

## Check for error.

```perl
return if ! $self->eof;
```

@lines;
}
} # end sub getlines

sub host {  
    my ($self, $host) = @_;  
    my ($prev,  
        $s,  
    );  
    
    $s = *$self->{net_telnet};  
    $prev = $s->{host};  

    if (@_ >= 2) {  
        unless (defined $host) {  
            $host = "";  
        }  
    }  
    $s->{host} = $host;  
}

$prev;
} # end sub host

sub input_log {  
    my ($self, $name) = @_;  
    my ($fh,  
        $s,  
    );  

    $s = *$self->{net_telnet};  
    $fh = $s->{inputlog};  
}
if (@_ >= 2) {
    unless (defined $name) {
        $name = "";
    }

    $fh = &_fname_to_handle($self, $name)
    or return;
    $s->{inputlog} = $fh;
}

$fh;
} # end sub input_log

sub input_record_separator {
    my ($self, $rs) = @_; 
    my ($prev, $s, $); 

    $s = *$self->{net_telnet};
    $prev = $s->{rs};

    if (@_ >= 2) {
        $s->{rs} = &_parse_input_record_separator($self, $rs);
    }

    $prev;
} # end sub input_record_separator

sub last_prompt {
    my ($self, $string) = @_; 
    my ($prev, $s, $s);

    $s = *$self->{net_telnet};
    $prev = $s->{last_prompt};

    if (@_ >= 2) {
        unless (defined $string) {
            $string = "";
        }

        $s->{last_prompt} = $string;
    }

    $s->{last_prompt} = $string;
}
sub lastline {
    my ($self, $line) = @_;  
    my ( 
        $prev, 
        $s, 
    );

    $s = *$self->{net_telnet};
    $prev = $s->{last_line};

    if (@_ >= 2) {
        unless (defined $line) {
            $line = "";
        }
    }

    $s->{last_line} = $line;
    }

    $prev;
    }  # end sub lastline

sub login {
    my ($self) = @_;  
    my ( 
        $errmode, 
        $error, 
        $is_passwd_arg, 
        $is_username_arg, 
        $lastline, 
        $match, 
        $ors, 
        $passwd, 
        $prematch, 
        $prompt, 
        $s, 
        $timeout, 
        $username, 
        %args, 
    );
    local $_;
## Init.
$self->timed_out('');
$self->last_prompt('');
$s = *$self->{net_telnet};
$timeout = $self->timeout;
$ors = $self->output_record_separator;
$prompt = $self->prompt;

## Parse args.
if (@_ == 3) { # just username and passwd given
    $username = $_[1];
    $passwd = $_[2];

    $is_username_arg = 1;
    $is_passwd_arg = 1;
} else { # named args given
    ## Get the named args.
    (undef, %args) = @_;

    ## Parse the named args.
    foreach (keys %args) {
        if (/^-?errmode$/i) {
            $errmode = &_parse_errmode($self, $args{$_});
        } elsif (/^-?name$/i) {
            $username = $args{$_};
            unless (defined $username) {
                $username = "";
            }
        } elsif (/^-?pass/i) {
            $passwd = $args{$_};
            unless (defined $passwd) {
                $passwd = "";
            }
        } elsif (/^-?prompt$/i) {
            $prompt = &_parse_prompt($self, $args{$_});
        } elsif (/^-?timeout$/i) {
            $timeout = &_parse_timeout($self, $args{$_});
        } else {
            ## Get the named args.
            (undef, %args) = @_;

            ## Parse the named args.
            foreach (keys %args) {
                if (/^-?errmode$/i) {
                    $errmode = &_parse_errmode($self, $args{$_});
                } elsif (/^-?name$/i) {
                    $username = $args{$_};
                    unless (defined $username) {
                        $username = "";
                    }
                } elsif (/^-?pass/i) {
                    $passwd = $args{$_};
                    unless (defined $passwd) {
                        $passwd = "";
                    }
                } elsif (/^-?prompt$/i) {
                    $prompt = &_parse_prompt($self, $args{$_});
                } elseif (/^-?timeout$/i) {
                    $timeout = &_parse_timeout($self, $args{$_});
                } else {
                    ## Get the named args.
                    (undef, %args) = @_;
&_croak($self, "bad named parameter \"$_\" given ",
"to ". ref($self) . ":::login()");
}
}

## Ensure both username and password argument given.
&_croak($self,"Name argument not given to ". ref($self) . ":::login()"
unless $is_username_arg;
&_croak($self,"Password argument not given to ". ref($self) . ":::login()"
unless $is_passwd_arg;

## Override some user settings.
local $s->{errormode} = $errmode
if defined $errmode;
local $s->{time_out} = &_endtime($timeout);

## Create a subroutine to generate an error.
$error
= sub {
    my ($errmsg) = @_;

    if ($self->timed_out) {
        return $self->error($errmsg);
    }
    elsif ($self->eof) {
        ($lastline = $self->lastline) =~ s/
+//;
        return $self->error($errmsg, ": ", $lastline);
    }
    else {
        return $self->error($self->errmsg);
    }
};

return $self->error("login failed: filehandle isn't open")
if $self->eof;

## Wait for login prompt.
$self->waitfor(Match => '/login[: ]*$/i',
    Match => '/username[: ]*$/i',
    Errmode => "return")
or do {
    return &$error("eof read waiting for login prompt")
    if $self->eof;
    return &$error("timed-out waiting for login prompt");
};
## Delay sending response because of bug in Linux login program.
&_sleep(0.01);

## Send login name.
$self->put(String => $username . $ors, Errmode => "return")
or return &$error("login disconnected");

## Wait for password prompt.
$self->waitfor(Match => '/password[: ][\*]$i', Errmode => "return")
or do {
   return &$error("eof read waiting for password prompt")
   if $self->eof;
   return &$error("timed-out waiting for password prompt");
};

## Delay sending response because of bug in Linux login program.
&_sleep(0.01);

## Send password.
$self->put(String => $passwd . $ors, Errmode => "return")
or return &$error("login disconnected");

## Wait for command prompt or another login prompt.
(Sprematch, $match) = $self->waitfor(Match => '/login[: ][\*]$i', Match => '/username[: ][\*]$i', Match => $prompt, Errmode => "return")
or do {
   return &$error("eof read waiting for command prompt")
   if $self->eof;
   return &$error("timed-out waiting for command prompt");
};

## It's a bad login if we got another login prompt.
return $self->error("login failed: bad name or password")
if $match =~ /login[: ][\*]$i or $match =~ /username[: ][\*]$i;

## Save the most recently matched command prompt.
$self->last_prompt($match);

1;
} # end sub login

sub max_buffer_length {
my ($self, $maxbufsize) = @_;
my (
$prev,
$s,
);
my $minbufsize = 512;
$s = *$self->{net_telnet};
$prev = $s->{maxbufsize};
if (@_ >= 2) {
## Ensure a positive integer value.
unless (defined $maxbufsize
and $maxbufsize =~ /^\d+$/
and $maxbufsize)
{
&_carp($self, "ignoring bad Max_buffer_length " .
"argument \"$maxbufsize\": it's not a positive integer");
$maxbufsize = $prev;
}
## Adjust up values that are too small.
if ($maxbufsize < $minbufsize) {
$maxbufsize = $minbufsize;
}
$s->{maxbufsize} = $maxbufsize;
}
$prev;
} # end sub max_buffer_length

## Make ofs() synonymous with output_field_separator().
*ofs = \&output_field_separator;

sub open {
my ($self) = @_;
my (
$errmode,
$errno,
$host,
$ip_addr,
$port,
$s,
$timeout,
%args,

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## Init.
$s = *$self->{net_telnet};
$timeout = $s->{time_out};
$s->{timedout} = "";

if (@_ == 2) {  # one positional arg given
    $self->host($_[1]);
}  
elsif (@_ > 2) {  # named args given
    ## Get the named args.
    (undef, %args) = @_; 

    ## Parse the named args.
    foreach (keys %args) {
        if (/^-?errmode$/i) {
            $errmode = &_parse_errmode($self, $args{$_});
        }  
        elsif (/^-?host$/i) {
            $self->host($args{$_});
        }  
        elsif (/^-?port$/i) {
            $self->port($args{$_})  
                or return;
        }  
        elsif (/^-?timeout$/i) {
            $timeout = &_parse_timeout($self, $args{$_});
        }  
        else {
            &_croak($self, "bad named parameter \"$_\" given ",
                "to ". ref($self) . "::open()";
        }
    }

    ## If any args given, override corresponding instance data.
    local $s->{errormode} = $errmode
    if defined $errmode;

    ## Get host and port.
    $host = $self->host;
    $port = $self->port;

    ## Ensure we're already closed.
    $self->close;
## Connect with or without a timeout.

if (defined($timeout) and &_have_alarm) {  # use a timeout
## Convert possible absolute timeout to relative timeout.
if ($timeout >= $^T) {  # it's an absolute time
    $timeout = $timeout - time;
}

## Ensure a valid timeout value for alarm.
if ($timeout < 1) {
    $timeout = 1;
}
$timeout = int($timeout + 1.5);

## Connect to server, timing out if it takes too long.
eval {
    ## Turn on timer.
    local $SIG{"__DIE__"} = "DEFAULT";
    local $SIG{ALRM} = sub { die "timed-out\n" :
    alarm $timeout;

    ## Lookup server's IP address.
    $ip_addr = inet_aton $host
    or die "unknown remote host: $host\n";

    ## Create a socket and attach the filehandle to it.
    socket $self, AF_INET, SOCK_STREAM, 0
    or die "problem creating socket: $!\n";

    ## Open connection to server.
    connect $self, sockaddr_in($port, $ip_addr)
    or die "problem connecting to "$host", port $port: $!\n";
};
alarm 0;

## Check for error.
if ($@ =~ /^timed-out$/) {  # time out failure
    $s->{timedout} = 1;
    $self->close;
    if (!$ip_addr) {
        return $self->error("unknown remote host: $host: ",
            "name lookup timed-out");
    }
    else {
        return $self->error("problem connecting to "$host", " ,
            "port $port: connect timed-out");
    }
}
else if ($@) {  # hostname lookup or connect failure
$self->close;
chomp $@;
return $self->error($@);
}
}
else {  # don't use a timeout
$timeout = undef;

## Lookup server's IP address.
$ip_addr = inet_aton $host
    or return $self->error("unknown remote host: $host");

## Create a socket and attach the filehandle to it.
socket $self, AF_INET, SOCK_STREAM, 0
    or return $self->error("problem creating socket: "$!);

## Open connection to server.
connect $self, sockaddr_in($port, $ip_addr)
    or do {
        $errno = "$!";
        $self->close;
        return $self->error("problem connecting to "$host", ",
            "port $port: $errno");
    };
}
select((select($self), $|=1)[$[ ]);  # don't buffer writes
$s->{blksize} = &_optimal_blksize((stat $self)[11]);
$s->{buf} = "";
$s->{eofile} = "";
$s->{errormsg} = "";
vec($s->{fdmask}='', fileno($self), 1) = 1;
$s->{last_line} = "";
$s->{num_wrote} = 0;
$s->{opened} = 1;
$s->{pending_errormsg} = "";
$s->{pushback_buf} = "";
$s->{timedout} = "";
$s->{unsent_opts} = "";
&_reset_options($s->{opts});

1;
} # end sub open

sub option_accept {
    my ($self, @args) = @_;
    my (}
local $_

## Init.
$s = *$self->{net_telnet};

## Parse the named args.
while ((($_, $arg) = splice @args, 0, 2) {
## Verify and save arguments.
if (/^-?do$/i) {
## Make sure a callback is defined.
return $self->error("usage: an option callback must already ",
"be defined when enabling with $_")
unless $s->{opt_cback};

$option = &_verify_telopt_arg($self, $arg, $_);
return unless defined $option;
push @opt_args, { option => $option,
is_remote => ",
is_enable => 1,
};
}
elsif (/^-?dont$/i) {
$option = &_verify_telopt_arg($self, $arg, $_);
return unless defined $option;
push @opt_args, { option => $option,
is_remote => ",
is_enable => ",
};
}
elsif (/^-?will$/i) {
## Make sure a callback is defined.
return $self->error("usage: an option callback must already ",
"be defined when enabling with $_")
unless $s->{opt_cback};

$option = &_verify_telopt_arg($self, $arg, $_);
return unless defined $option;
push @opt_args, { option => $option,
is_remote => 1,
is_enable => 1,
};
}
elsif (/^-?wont$/i) {


$option = &_verify_telopt_arg($self, $arg, $_);
return unless defined $option;
push @opt_args, { option => $option,
is_remote => 1,
is_enable => "",
};
}
else {
    return $self-&gt;error('usage: $obj-&gt;option_accept(' .
'[Do =&gt; $telopt,]',
'[Dont =&gt; $telopt,]',
'[Will =&gt; $telopt,]',
'[Wont =&gt; $telopt,]');
}
}

## Set "receive ok" for options specified.
&_opt_accept($self, @opt_args);
} # end sub option_accept

sub option_callback {
    my ($self, $callback) = @_;;
    my ($prev, $s, $);
    
$s = *$self-&gt;{net_telnet};
$prev = $s-&gt;{opt_cback};

    if (@_ &gt;= 2) {
        unless (defined $callback and ref($callback) eq "CODE") {
            &_carp($self, "ignoring Option_callback argument because it's " .
            "not a code ref");
            $callback = $prev;
        }
    }

    $s-&gt;{opt_cback} = $callback;
    }
    $prev;
} # end sub option_callback

sub option_log {
    my ($self, $name) = @_;;
    my ($prev, $);
    
};
$fh,
$s,
);

$s = *$self->{net_telnet};
$fh = $s->{opt_log};

if (@_ >= 2) {
    unless (defined $name) {
        $name = "";
    }

    $fh = &_fname_to_handle($self, $name)
    or return;
    $s->{opt_log} = $fh;
}

$fh;
} # end sub option_log

sub option_state {
    my ($self, $option) = @_;
    my ( $opt_state, $s, %opt_state, );

    ## Ensure telnet option is non-negative integer.
    $option = &_verify_telopt_arg($self, $option);
    return unless defined $option;

    ## Init.
    $s = *$self->{net_telnet};
    unless (defined $s->{opts} {$option}) {
        &_set_default_option($s, $option);
    }

    ## Return hashref to a copy of the values.
    $opt_state = $s->{opts} {$option};
    %opt_state = %$opt_state;
    \%opt_state;
} # end sub option_state

## Make ors() synonymous with output_record_separator().
*ors = \&output_record_separator;
sub output_field_separator {
    my ($self, $ofs) = @_;
    my ($prev, $s,);

    $s = *$self->{net_telnet};
    $prev = $s->{ofs};

    if (@_ >= 2) {
        unless (defined $ofs) {
            $ofs = "";
        }
    }

    $s->{ofs} = $ofs;
}

# end sub output_field_separator

sub output_log {
    my ($self, $name) = @_;  
    my ($fh, $s,);

    $s = *$self->{net_telnet};
    $fh = $s->{outputlog};

    if (@_ >= 2) {
        unless (defined $name) {
            $name = "";
        }
    }

    $fh = &_fname_to_handle($self, $name)
        or return;
    $s->{outputlog} = $fh;
}

# end sub output_log
sub output_record_separator {
my ($self, $ors) = @_;
my (
$prev,
$s,
);
$s = *$self->{net_telnet};
$prev = $s->{ors};
if (@_ >= 2) {
unless (defined $ors) {
$ors = "";
}
$s->{ors} = $ors;
}
$prev;
} # end sub output_record_separator

sub port {
my ($self, $port) = @_;
my (
$prev,
$s,
$service,
);
$s = *$self->{net_telnet};
$prev = $s->{port};
if (@_ >= 2) {
unless (defined $port) {
$port = "";
}
if (!$port) {
&_carp($self, "ignoring bad Port argument \"$port\"");
$port = $prev;
}
elsif ($port !~ /^\d+$/) { # port isn't all digits
$service = $port;
$port = getservbyname($service, "tcp");
unless ($port) {
&_carp($self, "ignoring bad Port argument \"$service\": " .
"it's an unknown TCP service");

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$port = $prev;

}s->{port} = $port;

$prev;
} # end sub port

sub print {
  my ($self) = shift;
  my ($buf, $fh, $s);
  $s = *$self->{net_telnet};
  $s->{timedout} = ";
  return $self->error("write error: filehandle isn't open") unless $s->{opened};

  ## Add field and record separators.
  $buf = join($s->{ofs}, @_) . $s->{ors};

  ## Log the output if requested.
  if ($s->{outputlog}) {
    &_log_print($s->{outputlog}, $buf);
  }

  ## Convert native newlines to CR LF.
  if (!$s->{bin_mode}) {
    $buf =~ s(\n)(\015\012)g;
  }

  ## Escape TELNET IAC and also CR not followed by LF.
  if ($s->{telnet_mode}) {
    $buf =~ s(\377)(\377\377)g;
    &_escape_cr($buf);
  }

  &_put($self, \$buf, "print");
  # end sub print

sub print_length {
my ($self) = @_; 

*$_self->{net_telnet}{num_wrote}; 
} # end sub print_length

sub prompt { 
  my ($self, $prompt) = @_; 
  my ( 
    $prev, 
    $s,
  ); 

  $s = *$_self->{net_telnet}; 
  $prev = $s->{cmd_prompt}; 

  ## Parse args. 
  if (@_ == 2) { 
    $s->{cmd_prompt} = &_parse_prompt($self, $prompt); 
  } 

  $prev; 
} # end sub prompt

sub put { 
  my ($self) = @_; 
  my ( 
    $binmode,
    $buf, 
    $errmode, 
    $is_timeout_arg, 
    $s, 
    $telnetmode, 
    $timeout, 
    %args, 
  ); 
  local $_; 

  ## Init. 
  $s = *$_self->{net_telnet}; 
  $s->{timedout} = ";"; 

  ## Parse args. 
  if (@_ == 2) { # one positional arg given 
    $buf = $_[1]; 
  } 
  elsif (@_ > 2) { # named args given
## Get the named args.
(undef, %args) = @_;

## Parse the named args.
foreach (keys %args) {
    if (/^-?binmode$/i) {
        $binmode = $args{$_};
        unless (defined $binmode) {
            $binmode = 0;
        }
    } elsif (/^-?errmode$/i) {
        $errmode = &_parse_errmode($self, $args{$_});
    } elsif (/^-?string$/i) {
        $buf = $args{$_};
    } elsif (/^-?telnetmode$/i) {
        $telnetmode = $args{$_};
        unless (defined $telnetmode) {
            $telnetmode = 0;
        }
    } elsif (/^-?timeout$/i) {
        $timeout = &_parse_timeout($self, $args{$_});
        $is_timeout_arg = 1;
    } else {
        &_croak($self, "bad named parameter \"$_\" given ",
            "to \". ref($self) . ":put()\";)
    }
}

## If any args given, override corresponding instance data.
local $s->{bin_mode} = $binmode
if defined $binmode;
local $s->{errormode} = $errmode
if defined $errmode;
local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;
local $s->{time_out} = $timeout
if defined $is_timeout_arg;

## Check for errors.
return $self->error("write error: filehandle isn't open")
unless $s->{opened};
## Log the output if requested.

```perl
if ($s->{outputlog}) {
    &_log_print($s->{outputlog}, $buf);
}
```

## Convert native newlines to CR LF.

```perl
if (!$s->{bin_mode}) {
    $buf =~ s(\n)(\015\012)g;
}
```

## Escape TELNET IAC and also CR not followed by LF.

```perl
if ($s->{telnet_mode}) {
    $buf =~ s(\377)(\377\377)g;
    &_escape_cr($buf);
}
```

&_put($self, \$buf, "print");

} # end sub put

## Make rs() synonymous input_record_separator().

*rs = \&input_record_separator;

sub suboption_callback {
    my ($self, $callback) = @_; 
    my (
        $prev,
        $s,
    );

    $s = *$self->{net_telnet};
    $prev = $s->{subopt_cback};

    if (@_ >= 2) {
        unless (defined $callback and ref($callback) eq "CODE") {
            &_carp($self,"ignoring Suboption_callback argument because it's ",
            "not a code ref");
            $callback = $prev;
        }
    }

    $s->{subopt_cback} = $callback;
}

$s->{subopt_cback} = $callback;

} # end sub suboption_callback
sub telnetmode {
    my ($self, $mode) = @_;  
    my (
        $prev,  
        $s,  
    );

    $s = *$self->{net_telnet};  
    $prev = $s->{telnet_mode};

    if (@_ >= 2) {
        unless (defined $mode) {
            $mode = 0;
        }
    }

    $s->{telnet_mode} = $mode;
}

sub timed_out {
    my ($self, $value) = @_;  
    my (
        $prev,  
        $s,  
    );

    $s = *$self->{net_telnet};  
    $prev = $s->{timedout};

    if (@_ >= 2) {
        unless (defined $value) {
            $value = "";
        }
    }

    $s->{timedout} = $value;
}

sub timeout {
    my ($self, $timeout) = @_;  
    my (
        $prev,  
    );

    $s = *$self->{net_telnet};  
    $prev = $s->{timeout};

    if (@_ >= 2) {
        unless (defined $timeout) {
            $timeout = "";
        }
    }

    $s->{timeout} = $timeout;
}
$s,$
);

$s = *$self->{net_telnet};
$prev = $s->{time_out};

if (@_ >= 2) {
$s->{time_out} = &_parse_timeout($self, $timeout);
}

$prev;
} # end sub timeout

sub waitfor {
    my ($self, @args) = @_; 
    my ( $arg, $binmode, $endtime, $errmode, $len, $match, $match_op, $pos, $prematch, $s, $search, $search_cond, $telnetmode, $timeout, @match_cond, @match_ops, @search_cond, @warns, );
    local $_;
    
    ## Init.
    $s = *$self->{net_telnet};
    $s->{timedout} = '';
    return if $s->{eofile};
    return unless @args;
    $timeout = $s->{time_out};
    
    ## Code template used to build string match conditional.
    ## Values between array elements must be supplied later.
    
    ## Code template used to build string match conditional.
    ## Values between array elements must be supplied later.
@string_cond =
('if (($pos = index $s->{buf}, ', ') > -1) {
$len = ', ';
$prematch = substr $s->{buf}, 0, $pos;
$match = substr $s->{buf}, $pos, $len;
substr($s->{buf}, 0, $pos + $len) = "";
last;
}');
## Code template used to build pattern match conditional.
## Values between array elements must be supplied later.
@match_cond =
('if ($s->{buf} =~ ', ') {
$prematch = $';
$match = $&;
substr($s->{buf}, 0, length($') + length($&)) = "";
last;
}');
## Parse args.
if (@_ == 2) { # one positional arg given
$arg = $_[1];
## Fill in the blanks in the code template.
push @match_ops, $arg;
push @search_cond, join("", $match_cond[0], $arg, $match_cond[1]);
}
elsif (@_ > 2) { # named args given
## Parse the named args.
while (($_, $arg) = splice @args, 0, 2) {
if (/^-?binmode$/i) {
$binmode = $arg;
unless (defined $binmode) {
$binmode = 0;
}
}
elsif (/^-?errmode$/i) {
$errmode = &_parse_errmode($self, $arg);
}
elsif (/^-?match$/i) {
## Fill in the blanks in the code template.
push @match_ops, $arg;
push @search_cond, join("",
$match_cond[0], $arg, $match_cond[1]);
}
elsif (/^-?string$/i) {
## Fill in the blanks in the code template.
$arg =~ s/'/\\'/g; # quote ticks

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push @search_cond, join("", $string_cond[0], "," , $arg", 
$string_cond[1], length($arg), $string_cond[2]);

elsif ( /^-?telnetmode$/i ) {
$telnetmode = $arg;
unless ( defined $telnetmode ) {
    $telnetmode = 0;
}
}
elsif ( /^-?timeout$/i ) {
$timeout = &_parse_timeout($self, $arg);
}
else {
    &_croak($self, "bad named parameter \"$_\" given " .
        "to" . ref($self) . "::waitfor()\";
    }
}

## If any args given, override corresponding instance data.
local $s->{errormode} = $errmode
if defined $errmode;
local $s->{bin_mode} = $binmode
if defined $binmode;
local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;

## Check for bad match operator argument.
foreach $match_op (@match_ops) {
    return $self->error("missing opening delimiter of match operator ",
        "in argument \"$match_op\" given to ",
        ref($self) . "::waitfor()\"
    unless $match_op =~ m( \s*/ ) or $match_op =~ m( \s*m \s*\W );
}

## Construct conditional to check for requested string and pattern matches.
## Turn subsequent "if"s into "elsif".
$search_cond = join "\n	els", @search_cond;

## Construct loop to fill buffer until string/pattern, timeout, or eof.
$search = join "",
    while (1) \n      $_,
    $search_cond, ' 
  &_fillbuf($self, $s, $endtime)
  or do {
    last if $s->{timedout};
$self->close;
lstate;
};
};

## Set wall time when we timeout.
$endtime = &_endtime($timeout);

## Run the loop.
{  
local $^W = 1;
local $SIG{"__WARN__"} = sub { push @warns, @_ };  
local $s->{errormode} = "return";
$s->{errormsg} = "";
eval $search;
}

## Check for failure.
return $self->error("pattern match timed-out") if $s->{timedout};  
return $self->error($s->{errormsg}) if $s->{errormsg} ne "";
return $self->error("pattern match read eof") if $s->{eofile};

## Check for Perl syntax errors or warnings.
if ($@ or @warns) {  
foreach $match_op (@match_ops) {  
  &_match_check($self, $match_op)
or return;
  }
return $self->error($@) if $@;
return $self->error(@warns) if @warns;
  }

wantarray ? ($prematch, $match) : 1;
} # end sub waitfor

################################################ Private Subroutines ################################################

sub _append_lineno {  
my ($obj, @msgs) = @_;  
my (  
$file,  
$line,  
$pkg,
);

## Find the caller that's not in object's class or one of its base classes.
(pkg, file, line) = &_user_caller(obj);
join("", @msgs, " at ", file, " line ", line, "un");
} # end sub _append_lineno

sub _carp {
    warn &_append_lineno(
} # end sub _carp

sub _croak {
    die &_append_lineno(
} # end sub _croak

sub _endtime {
    my (interval) = 
        ## Compute wall time when timeout occurs.
        if (defined interval) {
            if (interval >= ^T) {  # it's already an absolute time
                return interval;
            } elsif (interval > 0) {  # it's relative to the current time
                return int(time + 1.5 + interval);
            } else {  # it's a one time poll
                return 0;
            }
        } else {  # there's no timeout
            return undef;
        }
    } # end sub _endtime

sub _escape_cr {
    my (string) = 
        ## Convert all CR (not followed by LF) to CR NULL.
        substr($string, $pos + 1, 1) = "\015\000"
unless $nextchar eq "012";

$pos++;
}

1;
} # end sub _escape_cr

sub _fillbuf {
   my ($self, $s, $endtime) = @_;
   my ($msg,
   $nfound,
   $nread,
   $pushback_len,
   $read_pos,
   $ready,
   $timed_out,
   $timeout,
   $unparsed_pos,
    );

   ## If error from last read not yet reported then do it now.
   if ($s->{pending_errormsg}) {
      $msg = $s->{pending_errormsg};
      $s->{pending_errormsg} = "";
      return $self->error($msg);
   } return unless $s->{opened};

   while (1) {
      ## Maximum buffer size exceeded?
      return $self->error("maximum input buffer length exceeded: ",
         "$s->{maxbufsize} bytes") unless length($s->{buf}) <= $s->{maxbufsize};

      ## Determine how long to wait for input ready.
      ($timed_out, $timeout) = &_timeout_interval($endtime);
      if ($timed_out) {
         $s->{timedout} = 1;
         return $self->error("read timed-out");
      }

      ## Wait for input ready.
      $nfound = select $ready=$s->{fdmask}, "", "", $timeout;

## Handle any errors while waiting.

if (!defined $nfound or $nfound <= 0) {  # input not ready
    if (defined $nfound and $nfound == 0) {  # timed-out
        $s->{timedout} = 1;
        return $self->error("read timed-out");
    } else {  # error waiting for input ready
        next if $! =~ /^interrupted/i;
    }
}

$s->{opened} = ";
return $self->error("read error: $!");
}

## Append to buffer any partially processed telnet or CR sequence.

$pushback_len = length $s->{pushback_buf};
if ($pushback_len) {
    $s->{buf} .= $s->{pushback_buf};
    $s->{pushback_buf} = "";
}

## Read the waiting data.

$read_pos = length $s->{buf};
$unparsed_pos = $read_pos - $pushback_len;
nread = sysread $self, $s->{buf}, $s->{blksize}, $read_pos;

## Handle any read errors.

if (!defined $nread) {  # read failed
    next if $! =~ /^interrupted/i;  # restart interrupted syscall
    $s->{opened} = ";
    return $self->error("read error: $!");
}

## Handle eof.

if ($nread == 0) {  # eof read
    $s->{opened} = "";
    return;
}

## Display network traffic if requested.

if ($s->{dumplog}) {
    &_log_dump(<', $s->{dumplog}, \\
$s->{buf}, $read_pos);
}

## Process any telnet commands in the data stream.

if ($s->{telnet_mode} and index($s->{buf},"\377",$unparsed_pos) > -1) {
    &_interpret_tcmd($self, $s, $unparsed_pos);
}
## Process any carriage-return sequences in the data stream.
&_interpret_cr($s, $unparsed_pos);

## Read again if all chars read were consumed as telnet cmds.
next if $unparsed_pos >= length $s->{buf};

## Log the input if requested.
if ($s->{inputlog}) {
    &_log_print($s->{inputlog}, substr($s->{buf}, $unparsed_pos));
}

## Save the last line read.
&_save_lastline($s);

## We've successfully read some data into the buffer.
last;
} # end while(1)

1;
} # end sub _fillbuf

sub _flush_opts {
    my ($self) = @_;
    my ($self, $s, $option_chars, $unsent_opts);
    my $s = *$self->{net_telnet};

    ## Get option and clear the output buf.
    $option_chars = $s->{unsent_opts};
    $s->{unsent_opts} = "";

    ## Try to send options without waiting.
    { local $s->{errormode} = "return";
        local $s->{time_out} = 0;
        &_put($self, $option_chars, "telnet option negotiation")
    or do {
        ## Save chars not printed for later.
        substr($option_chars, 0, $self->print_length) = "";
        $s->{unsent_opts} .= $option_chars;
        }
    }

    1;
sub _fname_to_handle {
    my ($self, $fh) = @_;
    my (
        $filename,
    );

    ## Ensure valid input.
    return ""
    unless defined $fh and (ref $fh or length $fh);

    ## Open a new filehandle if input is a filename.
    no strict "refs";
    if (!ref($fh) and !defined(fileno $fh)) {  # fh is a filename
        $filename = $fh;
        $fh = &_new_handle();
        CORE::open $fh, "> $filename"
        or return $self->error("problem creating $filename: $!");
    }

    select((select($fh), $|=1)[$[]]);  # don't buffer writes
    $fh;
} # end sub _fname_to_handle

sub _have_alarm {
    eval {
        local $SIG{'__DIE__'} = "DEFAULT";
        local $SIG{ALRM} = sub { die }; alar
        m 0;
    };

    ! $@;
} # end sub _have_alarm

sub _interpret_cr {
    my ($s, $pos) = @_; my ($nextchar,
    );

    while (($pos = index($s->{buf}, "\015", $pos)) > -1) {
        $nextchar = substr($s->{buf}, $pos + 1, 1);
        if ($nextchar eq "\0") {
            ## Convert CR NULL to CR when in telnet mode.
if ($s->{telnet_mode}) {
    substr($s->{buf}, $pos + 1, 1) = "";
}
} elsif ($nextchar eq "\012") {
    ## Convert CR LF to newline when not in binary mode.
    if (!($s->{bin_mode})) {
        substr($s->{buf}, $pos, 2) = "\n";
    }
} elsif (!length($nextchar) and ($s->{telnet_mode} or !($s->{bin_mode}))) {
    ## Save CR in alt buffer for possible CR LF or CR NULL conversion.
    $s->{pushback_buf} .= "\015";
    chop $s->{buf};
}

$pos++;;
} # end sub _interpret_cr

sub _interpret_tcmd {
    my ($self, $s, $offset) = @_;;
    my ( $callback, $endpos, $nextchar, $option, $parameters, $pos, $subcmd, );:
    local $_;;

    ## Parse telnet commands in the data stream.
    $pos = $offset;
    while (($pos = index $s->{buf}, \377, $pos) > -1) { # unprocessed IAC
        $nextchar = substr $s->{buf}, $pos + 1, 1;
        ## Save command if it's only partially read.
        if (!length $nextchar) {
            $s->{pushback_buf} .= \377;
            chop $s->{buf};
            last;
        }
        $s->pushback($nextchar);
        $endpos = $pos - 1;
        $callback->($option, $parameters, $s->{pushback_buf}, $endpos);
    }
    $pos++;
} # end sub _interpret_tcmd
if ($nextchar eq \"\377\") {  # IAC is escaping \"\377\" char
    ## Remove escape char from data stream.
    substr($s->{buf}, $pos, 1) = "";
    $pos++;
}
elsif ($nextchar eq \"\375\" or $nextchar eq \"\373\" or
    $nextchar eq \"\374\" or $nextchar eq \"\376\") {  # opt negotiation
    $option = substr $s->{buf}, $pos + 2, 1;

    ## Save command if it's only partially read.
    if (!length $option) {
        $s->{pushback_buf} .= \"\377\" . $nextchar;
        chop $s->{buf};
        chop $s->{buf};
        last;
    }

    ## Remove command from data stream.
    substr($s->{buf}, $pos, 3) = "";

    ## Handle option negotiation.
    &_negotiate_recv($self, $s, $nextchar, ord($option), $pos);
}
elsif ($nextchar eq \"\372\") {  # start of subnegotiation parameters
    ## Save command if it's only partially read.
    $endpos = index $s->{buf}, \"\360\", $pos;
    if ($endpos == -1) {
        $s->{pushback_buf} .= substr $s->{buf}, $pos;
        chop $s->{buf};
        chop $s->{buf};
        last;
    }

    ## Remove subnegotiation cmd from buffer.
    $subcmd = substr($s->{buf}, $pos, $endpos - $pos + 1);
    substr($s->{buf}, $pos, $endpos - $pos + 1) = "";

    ## Invoke subnegotiation callback.
    if ($s->{subopt_cback} and length($subcmd) >= 5) {
        $option = unpack "C", substr($subcmd, 2, 1);
        if (length($subcmd) >= 6) {
            $parameters = substr $subcmd, 3, length($subcmd) - 5;
        } else {
            $parameters = "";
        }
    }

    $callback = $s->{subopt_cback};
    &$callback($self, $option, $parameters);
else {  # various two char telnet commands
    ## Ignore and remove command from data stream.
    substr($s->{buf}, $pos, 2) = "";
}

## Try to send any waiting option negotiation.
if (length $s->{unsent_opts}) {
    &_flush_opts($self);
}

1;
} # end sub _interpret_tcmd

sub _io_socket_include {
    local $SIG{"__DIE__"} = "DEFAULT";
    eval "require IO::Socket";
} # end sub io_socket_include

sub _log_dump {
    my ($direction, $fh, $data, $offset, $len) = @_;  
    my ($addr, $hexvals, $line, $hexvals);

    $addr = 0;
    $len = length($$data) - $offset
    return 1 if $len <= 0;

    ## Print data in dump format.
    while ($len > 0) {
        ## Convert up to the next 16 chars to hex, padding w/ spaces.
        if ($len >= 16) {
            $line = substr $$data, $offset, 16;
        } else {
            $line = substr $$data, $offset, $len;
        }
        $hexvals = unpack("H*", $line);
        $hexvals .= x (32 - length $hexvals);
## Place in 16 columns, each containing two hex digits.
$hexvals = sprintf("%s %s %s %s  " x 4, unpack("a2" x 16, $hexvals));

## For the ASCII column, change unprintable chars to a period.
$line =~ s/\[000-037,\177-\237]/./g;

## Print the line in dump format.
&_log_dump($fh, printf("%s 0x%5.5lx: %s%s
", $direction, $addr, $hexvals, $line));
$addr += 16;
$offset += 16;
$len -= 16;
}
&_log_dump($fh, "n");
1;
} # end sub _log_dump

sub _log_option {
    my ($fh, $direction, $request, $option) = @_; 
    my (
        $name,
    );
    if ($option >= 0 and $option <= $#Telopts) {
        $name = $Telopts[$option];
    } else {
        $name = $option;
    }
    &_log_print($fh, "$direction $request $name\n");
} # end sub _log_option

sub _log_print {
    my ($fh, $buf) = @_; 
    local $\ = ""; 

    if (ref($fh) and ref($fh) ne "GLOB") { # fh is blessed ref
        $fh->print($buf);
    } else { # fh isn’t blessed ref
        print $fh $buf;
    }
}
sub _match_check {
    my ($self, $code) = @_;  
    my $error;
    my @warns = ();

    ## Use eval to check for syntax errors or warnings.
    {
        local $SIG{"__DIE__"} = "DEFAULT";
        local $SIG{"__WARN__"} = sub { push @warns, @_ };  
        local $^W = 1;
        local $_ = ''; 
        eval "$_ =~ $code;";
    }
    if ($@) {
        ## Remove useless lines numbers from message.
        ($error = $@) =~ s/ at \(eval \d+\) line \d+.?//;
        chomp $error;
        return $self->error("bad match operator: $error");
    }
    elsif (@warns) {
        ## Remove useless lines numbers from message.
        ($error = shift @warns) =~ s/ at \(eval \d+\) line \d+.?//;
        $error =~ s/ while "strict subs" in use//;
        chomp $error;
        return $self->error("bad match operator: $error");
    }

    1;
} # end sub _match_check

sub _negotiate_callback {
    my ($self, $opt, $is_remote, $is_enabled, $was_enabled, $opt_bufpos) = @_;  
    my ($callback, $s);
    local $_;

    ## Keep track of remote echo.
    if ($is_remote and $opt == &TELOPT_ECHO) {  # received WILL or WONT ECHO
        $s = *$self->{net_telnet};
    }
    if ($is_enabled and !$was_enabled) {  # received WILL ECHO
        $s = *$self->{net_telnet};
    }
} # end sub _negotiate_callback
$s->{remote_echo} = 1;
}
elif (!$is_enabled and $was_enabled) {  # received WONT ECHO
    $s->{remote_echo} = "";
}

## Invoke callback, if there is one.
$callback = $self->{option_callback};
if ($callback) {
    $callback($self, $opt, $is_remote,
        $is_enabled, $was_enabled, $opt_bufpos);
}
1;
} # end sub _negotiate_callback

sub _negotiate_recv {
    my ($self, $s, $opt_request, $opt, $opt_bufpos) = @_;

    ## Ensure data structure exists for this option.
    unless (defined $s->{opts}{$opt}) {
        &_set_default_option($s, $opt);
    }

    ## Process the option.
    if ($opt_request eq "\376") {  # DONT
        &_negotiate_recv_disable($self, $s, $opt, "dont", $opt_bufpos,
            $s->{opts}{$opt}{local_enable_ok},
            $s->{opts}{$opt}{local_enabled},
            $s->{opts}{$opt}{local_state});
    } elsif ($opt_request eq "\375") {  # DO
        &_negotiate_recv_enable($self, $s, $opt, "do", $opt_bufpos,
            $s->{opts}{$opt}{remote_enable_ok},
            $s->{opts}{$opt}{remote_enabled},
            $s->{opts}{$opt}{remote_state});
    } elsif ($opt_request eq "\374") {  # WONT
        &_negotiate_recv_disable($self, $s, $opt, "wont", $opt_bufpos,
            $s->{opts}{$opt}{remote_enable_ok},
            $s->{opts}{$opt}{remote_enabled},
            $s->{opts}{$opt}{remote_state});
    } elsif ($opt_request eq "\373") {  # WILL
        &_negotiate_recv_enable($self, $s, $opt, "will", $opt_bufpos,
            $s->{opts}{$opt}{remote_enable_ok},
            $s->{opts}{$opt}{remote_enabled},
            $s->{opts}{$opt}{remote_state});
    }
}
\$s->{opts}\$opt{remote_enabled},
\$s->{opts}\$opt{remote_state});
}
else {  # internal error
die;
}

1;
} # end sub _negotiate_recv

sub _negotiate_recv_disable {
    my ($self, $s, $opt, $opt_request,
        $opt_bufpos, $enable_ok, $is_enabled, $state) = @_;
    my ($ack,$disable_cmd, $enable_cmd, $is_remote, $nak, $was_enabled);
    # What do we use to request enable/disable or respond with ack/nak.
    if ($opt_request eq "wont") {
        $enable_cmd  = "\377\375" . pack("C", $opt);  # do command
        $disable_cmd = "\377\376" . pack("C", $opt);  # dont command
        $is_remote  = 1;
        $ack = "DO";
        $nak = "DONT";
        &_log_option($s->{opt_log}, "RCVD", "WONT", $opt)
    }
    elsif ($opt_request eq "dont") {
        $enable_cmd  = "\377\373" . pack("C", $opt);  # will command
        $disable_cmd = "\377\374" . pack("C", $opt);  # wont command
        $is_remote = ";
        $ack = "WILL";
        $nak = "WONT";
        &_log_option($s->{opt_log}, "RCVD", "DONT", $opt)
    }
    else {  # internal error
die;
    }
}
### Respond to WONT or DONT based on the current negotiation state.

```perl
if ($state eq "no") {  # state is already disabled
    $$state = "no";
}
elseif ($state eq "yes") {  # they're initiating disable
    $$is_enabled = ";
    $$state = "no";

    ## Send positive acknowledgment.
    $s->{unsent_opts} .= $disable_cmd;
    &_log_option($s->{opt_log}, "SENT", $nak, $opt)
        if $s->{opt_log};

    ## Invoke callbacks.
    &_negotiate_callback($self, $opt, $is_remote,
        $$is_enabled, $was_enabled, $opt_bufpos); 
} 
elseif ($state eq "wantno") {  # they sent positive ack
    $$is_enabled = ";
    $$state = "no";

    ## Invoke callback.
    &_negotiate_callback($self, $opt, $is_remote,
        $$is_enabled, $was_enabled, $opt_bufpos); 
} 
elseif ($state eq "wantno opposite") {  # pos ack but we changed our mind
    ## Indicate disabled but now we want to enable.
    $$is_enabled = ";
    $$state = "wantyes";

    ## Send queued request.
    $s->{unsent_opts} .= $enable_cmd;
    &_log_option($s->{opt_log}, "SENT", $ack, $opt)
        if $s->{opt_log};

    ## Invite callback.
    &_negotiate_callback($self, $opt, $is_remote,
        $$is_enabled, $was_enabled, $opt_bufpos); 
} 
elseif ($state eq "wantyes") {  # they sent negative ack
    $$is_enabled = ";
    $$state = "no";

    ## Invite callback.
    &_negotiate_callback($self, $opt, $is_remote,
        $$is_enabled, $was_enabled, $opt_bufpos); 
} 
elseif ($state eq "wantyes opposite") {  # nak but we changed our mind
    $$is_enabled = ";
```
$$\text{state} = \text{"no"};$

## Invoke callback.
&\_negotiate\_callback($self, $opt, $is\_remote,
       $$\text{is\_enabled}, \text{was\_enabled}, \text{opt\_bufpos});
}
} # end sub \_negotiate\_recv\_disable

sub \_negotiate\_recv\_enable {
    my ($self, $s, $opt, $opt\_request,
        $opt\_bufpos, $enable\_ok, $is\_enabled, $state) = @_;
    my ($ack,
        $disable\_cmd,
        $enable\_cmd,
        $is\_remote,
        $nak,
        $was\_enabled,
    );

    ## What we use to send enable/disable request or send ack/nak response.
    if ($opt\_request eq \"will\") {
        $enable\_cmd  = "\377\375" . pack("C", $opt);  # do command
        $disable\_cmd = "\377\376" . pack("C", $opt);  # dont command
        $is\_remote = 1;
        $ack = \"DO\";
        $nak = \"DON\";
    }
    elsif ($opt\_request eq \"do\") {
        $enable\_cmd = "\377\373" . pack("C", $opt);  # will command
        $disable\_cmd = "\377\374" . pack("C", $opt);  # wont command
        $is\_remote = \"\";
        $ack = \"WILL\";
        $nak = \"WONT\";
    }
    &\_log\_option($s->{opt\_log}, \"RCVD\", \"WILL\", $opt)
        if $s->{opt\_log};
    }
    elsif ($opt\_request eq \"do\") {
        $enable\_cmd = "\377\373" . pack("C", $opt);  # will command
        $disable\_cmd = "\377\374" . pack("C", $opt);  # wont command
        $is\_remote = \"\";
        $ack = \"WILL\";
        $nak = \"WONT\";
    }
    &\_log\_option($s->{opt\_log}, \"RCVD\", \"DO\", $opt)
        if $s->{opt\_log};
    }
    else {  # internal error
        die;
    }

    ## Save current enabled state.
    $was\_enabled = $$\text{is\_enabled};
## Respond to WILL or DO based on the current negotiation state.

```perl
if ($state eq "no") {  # they're initiating enable
    if ($enable_ok) {  # we agree they/us should enable
        $$is_enabled = 1;
        $$state = "yes";

        ## Send positive acknowledgment.
        $s->{unsent_opts} = $enable_cmd;
        &_log_option($s->{opt_log}, "SENT", $ack, $opt)
        if $s->{opt_log};

        ## Invoke callbacks.
        &_negotiate_callback($self, $opt, $is_remote,
        $$is_enabled, $was_enabled, $opt_bufpos);
    } else {  # we disagree they/us should enable
        ## Send negative acknowledgment.
        $s->{unsent_opts} = $disable_cmd;
        &_log_option($s->{opt_log}, "SENT", $nak, $opt)
        if $s->{opt_log};
    }
} elsif ($state eq "yes") {  # state is already enabled
} elsif ($state eq "wantno") {  # error: our disable req answered by enable
    $$is_enabled = "";
    $$state = "no";

    ## Invoke callbacks.
    &_negotiate_callback($self, $opt, $is_remote,
    $$is_enabled, $was_enabled, $opt_bufpos);
} elsif ($state eq "wantno opposite") { # err: disable req answerd by enable
    $$is_enabled = 1;
    $$state = "yes";

    ## Invoke callbacks.
    &_negotiate_callback($self, $opt, $is_remote,
    $$is_enabled, $was_enabled, $opt_bufpos);
} elsif ($state eq "wantyes") {  # they sent pos ack
    $$is_enabled = 1;
    $$state = "yes";

    ## Invoke callback.
    &_negotiate_callback($self, $opt, $is_remote,
    $$is_enabled, $was_enabled, $opt_bufpos);
```

elsif ($state eq "wantyes opposite") {  # pos ack but we changed our mind
## Indicate enabled but now we want to disable.
$$is_enabled = 1;
$$state = "wantno";

## Inform other side we changed our mind.
$s->{unsent_opts} .= $disable_cmd;
&_log_option($s->{opt_log}, "SENT", $nak, $opt)
   if $s->{opt_log};

## Invoke callback.
&_negotiate_callback($self, $opt, $is_remote,
       $$is_enabled, $was_enabled, $opt_bufpos);
}

1;
} # end sub _negotiate_recv_enable

sub _new_handle {
    if ($INC{"IO/Handle.pm")} { return IO::Handle->new;
    } else {
        require FileHandle;
        return FileHandle->new;
    } }
} # end sub _new_handle

sub _next_getlines {
    my ($self, $s) = @_; my ($len, $line, $pos, @lines, @lines);

    ## Fill buffer and get first line.
    $line = $self->getline
    or return;
    push @lines, $line;

    ## Extract subsequent lines from buffer.
    while (($pos = index($s->{buf}, $s->{rs})) != -1) {
        $len = $pos + length $s->{rs};
        ## Fill buffer and get first line.
        $line = $self->getline
        or return;
        push @lines, $line;

        ## Extract subsequent lines from buffer.
        while (($pos = index($s->{buf}, $s->{rs})) != -1) {
            $len = $pos + length $s->{rs};
            ## Fill buffer and get first line.
            $line = $self->getline
            or return;
            push @lines, $line;

            ## Extract subsequent lines from buffer.
            while (($pos = index($s->{buf}, $s->{rs})) != -1) {
                $len = $pos + length $s->{rs};
}
push @lines, substr($s->{buf}, 0, $len);
substr($s->{buf}, 0, $len) = "";
}

@lines;
} # end sub _next_getlines

sub _opt_accept {
    my ($self, @args) = @_;
    my ($arg, $option, $s, $s);

    ## Init.
    $s = *$self->{net_telnet};

    foreach $arg (@args) {
    ## Ensure data structure defined for this option.
    $option = $arg->{option};
    if (!defined $s->{opts}{$option}) {
        &_set_default_option($s, $option);
    }

    ## Save whether we'll accept or reject this option.
    if ($arg->{is_remote}) {
        $s->{opts}{$option}{remote_enable_ok} = $arg->{is_enable};
    } else {
        $s->{opts}{$option}{local_enable_ok} = $arg->{is_enable};
    }
    }

    1;
} # end sub _opt_accept

sub _optimal_blksize {
    my ($blksize) = @_; local $^W = '';  # avoid non-numeric warning for ms-windows blksize of ""
    return 8192 unless defined $blksize and $blksize >= 1 and $blksize <= 1_048_576;

    $blksize;
}
} # end sub _optimal_blksize

sub _parse_cmd_remove_mode {
my ($self, $mode) = @_;
if (!defined $mode) {
$mode = 0;
}
elsif ($mode =~ /^\s*auto\s*$/i) {
$mode = "auto";
}
elsif ($mode !~ /^\d+$/) {
&_carp($self, "ignoring bad Cmd_remove_mode " .
"argument \"$mode\": it's not \"auto\" or a " .
"non-negative integer");
$mode = *$self->{net_telnet}{cmd_rm_mode};
}
$mode;
} # end sub _parse_cmd_remove_mode

sub _parse_errmode {
my ($self, $errmode) = @_;
## Set the error mode.
if (!defined $errmode) {
&_carp($self, "ignoring undefined Errmode argument");
$errmode = *$self->{net_telnet}{errormode};
}
elsif ($errmode =~ /^\s*return\s*$/i) {
$errmode = "return";
}
elsif ($errmode =~ /^\s*die\s*$/i) {
$errmode = "die";
}
elsif (ref($errmode) eq "CODE") {
}
elsif (ref($errmode) eq "ARRAY") {
unless (ref($errmode->[0]) eq "CODE") {
&_carp($self, "ignoring bad Errmode argument: " .
"first list item isn't a code ref");
$errmode = *$self->{net_telnet}{errormode};
}
}
else {
&_carp($self, "ignoring bad Errmode argument \"$errmode\"");

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$errmode = *$self->{net_telnet}{errormode};

$errmode;
} # end sub _parse_errmode

sub _parse_input_record_separator {
    my ($self, $rs) = @_;

    unless (defined $rs and length $rs) {
        &_carp($self, "ignoring null Input_record_separator argument");
        $rs = *$self->{net_telnet}{rs};
    }

    $rs;
} # end sub _parse_input_record_separator

sub _parse_prompt {
    my ($self, $prompt) = @_;

    unless (defined $prompt) {
        $prompt = "";
    }

    unless ($prompt =~ m(\s*/) or $prompt =~ m(\s*m\s*\W)) {
        &_carp($self, "ignoring bad Prompt argument "$prompt": missing opening delimiter of match operator");
        $prompt = *$self->{net_telnet}{cmd_prompt};
    }

    $prompt;
} # end sub _parse_prompt

sub _parse_timeout {
    my ($self, $timeout) = @_;

    ## Ensure valid timeout.
    if (defined $timeout) {
        ## Test for non-numeric or negative values.
        eval {
            local $SIG{"_DIE_"} = "DEFAULT";
            local $SIG{"_WARN_"} = sub { die "non-numeric\n"};
            local $^W = 1;
            $timeout *= 1;
        };
    }
if ($@) { # timeout arg is non-numeric
    &_carp($self,
        "ignoring non-numeric Timeout argument \"$timeout\" ");
    $timeout = *$self->{net_telnet}{time_out};
} else if ($timeout < 0) { # timeout arg is negative
    &_carp($self, "ignoring negative Timeout argument \"$timeout\" ");
    $timeout = *$self->{net_telnet}{time_out};
}

$timeout;
} # end sub _parse_timeout

sub _put {
    my ($self, $buf, $subname) = @_;
    my ( $endtime, $len, $nfound, $nwrote, $offset, $ready, $s, $timed_out, $timeout, $zero_wrote_count, );

    ## Init.
    $s = *$self->{net_telnet};
    $s->{num_wrote} = 0;
    $zero_wrote_count = 0;
    $offset = 0;
    $len = length $$buf;
    $endtime = &_endtime($s->{time_out});

    return $self->error("write error: filehandle isn't open")
    unless $s->{opened};

    ## Try to send any waiting option negotiation.
    if (length $s->{unsent_opts}) {
        &_flush_opts($self);
    }

    ## Write until all data blocks written.
    while ($len) {

## Determine how long to wait for output ready.

($timed_out, $timeout) = &_timeout_interval($endtime);
if ($timed_out) {
  $s->{timedout} = 1;
  return $self->error("$subname timed-out");
}

## Wait for output ready.

$nfound = select '', $ready=$s->{fdmask}, '', $timeout;

## Handle any errors while waiting.

if (!defined $nfound or $nfound <= 0) {  # output not ready
  if (defined $nfound and $nfound == 0) {  # timed-out
    $s->{timedout} = 1;
    return $self->error("$subname timed-out");
  } else {  # error waiting for output ready
    next if $! =~ /^interrupted/i;
  }
}

## Write the data.

$nwrote = syswrite $self, $$buf, $len, $offset;

## Handle any write errors.

if (!defined $nwrote) {  # write failed
  next if $! =~ /^interrupted/i;  # restart interrupted syscall

  $s->{opened} = ";
  return $self->error("write error: $! ");
  } elsif ($nwrote == 0) {  # zero chars written
    ## Try ten more times to write the data.
    if ($zero_wrote_count++ <= 10) {
      &_sleep(0.01);
      next;
    } else {
      $s->{opened} = ";
      return $self->error("write error: zero length write: $! ");
    }
}

## Display network traffic if requested.

if ($s->{dumplog}) {
  &_log_dump(‘>', $s->{dumplog}, $buf, $offset, $nwrote);
  }
sub _qualify_fh {
    my ($obj, $name) = @_;
    my ($user_class,
        );
    local $_;

    ## Get user's package name.
    ($user_class) = &_user_caller($obj);

    ## Ensure name is qualified with a package name.
    $name = qualify($name, $user_class);

    ## If it's not already, make it a typeglob ref.
    if (!ref $name) {
        no strict;
        local $^W = 0;

        $name =~ s/\*/\*/g;
        $name = eval "\$name";
        return unless ref $name;
    }

    $name;
} # end sub _qualify_fh

sub _reset_options {
    my ($opts) = @_;
    my ($opt,
        );

    foreach $opt (keys %$opts) {
        $opts->{$opt}{remote_enabled} = "";
        $opts->{$opt}{remote_state} = "no";
    }
$opts->{$opt}{local_enabled} = '';  
$opts->{$opt}{local_state} = "no";
}
1;
} # end sub _reset_options

sub _save_lastline {
    my ($s) = @_;  
    my ($firstpos,  
        $lastpos,  
        $len_w_sep,  
        $len_wo_sep,  
        $offset);
    my $rs = "\n";

    if (($lastpos = rindex $s->{buf}, $rs) > -1) {  # eol found
        while (1) {
            # Find beginning of line.
            $firstpos = rindex $s->{buf}, $rs, $lastpos - 1;
            if ($firstpos == -1) {
                $offset = 0;
            } else {
                $offset = $firstpos + length $rs;
            }

            # Determine length of line with and without separator.
            $len_wo_sep = $lastpos - $offset;
            $len_w_sep = $len_wo_sep + length $rs;

            # Save line if it's not blank.
            if (substr($s->{buf}, $offset, $len_wo_sep)  
                !~ /\s*$/) {
                $s->{$last_line} = substr($s->{buf},  
                    $offset,  
                    $len_w_sep);
                last;
            }

            last if $firstpos == -1;

            $lastpos = $firstpos;
        }
    }
}
sub _set_default_option {
    my ($s, $option) = @_;

    $s->{opts}->{$option} = {
        remote_enabled => '',
        remote_state => "no",
        remote_enable_ok => '',
        local_enabled => '',
        local_state => "no",
        local_enable_ok => '',
    };
} # end sub _set_default_option

sub _sleep {
    my ($secs) = @_;  
    my $bitmask = ''; 
    local *SOCK; 

    socket SOCK, AF_INET, SOCK_STREAM, 0; 
    vec($bitmask, fileno(SOCK), 1) = 1; 
    select $bitmask, "", "", $secs; 
    CORE::close SOCK; 

    1;  
} # end sub _sleep

sub _timeout_interval {
    my ($endtime) = @_; 
    my ($timeout, $sendtime) = @_; 

    $timeout, 

    ## Return timed-out boolean and timeout interval. 
    if (defined $endtime) { 
        ## Is it a one-time poll. 
        return ('', 0) if $endtime == 0; 

        ## Calculate the timeout interval. 
        $timeout = $endtime - time;
    )

}
## Did we already timeout.
return (1, 0) unless $timeout > 0;

return ('', $timeout);
}  
else {  # there is no timeout
return ('', undef);
}

} # end sub _timeout_interval

sub _user_caller {
  my ($obj) = @_;  
  my ($class,
      $curr_pkg,
      $file,
      $i,
      $line,
      $pkg,
      %isa,
      @isa),
  local $_;  

  ## Create a boolean hash to test for isa. Make sure current
  ## package and the object's class are members.
  $class = ref $obj;
  @isa = eval "@{$class}::ISA";
  push @isa, $class;
  ($curr_pkg) = caller 1;
  push @isa, $curr_pkg;
  %isa = map { $._ => 1 } @isa;

  ## Search back in call frames for a package that's not in isa.
  $i = 1;
  while (($pkg, $file, $line) = caller ++$i) {
    next if $isa{$pkg};
    return ($pkg, $file, $line);
  }  
  ## If not found, choose outer most call frame.
  ($pkg, $file, $line) = caller --$i;
  return ($pkg, $file, $line);
}

} # end sub _user_caller
sub _verify_telopt_arg {
    my ($self, $option, $argname) = @_;

    ## If provided, use argument name in error message.
    if (defined $argname) {
        $argname = "for arg $argname";
    } else {
        $argname = "";
    }

    ## Ensure telnet option is a non-negative integer.
    eval {
        local $SIG{"_DIE_"} = "DEFAULT";
        local $SIG{"_WARN_"} = sub { die "non-numeric\n" ];
        local $^W = 1;
        $option = abs(int $option);
    };
    return $self->error("bad telnet option $argname: non-numeric") if $@;

    return $self->error("bad telnet option $argname: option > 255") unless $option <= 255;

    $option;
} # end sub _verify_telopt_arg

######################## Exported Constants ##########################
sub TELNET_IAC () {255}; # interpret as command:
sub TELNET_DONT () {254}; # you are not to use option
sub TELNET_DO () {253}; # please, you use option
sub TELNET_WONT () {252}; # I won't use option
sub TELNET_WILL () {251}; # I will use option
sub TELNET_SB () {250}; # interpret as subnegotiation
sub TELNET_GA () {249}; # you may reverse the line
sub TELNET_EL () {248}; # erase the current line
sub TELNET_EC () {247}; # erase the current character
sub TELNET_AYT () {246}; # are you there
sub TELNET_AO () {245}; # abort output--but let prog finish
sub TELNET_IP () {244}; # interrupt process--permanently
sub TELNET_BREAK () {243}; # break
sub TELNET_DM () {242}; # data mark--for connect. cleaning
sub TELNET_NOP () {241}; # nop
sub TELNET_SE () {240}; # end sub negotiation
sub TELNET_EOR () {239}; # end of record (transparent mode)
sub TELNET_ABORT () {238}; # Abort process
sub TELNET_SUSP () {237}; # Suspend process
sub TELNET_EOF () {236}; # End of file
sub TELNET_SYNCH () {242}; # for telfunc calls
sub TELOPT_BINARY () {0}; # Binary Transmission
sub TELOPT_ECHO () {1}; # Echo
sub TELOPT_RCP () {2}; # Reconnection
sub TELOPT_SGA () {3}; # Suppress Go Ahead
sub TELOPT_NAMS () {4}; # Approx Message Size Negotiation
sub TELOPT_STATUS () {5}; # Status
sub TELOPT_TM () {6}; # Timing Mark
sub TELOPT_RCTE () {7}; # Remote Controlled Trans and Echo
sub TELOPT_NAOL () {8}; # Output Line Width
sub TELOPT_NAOP () {9}; # Output Page Size
sub TELOPT_NAOCRD () {10}; # Output Carriage-Return Disposition
sub TELOPT_NAOHTS () {11}; # Output Horizontal Tab Stops
sub TELOPT_NAOHTD () {12}; # Output Horizontal Tab Disposition
sub TELOPT_NAOFFD () {13}; # Output Formfeed Disposition
sub TELOPT_NAOVTS () {14}; # Output Vertical Tabstops
sub TELOPT_NAOVTD () {15}; # Output Vertical Tab Disposition
sub TELOPT_NAOLFD () {16}; # Output Linefeed Disposition
sub TELOPT_XASCII () {17}; # Extended ASCII
sub TELOPT_LOGOUT () {18}; # Logout
sub TELOPT_BM () {19}; # Byte Macro
sub TELOPT_DET () {20}; # Data Entry Terminal
sub TELOPT_SUPDUP () {21}; # SUPDUP
sub TELOPT_SUPDUPOUTPUT () {22}; # SUPDUP Output
sub TELOPT SNDLOC () {23}; # Send Location
sub TELOPT_TTYPE () {24}; # Terminal Type
sub TELOPT_EOR () {25}; # End of Record
sub TELOPT_TUID () {26}; # TACACS User Identification
sub TELOPT_OUTMRK () {27}; # Output Marking
sub TELOPT_TTYLOC () {28}; # Terminal Location Number
sub TELOPT_3270REGIME () {29}; # Telnet 3270 Regime
sub TELOPT_X3PAD () {30}; # X.3 PAD
sub TELOPT_NAWS () {31}; # Negotiate About Window Size
sub TELOPT_TSPEED () {32}; # Terminal Speed
sub TELOPT_LFLOW () {33}; # Remote Flow Control
sub TELOPT_LINEMODE () {34}; # Linemode
sub TELOPT_XDISPLOC () {35}; # X Display Location
sub TELOPT_OLD_ENVIRON () {36}; # Environment Option
sub TELOPT_AUTHENTICATION () {37}; # Authentication Option
sub TELOPT_ENCRYPT () {38}; # Encryption Option
sub TELOPT_NEW_ENVIRON () {39}; # New Environment Option
sub TELOPT_EXOPL () {255}; # Extended-Options-List
Net::Telnet - interact with TELNET port or other TCP ports

Net::Telnet allows you to make client connections to a TCP port and do network I/O, especially to a port using the TELNET protocol. Simple I/O methods such as print, get, and getline are provided. More sophisticated interactive features are provided because connecting to a TELNET port ultimately means communicating with a program designed for human interaction. These interactive features include the ability to specify a time-out and to wait for patterns to appear in the input stream, such as the prompt from a shell.

Other reasons to use this module than strictly with a TELNET port are:

- You're not familiar with sockets and you want a simple way to make client connections to TCP services.
- You want to be able to specify your own time-out while connecting, reading, or writing.
You're communicating with an interactive program at the other end of
some socket or pipe and you want to wait for certain patterns to
appear.

Here's an example that prints who's logged-on to the remote host
sparky. In addition to a username and password, you must also know
the user's shell prompt, which for this example is C<bash$>

use Net::Telnet ();
$t = new Net::Telnet (Timeout => 10,
    Prompt => '/bash$ $/');
$t->open("sparky");
$t->login($username, $passwd);
@lines = $t->cmd("who");
print @lines;

More examples are in the B<EXAMPLES> section below.

Usage questions should be directed to the Usenet newsgroup
comp.lang.perl.modules.

Contact me, Jay Rogers <jay@rgrs.com>, if you find any bugs or have
suggestions for improvement.

What To Know Before Using

All output is flushed while all input is buffered. Each object
contains its own input buffer.

The output record separator for C<print()> and C<cmd()> is set to
C<"\n"> by default, so that you don't have to append all your commands
with a newline. To avoid printing a trailing C<"\n"> use C<put()> or
set the I<output_record_separator> to C<"">.

The methods C<login()> and C<cmd()> use the I<prompt> setting in the
object to determine when a login or remote command is complete. Those
methods will fail with a time-out if you don't set the prompt correctly.

=item *

Use a combination of C<print()> and C<waitFor()> as an alternative to C<login()> or C<cmd()> when they don't do what you want.

=item *

Errors such as timing-out are handled according to the error mode action. The default action is to print an error message to standard error and have the program die. See the C<errmode()> method for more information.

=item *

When constructing the match operator argument for C<prompt()> or C<waitFor()> , always use single quotes instead of double quotes to avoid unexpected backslash interpretation (e.g. C+'</bash$ $/>'). If you're constructing a DOS like file path, you'll need to use four backslashes to represent one (e.g. C+'</c:\\users\\billE<gt>$i/>').

Of course don't forget about regexp metacharacters like C<\>, C<\{>, or C<\$>. You'll only need a single backslash to quote them. The anchor metacharacters C<^> and C<$> refer to positions in the input buffer. To avoid matching characters read that look like a prompt, it's a good idea to end your prompt pattern with the C<$> anchor. That way the prompt will only match if it's the last thing read.

=item *

In the input stream, each sequence of I<carriage return> and I<line feed> (i.e. C+'</015012'> or CR LF) is converted to C+'</n'>. In the output stream, each occurrence of C+'</n'> is converted to a sequence of CR LF. See C<binmode()> to change the behavior. TCP protocols typically use the ASCII sequence, carriage return and line feed to designate a newline.

=item *

Timing-out while making a connection is disabled for machines that don't support the C<alarm()> function. Most notably these include MS-Windows machines.

=item *

You'll need to be running at least Perl version 5.002 to use this
module. This module does not require any libraries that don't already come with a standard Perl distribution.

If you have the IO:: libraries installed (they come standard with perl5.004 and later) then IO::Socket::INET is used as a base class, otherwise FileHandle is used.

=item *

Contact me, Jay Rogers <jay@rgrs.com>, if you find any bugs or have suggestions for improvement.

=back

=head2 Debugging

The typical usage bug causes a time-out error because you've made incorrect assumptions about what the remote side actually sends. The easiest way to reconcile what the remote side sends with your expectations is to use C<input_log()> or C<dump_log()>.

C<dump_log()> allows you to see the data being sent from the remote side before any translation is done, while C<input_log()> shows you the results after translation. The translation includes converting end of line characters, removing and responding to TELNET protocol commands in the data stream.

=head2 Style of Named Parameters

Two different styles of named parameters are supported. This document only shows the IO:: style:

Net::Telnet->new(Timeout => 20);

however the dash-option style is also allowed:

Net::Telnet->new(-timeout => 20);

=head2 Connecting to a Remote MS-Windows Machine

By default MS-Windows doesn't come with a TELNET server. However third party TELNET servers are available. Unfortunately many of these servers falsely claim to be a TELNET server. This is especially true of the so-called "Microsoft Telnet Server" that comes installed with some newer versions MS-Windows.

When a TELNET server first accepts a connection, it must use the ASCII control characters carriage-return and line-feed to start a new line
(see RFC854). A server like the "Microsoft Telnet Server" that doesn't do this, isn't a TELNET server. These servers send ANSI terminal escape sequences to position to a column on a subsequent line and to even position while writing characters that are adjacent to each other. Worse, when sending output these servers resend previously sent command output in a misguided attempt to display an entire terminal screen.

Connecting Net::Telnet to one of these false TELNET servers makes your job of parsing command output very difficult. It's better to replace a false TELNET server with a real TELNET server. The better TELNET servers for MS-Windows allow you to avoid the ANSI escapes by turning off something some of them call I<console mode>.

=head1 METHODS

In the calling sequences below, square brackets B<[]> represent optional parameters.

=over 4

=item B<new> - create a new Net::Telnet object

$objc = new Net::Telnet ([$host]);

$objc = new Net::Telnet ([Binmode    => $mode,]
  [Cmd_remove_mode => $mode,]
  [Dump_Log => $filename,]
  [Errmode => $errmode,]
  [Fhopen => $filehandle,]
  [Host => $host,]
  [Input_log => $file,]
  [Input_record_separator => $chars,]
  [Option_log => $file,]
  [Ors => $chars,]
  [Output_log => $file,]
  [Output_record_separator => $chars,]
  [Port => $port,]
  [Prompt => $matchop,]
  [Rs => $chars,]
  [Telnetmode => $mode,]
  [Timeout => $secs,]);

This is the constructor for Net::Telnet objects. A new object is returned on success, the error mode action is performed on failure - see C<errmode()> . The optional arguments are short-cuts to methods of the same name.
If the \$host argument is given then the object is opened by connecting to TCP \$port on \$host. Also see \$open(). The new object returned is given the following defaults in the absence of corresponding named parameters:

- The default \$Host is "localhost"
- The default \$Port is 23
- The default \$Prompt is "/[\$\%\#<gt>] $/"
- The default \$Timeout is 10
- The default \$Errmode is "die"
- The default \$Output_record_separator is 
  Note that \$Ors is synonymous with \$Output_record_separator.
- The default \$Input_record_separator is 
  Note that \$Rs is synonymous with \$Input_record_separator.
- The default \$Binmode is 0, which means do newline translation.
- The default \$Telnetmode is 1, which means respond to TELNET commands in the data stream.
The default I<Cmd_remove_mode> is C<"auto">.

The defaults for I<Dump_log>, I<Input_log>, I<Option_log>, and I<Output_log> are C<"">, which means that logging is turned-off.

=item

=back
=back
=over 4
=item B<binmode> - toggle newline translation

$mode = $obj->binmode;
$prev = $obj->binmode($mode);

This method controls whether or not sequences of carriage returns and line feeds (CR LF or more specifically C<"\015\012">) are translated. By default they are translated (i.e. binmode is C<0>).

If no argument is given, the current mode is returned.
If I<$mode> is C<1> then binmode is I<on> and newline translation is not done.
If I<$mode> is C<0> then binmode is I<off> and newline translation is done. In the input stream, each sequence of CR LF is converted to C<"\n"> and in the output stream, each occurrence of C<"\n"> is converted to a sequence of CR LF.

Note that input is always buffered. Changing binmode doesn't effect what's already been read into the buffer. Output is not buffered and changing binmode will have an immediate effect.

=back
=over 4
=item B<break> - send TELNET break character

$ok = $obj->break;
This method sends the TELNET break character. This character is provided because it's a signal outside the ASCII character set which is currently given local meaning within many systems. It's intended to indicate that the Break Key or the Attention Key was hit.

This method returns C<1> on success, or performs the error mode action on failure.

=back

=over 4

=item B<buffer> - scalar reference to object's input buffer

$ref = $obj->buffer;

This method returns a scalar reference to the input buffer for I<$obj>. Data in the input buffer is data that has been read from the remote side but has yet to be read by the user. Modifications to the input buffer are returned by a subsequent read.

=back

=over 4

=item B<buffer_empty> - discard all data in object's input buffer

$obj->buffer_empty;

This method removes all data in the input buffer for I<$obj>.

=back

=over 4

=item B<close> - close object

$ok = $obj->close;

This method closes the socket, file, or pipe associated with the object. It always returns a value of C<1>.

=back
=item B<cmd> - issue command and retrieve output

$ok = $obj->cmd($string);
$ok = $obj->cmd(String  => $string,
    [Output  => $ref,]
    [Cmd_remove_mode => $mode,]
    [Errmode => $mode,]
    [Input_record_separator => $chars,]
    [Ors    => $chars,]
    [Output_record_separator => $chars,]
    [Prompt => $match,]
    [Rs     => $chars,]
    [Timeout => $secs,]);

@output = $obj->cmd($string);
@output = $obj->cmd(String  => $string,
    [Output  => $ref,]
    [Cmd_remove_mode => $mode,]
    [Errmode => $mode,]
    [Input_record_separator => $chars,]
    [Ors    => $chars,]
    [Output_record_separator => $chars,]
    [Prompt => $match,]
    [Rs     => $chars,]
    [Timeout => $secs,]);

This method sends the command I<$string>, and reads the characters
sent back by the command up until and including the matching prompt.
It's assumed that the program to which you're sending is some kind of
command prompting interpreter such as a shell.

The command I<$string> is automatically appended with the
output_record_separator, By default that's C<
"\n">. This is similar
to someone typing a command and hitting the return key. Set the
output_record_separator to change this behavior.

In a scalar context, the characters read from the remote side are
discarded and C<1> is returned on success. On time-out, eof, or other
failures, the error mode action is performed. See C<errmode()>.

In a list context, just the output generated by the command is
returned, one line per element. In other words, all the characters in
between the echoed back command string and the prompt are returned.
If the command happens to return no output, a list containing one
element, the empty string is returned. This is so the list will
indicate true in a boolean context. On time-out, eof, or other
failures, the error mode action is performed. See C<errmode()>.

The characters that matched the prompt may be retrieved using C<last_prompt()>.

Many command interpreters echo back the command sent. In most situations, this method removes the first line returned from the remote side (i.e. the echoed back command). See C<cmd_remove_mode()> for more control over this feature.

Use C<dump_log()> to debug when this method keeps timing-out and you don’t think it should.

Consider using a combination of C<print()> and C<waitfor()> as an alternative to this method when it doesn't do what you want, e.g. the command you send prompts for input.

The I<Output> named parameter provides an alternative method of receiving command output. If you pass a scalar reference, all the output (even if it contains multiple lines) is returned in the referenced scalar. If you pass an array or hash reference, the lines of output are returned in the referenced array or hash. You can use C<input_record_separator()> to change the notion of what separates a line.

Optional named parameters are provided to override the current settings of cmd_remove_mode, errmode, input_record_separator, ors, output_record_separator, prompt, rs, and timeout. Rs is synonymous with input_record_separator and ors is synonymous with output_record_separator.

=back

=over 4

=item B<cmd_remove_mode> - toggle removal of echoed commands

$mode = $obj->cmd_remove_mode;

$prev = $obj->cmd_remove_mode($mode);

This method controls how to deal with echoed back commands in the output returned by cmd(). Typically, when you send a command to the remote side, the first line of output returned is the command echoed back. Use this mode to remove the first line of output normally returned by cmd().
If no argument is given, the current mode is returned.

If I<$mode> is C<0> then the command output returned from cmd() has no lines removed. If I<$mode> is a positive integer, then the first I<$mode> lines of command output are stripped.

By default, I<$mode> is set to C<"auto">. Auto means that whether or not the first line of command output is stripped, depends on whether or not the remote side offered to echo. By default, Net::Telnet always accepts an offer to echo by the remote side. You can change the default to reject such an offer using C<option_accept()>.

A warning is printed to STDERR when attempting to set this attribute to something that's not C<"auto"> or a non-negative integer.

=back

=over 4

=item B<dump_log> - log all I/O in dump format

$fh = $obj->dump_log;

$fh = $obj->dump_log($fh);

$fh = $obj->dump_log($filename);

This method starts or stops dump format logging of all the object's input and output. The dump format shows the blocks read and written in a hexadecimal and printable character format. This method is useful when debugging, however you might want to first try C<input_log()> as it's more readable.

If no argument is given, the current log filehandle is returned. An empty string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned. Otherwise, the argument is assumed to be the name of a file, the file is opened and a filehandle to it is returned. If the file can't be opened for writing, the error mode action is performed.
$eof = $obj->eof;

This method returns C<1> if end of file has been read, otherwise it returns an empty string. Because the input is buffered this isn't the same thing as I<$obj> has closed. In other words I<$obj> can be closed but there still can be stuff in the buffer to be read. Under this condition you can still read but you won't be able to write.

=back

$mode = $obj->errmode;

$prev = $obj->errmode($mode);

This method gets or sets the action used when errors are encountered using the object. The first calling sequence returns the current error mode. The second calling sequence sets it to I<$mode> and returns the previous mode. Valid values for I<$mode> are C<"die"> (the default), C<"return">, a I<coderef>, or an I<arrayref>.

When mode is C<"die"> and an error is encountered using the object, then an error message is printed to standard error and the program dies.

When mode is C<"return"> then the method generating the error places an error message in the object and returns an undefined value in a scalar context and an empty list in list context. The error message may be obtained using C<errmsg()>.

When mode is a I<coderef>, then when an error is encountered I<coderef> is called with the error message as its first argument. Using this mode you may have your own subroutine handle errors. If I<coderef> itself returns then the method generating the error returns undefined or an empty list depending on context.

When mode is an I<arrayref>, the first element of the array must be a I<coderef>. Any elements that follow are the arguments to I<coderef>. When an error is encountered, the I<coderef> is called with its arguments. Using this mode you may have your own subroutine handle errors. If the I<coderef> itself returns then the method generating
the error returns undefined or an empty list depending on context.

A warning is printed to STDERR when attempting to set this attribute to something that's not C<"die">, C<"return">, a I<coderef>, or an I<arrayref> whose first element isn't a I<coderef>.

=back

=over 4

=item B<errmsg> - most recent error message

$msg = $obj->errmsg;

$prev = $obj->errmsg(@msgs);

The first calling sequence returns the error message associated with the object. The empty string is returned if no error has been encountered yet. The second calling sequence sets the error message for the object to the concatenation of I<@msgs> and returns the previous error message. Normally, error messages are set internally by a method when an error is encountered.

=back

=over 4

=item B<error> - perform the error mode action

$obj->error(@msgs);

This method concatenates I<@msgs> into a string and places it in the object as the error message. Also see C<errmsg()>. It then performs the error mode action. Also see C<errmode()>.

If the error mode doesn't cause the program to die, then an undefined value or an empty list is returned depending on the context.

This method is primarily used by this class or a sub-class to perform the user requested action when an error is encountered.

=back

=over 4
=item B<fhopen> - use already open filehandle for I/O

$ok = $obj->fhopen($fh);

This method associates the open filehandle I<$fh> with I<$obj> for further I/O. Filehandle I<$fh> must already be opened.

Suppose you want to use the features of this module to do I/O to something other than a TCP port, for example STDIN or a filehandle opened to read from a process. Instead of opening the object for I/O to a TCP port by using C<open()> or C<new()> call this method instead.

The value C<1> is returned success, the error mode action is performed on failure.

=back

=over 4

=item B<get> - read block of data

$data = $obj->get([Binmode => $mode,]
    [Errmode => $errmode,]
    [Telnetmode => $mode,]
    [Timeout => $secs,]);

This method reads a block of data from the object and returns it along with any buffered data. If no buffered data is available to return, it will wait for data to read using the timeout specified in the object. You can override that timeout using I<$secs>. Also see C<timeout()> . If buffered data is available to return, it also checks for a block of data that can be immediately read.

On eof an undefined value is returned. On time-out or other failures, the error mode action is performed. To distinguish between eof or an error occurring when the error mode is not set to C"die", use C<eof()>.

Optional named parameters are provided to override the current settings of binmode, errmode, telnetmode, and timeout.

=back

=over 4
getline - read next line

```perl
$line = $obj->getline([Binmode => $mode,]
   [Errmode => $errmode,]
   [Input_record_separator => $chars,]
   [Rs => $chars,]
   [Telnetmode => $mode,]
   [Timeout => $secs,]);
```

This method reads and returns the next line of data from the object. You can use `input_record_separator()` to change the notion of what separates a line. The default is `"\n"`. If a line isn't immediately available, this method blocks waiting for a line or a time-out.

On eof an undefined value is returned. On time-out or other failures, the error mode action is performed. To distinguish between eof or an error occurring when the error mode is not set to `"die"`, use `eof()`.

Optional named parameters are provided to override the current settings of binmode, errmode, input_record_separator, rs, telnetmode, and timeout. Rs is synonymous with input_record_separator.

getlines - read next lines

```perl
@lines = $obj->getlines([Binmode => $mode,]
   [Errmode => $errmode,]
   [Input_record_separator => $chars,]
   [Rs => $chars,]
   [Telnetmode => $mode,]
   [Timeout => $secs,]
   [All => $boolean,]);
```

This method reads and returns all the lines of data from the object until end of file is read. You can use `input_record_separator()` to change the notion of what separates a line. The default is `"\n"`. A time-out error occurs if all the lines can't be read within the time-out interval. See `timeout()`.

The behavior of this method was changed in version 3.03. Prior to version 3.03 this method returned just the lines available from the next read. To get that old behavior, use the optional named parameter.
I<$All> and set I<$boolean> to C"" or C<0>.

If only eof is read then an empty list is returned. On time-out or other failures, the error mode action is performed. Use C<eof()> to distinguish between reading only eof or an error occurring when the error mode is not set to C"die".

Optional named parameters are provided to override the current settings of binmode, errmode, input_record_separator, rs, telnetmode, and timeout. Rs is synonymous with input_record_separator.

=back

=over 4

=item B<$host> - name of remote host

$host = $obj->host;

$prev = $obj->host($host);

This method designates the remote host for C<open()>.
With no argument it returns the current host name set in the object. With an argument it sets the current host name to I<$host> and returns the previous host name. You may indicate the remote host using either a hostname or an IP address.

The default value is C"localhost". It may also be set by C<open()> or C<new()>.

=back

=over 4

=item B<input_log> - log all input

$fh = $obj->input_log;

$fh = $obj->input_log($fh);

$fh = $obj->input_log($filename);

This method starts or stops logging of input. This is useful when debugging. Also see C<dump_log()>.
Because most command interpreters echo back commands received, it's likely all your output will also be in this log. Note that input logging occurs after newline
translation. See C<binmode()> for details on newline translation.

If no argument is given, the log filehandle is returned. An empty string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned. Otherwise, the argument is assumed to be the name of a file, the file is opened for logging and a filehandle to it is returned. If the file can't be opened for writing, the error mode action is performed.

=back

=over 4
=item B<input_record_separator> - input line delimiter

$chars = $obj->input_record_separator;

$prev = $obj->input_record_separator($chars);

This method designates the line delimiter for input. It's used with C<getline()>, C<getlines()>, and C<cmd()> to determine lines in the input.

With no argument this method returns the current input record separator set in the object. With an argument it sets the input record separator to I<$chars> and returns the previous value. Note that I<$chars> must have length.

A warning is printed to STDERR when attempting to set this attribute to a string with no length.

=back

=over 4
=item B<last_prompt> - last prompt read

$string = $obj->last_prompt;

$prev = $obj->last_prompt($string);

With no argument this method returns the last prompt read by cmd() or login(). See C<prompt()>. With an argument it sets the last prompt
read to I<$string> and returns the previous value. Normally, only internal methods set the last prompt.

=back

=over 4

=item B<lastline> - last line read

$line = $obj->lastline;

$prev = $obj->lastline($line);

This method retrieves the last line read from the object. This may be a useful error message when the remote side abnormally closes the connection. Typically the remote side will print an error message before closing.

With no argument this method returns the last line read from the object. With an argument it sets the last line read to I<$line> and returns the previous value. Normally, only internal methods set the last line.

=back

=over 4

=item B<login> - perform standard login

$ok = $obj->login($username, $password);

$ok = $obj->login(Name => $username, Password => $password, [Errmode => $mode,], [Prompt => $match,] [Timeout => $secs,]);

This method performs a standard login by waiting for a login prompt and responding with I<$username>, then waiting for the password prompt and responding with I<$password>, and then waiting for the command interpreter prompt. If any of those prompts sent by the remote side don't match what's expected, this method will time-out, unless timeout is turned off.

Login prompt must match either of these case insensitive patterns:
/login[: \]*$/i
/username[: \]*$/i

Password prompt must match this case insensitive pattern:

/password[: \]*$/i

The command interpreter prompt must match the current setting of prompt. See C<prompt()>.

Use C<dump_log()> to debug when this method keeps timing-out and you don't think it should.

Consider using a combination of C<print()> and C<waitfor()> as an alternative to this method when it doesn't do what you want, e.g. the remote host doesn't prompt for a username.

On success, C<1> is returned. On time out, eof, or other failures, the error mode action is performed. See C<errmode()>.

Optional named parameters are provided to override the current settings of errmode, prompt, and timeout.

=back

=over 4

=item B<max_buffer_length> - maximum size of input buffer

$len = $obj->max_buffer_length;

$prev = $obj->max_buffer_length($len);

This method designates the maximum size of the input buffer. An error is generated when a read causes the buffer to exceed this limit. The default value is 1,048,576 bytes (1MB). The input buffer can grow much larger than the block size when you continuously read using C<getline()> or C<waitfor()> and the data stream contains no newlines or matching waitfor patterns.

With no argument, this method returns the current maximum buffer length set in the object. With an argument it sets the maximum buffer length to I<$len> and returns the previous value. Values of I<$len> smaller than 512 will be adjusted to 512.

A warning is printed to STDERR when attempting to set this attribute to something that isn't a positive integer.
=back

=over 4

=item B<ofs> - field separator for print

$chars = $obj->ofs

$prev = $obj->ofs($chars);

This method is synonymous with C<output_field_separator()>.

=back

=over 4

=item B<open> - connect to port on remote host

$ok = $obj->open($host);

$ok = $obj->open([Host => $host,]
                  [Port => $port,]
                  [Errmode => $mode,]
                  [Timeout => $secs,]);

This method opens a TCP connection to I<$port> on I<$host>. If either argument is missing then the current value of C<host()> or C<port()> is used. Optional named parameters are provided to override the current setting of errmode and timeout.

On success C<1> is returned. On time-out or other connection failures, the error mode action is performed. See C<errmode()>.

Time-outs don't work for this method on machines that don't implement SIGALRM - most notably MS-Windows machines. For those machines, an error is returned when the system reaches its own time-out while trying to connect.

A side effect of this method is to reset the alarm interval associated with SIGALRM.
=item B<option_accept> - indicate willingness to accept a TELNET option

```perl
$fh = $obj->option_accept([Do => $telopt,]
  [Dont => $telopt,]
  [Will => $telopt,]
  [Wont => $telopt,]);
```

This method is used to indicate whether to accept or reject an offer to enable a TELNET option made by the remote side. If you're using I<Do> or I<Will> to indicate a willingness to enable, then a notification callback must have already been defined by a prior call to C<option_callback()> . See C<option_callback()> for details on receiving enable/disable notification of a TELNET option.

You can give multiple I<Do>, I<Dont>, I<Will>, or I<Wont> arguments for different TELNET options in the same call to this method.

The following example describes the meaning of the named parameters. A TELNET option, such as C<TELOPT_ECHO> used below, is an integer constant that you can import from Net::Telnet. See the source in file Telnet.pm for the complete list.

```perl
=over 4
=item
I<Do> => C<TELOPT_ECHO>
=over 4
=item
we'll accept an offer to enable the echo option on the local side
=back
=item
I<Dont> => C<TELOPT_ECHO>
=over 4
=item
we'll reject an offer to enable the echo option on the local side
=back
```
I<Will> => C<TELOPT_ECHO> =over 4

we'll accept an offer to enable the echo option on the remote side
=back

I<Wont> => C<TELOPT_ECHO> =over 4

we'll reject an offer to enable the echo option on the remote side
=back
=back
=over 4

Use C<option_send()> to send a request to the remote side to enable or disable a particular TELNET option.

=back

B<option_callback> - define the option negotiation callback

$coderef = $obj->option_callback;

$prev = $obj->option_callback($coderef);

This method defines the callback subroutine that's called when a TELNET option is enabled or disabled. Once defined, the I<option_callback> may not be undefined. However, calling this method with a different I<$coderef> changes it.
A warning is printed to STDERR when attempting to set this attribute to something that isn't a coderef.

Here are the circumstances that invoke I<$coderef>:

=over 4
=item

An option becomes enabled because the remote side requested an enable and C<option_accept()> had been used to arrange that it be accepted.

=item

The remote side arbitrarily decides to disable an option that is currently enabled. Note that Net::Telnet always accepts a request to disable from the remote side.

=item

C<option_send()> was used to send a request to enable or disable an option and the response from the remote side has just been received. Note, that if a request to enable is rejected then I<$coderef> is still invoked even though the option didn't change.

=back
=item

Here are the arguments passed to I<&$coderef>:

&$coderef($obj, $option, $is_remote, $is_enabled, $was_enabled, $buf_position);

=over 4
=item

1. I<$obj> is the Net::Telnet object

=item

2. I<$option> is the TELNET option. Net::Telnet exports constants for the various TELNET options which just equate to an integer.

=item

3. I<$is_remote> is a boolean indicating for which side the option
4. $is_enabled$ is a boolean indicating the option is enabled or disabled

5. $was_enabled$ is a boolean indicating the option was previously enabled or disabled

6. $buf_position$ is an integer indicating the position in the object's input buffer where the option takes effect. See $buffer()$ to access the object's input buffer.

=item
=back
=back

=over 4

=item B<option_log> - log all TELNET options sent or received

$fh = $obj->option_log;

$fh = $obj->option_log($fh);

$fh = $obj->option_log($filename);

This method starts or stops logging of all TELNET options being sent or received. This is useful for debugging when you send options via $option_send()$ or you arrange to accept option requests from the remote side via $option_accept()$. Also see $dump_log()$.

If no argument is given, the log filehandle is returned. An empty string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned. Otherwise, the argument is assumed to be the name of a file, the file is opened for logging and a filehandle to it is returned. If the file can't be opened for writing, the error mode action is performed.
Send TELNET option negotiation request

```perl
$ok = $obj->option_send([Do => $telopt,]
    [Dont => $telopt,]
    [Will => $telopt,]
    [Wont => $telopt,]
    [Async => $boolean,]);
```

This method is not yet implemented. Look for it in a future version.

Get current state of a TELNET option

```perl
$hashref = $obj->option_state($telopt);
```

This method returns a hashref containing a copy of the current state of TELNET option I<$telopt>.

Here are the values returned in the hash:

```perl
$I<$hashref>->{remote_enabled}
```

Boolean that indicates if the option is enabled on the remote side.

```perl
$I<$hashref>->{remote_enable_ok}
```

Boolean that indicates if the option is enabled on the remote side.
boolean that indicates if it's ok to accept an offer to enable this option on the remote side.

I<$hashref>->[remote_state]

Over 4

string used to hold the internal state of option negotiation for this option on the remote side.

I<$hashref>->[local_enabled]

Over 4

boolean that indicates if the option is enabled on the local side.

I<$hashref>->[local_enable_ok]

Over 4

boolean that indicates if it's ok to accept an offer to enable this option on the local side.

I<$hashref>
I<$hashref>->[local_state]

=over 4
=item

string used to hold the internal state of option negotiation for this option on the local side.

=back
=back
=back
=back

=over 4
=item B<ors> - output line delimiter

$chars = $obj->ors;

$prev = $obj->ors($chars);

This method is synonymous with C<output_record_separator()>.

=back

=over 4
=item B<output_field_separator> - field separator for print

$chars = $obj->output_field_separator;

$prev = $obj->output_field_separator($chars);

This method designates the output field separator for C<print()>.
Ordinarily the print method simply prints out the comma separated fields you specify. Set this to specify what's printed between fields.

With no argument this method returns the current output field separator set in the object. With an argument it sets the output field separator to I<$chars> and returns the previous value.

By default it's set to an empty string.
This method starts or stops logging of output. This is useful when debugging. Also see C<dump_log()> . Because most command interpreters echo back commands received, it's likely all your output would also be in an input log. See C<input_log()> . Note that output logging occurs before newline translation. See C<binmode()> for details on newline translation.

If no argument is given, the log filehandle is returned. An empty string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned. Otherwise, the argument is assumed to be the name of a file, the file is opened for logging and a filehandle to it is returned. If the file can't be opened for writing, the error mode action is performed.

This method designates the output line delimiter for C<print()> and C<cmd()> . Set this to specify what's printed at the end of C<print()> and C<cmd()> .

The output record separator is set to C<"\n"> by default, so there's no need to append all your commands with a newline. To avoid printing the output_record_separator use C<put()> or set the
output_record_separator to an empty string.

With no argument this method returns the current output record separator set in the object. With an argument it sets the output record separator to I<$chars> and returns the previous value.

=back

=over 4
=item B<port> - remote port

$port = $obj->port;

$prev = $obj->port($port);

This method designates the remote TCP port. With no argument this method returns the current port number. With an argument it sets the current port number to I<$port> and returns the previous port. If I<$port> is a TCP service name, then it's first converted to a port number using the perl function C<getservbyname()>.

The default value is C<23>. It may also be set by C<open()> or C<new()>.

A warning is printed to STDERR when attempting to set this attribute to something that's not a positive integer or a valid TCP service name.

=back

=over 4
=item B<print> - write to object

$ok = $obj->print(@list);

This method writes I:@list> followed by the I<output_record_separator> to the open object and returns C<1> if all data was successfully written. On time-out or other failures, the error mode action is performed. See C<errmode()>.

By default, the C<output_record_separator()> is set to C<"\n"> so all your commands automatically end with a newline. In most cases your output is being read by a command interpreter which won't accept a command until newline is read. This is similar to someone typing a
command and hitting the return key. To avoid printing a trailing 
C\"\n\" use C<put()> instead or set the output_record_separator to an 
empty string.

On failure, it's possible that some data was written. If you choose 
to try and recover from a print timing-out, use C<print_length()> to 
determine how much was written before the error occurred.

You may also use the output field separator to print a string between 
the list elements. See C<output_field_separator()>.

=back

=over 4

=item B<print_length> - number of bytes written by print

  $num = $obj->print_length;

This returns the number of bytes successfully written by the most 
recent C<print()> or C<put()>.

=back

=over 4

=item B<prompt> - pattern to match a prompt

  $matchop = $obj->prompt;

  $prev = $obj->prompt($matchop);

This method sets the pattern used to find a prompt in the input 
stream. It must be a string representing a valid perl pattern match 
operator. The methods C<login()> and C<cmd()> try to read until 
matching the prompt. They will fail with a time-out error if the 
pattern you've chosen doesn't match what the remote side sends.

With no argument this method returns the prompt set in the object. 
With an argument it sets the prompt to I<$matchop> and returns the 
previous value.

The default prompt is C</[\$%#E<gt>] $/> 

Always use single quotes, instead of double quotes, to construct 
I<$matchop> (e.g. C</bash\$ />). If you're constructing a DOS like
file path, you'll need to use four backslashes to represent one
(e.g. C\'c:\\users\\billE<gt>$/i\'>).

Of course don't forget about regexp metacharacters like C\.>, C\[>, or
C\$>. You'll only need a single backslash to quote them. The anchor
metacharacters C^> and C$> refer to positions in the input buffer.

A warning is printed to STDERR when attempting to set this attribute
with a match operator missing its opening delimiter.

=back

=over 4

=item B<put> - write to object

\$ok = \$obj->put($string);

\$ok = \$obj->put(String => $string,
    [Binmode => $mode,]
    [Errmode => $errmode,]
    [Telnetmode => $mode,]
    [Timeout => $secs,]);

This method writes I<$string> to the opened object and returns C<1> if
all data was successfully written. This method is like C<print()> except
that it doesn't write the trailing output_record_separator
("\n" by default). On time-out or other failures, the error mode
action is performed. See C<errmode()>.

On failure, it's possible that some data was written. If you choose
to try and recover from a put timing-out, use C<print_length()> to
determine how much was written before the error occurred.

Optional named parameters are provided to override the current
settings of binmode, errmode, telnetmode, and timeout.

=back

=over 4

=item B<rs> - input line delimiter

\$chars = \$obj->rs;

\$prev = \$obj->rs($chars);
This method is synonymous with C<$input_record_separator()>.

=back

=over 4

=item B<$telnetmode> - turn off/on telnet command interpretation

$mode = $obj->telnetmode;

$prev = $obj->telnetmode($mode);

This method controls whether or not TELNET commands in the data stream are recognized and handled. The TELNET protocol uses certain character sequences sent in the data stream to control the session. If the port you're connecting to isn't using the TELNET protocol, then you should turn this mode off. The default is I<on>.

If no argument is given, the current mode is returned.

If I<$mode> is C<0> then telnet mode is off. If I<$mode> is C<1> then telnet mode is on.

=back

=over 4

=item B<$timed_out> - time-out indicator

$boolean = $obj->timed_out;

$prev = $obj->timed_out($boolean);

This method indicates if a previous read, write, or open method timed-out. Remember that timing-out is itself an error. To be able to invoke C<$timed_out()> after a time-out error, you'd have to change the default error mode to something other than C<"die">. See C<$errmode()>.

With no argument this method returns C<1> if the previous method timed-out. With an argument it sets the indicator. Normally, only internal methods set this indicator.

=back
$secs = $obj->timeout;
$prev = $obj->timeout($secs);

This method sets the timeout interval that's used when performing I/O or connecting to a port. When a method doesn't complete within the timeout interval then it's an error and the error mode action is performed.

A timeout may be expressed as a relative or absolute value. If $secs is greater than or equal to the time the program started, as determined by $^T, then it's an absolute time value for when time-out occurs. The perl function C<time()> may be used to obtain an absolute time value. For a relative time-out value less than $^T, time-out happens $secs from when the method begins.

If $secs is C<0> then time-out occurs if the data cannot be immediately read or written. Use the undefined value to turn off timing-out completely.

With no argument this method returns the timeout set in the object. With an argument it sets the timeout to $secs and returns the previous value. The default timeout value is C<10> seconds.

A warning is printed to STDERR when attempting to set this attribute to something that's not an C<undef> or a non-negative integer.

=back

=over 4

=item B<waitfor> - wait for pattern in the input

$sok = $obj->waitfor($matchop);
$sok = $obj->waitfor([Match => $matchop,]
                    [String => $string,]
                    [Binmode => $mode,]
                    [Errmode => $errmode,]
                    [Telnetmode => $mode,]
                    [Timeout => $secs,]);

($prematch, $match) = $obj->waitfor($matchop);

This method reads until a pattern match or string is found in the input stream. All the characters before and including the match are removed from the input stream.

In a list context the characters before the match and the matched characters are returned in `$prematch` and `$match`. In a scalar context, the matched characters and all characters before it are discarded and 1 is returned on success. On time-out, eof, or other failures, for both list and scalar context, the error mode action is performed. See `errmode()`.

You can specify more than one pattern or string by simply providing multiple `$match` and/or `$string` named parameters. A `$match` must be a string representing a valid Perl pattern match operator. The `$string` is just a substring to find in the input stream.

Use `dump_log()` to debug when this method keeps timing-out and you don't think it should.

An optional named parameter is provided to override the current setting of timeout.

To avoid unexpected backslash interpretation, always use single quotes instead of double quotes to construct a match operator argument for `prompt()` and `waitfor()` (e.g. `'/bash$ $/'`). If you're constructing a DOS like file path, you'll need to use four backslashes to represent one (e.g. `'/c:\\users\\billE<gt>$i/'`).

Of course don't forget about regexp metacharacters like `.` or `$`. You'll only need a single backslash to quote them. The anchor metacharacters `^` and `$` refer to positions in the input buffer.

Optional named parameters are provided to override the current settings of binmode, errmode, telnetmode, and timeout.

=back

=head1 SEE ALSO

=over 2
=item RFC 854
S<TELNET Protocol Specification>

=item RFC 1143
S<Q Method of Implementing TELNET Option Negotiation>

=item TELNET Option Assignments
S<http://www.iana.org/assignments/telnet-options>

=back

=head1 EXAMPLES

This example gets the current weather forecast for Brainerd, Minnesota.

my ($forecast, $t);

use Net::Telnet ();
$t = new Net::Telnet;
$t->open("rainmaker.wunderground.com");

## Wait for first prompt and "hit return".
$t->waitfor('/continue:.*$/');
$t->print(""");

## Wait for second prompt and respond with city code.
$t->waitfor('/city code.*$/');
$t->print("BRD");

## Read and print the first page of forecast.
($forecast) = $t->waitfor('/[ \t]+press return to continue/i');
print $forecast;
exit;

This example checks a POP server to see if you have mail.

my ($hostname, $line, $passwd, $pop, $username);
$hostname = "your_destination_host_here";
$username = "your_username_here";
$passwd = "your_password_here";
use Net::Telnet ();
$pop = new Net::Telnet (Telnetmode => 0);
$pop->open(Host => $hostname,
Port => 110);

## Read connection message.
$line = $pop->getline;
die $line unless $line =~ /^\+OK/;
## Send user name.
$pop->print("user $username");
$line = $pop->getline;
die $line unless $line =~ /^\+OK/;
## Send password.
$pop->print("pass $passwd");
$line = $pop->getline;
die $line unless $line =~ /^\+OK/;
## Request status of messages.
$pop->print("list");
$line = $pop->getline;
print $line;
exit;

Here's an example that uses the ssh program to connect to a remote
host. Because the ssh program reads and writes to its controlling
terminal, the IO::Pty module is used to create a new pseudo terminal
for use by ssh. A new Net::Telnet object is then created to read and
write to that pseudo terminal. To use the code below, substitute
"changeme" with the actual host, user, password, and command prompt.
## Main program.
{
my ($pty, $ssh, @lines);
my $host = "changeme";
my $user = "changeme";
my $password = "changeme";
my $prompt = '/changeme:~> $/';

Open Source Used In Firepower 6.3

9444


## Start ssh program.

```perl
#!/bin/bash

# Define spawn function
spawn() {
    local cmd=$1
    pty = &spawn("ssh", "-l", $user, $host);  # spawn() defined below
    ssh = new Net::Telnet (-fhopen => $pty,
                            -prompt => $prompt,
                            -telnetmode => 0,
                            -cmd_remove_mode => 1,
                            -output_record_separator => "\r");

    # Login to remote host.
    ssh->waitfor(-match => '/password: ?$/i',
                  -errmode => "return")
    or die "problem connecting to host: ", ssh->lastline;
    ssh->print($password);
    ssh->waitfor(-match => ssh->prompt,
                  -errmode => "return")
    or die "login failed: ", ssh->lastline;

    # Send command, get and print its output.
    lines = ssh->cmd("who");
    print @lines;
    exit;
}

# Define spawn function
spawn() {
    my(@cmd) = @_; 
    my($pid, $pty, $stty, $stty_fd);

    # Create a new pseudo terminal.
    use IO::Pty ();
    pty = new IO::Pty
    or die $!

    # Execute the program in another process.
    unless ($pid = fork) {  # child process
        die "problem spawning program: $!", unless defined $pid;

        # Disassociate process from existing controlling terminal.
        use POSIX ();
        POSIX::setsid
        or die "setsid failed: $!";

        # Associate process with a new controlling terminal.
        stty = $pty->slave;
        stty_fd = $stty->fileno;
    }

    # Create a Net::Telnet object to perform I/O on ssh's tty.
    use Net::Telnet;
    ssh = new Net::Telnet (-fhopen => $pty,
                           -prompt => $prompt,
                           -telnetmode => 0,
                           -cmd_remove_mode => 1,
                           -output_record_separator => "\r");

    # Login to remote host.
    ssh->waitfor(-match => '/password: ?$/i',
                  -errmode => "return")
    or die "problem connecting to host: ", ssh->lastline;
    ssh->print($password);
    ssh->waitfor(-match => ssh->prompt,
                  -errmode => "return")
    or die "login failed: ", ssh->lastline;

    # Send command, get and print its output.
    lines = ssh->cmd("who");
    print @lines;
    exit;
}
```

---

**Open Source Used in Firepower 6.3**

---
close $pty;

## Make stdio use the new controlling terminal.
open STDIN, "<&$tty_fd" or die $!;
open STDOUT, ">&$tty_fd" or die $!;
open STDERR, ">&STDOUT" or die $!;
close $tty;

## Execute requested program.
exec @cmd
    or die "problem executing $cmd[0]";
} # end child process

$pty;
} # end sub spawn

Here's an example that changes a user's login password. Because the passwd program always prompts for passwords on its controlling terminal, the IO::Pty module is used to create a new pseudo terminal for use by passwd. A new Net::Telnet object is then created to read and write to that pseudo terminal. To use the code below, substitute "changeme" with the actual old and new passwords.

my ($pty, $passwd);
my $oldpw = "changeme";
my $newpw = "changeme";

## Start passwd program.
$pty = &spawn("passwd");  # spawn() defined above

## Create a Net::Telnet object to perform I/O on passwd's tty.
use Net::Telnet;
$passwd = new Net::Telnet (-fhopen => $pty,
    -timeout => 2,
    -output_record_separator => "\r",
    -telnetmode => 0,
    -cmd_remove_mode => 1);
$passwd->errmode("return");

## Send existing password.
$passwd->waitfor('/password: ?$/i')
    or die "no old password prompt: ", $passwd->lastline;
$passwd->print($oldpw);

## Send new password.
$passwd->waitfor('/new password: ?$/i')
    or die "bad old password: ", $passwd->lastline;
$passwd->print($newpw);
## Send new password verification.
$passwd->waitfor('/new password: ?$/i')
or die "bad new password: ", $passwd->lastline;
$passwd->print($newpw);
## Display success or failure.
$passwd->waitfor('/changed/')
or die "bad new password: ", $passwd->lastline;
print $passwd->lastline;
$passwd->close;
exit;

Here's an example you can use to down load a file of any type. The
file is read from the remote host's standard output using cat. To
prevent any output processing, the remote host's standard output is
put in raw mode using the Bourne shell. The Bourne shell is used
because some shells, notably tcsh, prevent changing tty modes. Upon
completion, FTP style statistics are printed to stderr.
my ($block, $filename, $host, $hostname, $k_per_sec, $line,
$num_read, $passwd, $prevblock, $prompt, $size, $size_bsd,
$size_sysv, $start_time, $total_time, $username);
$hostname = "your_destination_host_here";
$username = "your_username_here";
$passwd = "your_password_here";
$filename = "your_download_file_here";
## Connect and login.
use Net::Telnet ();
$host = new Net::Telnet (Timeout => 30,
Prompt => '/[%#>] $/');
$host->open($hostname);
$host->login($username, $passwd);
## Make sure prompt won't match anything in send data.
$prompt = "_funkyPrompt_";
$host->prompt("/$prompt\$/");
$host->cmd("set prompt = '$prompt'");
## Get size of file.
($line) = $host->cmd("/bin/ls -l $filename");
($size_bsd, $size_sysv) = (split ' ', $line)[3,4];
if ($size_sysv =~ /^\d+$/) {

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$size = $size_sysv;
}
else if ($size_bsd =~ /^\d+$/) {
    $size = $size_bsd;
}
else {
    die "$filename: no such file on $hostname";
}

## Start sending the file.
binmode STDOUT;
$host->binmode(1);
$host->print("/bin/sh -c 'stty raw; cat $filename'"); $host->getline;  # discard echoed back line

## Read file a block at a time.
$num_read = 0;
$prevblock = "";
$start_time = time;
while (($block = $host->get) and ($block !~ /$prompt$/o)) {
    if (length $block >= length $prompt) {
        print $prevblock;
        $num_read += length $prevblock;
        $prevblock = $block;
    } else {
        $prevblock .= $block;
    }
}
$host->close;

## Print last block without trailing prompt.
$prevblock .= $block;
$prevblock =~ s/$prompt$//;
print $prevblock;
$num_read += length $prevblock;
die "error: expected size $size, received size $num_read"
    unless $num_read == $size;

## Print totals.
$total_time = (time - $start_time) || 1;
$K_per_sec = ($size / 1024) / $total_time;
$K_per_sec = sprintf "%3.1f", $K_per_sec;
warn("$num_read bytes received in $total_time seconds ",
    "($K_per_sec Kbytes/s)\n");
exit;
AUTHOR

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Net::Telnet, version 3.03

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User documentation in POD format is contained within the module source (i.e. the .pm file). Installing using "make install" places this documentation in a man page in the perl library under the directory "man/man3".

To nicely format the documentation for printing, you may use "groff" to convert to postscript. Groff is available under the GNU General Public License (GPL) and is installed on most Linux machines.

```
pod2man Net/Telnet.pm | groff -man -Tps > Net::Telnet.ps
```

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10.264 Net::AMQP::RabbitMQ 0.31

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in order to work better with some NetKit maintenance scripts.

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10.269 Nmap-Parser 1.19
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>Description:
#It takes in a nmap xml file and stores it into a SQLite database using DBI for
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# IP network database can be created using Nmap-Parser and automation.
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# nmap2db.pl
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3. [3] Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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9. [10] Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
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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
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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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from diff.numastat

<snip>

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```

```
10.275 Number-Compare 0.03
10.275.1 Available under license :
from /lib/Number/Compare.pm
```

```
<snip>

=head1 AUTHOR
Richard Clamp <richardc@unixbeard.net>
```

```
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=head1 SEE ALSO

http://physics.nist.gov/cuu/Units/binary.html

=cut

from META.yml

--- #YAML:1.0
name: Number-Compare
version: 0.03
abstract: ~
author: []
license: unknown
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
build_requires:
  ExtUtils::MakeMaker: 0
requires:
  Test::More: 0
no_index:
directory:
  - t
  - inc
generated_by: ExtUtils::MakeMaker version 6.57_05
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
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10.276 Object-MultiType 0.05
10.276.1 Available under license :
from MultiType.pm

<snip>

=head1 AUTHOR

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=cut
Perl Objects as Hash, Array and Scalar at the same time.

** See POD for documentation.

To install this module type the following:

```
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make
make test
make install
```

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* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
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10.282 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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/* crypto/aes/aes_wrap.c */
/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL project.
 * Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
 * size keys (Implemented RFC5649)
 */

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 *
 */

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 * 5 March 1997
 *
 * Stuff stolen from pam_rootok and pam_listfile
 *
 * Changes by Tomas Mraz <tmraz@redhat.com> 5 January 2005, 26 January 2006
 * Audit option added for Tomas patch by Sebastien Tricaud <toady@gscore.org> 13 January 2005
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10.286 pango 1.21.6
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That's all there is to it!
Pango is a library for layout and rendering of text, with an emphasis
on internationalization. Pango can be used anywhere that text layout
is needed; however, most of the work on Pango so far has been done using
the GTK+ widget toolkit as a test platform. Pango forms the core of text
and font handling for GTK+-2.x.

Pango is designed to be modular; the core Pango layout can be used
with different font backends. There are three basic backends, with
multiple options for rendering with each.

- Client side fonts using the FreeType and fontconfig libraries.
  Rendering can be with with Cairo or Xft libraries, or directly
to an in-memory buffer with no additional libraries.

- Native fonts on Microsoft Windows using Uniscribe if available for
  complex script handling. Rendering can be done via Cairo or
directly using the native Win32 API.

- Native fonts on MacOS X, rendering via Cairo.

The integration of Pango with Cairo (http://cairographics.org)
provides a complete solution with high quality text handling
and graphics rendering.

Dynamically loaded modules then handle text layout for particular
combinations of script and font backend.

As well as the low level layout rendering routines, Pango includes
PangoLayout, a high level driver for laying out entire blocks of text,
and routines to assist in editing internationalized text.
For more information about Pango, see:

http://www.pango.org/

Dependencies
============

Pango depends on the GLib library; more information about GLib can be found at http://www.gtk.org/.

When using client side fonts, the fontconfig library (http://www.fontconfig.org) to look up fonts. At least version 2.0.9 of the FreeType font handling library (http://www.freetype.org) is also required.

Cairo support depends on the Cairo library (http://cairographics.org). The Cairo backend is the preferred backend to use Pango with and is subject of most of the development in the future. It has the advantage that the same code can be used for display and printing.

We suggest using Pango with Cairo as described above, but you can also do X-specific rendering using the Xft library. The Xft backend uses version 2 of the Xft library to manage client side fonts. Version 2 of Xft is available from http://xlibs.freedesktop.org/release/. You’ll need the libXft package, and possibly the libXrender and renderext packages as well. You’ll also need fontconfig (see below.)

Installation of Pango on Win32 is possible, but is not documented here. See http://www.gimp.org/~tml/gimp/win32/downloads.html

Notes
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- By default, Pango tries to build itself so that no explicit dependency on Xft or FreeType will be introduced in apps that link to Pango. This is to avoid compatibility problems with changes in the Xft or FreeType API’s or ABI’s. Specifying --enable-explicit-deps or --enable-static when configuring Pango will defeat this and should be avoided if possible.

License
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Note that binary distributions of Pango must include a disclaimer that the software is based in part of the work of the FreeType Team, in the distribution documentation; for instance, by including this README file.

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26 February 2007
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10.288 Parse-RecDescent 1.962.2

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The End
From: Eric Estabrooks <eric@urbanrage.com>
To: Mez <mez@alum.mit.edu>
Sent: Tuesday, February 24, 2015 1:08 PM
Subject: Re: Passwd-Linux licensing

On 02/24/2015 09:55 AM, Mez wrote:
> Hi Eric,
>
> I'm contacting you as author of Passwd-Linux to clarify the licensing on Passwd-Linux. Can you verify that it is under the perl Artistic License used in CPAN? Thanks!
Yes it is. I guess this means I forgot to include a license file in the tarball.

Eric

**10.291 patch 2.7.6**

**10.291.1 Available under license :**

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Version 3, 29 June 2007

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10.293 pcre 7.6

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

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

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THE C++ WRAPPER FUNCTIONS
-------------------------

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

10.295 perl-ldap 0.39
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from README...

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10.296 PerlMagick 6.58

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package Image::Magick;

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10.299 pkgtools 9.0
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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 <Ctrl><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 <Ctrl><Alt><BS> server abort sequence
# This allows clients to receive this key event.

# Option   "DontZap"

# Uncomment this to disable the <Ctrl><Alt><KP_+>/<KP_-> mode switching
# sequences. This allows clients to receive these key events.
# Option  "DontZoom"

# 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" "PS/2"

# 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"
# Option "ButtonNumber" "1"
# Option "SendCoreEvents"
# EndSection

# 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"
# EndSection

# 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

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

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"
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

Taken from installpkg script
# Copyright 1994, 1998, 2000 Patrick Volkerding, Concord, CA, USA
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# 
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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
    
    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 [ "$S1" = "--linkadd" -o "$S1" = "-l" ]; then
            if [ "$S2" = "y" ]; then
                LINKADD=y
            elif [ "$S2" = "n" ]; then
                LINKADD=n
            else
                usage
            fi
        fi
        if [ "$S1" = "$S2" ]; then
            usage
        fi
    done
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" = ":-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"

# 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 $LINKADD
echo
fi
if [ "$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 $INST
echo
echo "This next step is optional - you can set the directories in your package"
echo "to some sane permissions. If any of the directories in your package have"
echo "special permissions, then DO NOT reset them here!"
echo
echo "Would you like to reset all directory permissions to 755 (drwxr-xr-x) and"
echo -n "directory ownerships to root.root ([y]es, [n]o)? "
if [ ! "$CHOWN" ]; then
read CHOWN;
echo
else
echo $CHOWN
echo

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

echo

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 "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 "Package creation complete."

echo

#!/bin/sh

# Copyright 2001  Slackware Linux, Inc.,  Concord, CA USA
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#
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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
  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
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
  }
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.
            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 $TMP/PKGTOOL.REMOVED" 13 60
            export ROOT=$TARGET_DIR
            removepkg $pkg_name >> $LOG 2> /dev/null
        else
            done
        fi
    fi
}

```bash
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)" "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"
>&2

if [ ! $? -eq 0 ]; then
  rm -f $TMP/reply
dialog --clear
  exit
fi

REPLY="cat $TMP/reply"
```

rm -f $TMP/reply
if [ "SREPLY" = "Exit" ]; then
    dialog --clear
    exit
fi
if [ "SREPLY" = "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 \ are 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
    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 "'
            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 -f2 -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 -f2 -d : | crunch"'
        fi
        echo " "$name" "$BLURB" "View information about package $name" \" >> $TMP/viewscr
do
    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 $TMP/tmpmsg
# This will clean up after most defective packages:
chmod 755 /
chmod 1777 /tmp
continue
fi
if [ "$REPLY" = "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

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rm -f $TMP/PKGTOOL.REMOVED
dialog --title "NO PACKAGES REMOVED" --msgbox "Hit OK to return to the main menu." 5 40
else
dialog --title "PACKAGE REMOVAL COMPLETE" --msgbox "The packages have been removed. A complete log of the files that were removed has been created in $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 you like to install from?"
1 11 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"
$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 $TARGET_DIR/tmp
    break;
    fi
done
if [ "$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
        
    fi
}

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> $TMP/mntans
  mount_answer="cat $TMP/mntans"
  rm -f $TMP/mntans
  if [ "$mount_answer" = "Yes" ]; then
EOF
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'cat $TMP/SeTtagext' ]; then
        cat $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' >> $TMP/tagfile
      else
        cat $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' >> $TMP/tagfile
      fi
    else
      cat $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' >> $TMP/tagfile
    fi
  fi

  #
if [ -r $PACKAGE_DIR/tagfile ]; then
cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
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
#
# 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

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
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 PKGTEST 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 $PACKAGE_DIR/$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"
BASE="package_name $BASE"
if echo $ALLOWED | grep $BASE 1> /dev/null 2>&1 ; then
ture
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 # 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
    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"
    else
        count="expr $count + 1"
    fi
done
fi
diskset="echo $DISK_SETS | cut -b$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
chmod 755 $TARGET_DIR $TARGET_DIR/var $TARGET_DIR/usr
chmod 1777 $TARGET_DIR/tmp

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#!/bin/sh

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

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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# 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-1.13
STAR --help 1> /dev/null 2> /dev/null
if [ ! $? = 0 ]; then
  TAR=tar
fi
if [ ! "$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."
  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"
}

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
    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
  fi
# 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
  fi
}

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. :^)
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 $INST" = "" ]; then
    if [-r install/doinst.sh ]; then
        echo "Unless your existing installation script already contains the code"
        echo "to create these links, you should append these lines to your existing"
        echo "install script. Now's your chance. :)"
        echo
        echo "Would you like to add this stuff to the existing install script and"
        echo -n "remove the symbolic links ( [y]es, [n]o)? "
        else
        echo "It is recommended that you make these lines your new installation script."
        echo
        echo "Would you like to make this stuff the install script for this package"
        echo -n "and remove the symbolic links ( [y]es, [n]o)? "
        fi
    if [ ! "$SLINKADD" ]; then
        read LINKADD;
        echo
        else
        echo $LINKADD
        echo
        fi
if [ "$SLINKADD" = "y" ]; then
    if [-r install/doinst.sh ]; then
        echo
        else
        echo $LINKADD
        echo
        fi

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."
else
echo "You can make your own later in ./install/doinst.sh and rebuild the"
  echo "package if you like."
fi
rm -f doinst.sh $INST
echo
echo "This next step is optional - you can set the directories in your package"
  echo "to some sane permissions. If any of the directories in your package have"
  echo "special permissions, then DO NOT reset them here!"
else
  echo "Would you like to reset all directory permissions to 755 (drwxr-xr-x) and"
  echo "directory ownerships to root.root ([y]es, [n]o)? "
if ! "$CHOWN" ]; then
  read CHOWN;
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
echo
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

echo "Gzipping $TAR_NAME.tar..."
gzip -9 $TAR_NAME.tar
echo

echo "Renaming $TAR_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."
echo
#!/bin/sh
#
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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
  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
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
    fi
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
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=$2
ADM_DIR=$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 "nWelcome to the Slackware package tool.\n\nWhich option would you like?n" 17 75 7 \
"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 \are 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
    "-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 "nWelcome to the Slackware package tool.\n\nWhich option would you like?n" 17 75 7 \n"Current" "Install packages from the current directory" \n"Other" "Install packages from some other directory" \n"Floppy" "Install packages from floppy disks" \n"Remove" "Remove packages that are currently installed" \n"View" "View the list of files contained in a package" \n"Setup" "Choose Slackware installation scripts to run again" \n"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 \are 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
    "$BLURB"
    "-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)" \n--menu "nWelcome to the Slackware package tool.\n\nWhich option would you like?n" 17 75 7 \n"Current" "Install packages from the current directory" \n"Other" "Install packages from some other directory" \n"Floppy" "Install packages from floppy disks" \n"Remove" "Remove packages that are currently installed" \n"View" "View the list of files contained in a package" \n"Setup" "Choose Slackware installation scripts to run again" \n"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 \are 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
    "$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 "'
        rootdevice="mount | head -1 | cut -f 1 -d ' ""
        ( COLOR=on ; cd $TARGET_DIR ; . $scrpath / $rootdevice )
    done
fi
rm -f $TMP/return $TMP/setupscr
continue
fi # end Setup
if [ "$REPLY" = "View" ]; then
    DEFITEM=""
    export DEFITEM
    dialog --title "SCANNING" --infobox "Please wait while \Pkgttool 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"'
        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
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 to the main menu." 5 40
else
dialog --title "PACKAGE REMOVAL COMPLETE" --msgbox "The packages have been removed. A complete log of the files that were removed has been created in $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 you like to install from?"
1 11 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 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/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 $SOURCE_DIR ]; then
    dialog --title "DIRECTORY NOT FOUND" --msgbox "The directory you want to \ninstall from ($SOURCE_DIR) \ndoes not seem to exist. Please check the directory and then try again." \n10 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 $TARGET_DIR/tmp
    break;
fi
done
if [ "$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
            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 \npress ENTER to continue." \n11 50 3 \n"Continue" "Continue with the installation" \n"Skip" "Skip the current disk series" \n
"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> $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'cat $TMP/SeTtagext' ]; 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
    else
        if [ -r $PACKAGE_DIR/tagfile ]; then
            cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
        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

# We seem to be testing for this too often... maybe this code should
# be optimized a little...
#
eelif [ -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/SCATALOG_FILE -a ! -d $PACKAGE_DIR/SCATALOG_FILE ]; then
  if grep CONTENTS: $PACKAGE_DIR/SCATALOG_FILE 1> /dev/null 2>&1 ; then
    # First we check for missing packages...
    for PKGTEST in 'grep "^CONTENTS:" $PACKAGE_DIR/SCATALOG_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 $PACKAGE_DIR/$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-\*-\*-\*-*.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/SCATALOG_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> /dev/null ; 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)

        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 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
  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 $DISK_SETS | grep "#a#" 1> /dev/null 2>&1; then
    A_IS_NEEDED="true"
  else
    A_IS_NEEDED="false"
  fi
  while [ 0 ];
  do
    while [ 0 ]; # strip leading ' #'s
      do
        if [ ""$DISK_SETS" | cut -b1" = "#" ]; then
          DISK_SETS=""$DISK_SETS" | cut -b2-"
        else
          break;
        fi
      done
  if [ "$A_IS_NEEDED" = "true" ]; then
    cat << EOF > $TMP/tmpmsg
    --- Installing package series ==>a<==
    EOF
EOF
dialog --infobox "cat $TMP/tmpmsg" 5 45
sleep 1
rm -f $TMP/tmpmsg
install_disk_set a;
A_IS_NEEDED="false"
fi
count="1"
if [ ""$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
#!/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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# 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,'/( cd \([^ :]*\) *; *rm -rf \([^ )]*\) *) *$/p'
}

preserve_file() {
  if [ "$PRESERVE" = "true" ]; then
    F="basename "$1""
    D="dirname "$1"
  fi
  if [ ! -d "$PRESERVE/SPKNAME/SD" ]; then
    mkdir -p "$PRESERVE/SPKNAME/SD" || return 1
  fi
}
cp -p "$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
fi
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
        if [ "echo $FILE | cut -b1-8" != "install/" ]; then
            echo "WARNING: Nonexistent $ROOT/$FILE was found in another package. Skipping."
        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
    fi
fi
done
if [ ! "$WARN" = "true" ]; then
  echo " --> Deleting $ROOT/$FILE"
  preserve_file "$FILE" && rm -f "$ROOT/$FILE"
else
  echo " --> $ROOT/$FILE would be deleted"
  preserve_file "$FILE"
fi
else
  echo " --> $ROOT/$FILE no longer exists. Skipping."
fi
do
}
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
do
}
delete_dirs() {
  sort -r | \
  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
do
}
delete_cats() {
    sed -n '/,man\(./\[^/]*$\),/cat\1\p\000'/
    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
    fi
}

# Conversion to 'comm' utility by Mark Wisdom.
# is pretty nifty! :^)
remove_packages() {
    for PKGLIST in $*
    do
        # Process PKGLIST
    done
}
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 [ "$SHORT" = "package_name $long_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="^\./\$"
  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/del_link_list$$
cat_except $ADM_DIR/scripts/$PKGNAME | extract_links | \
  sort -u > $TMP/required_links$$
  mv $TMP/required_list$$ $TMP/required_files$$
  sort -u $TMP/required_links$$ $TMP/required_files$$ > $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$$ $TMP/required_files$$ >$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 $TMP/del_link_list$ $TMP/required_links$ $TMP/required_list$
fi
if [ "$PRESERVE" = "true" ]; then
  if [ -r $ADM_DIR/scripts/$PKGNAME ]; then
    if [ ! -d "$PRESERVE_DIR/$PKGNAME/install" ]; then
      mkdir -p "$PRESERVE_DIR/$PKGNAME/install"
    fi
    cp -p $ADM_DIR/scripts/$PKGNAME $PRESERVE_DIR/$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;;
    *)
      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 $PRES_DIR."
fi
else
    if [ "$PRESERVE" = "true" ]; then
        echo "Package contents is copied to $PRES_DIR."
    fi
fi
remove_packages $*

#!/bin/sh
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#
# 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.

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"

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"

shell 1

elif [ "$1" = "--reinstall" ]; then

# Reinstall packages even if the installed one is the same version.
REINSTALL="true"

shell 1

elif [ "$1" = "--verbose" -o "$1" = "-v" ]; then

# We're adding a --verbose mode that doesn't filter removepkg as much
VERBOSE="verbose"

shell 1
else # no more args

break;

fi
do # 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 [ "$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
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 "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 SINCOMINGDIR/$NEW.tgz
EOF

    installpkg $INCOMINGDIR/$NEW.tgz
fi

    shift 1
    continue;
elf [ ! -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
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 $OLD 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
        removepkg $rempkg $rempkg | grep -v "Skipping\." | grep -v "Removing files:"
        done
      )
    fi
  echo
# Again! Again!
# Seriously, the reinstalling of a package can be crucial if any files
# shift location, so we should always reinstall as the final step:
if [ ! "$NOT_PARANOID" = "true" ]; then
  installpkg $INCOMINGDIR/$NEW.tgz
echo "Package OLD upgraded with new package $INCOMINGDIR/$NEW.tgz."
ERRCODE=0

# Process next parameter:
shift 1
done

echo $ERRCODE
exit $ERRCODE

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10.300 Pod-Simple 3.28

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10.301 POE 1.35
# Copyrights and documentation are after __END__.

<snip>

=head1 AUTHORS & COPYRIGHT

POE is the combined effort of quite a lot of people. This is an
incomplete list of some early contributors. A more complete list can
be found in POE's change log.

=item Ann Barcomb

Ann Barcomb is <kudra@domaintje.com>, aka C<kudra>. Ann contributed
large portions of POE::Simple and the code that became the ReadWrite
support in POE::Component::Server::TCP. Her ideas also inspired
Client::TCP component, introduced in version 0.1702.

=item Artur Bergman

Artur Bergman is <sky@cpan.org>. He contributed many hours' work into
POE and quite a lot of ideas. Years later, I decide he's right and
actually implement them.

Artur is the author of Filter::HTTPD and Filter::Reference, as well as
bits and pieces throughout POE. His feedback, testing, design and
inspiration have been instrumental in making POE what it is today.

Artur is investing his time heavily into perl 5's iThreads and PONIE
at the moment. This project has far-reaching implications for POE's
future.

=item Jos Boumans

Jos Boumans is <kane@cpan.org>, aka C<kane>. Jos is a major driving
force behind the POE::Simple movement and has helped inspire the
POE::Components for TCP clients and servers.

=item Matt Cashner

Matt Cashner is <sungo@pobox.com>, aka C<sungo>. Matt is one of POE's
core developers. He's spearheaded the movement to simplify POE for
new users, flattening the learning curve and making the system more accessible to everyone. He uses the system in mission critical applications, folding feedback and features back into the distribution for everyone's enjoyment.

=item Andrew Chen

Andrew Chen is <achen-poe@micropixel.com>. Andrew is the resident POE/Windows guru. He contributes much needed testing for Solaris on the SPARC and Windows on various Intel platforms.

=item Douglas Couch

Douglas Couch is <dscouch@purdue.edu>. Douglas helped port and maintain POE for Windows early on.

=item Jeffrey Goff

Jeffrey Goff is <jgoff@blackboard.com>. Jeffrey is the author of several POE modules, including a tokenizing filter and a component for managing user information, PoCo::UserBase. He's also co-author of "A Beginner's Introduction to POE" at www.perl.com.

=item Philip Gwyn

Philip Gwyn is <gwynp@artware.qc.ca>. He extended the Wheels I/O abstraction to support hot-swappable filters, and he eventually convinced Rocco that unique session and kernel IDs were a good thing.

Philip also enhanced L<POE::Filter::Reference|POE::Filter::Reference> to support different serialization methods. He has also improved POE's quality by finding and fixing several bugs. He provided POE a much needed code review around version 0.06.

Lately, Philip tracked down the race condition in signal handling and fixed it with the signal pipe.

=item Arnar M. Hrafnkelsson

Arnar is <addi@umich.edu>. Addi tested POE and L<POE::Component::IRC|POE::Component::IRC> on Windows, finding bugs and testing fixes. He appears throughout the Changes file. He has also written "cpoe", which is a POE-like library for C.

=item Dave Paris

Dave Paris is <dparis@w3works.com>. Dave tested and benchmarked POE around version 0.05, discovering some subtle (and not so subtle) timing problems. The pre-forking server sample was his idea.
Versions 0.06 and later scaled to higher loads because of his work. He has contributed a lot of testing and feedback, much of which is tagged in the Changes file as a-mused. The man is scarily good at testing and troubleshooting.

=item Dieter Pearcey

Dieter Pearcey is <dieter@bullfrog.perlhacker.org>. He goes by several Japanese nicknames. Dieter's current area of expertise is in Wheels and Filters. He greatly improved L<POE::Wheel::FollowTail|POE::Wheel::FollowTail>, and his Filter contributions include the basic Block filter, as well as Stackable, RecordBlock, Grep and Map.

=item Plixer International

Plixer International is at L<http://plixer.com/>. Their sponsorship has helped POE 1.300 and beyond be significantly more robust using iThreads, especially when using fork() in Windows.

=item Robert Seifer

Robert Seifer is <e-mail unknown>. He rotates IRC nicknames regularly.

Robert contributed entirely too much time, both his own and his computers, towards the detection and eradication of a memory corruption bug that POE tickled in earlier Perl versions. In the end, his work produced a simple compile-time hack that worked around a problem relating to anonymous subs, scope and @{} processing.

=item Matt Sergeant

Matt contributed C<POE::Kernel::Poll>, a more efficient way to watch multiple files than select(). It's since been moved to L<POE::Loop::IO_Poll|POE::Loop::IO_Poll>.

=item Richard Soderberg

Richard Soderberg is <poe@crystalflame.net>, aka C<coral>. Richard is a collaborator on several side projects involving POE. His work provides valuable testing and feedback from a user's point of view.

=item Dennis Taylor

Dennis Taylor is <dennis@funkplanet.com>. Dennis has been testing, debugging and patching bits here and there, such as Filter::Line which he improved by leaps in 0.1102. He's also the author of L<POE::Component::IRC|POE::Component::IRC>, the widely popular POE-based successor to his
wildly popular L<Net::IRC|Net::IRC> library.

=item David Davis

David Davis, aka Xantus is <xantus@cpan.org>. David contributed patches to the HTTPD filter, and added CALLER_STATE to L<POE::Session|POE::Session>. He is the author of L<Sprocket>, a networking framework built on POE.

=item Others?

Please contact the author if you've been forgotten and would like to be included here.

Z<TODO - This section has fallen into disrepair. A POE historian needs to cull the CHANGES for the names of major contributors.>

=back

=head2 Author

=over 2

=item Rocco Caputo

Rocco Caputo is <rcaputo@cpan.org>. POE is his brainchild. He wishes to thank you for your interest, and he has more thanks than he can count for all the people who have contributed. POE would not be nearly as cool without you.

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=back

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=cut

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# and redistributed under the same terms as Perl itself.

# Generate a nice looking change log from the subversion logs for a
# Perl project. The log is also easy for machines to parse.

<snip>
from META.yml

---
abstract: 'Portable, event-loop agnostic eventy networking and multitasking.'
author:
  - 'Rocco Caputo <rcaputo@cpan.org>'
buidl_requires:
  POE::Test::Loops: 1.350
configure_requires:
  Module::Build: 0.36
  POE::Test::Loops: 1.350
generated_by: 'Module::Build version 0.3607'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: POE
no_index:
directory:
  - mylib
  - t
provides:
POE:
  file: lib/POE.pm
  version: 1.350
POE::Component:
  file: lib/POE/Component.pm
  version: 1.350
POE::Component::Client::TCP:
  file: lib/POE/Component/Client/TCP.pm
  version: 1.350
POE::Component::Server::TCP:
  file: lib/POE/Component/Server/TCP.pm
  version: 1.350
POE::Driver:
  file: lib/POE/Driver.pm
  version: 1.350
POE::Driver::SysRW:
  file: lib/POE/Driver/SysRW.pm
  version: 1.350
POE::Filter:
  file: lib/POE/Filter.pm
  version: 1.350
POE::Filter::Block:
  file: lib/POE/Filter/Block.pm
  version: 1.350
POE::Filter::Grep:
  file: lib/POE/Filter/Grep.pm
  version: 1.350
POE::Filter::HTTPD:
  file: lib/POE/Filter/HTTPD.pm
  version: 1.350
POE::Filter::Line:
  file: lib/POE/Filter/Line.pm
  version: 1.350
POE::Filter::Map:
  file: lib/POE/Filter/Map.pm
  version: 1.350
POE::Filter::RecordBlock:
  file: lib/POE/Filter/RecordBlock.pm
  version: 1.350
POE::Filter::Reference:
  file: lib/POE/Filter/Reference.pm
  version: 1.350
POE::Filter::Stackable:
  file: lib/POE/Filter/Stackable.pm
  version: 1.350
POE::Filter::Stream:
  file: lib/POE/Filter/Stream.pm
  version: 1.350
POE::Kernel:
  file: lib/POE/Kernel.pm
  version: 1.350
POE::Loop:
  file: lib/POE/Loop.pm
  version: 1.350
POE::Loop::IO_Poll:
  file: lib/POE/Loop/IO_Poll.pm
  version: 1.350
POE::Loop::PerlSignals:
  file: lib/POE/Loop/PerlSignals.pm
  version: 1.350
POE::Loop::Select:
  file: lib/POE/Loop/Select.pm
  version: 1.350
POE::NFA:
  file: lib/POE/NFA.pm
  version: 1.350
POE::Pipe:
  file: lib/POE/Pipe.pm
  version: 1.350
POE::Pipe::OneWay:
  file: lib/POE/Pipe/OneWay.pm
  version: 1.350
POE::Pipe::TwoWay:
  file: lib/POE/Pipe/TwoWay.pm
  version: 1.350
POE::Queue:
  file: lib/POE/Queue.pm
  version: 1.350
POE::Queue::Array:
  file: lib/POE/Queue/Array.pm
  version: 1.350
POE::Resource:
  file: lib/POE/Resource.pm
  version: 1.350
POE::Resource::Aliases:
  file: lib/POE/Resource/Aliases.pm
  version: 1.350
POE::Resource::Events:
  file: lib/POE/Resource/Events.pm
  version: 1.350
POE::Resource::Extrefs:
  file: lib/POE/Resource/Extrefs.pm
  version: 1.350
POE::Resource::FileHandles:
  file: lib/POE/Resource/FileHandles.pm
  version: 1.350
POE::Resource::SIDs:
  file: lib/POE/Resource/SIDs.pm
  version: 1.350
POE::Resource::Sessions:
  file: lib/POE/Resource/Sessions.pm
  version: 1.350
POE::Resource::Signals:
  file: lib/POE/Resource/Signals.pm
  version: 1.350
POE::Resources:
  file: lib/POE/Resources.pm
  version: 1.350
POE::Session:
  file: lib/POE/Session.pm
  version: 1.350
POE::Wheel:
  file: lib/POE/Wheel.pm
  version: 1.350
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The hypothetical commands `show w' and `show c' should show the
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Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
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10.303 POE-XS-Queue-Array 0.0060

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from Array.pm

<snip>

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=head1 AUTHOR
Tony Cook <tonyc@cpan.org>

=cut

From META.yml

--- #YAML:1.0
name:                POE-XS-Queue-Array
version:             0.006
abstract:            XS version of POE::Queue::Array
license:             perl
author:
  - Tony Cook <tonyc@cpan.org>
generated_by:        ExtUtils::MakeMaker version 6.42
distribution_type:   module
requires:
  POE:                           0.29
meta-spec:
  url:     http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3

From README

<br/>&lt;snip&gt;

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10.306 protobuf 2.4.1

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* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
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10.309 pyparsing 2.0.1

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*******************
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
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Mersenne Twister
----------------

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

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

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MD5 message digest algorithm

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L. Peter Deutsch
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Independent implementation of MD5 (RFC 1321).

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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.

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

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10.314 Return-Value 1.666001

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

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

That's all there is to it!

10.315 rpm 4.2.1

10.315.1 Available under license:

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Id: LEGAL.NOTICE,v 1.11 1999/01/14 16:30:12 christos Exp
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Version 2, June 1991

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

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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10.318 rrdtool 1.4.9
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That's all there is to it!
$Id$

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

Alan Lichty <alan_lichty with eli.net>
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Alex van den Bogaerdt <alex with ergens.op.het.net> (rrd_resize.c and more)
Amos Shapira <amos with gezernet.co.il>
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

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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:

Gnomovision version 69, Copyright (C) 19yy 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.

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

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:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

10.321 Safe 2.33
10.321.1 Available under license :

The "Artistic License"

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10.322 Scalar-List-Utils 1.22

10.322.1 Available under license:

From README

This distribution is a replacement for the builtin distribution.

This package contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

After unpacking the distribution, to install this module type

    perl Makefile.PL
    make
    make test
    make install

KNOWN BUGS

There is a bug in perl5.6.0 with UVs that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing

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at assemblers) written by James Hacker.

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

That's all there is to it!

10.323 Schedule-Cron 0.99

10.323.1 Available under license:
    from /lib/Schedule/Cron.pm

    <snip>
=head1 LICENSE

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=head1 AUTHOR

... roland

=cut

1;

From META.yml

---
name: Schedule-Cron
version: 0.99
author:
  - Roland Huss (roland@cpan.org)
abstract: cron-like scheduler for Perl subroutines
license: perl
resources:
  license: http://dev.perl.org/licenses/
built_requires:
  Test: 0
  Test::More: 0
requires:
  Data::Dumper: 0
  Time::ParseDate: 99.00
recommends:
  Module::Build: 0
  ioctl.ph: 0
  sys::ioctl.ph: 0
configure_requires:
  Module::Build: 0.34
provides:
  Schedule::Cron:
    file: lib/Schedule/Cron.pm
    version: 0.99
generated_by: Module::Build version 0.34
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10.326 Set-Crontab 1.02

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From Crontab.pm

<snip>

=head1 AUTHOR

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From README

<snip>

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10.327 Set-Infinite 0.63

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Ty Coon, President of Vice

That's all there is to it!
10.328 Set-Scalar 1.26

10.328.1 Available under license:

from lib/Set/Scalar.pm

=head1 AUTHOR

Jarkko Hietaniemi <jhi@iki.fi>

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=cut

1;
From META.yml

---
abstract: unknown
author:
  - Jarkko Hietaniemi <jhi@iki.fi>
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120630'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Set-Scalar
no_index:
directory:
  - t
  - inc
requires: {}
version: 1.26
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gai.h, getaddrinfo.c and getnameinfo.c are based on ssh-1.2.27-IPv6-1.5 written by KIKUCHI Takahiro
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10.339 Storable 2.21
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   from /t/forgive.t
   =============

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#
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============
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+=======================================================================
| Storable is distributed as a module, but is also part of the official
| Perl core distribution, as of perl 5.8.
| Maintenance is now done by the perl5-porters. We thank Raphael
| Manfredi for providing us with this very useful module.
+=======================================================================

The Storable extension brings persistency to your data.

You may recursively store to disk any data structure, no matter how
complex and circular it is, provided it contains only SCALAR, ARRAY,
HASH (possibly tied) and references (possibly blessed) to those items.

At a later stage, or in another program, you may retrieve data from
the stored file and recreate the same hierarchy in memory. If you
had blessed references, the retrieved references are blessed into
the same package, so you must make sure you have access to the
same perl class than the one used to create the relevant objects.

There is also a dclone() routine which performs an optimized mirroring
of any data structure, preserving its topology.

Objects (blessed references) may also redefine the way storage and
retrieval is performed, and/or what deep cloning should do on those
objects.

To compile this extension, run:

   perl Makefile.PL [PERL_SRC=...where you put perl sources...]
   make
   make install

There is an embedded POD manual page in Storable.pm.
Storable was written by Raphael Manfredi <Raphael_Manfredi@pobox.com>
Maitainance is now done by the perl5-porters <perl5-porters@perl.org>

Please e-mail us with problems, bug fixes, comments and complaints,
although if you have complements you should send them to Raphael.
Please don't e-mail Raphael with problems, as he no longer works on
Storable, and your message will be delayed while he forwards it to us.

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

Thanks to (in chronological order):

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Justin Banks <justinb@wamnet.com>
Jarkko Hietaniemi <jhi@iki.fi> (AGAIN, as perl 5.7.0 Pumpkin!)

for their contributions.

A Japanese translation of this man page is available at the Japanized

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

The perl5-porters would like to thank

Raphael Manfredi <Raphael_Manfredi@pobox.com>

According to the perl5.8 Changes file, the following people have helped
bring you this Storable release:

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If I've missed you out, please accept my apologies, and e-mail your
patch to perl5-porters@perl.org.

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10.343 Sub-Uplevel 0.22

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============
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Michael G Schwern <schwern@pobox.com> (original author)

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SEE ALSO
PadWalker (for the similar idea with lexicals), Hook::LexWrap, Tcl's uplevel() at http://www.scriptics.com/man/tcl8.4/TclCmd/uplevel.htm

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10.348 Sys-Syslog 0.32
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---
abstract: 'Perl interface to the UNIX syslog(3) calls'
author:
- 'Sebastien Aperghis-Tramoni <sebastien@aperghis.net>'
build_requires:
ExtUtils::MakeMaker: 0
configure_requires:
NAME

Sys::Syslog - Perl interface to the UNIX syslog(3) calls

DESCRIPTION

Sys::Syslog is an interface to the UNIX syslog(3) program. Call syslog() with a string priority and a list of printf() args just like syslog(3).

INSTALLATION

To install this module, run the following commands:

$ perl Makefile.PL
$ make
$ make test
$ make install

An ANSI-compliant compiler is required to compile the extension.

Sys::Syslog should work on any Perl since 5.6.0. This module is
regularly compiled and tested by the CPAN Testers on various combinations of Perl and operating systems.

See also the corresponding CPAN Testers page:
http://testers.cpan.org/show/Sys-Syslog.html

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

perldoc Sys::Syslog

You can also look for information at:

Search CPAN
http://search.cpan.org/dist/Sys-Syslog/

MetaCPAN
https://metacpan.org/module/Sys::Syslog

CPAN Request Tracker:
http://rt.cpan.org/NoAuth/Bugs.html?Dist=Sys-Syslog

AnnoCPAN, annotated CPAN documentation:
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from Syslog.pm

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    <signature of Ty Coon>, 1 April 1989
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That's all there is to it!
10.349 sysfsutils 2.1.0

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library
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not covered by this License, and distribute such a combined library,
provided that the separate distribution of the work based on the Library
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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.

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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
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work, in isolation, is not a derivative work of the Library, and
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

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

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10.353 tar 1.27.1

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10.359 tcsh 6.20.00
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 */

/*
 * config.h -- configure various defines for tcsh
 *
 * All source files should #include this FIRST.
 *
 * Edit this to match your system type.
 */

#ifndef _h_config
#define _h_config
/******************** System dependant compilation flags ******************/

/*
 * POSIX This system supports IEEE Std 1003.1-1988 (POSIX).
 */
/* undefined POSIX */

/*
 * POSIXJOBS
This system supports the optional IEEE Std 1003.1-1988 (POSIX)
*job control facilities.
*/
#undef POSIXJOBS

/*
 * VFORK
This machine has a vfork().
*It used to be that for job control to work, this define
*was mandatory. This is not the case any more.
*If you think you still need it, but you don't have vfork,
*define this anyway and then do #define vfork fork.
*I do this anyway on a Sun because of yellow pages brain damage,
*[should not be needed under 4.1]
*and on the iris4d cause SGI's fork is sufficiently "virtual"
*that vfork isn't necessary. (Besides, SGI's vfork is weird).
*Note that some machines eg. rs6000 have a vfork, but not
*with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
 * BSDJOBS
You have BSD-style job control (both process groups and
*a tty that deals correctly
*/
#define BSDJOBS

/*
 * BSDTIMES
You have BSD-style process time stuff (like rusage)
*This may or may not be true. For example, Apple Unix
*(OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*
 * BSDLIMIT
You have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT

/*
 * TERMIO
You have struct termio instead of struct sgttyb.
* This is usually the case for SYSV systems, where
*BSD uses sgttyb. POSIX systems should define this
*anyway, even though they use struct termios.
*/
#undef TERMIO
OPEN SOURCE USED IN FIREPOWER 6.3

/*
SYSVREL Your machine is SYSV based (HPUX, A/UX)
*NOTE: don't do this if you are on a Pyramid -- tcsh is
*built in a BSD universe.
*Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
*you are running. Or set it to 0 if you are not SYSV based
*
#define SYSVREL0
*/

/*
YPBUGS Work around Sun YP bugs that cause expansion of ~username
*to send command output to /dev/null
*/
#undef YPBUGS

/******************** local defines ******************/

#endif /* _h_config */

--

10.360 telnet-OpenBSD 2.0020321E7

10.360.1 Available under license :

"OpenBSD: telnet.1,v 1.28 2001/06/23 22:14:27 hin Exp $"
"NetBSD: telnet.1,v 1.5 1996/02/28 21:04:12 thorpej Exp $"

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from: @(#)telnet.1	8.4 (Berkeley) 2/3/94

Dd February 3, 1994
Dt TELNET 1
Os
Sh NAME
Nm telnet
Nd user interface to the
Tn TELNET
protocol
Sh SYNOPSIS
Nm telnet
Op Fl 8EFKLacdf
Op Fl X Ar authtype
Op Fl b Ar hostalias
Op Fl e Ar escapechar
Op Fl k Ar realm
Op Fl l Ar user
Op Fl n Ar tracefile
Oo
Ar host
Op Ar port
Oc
Sh DESCRIPTION
The
Nm
command
is used to communicate with another host using the
Tn TELNET
protocol.
If
Nm
is invoked without the
Ar host
argument, it enters command mode,
indicated by its prompt
Pq Nm telnet\&>
.
In this mode, it accepts and executes the commands listed below.
If it is invoked with arguments, it performs an
.command with those arguments.
The options are as follows:
.specifies an 8-bit data path.
This causes an attempt to negotiate the
Telnet BINARY
option on both input and output.
Stops any character from being recognized as an escape character.
If Kerberos 5 authentication is being used, the
option allows the local credentials to be forwarded
to the remote system, including any credentials that
have already been forwarded into the local environment.
Specifies no automatic login to the remote system.
Specifies an 8-bit data path on output.
This causes the BINARY option to be negotiated on output.
Disables the
type of authentication.
Attempt automatic login.
Currently, this sends the user name via the
variable
of the
option if supported by the remote system.
The name used is that of the current user as returned by
if it agrees with the current user ID,
otherwise it is the name associated with the user ID.
Uses
on the local socket to bind it to an aliased address (see
and the "alias" specifier) or to the address of
another interface than the one naturally chosen by.
This can be useful when connecting to services which use IP addresses for authentication and reconfiguration of the server is undesirable (or impossible).

.It Fl c
Disables the reading of the user's .Pa \&.telnetrc file.
(See the .Ic toggle skiprc command on this man page.)

.It Fl d
Sets the initial value of the .Ic debug toggle to .Dv TRUE .

.It Fl e Ar escapechar
Sets the initial .Nm escape character to .Ar escapechar Ns .
If .Ar escapechar is omitted, then there will be no escape character.

.It Fl f
If Kerberos 5 authentication is being used, the .Fl f option allows the local credentials to be forwarded to the remote system.

.It Fl k Ar realm
If Kerberos authentication is being used, the .Fl k option requests that .Nm obtain tickets for the remote host in realm .Ar realm instead of the remote host's realm, as determined by .Xr krb_realmofhost 3 .

.It Fl l Ar user
When connecting to the remote system, if the remote system understands the .Ev ENVIRON option, then .Ar user will be sent to the remote system as the value for the variable USER. This option implies the .Fl a
option.
This option may also be used with the
.Jc open
command.
.Ic Fl n Ar tracefile
Opens
.Arg tracefile
for recording trace information.
See the
.Jc set tracefile
command below.
.Ic Fl r
Specifies a user interface similar to
.Xr rlogin 1 .
In this
mode, the escape character is set to the tilde (~) character,
unless modified by the
.Fl e
option.
.Ic Fl x
Turns on encryption of the data stream if Kerberos is used.
.Ic Ar host
Indicates the official name, an alias, or the Internet address
of a remote host.
.Ic Ar port
Indicates a port number (address of an application).
If a number is not specified, the default
.Nm
port is used.
.El
.Pp
When in rlogin mode, a line of the form ~
disconnects from the
remote host; ~ is the telnet escape character.
Similarly, the line ~^[ suspends the telnet session.
The line ~^[ escapes to the normal telnet escape prompt.
.Pp
Once a connection has been opened,
.Nm
will attempt to enable the
.Dv TELNET LINEMODE
option.
If this fails,
.Nm
will revert to one of two input modes:
either "character at a time"
or "old line by line"
depending on what the remote system supports.
When .Dv LINEMODE is enabled, character processing is done on the local system, under the control of the remote system. When input editing or character echoing is to be disabled, the remote system will relay that information. The remote system will also relay changes to any special characters that happen on the remote system, so that they can take effect on the local system.

In "character at a time" mode, most text typed is immediately sent to the remote host for processing.

In "old line by line" mode, all text is echoed locally, and (normally) only completed lines are sent to the remote host. The "local echo character" (initially "^E") may be used to turn off and on the local echo (this would mostly be used to enter passwords without the password being echoed).

If the .Dv LINEMODE option is enabled, or if the .Ic localchars toggle is .Dv TRUE (the default for "old line by line"; see below), the user's .Ic quit , .Ic intr , and .Ic flush characters are trapped locally, and sent as .Tn TELNET protocol sequences to the remote side. If .Dv LINEMODE has ever been enabled, then the user's .Ic susp and .Ic eof are also sent as .Tn TELNET protocol sequences, and .Ic quit
is sent as a
.Dv TELNET ABORT
instead of
.Dv BREAK .
There are options (see
.Ic toggle
.Ic autoflush
and
.Ic toggle
.Ic autosynch
below)
which cause this action to flush subsequent output to the terminal
(usually remote host acknowledges the
.Tn TELNET
sequence) and flush previous terminal input
(in the case of
.Ic quit
and
.Ic intr ).
.Pp
While connected to a remote host,
.Nm
command mode may be entered by typing the
.Nm
"escape character" (initially "^[").
When in command mode, the normal terminal editing conventions are available.
Note that the escape character will return to the command mode of the initial
invocation of
.Nm
that has the controlling terminal.
Use the
.Cm send escape
command to switch to command mode in subsequent
.Nm
processes on remote hosts.
.Pp
The following
.Nm
commands are available.
Only enough of each command to uniquely identify it need be typed
(this is also true for arguments to the
.Ic mode ,
.Ic set ,
.Ic toggle ,
.Ic unset ,
.Ic slc ,
.Ic environ ,
and
The `.ic auth` command manipulates the information sent through the `.Dv TELNET AUTHENTICATE` option.

Valid arguments for the `.ic auth` command are as follows:

- `.ic disable Ar type`
  
  Disables the specified `.Ar type` of authentication. The `.ic auth disable Ar type` command.

- `.ic enable Ar type`
  
  Enables the specified `.Ar type` of authentication. The `.ic auth enable Ar type` command.

- `.ic status`

  Lists the current status of the various types of authentication.

- `.ic close`

  Close a `.Tn TELNET` session and return to command mode.

- `.ic display Ar argument Op Ar ...`

  Displays all, or some, of the `.ic set` and `.ic toggle` values (see below).

- `.ic encrypt Ar argument Op Ar ...`

  The `.ic encrypt` command manipulates the information sent through the `.Dv TELNET ENCRYPT` option that's available when Kerberos is used.
Valid arguments for the encrypt command are as follows:

- **.Bl -tag -width Ar**
- **.It Ic disable Ar type Ic [input|output]**
  Disables the specified
  .Ar type
  of encryption.
  If you omit
  .Ic input
  and
  .Ic output,
  both input and output
  are disabled.
To obtain a list of available types, use the
. Ic encrypt disable \\&?
command.
- **.It Ic enable Ar type Ic [input|output]**
  Enables the specified
  .Ar type
  of encryption.
  If you omit
  .Ic input
  and
  .Ic output,
  both input and output are
  enabled.
To obtain a list of available types, use the
. Ic encrypt enable \\&?
command.
- **.It Ic input**
  This is the same as the
  .Ic encrypt start input
  command.
- **.It Ic -input**
  This is the same as the
  .Ic encrypt stop input
  command.
- **.It Ic output**
  This is the same as the
  .Ic encrypt start output
  command.
- **.It Ic -output**
  This is the same as the
  .Ic encrypt stop output
  command.
- **.It Ic start Ic [input|output]**
  Attempts to start encryption.
  If you omit
  .Ic input
and
.Ic output ,
both input and output are enabled.
To obtain a list of available types, use the
.Ic encrypt enable \&?
command.
.Ic status
Lists the current status of encryption.
.Ic stop Ic [input|output]
Stops encryption.
If you omit
.Ic input
and
.Ic output ,
encryption is on both input and output.
.Ic type Ar type
Sets the default type of encryption to be used
with later
.Ic encrypt start
or
.Ic encrypt stop
commands.
.El
.Ic environ Ar arguments Op Ar ...
The
.Ic environ
command is used to manipulate the
variables that may be sent through the
.Dv TELNET ENVIRON
option.
The initial set of variables is taken from the users
environment, with only the
.Ev DISPLAY
and
.Ev PRINTER
variables being exported by default.
The
.Ev USER
variable is also exported if the
.Fl a
or
.Fl l
options are used.
.br
Valid arguments for the
.Ic environ
command are:
.Bl -tag -width Fl
.It lc define Ar variable value
Define the variable
.Ar variable
to have a value of
.Ar value .
Any variables defined by this command are automatically exported.
The
.Ar value
may be enclosed in single or double quotes so
that tabs and spaces may be included.
.It lc undefine Ar variable
Remove
.Ar variable
from the list of environment variables.
.It lc export Ar variable
Mark the variable
.Ar variable
to be exported to the remote side.
.It lc unexport Ar variable
Mark the variable
.Ar variable
to not be exported unless
explicitly asked for by the remote side.
.It lc list
List the current set of environment variables.
Those marked with a
.Cm *
will be sent automatically,
other variables will only be sent if explicitly requested.
.It lc \&?
Prints out help information for the
.lc environ
command.
.El
.It lc logout
Sends the
.Dv TELNET LOGOUT
option to the remote side.
This command is similar to a
.lc close
command; however, if the remote side does not support the
.Dv LOGOUT
option, nothing happens.
If, however, the remote side does support the
.Dv LOGOUT
option, this command should cause the remote side to close the
.Tn TELNET
connection.
If the remote side also supports the concept of suspending a user's session for later reattachment, the logout argument indicates that you should terminate the session immediately.

`.It Ic mode Ar type
`.Ar type
is one of several options, depending on the state of the `.Tn TELNET
session.
The remote host is asked for permission to go into the requested mode. If the remote host is capable of entering that mode, the requested mode will be entered.

`.Bl -tag -width Ar
`.It Ic character
Disable the `.Dv TELNET LINEMODE
option, or, if the remote side does not understand the `.Dv LINEMODE
option, then enter "character at a time" mode.
`.It Ic line
Enable the `.Dv TELNET LINEMODE
option, or, if the remote side does not understand the `.Dv LINEMODE
option, then attempt to enter "old-line-by-line" mode.
`.It Ic isig Pq Ic \-isig
Attempt to enable (disable) the `.Dv TRAPSIG
mode of the `.Dv LINEMODE
option.
This requires that the `.Dv LINEMODE
option be enabled.
`.It Ic edit Pq Ic \-edit
Attempt to enable (disable) the `.Dv EDIT
mode of the `.Dv LINEMODE
option.
This requires that the `.Dv LINEMODE
option be enabled.
`.It Ic softtabs Pq Ic \-softtabs
Attempt to enable (disable) the `.Dv SOFT_TAB
mode of the `.Dv LINEMODE
option.
This requires that the
.Dv LINEMODE
option be enabled.
'It Ic litecho Pq Ic \-litecho
Attempt to enable (disable) the
.Dv LIT_ECHO
mode of the
.Dv LINEMODE
option.
This requires that the
.Dv LINEMODE
option be enabled.
'It Ic \&?
Prints out help information for the
.Ic mode
command.
.El
'It Xo
'.Ic open Ar host
.'Op Fl l Ar user
.'Oo Op Fl
.'Ar port Oc
.'Xc
Open a connection to the named host.
If no port number
is specified,
.'Nm
will attempt to contact a
.'Tn TELNET
server at the default port.
The host specification may be either a host name (see
.Xr hosts 5 )
or an Internet address specified in the "dot notation" (see
.Xr inet 3 ) .
The
.'Fl l
option may be used to specify the user name
to be passed to the remote system via the
.'Ev ENVIRON
option.
When connecting to a non-standard port,
.'Nm
omits any automatic initiation of
.'Tn TELNET
options.
When the port number is preceded by a minus sign,
the initial option negotiation is done.
After establishing a connection, the file .Pa \&.telnetrc in the user's home directory is opened. Lines beginning with a "#" are comment lines. Blank lines are ignored. Lines that begin without whitespace are the start of a machine entry. The first thing on the line is the name of the machine that is being connected to. The rest of the line, and successive lines that begin with whitespace are assumed to be .Nm commands and are processed as if they had been typed in manually to the .Nm command prompt.

.IT Ic quit
Close any open .Tn TELNET session and exit .Nm telnet . An end-of-file (in command mode) will also close a session and exit.

.IT Ic send Ar arguments Sends one or more special character sequences to the remote host. The following are the arguments which may be specified (more than one argument may be specified at a time):

.BI -tag -width escape
.IT Ic abort Sends the .Dv TELNET ABORT (Abort processes) sequence.
.IT Ic ao Sends the .Dv TELNET AO (Abort Output) sequence, which should cause the remote system to flush all output .Em from the remote system .Em to the user's terminal.

.IT Ic ayt Sends the .Dv TELNET AYT (Are You There)
sequence, to which the remote system may or may not choose to respond.

. It Ic brk
Sends the
.Dv TELNET BRK
(Break) sequence, which may have significance to the remote system.

. It Ic ec
Sends the
.Dv TELNET EC
(Erase Character) sequence, which should cause the remote system to erase the last character entered.

. It Ic el
Sends the
.Dv TELNET EL
(Erase Line) sequence, which should cause the remote system to erase the line currently being entered.

. It Ic eof
Sends the
.Dv TELNET EOF
(End Of File) sequence.

. It Ic eor
Sends the
.Dv TELNET EOR
(End of Record) sequence.

. It Ic escape
Sends the current
.Nm
escape character (initially “^]”).

. It Ic ga
Sends the
.Dv TELNET GA
(Go Ahead) sequence, which likely has no significance to the remote system.

. It Ic getstatus
If the remote side supports the
.Dv TELNET STATUS command,
.Ic getstatus
will send the subnegotiation to request that the server send its current option status.

. It Ic ip
Sends the
.Dv TELNET IP
(Interrupt Process) sequence, which should cause the remote
system to abort the currently running process.

It Ic nop
Sends the
.Dv TELNET NOP
(No OPeration)
sequence.

It Ic susp
Sends the
.Dv TELNET SUSP
(SUSPend process)
sequence.

It Ic synch
Sends the
.Dv TELNET SYNCH
sequence.
This sequence causes the remote system to discard all previously typed
(but not yet read) input.
This sequence is sent as
.Tn TCP
urgent
data (and may not work if the remote system is a
.Bx 4.2
system -- if
it doesn't work, a lower case "r" may be echoed on the terminal).

It Ic do Ar cmd
Sends the
.Dv TELNET DO
.Ar cmd
sequence.
.Ar cmd
can be either a decimal number between 0 and 255,
or a symbolic name for a specific
.Dv TELNET
command.
.Ar cmd
can also be either
.Ic help
or
.Ic \\?
to print out help information, including
a list of known symbolic names.

It Ic dont Ar cmd
Sends the
.Dv TELNET DONT
.Ar cmd
sequence.
.Ar cmd
can be either a decimal number between 0 and 255,
or a symbolic name for a specific
.Dv TELNET
command.
.Ar cmd
can also be either
.Ic help
or
.Ic \\&?
to print out help information, including
a list of known symbolic names.
.It Ic will Ar cmd
Sends the
.Dv TELNET WILL
.Ar cmd
sequence.
.Ar cmd
can be either a decimal number between 0 and 255,
or a symbolic name for a specific
.Dv TELNET
command.
.Ar cmd
can also be either
.Ic help
or
.Ic \\&?
to print out help information, including
a list of known symbolic names.
.It Ic wont Ar cmd
Sends the
.Dv TELNET WONT
.Ar cmd
sequence.
.Ar cmd
can be either a decimal number between 0 and 255,
or a symbolic name for a specific
.Dv TELNET
command.
.Ar cmd
can also be either
.Ic help
or
.Ic \\&?
to print out help information, including
a list of known symbolic names.
.It Ic \\?
Prints out help information for the
.Ic send
command.
The `.IC set` command will set any one of a number of `.NM` variables to a specific value or to `.Dv TRUE`. The special value `.IC off` turns off the function associated with the variable; this is equivalent to using the `.IC unset` command.

The `.IC unset` command will disable or set to `.Dv FALSE` any of the specified functions. The values of variables may be interrogated with the `.IC display` command.

The variables which may be set or unset, but not toggled, are listed here. In addition, any of the variables for the `.IC toggle` command may be explicitly set or unset using the `.IC set` and `.IC unset` commands.

If `.Tn TELNET` is in `.IC localchars` mode, or `.Dv LINEMODE` is enabled, and the status character is typed, a `.Dv TELNET AYT` sequence (see `.IC send ayt` preceding) is sent to the remote host.

The initial value for the "Are You There"
This is the value (initially "^E") which, when in
"line by line" mode, toggles between doing local echoing
of entered characters (for normal processing), and suppressing
echoing of entered characters (for entering, say, a password).

If

is operating in

or "old line by line" mode, entering this character
as the first character on a line will cause this character to be
sent to the remote system.
The initial value of the

character is taken to be the terminal's

character.

If

is in

mode (see

below),

and if

is operating in "character at a time" mode, then when this
character is typed, a

sequence (see

above)
is sent to the remote system.
The initial value for the

character is taken to be
the terminal's

character.

This is the

escape character (initially "^[" which causes entry
into
acommand mode (when connected to a remote system).
  .It Ic flushoutput
  If
  .Nm
  is in
  .Ic localchars
  mode (see
  .Ic toggle
  .Ic localchars
  below)
and the
  .Ic flushoutput
  character is typed, a
  .Dv TELNET AO
  sequence (see
  .Ic send
  .Ic ao
  above)
is sent to the remote host.
The initial value for the
  .Ic flush
  character is taken to be
  the terminal's
  .Ic flush
  character.
  .It Ic forw1
  .It Ic forw2
  If
  .Tn TELNET
  is operating in
  .Dv LINEMODE ,
  these are the
  characters that, when typed, cause partial lines to be
  forwarded to the remote system.
The initial value for
  the forwarding characters are taken from the terminal's
  eol and eol2 characters.
  .It Ic interrupt
  If
  .Nm
  is in
  .Ic localchars
  mode (see
  .Ic toggle
  .Ic localchars
  below)
and the
.Dv TELNET IP
sequence (see
.Nm send
.Nm ip
above)
is sent to the remote host.
The initial value for the
.Nm interrupt
character is taken to be
the terminal's
.Nm intr
character.
.Nm Is in
.Nm localchars
mode (see
.Nm toggle
.Nm localchars
below),
and if
.Nm is operating in "character at a time" mode, then when this
character is typed, a
.Dv TELNET EL
sequence (see
.Nm send
.Nm el
above)
is sent to the remote system.
The initial value for the
.Nm kill
character is taken to be
the terminal's
.Nm kill
character.
.Nm Is in
.Nm next
If
.Nm is operating in
.Dv LINEMODE
or "old line by line" mode, then this character is taken to
be the terminal's
.Nm next
character.
The initial value for the
.Ic lnext
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character.
If set, the normal .Tn TELNET escape character is ignored unless it is preceded by this character at the beginning of a line. This character, at the beginning of a line, followed by a "," closes the connection; when followed by a ^Z it suspends the .Nm command.

The initial state is to disable the .Ic rlogin escape character.

If the .Dv TELNET TOGGLE-FLOW-CONTROL option has been enabled, then this character is taken to be the terminal's .Ic start character.

The initial value for the .Ic start character is taken to be the terminal's .Ic start character.

If the .Dv TELNET TOGGLE-FLOW-CONTROL option has been enabled, then this character is taken to be the terminal's .Ic stop character.

The initial value for the .Ic stop character is taken to be the terminal's .Ic stop character.

If .Nm is in .Ic localchars mode, or .Dv LINEMODE
is enabled, and the `suspend` character is typed, a `TELNET SUSP` sequence (see `send susp` above) is sent to the remote host. The initial value for the `suspend` character is taken to be the terminal's `suspend` character.

- `tracefile`
  This is the file to which the output, caused by `netdata` or `option tracing` being `TRUE`, will be written. If it is set to `Fl`, then tracing information will be written to standard output (the default).

- `worderase`
  If `Nm` is operating in `LINEMODE` or "old line by line" mode, then this character is taken to be the terminal's `worderase` character. The initial value for the `worderase` character is taken to be the terminal's `worderase` character.

- `&?`
  Displays the legal `set` `Pq` `unset` commands.

- `Ar` sequence challenge
The `skey` command computes a response to the S/Key challenge.
See `skey(1)` for more information on the S/Key system.

The `slc` command (Set Local Characters) is used to set or change the state of the special characters when the `TELNET LINEMODE` option has been enabled.

Special characters are characters that get mapped to `TELNET` commands sequences (like `ip` or `quit`) or line editing characters (like `erase` and `kill`).

By default, the local special characters are exported.

Verify the current settings for the current special characters. The remote side is requested to send all the current special character settings, and if there are any discrepancies with the local side, the local side will switch to the remote value.

Switch to the local defaults for the special characters. The local default characters are those of the local terminal at the time when `nm` was started.

Switch to the remote defaults for the special characters. The remote default characters are those of the remote system at the time when the `TELNET` connection was established.

Prints out help information for the `slc` command.
.El
.El It lc status
Show the current status of
.Nm telnet .
This includes the peer one is connected to, as well
as the current mode.
.El It lc toggle Ar arguments Op Ar ...
Toggle (between
.Dv TRUE
and
.Dv FALSE )
various flags that control how
.Nm
responds to events.
These flags may be set explicitly to
.Dv TRUE
or
.Dv FALSE
using the
.Lc set
and
.Lc unset
commands listed above.
More than one argument may be specified.
The state of these flags may be interrogated with the
.Lc display
command.
Valid arguments are:
.BL -tag -width Ar
 .It lc authdebug
Turns on debugging information for the authentication code.
 .It lc autoflush
If
 .Lc autoflush
and
 .Lc localchars
are both
 .Dv TRUE ,
then when the
 .Lc ao
or
 .Lc quit
characters are recognized (and transformed into
.Tn TELNET
sequences; see
 .Lc set
above for details),
 .Nm
refuses to display any data on the user's terminal until the remote system acknowledges (via a
.TE TELNET TIMING MARK
option)
that it has processed those
.TE TELNET
sequences.
The initial value for this toggle is
.TE TRUE
if the terminal user had not
done an "stty noflsh", otherwise
.TE FALSE
(see
.Xr stty 1 ).
.TI Ic autodecrypt
When the
.TE TELNET ENCRYPT
option is negotiated, by
default the actual encryption (decryption) of the data stream does not start automatically.
The
.TI Ic autoencrypt
.TP Ic autodecrypt
command states that encryption of the
output (input) stream should be enabled as soon as possible.
.TP
.TI Ic autologin
If the remote side supports the
.TE TELNET AUTHENTICATION
option
.TE TELNET
attempts to use it to perform automatic authentication.
If the
.TE AUTHENTICATION
option is not supported, the user's login name are propagated through the
.TE TELNET ENVIRON
option.
This command is the same as specifying
.Ar a
option on the
.TI open
command.
.TI Ic autosynch
If
.TI Ic autosynch
and
Ic localchars
are both
Dv TRUE,
then when either the
Ic intr
or
Ic quit
count is typed (see
Ic set
above for descriptions of the
Ic intr
and
Ic quit
counts), the resulting
.Tn TELNET
sequence sent is followed by the
.Dv TELNET SYNCH
sequence.
This procedure
Em should
cause the remote system to begin throwing away all previously
typed input until both of the
.Tn TELNET
sequences have been read and acted upon.
The initial value of this toggle is
.Dv FALSE.
It Ic binary
Enable or disable the
.Dv TELNET BINARY
option on both input and output.
It Ic inbinary
Enable or disable the
.Dv TELNET BINARY
option on input.
It Ic outbinary
Enable or disable the
.Dv TELNET BINARY
option on output.
It Ic crlf
If this is
.Dv TRUE,
then carriage returns will be sent as
Li <CR><LF>.
If this is
.Dv FALSE,
then carriage returns will be send as
.Li <CR><NUL>.
The initial value for this toggle is
Toggle carriage return mode.
When this mode is enabled, most carriage return characters received from
the remote host will be mapped into a carriage return followed by
a line feed.
This mode does not affect those characters typed by the user, only
those received from the remote host.
This mode is not very useful unless the remote host
only sends carriage return, but never line feeds.
The initial value for this toggle is

Toggles socket level debugging (useful only to the superuser).
The initial value for this toggle is

If this is

then the

interrupt ,
quit ,
erase ,
and
kill
characters (see
set
above) are recognized locally, and transformed into (hopefully) appropriate
control sequences
respectively
ao ,
ip ,
brk ,
ec ,
and
e1 ;
see
send
above).
The initial value for this toggle is

in "old line by line" mode,
and

FALSE
in "character at a time" mode.
When the
.Dv LINEMODE
option is enabled, the value of
.Jc localchars
is ignored, and assumed to always be
.Dv TRUE .
If
.Dv LINEMODE
has ever been enabled, then
.Jc quit
is sent as
.Jc abort ,
and
.Jc eof
and
.Jc suspend
are sent as
.Jc eof
and
.Jc susp
(see
.Jc send
above).
.Jt Ic netdata
Toggles the display of all network data (in hexadecimal format).
The initial value for this toggle is
.Dv FALSE .
.Jt Ic options
Toggles the display of some internal
.Nm
protocol processing (having to do with
.Tn TELNET
options).
The initial value for this toggle is
.Dv FALSE .
.Jt Ic prettydump
When the
.Jc netdata
toggle is enabled, if
.Jc prettydump
is enabled the output from the
.Jc netdata
command will be formatted in a more user readable format.
Spaces are put between each character in the output, and the
beginning of any
.Tn TELNET
escape sequence is preceded by a '*' to aid in locating them.
When the **skiprc** toggle is **TRUE**, the TELNET skips the reading of the `.telnetrc` file in the user's home directory when connections are opened. The initial value for this toggle is **FALSE**.

When the **termdata** toggle is **TRUE**, it displays the display of all terminal data (in hexadecimal format). The initial value for this toggle is **FALSE**.

When the **verbose_encrypt** toggle is **TRUE**, it prints out a message each time encryption is enabled or disabled. The initial value for this toggle is **FALSE**.

Displays the legal **toggle** commands.

This command only works when the user is using the `csh 1`.

Execute a single command in a subshell on the local system.

If an `Ar command` is omitted, then an interactive subshell is invoked.

Get help.

With no arguments, prints a help summary.

If a command is specified,
will print the help information for just that command.
.El
.Sh ENVIRONMENT
.Nm
uses at least the
.Ev HOME ,
.Ev SHELL ,
.Ev DISPLAY ,
and
.Ev TERM
environment variables.
Other environment variables may be propagated
to the other side via the
.Dv TELNET ENVIRON
option.
.Sh FILES
.BI -tag -width ~/.telnetrc -compact
.It Pa ~/.telnetrc
user customized telnet startup values
.El
.Sh HISTORY
The
.Nm
custom command appeared in
.Bx 4.2 .
.Sh NOTES
On some remote systems, echo has to be turned off manually when in
"old line by line" mode.
.Pp
In "old line by line" mode or
.Dv LINEMODE
the terminal's
.Ic eof
character is only recognized (and sent to the remote system)
when it is the first character on a line.
.Pp
Source routing is not supported yet for IPv6.

10.361 Template-Toolkit 2.22
10.361.1 Available under license :

Template Toolkit

Version 2.22

21st July 2009
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HACKER'S GUIDE

Please hack on the Template Toolkit. It has been designed to be extensible and has literally dozens of programmer hooks that you can tap into to do all sorts of cool things. The object oriented architecture allows you to create your own subclassed modules to implement your own services, providers, filters, plugins, and so on.

The Template::Manual::Internals document gives a brief overview of the architecture. Unfortunately, it’s not as complete as it could be, but the code is well documented and generally easy to follow. Don’t be afraid to use the source, Luke.

The internals document also contains information about preparing and applying patches, updating the documentation and various other useful tips.

AUTHOR

The Template Toolkit was written by Andy Wardley <abw@wardley.org> with the invaluable assistance and contributions from many other people. See Template::Manual::Credits for details.

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Template Toolkit

Version 2.22

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QUICK INSTALL
-------------

If you have the CPAN module installed then you can install the Template Toolkit like this from the command line:

```bash
$ cpan Template
```

Otherwise you can install from source code. The latest version of the Template Toolkit can be retrieved from:

```bash
http://www.cpan.org/modules/by-module/Template/
```

Fetch and install AppConfig 1.56 if you don't already have it installed. Available from CPAN in:

```bash
http://www.cpan.org/authors/Andy_Wardley/
```

To install the Template Toolkit from the command line:

```bash
$ tar zxf Template-Toolkit-2.22.tar.gz
$ cd Template-Toolkit-2.22
$ perl Makefile.PL
$ make
$ make test
$ make install
```

The Makefile.PL will prompt for any additional configuration options.

For further details, see the sections below on CONFIGURATION, BUILDING AND TESTING, and INSTALLATION. The Template Toolkit web site also has further information about installation.

```bash
```

PREREQUISITES
-------------

The Template Toolkit is written entirely in Perl and should run on any platform on which Perl is available. It requires Perl 5.006 or later.

The 'tree' utility uses the AppConfig module (version 1.56 or above)
for parsing command line options and configuration files. It is available from CPAN:

http://www.cpan.org/authors/Andy_Wardley/

The Template Toolkit implements a "plugin" architecture which allow you to incorporate the functionality of virtually any Perl module into your templates. A number of plugin modules are included with the distribution for adding extra functionality or interfacing to external CPAN modules. You don't need to install any of these external modules unless you plan to use those particular plugins. See Template::Plugins and Template::Manual::Plugins for further details.

OBTAINING AND INSTALLING THE TEMPLATE TOOLKIT
---------------------------------------------

The latest release version of the Template Toolkit can be downloaded from any CPAN site:

http://www.cpan.org/modules/by-module/Template/

Interim and development versions may also be available, along with other useful information, news, publications, mailing list archives, etc., from the Template Toolkit web site:

http://template-toolkit.org/

The Template Toolkit is distributed as a gzipped tar archive file:

Template-Toolkit-<version>.tar.gz

where <version> represents the current version number, e.g. 2.22.

To install the Template Toolkit, unpack the distribution archive to create an installation directory. Something like this:

$ tar zxf Template-Toolkit-2.22.tar.gz
or
$ gunzip Template-Toolkit-2.22.tar.gz
$ tar xf Template-Toolkit-2.22.tar

You can then 'cd' into the directory created,

$ cd Template-Toolkit-2.22

and perform the usual Perl installation procedure:
$ perl Makefile.PL
$ make
$ make test
$ make install    # may need root access

The Makefile.PL performs various sanity checks and then prompts for a number of configuration items. The following CONFIGURATION section covers this in greater detail.

If you choose to install the optional components then you may need to perform some post-installation steps to ensure that the template libraries, HTML documentation and examples can be correctly viewed via your web browser. The INSTALLATION section covers this.

INSTALLING ON MICROSOFT WIN32 PLATFORMS
---------------------------------------

For advice on using Perl under Microsoft Windows, have a look here:

   http://win32.perl.org/

If you're using Strawberry Perl then you can install the Template Toolkit using the CPAN module as described above.

If you're using ActivePerl then you can install it using the Perl Package Manager (ppm) with the pre-compiled packages built by Chris Winters. For further details, see:

   http://openinteract.sourceforge.net/
   http://activestate.com/

If you prefer, you can manually install the Template Toolkit on Win32 systems by following the instructions in this installation guide. However, please note that you are likely to encounter problems using 'make' and should instead download and use 'nmake' as a replacement. This is available from Microsoft's ftp site.


In this case, you should substitute 'nmake' for 'make' in all the instructions contained herein.

CONFIGURATION
------------

This section covers the configuration of the Template Toolkit via
the Makefile.PL program. If you've successfully run this and didn't have any problems answering any of the questions then you probably don't need to read this section.

The Makefile.PL Perl program performs the module configuration and generates the Makefile which can then be used to build, test and install the Template Toolkit.

$ perl Makefile.PL

The Template Toolkit now boasts a high-speed implementation of Template::Stash written in XS. You can choose to build this as an optional module for using explicitly as an alternative to the regular pure-perl stash module. In additional, you can opt to use the XS Stash as the default, typically making the Template Toolkit run twice as fast!

When prompted, answer 'y' or 'n' to build and optionally use the XS Stash module by default:

   Do you want to build the XS Stash module? [y]
   Do you want to use the XS Stash for all Templates? [n]

BUILDING AND TESTING
---------------------

This section describes the "make" and "make test" commands which build and test the Template Toolkit. If you ran these without incident, then you can probably skip this section.

The 'make' command will build the Template Toolkit modules in the usual manner.

    make

The 'make test' command runs the test scripts in the 't' subdirectory.

    make test

You can set the TEST_VERBOSE flag when running 'make test' to see the results of the individual tests:

    make test TEST_VERBOSE=1

INSTALLATION
-------------
This section describes the final installation of the Template Toolkit via the "make install" and covers any additional steps you may need to take if you opted to build the HTML documentation and/or examples.

The 'make install' will install the modules and scripts on your system. You may need administrator privileges to perform this task. Alternately you can can install the Template Toolkit to a local directory (see ExtUtils::MakeMaker for full details), e.g.

```
$ perl Makefile.PL PREFIX=/home/abw/
```

Don't forget to update your PERL5LIB environment variable if you do this, or add a line to your script to tell Perl where to find the files, e.g.

```
use lib qw( /home/abw/lib/perl5/site_perl/5.10.0 );
```

AUTHOR
------

The Template Toolkit was written by Andy Wardley <abw@wardley.org> with the invaluable assistance and contributions from many other people. See Template::Manual::Credits for details.

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---------

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--- #YAML:1.0
name: Template-Toolkit
version: 2.22
abstract: comprehensive template processing system
author:
  - Andy Wardley <abw@wardley.org>
license: perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
requires:
  AppConfig: 1.56
  File::Spec: 0.8
  File::Temp: 0.12
INSTALLATION

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

If you have the CPAN module installed then you can install the Template Toolkit from the command line like so:

```
$ cpan Template
```

Please see the separate INSTALL file for further information on installing the Template Toolkit, including what to do if you don't have the CPAN module installed, and/or installation on MS Windows.

DESCRIPTION

---------

The Template Toolkit is a collection of modules which implement a fast, flexible, powerful and extensible template processing system. It was originally designed and remains primarily useful for generating dynamic web content, but it can be used equally well for processing any other kind of text based documents: HTML, XML, POD, PostScript, LaTeX, and so on.

It can be used as a stand-alone Perl module or embedded within an Apache/mod_perl server for generating highly configurable dynamic web content. A number of Perl scripts are also provided which can greatly
simplify the process of creating and managing static web content and other offline document systems.

WHAT'S NEW?
----------

Version 2.22 is mostly a bug fixing release. The XS Stash now works with utf8 data. Tests that were failing on Win32 platforms have been fixed. Pod coverage and quality tests have been disabled except for release testing. The Autoformat plugin has been moved into a separate distribution.

Version 2.21 featured a complete clean-out of all the old HTML documentation, examples, libraries and other cruft that was way out of date and badly unloved. A new version of the HTML documentation is available for download from http://tt2.org/download/index.html#html_docs. v2.21 also fixes a memory leak in the XS Stash.

Version 2.21 also adds the STRICT option which reports the use of undefined variable values. The ANYCASE option has been improved so that you can write things like 'data.last' without the 'last' bit being interpreted as the LAST keyword. The xml filter is also new, providing a slightly more rigorous version of the html filter for use in XML documents.

Version 2.20 fixed all known bugs. It also added the Scalar and Assert plugins. The HTML documentation, examples, libraries and other bits and pieces are still provided with the distribution, but are no longer installed by the Makefile.PL. If you want them (and very few people do, it seems), then you'll need to dig them out of the distribution by yourself (or uncomment the commented-out lines in Makefile.PL that handle the installation). This has been done in an effort to simplify the installation process. All of the HTML documentation is available online at http://tt2.org/

Version 2.19 fixed some minor bugs in both Perl and XS versions of the Template Stash, and fixed a problem with a test in the test suite failing under Win32. It also added the url filter as a version of what the uri filter used to do before we fixed it to do the right thing.

Version 2.18 fixes a number of minor bugs. It also includes a modification to the parser grammar so that you can write expressions as arguments to subroutine, method or vmetho call.

Versions 2.17 and 2.16 were interim releases by Adam Kennedy who took care of some installation problems on Mac OSX while Andy was busy elsewhere.

Version 2.15 is a major maintenance release. It applies all outstanding patches and closes all open bugs listed on http://rt.cpan.org/ It includes:
* XS Stash: enhancements include support for tied hashes/arrays and "fallback" methods on objects (e.g. accessing hash and list items and calling virtual methods)

* Virtual Methods: added the scalar.remove, scalar.substr, hash.delete, hash.items, hash.pairs, list.import and list.hash virtual methods. Added support for backreferences to scalar.replace and other improvements to list.push, list.unshift, list.hash, hash.list

* Plugins: Added Math plugin, Bug fixes and enhancements to File, Image, URL and String plugins. Moved DBI, XML and GD plugins into separate distributions.

* Numerous other bug fixes, enhancements, documentation updates, all described in detail in the Changes file.

More significant is what's not in version 2.15. The DBI plugin has been moved into a separate Template-DBI distribution, the GD plugins into Template-GD, the XML plugins into Template-XML, and the Latex filters into Template-Latex. This has been done in an effort to make the Template Toolkit core distribution smaller, cleaner and easier to configure and install.

Version 2.14 added Unicode support to TT, a full set of command line options for tpage, the 'caller' and 'callers' items to each template component, some enhancements to the XML::Simple plugin, and a number of minor bug fixes.

See the Changes file for further details of the changes in these and earlier releases.

GENERAL FEATURES
-----------------

Some of the key features of the Template Toolkit are listed below.
See the documentation for further detail.

* simple but powerful template language

* promotes a clear separation between application functionality and presentation elements

* variable substitution allows binding to any Perl data types (scalars, hashes, lists, subs, objects)
* conditional blocks (IF/UNLESS/ELSIF/ELSE, SWITCH/CASE)

* loops and iterators (FOREACH, WHILE)

* file/template inclusion (INSERT, INCLUDE, PROCESS, WRAPPER)

* definition of local template components (BLOCK)

* post-processing filters (FILTER)

* plugin module architecture for easy extensibility (USE)

* embedded Perl can be optionally enabled (PERL/RAWPERL)

* full exception handling (TRY/THROW/CATCH/FINAL)

* user-defined macros (MACRO)

* definition of template metadata (META)

* virtual methods for complex data types (e.g. list.size, hash.keys, etc.)

* numerous configuration options

* modular OO architecture allows extensive customisation

* fast LALR(1) parser modules compiles templates according to a YACC-like grammar.

* templates compiled to Perl code for efficient runtime execution

* in-memory and on-disk caching of compiled templates

* simple front end module (Template.pm) for ease of use

* numerous plugin modules: CGI, DBI, XML, URL, Date, Table, etc

* standard filters for html, case folding, regex search and replace, etc.

DOCUMENTATION

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

The Template Toolkit is provided with enough documentation to keep all but the most voracious reader happy for quite some time.

The 'Changes' file in the distribution directory documents all visible changes between versions of the Template Toolkit. See the section
The 'TODO' file, also in the distribution directory, lists known bugs, planned enhancements and possible new features for future versions.

The 'INSTALL' file covers the configuration and installation process.

The rest of the documentation is distributed in Pod format. The Pod pages are installed when you 'make install' and can be viewed using 'perldoc'; e.g.

    perldoc Template

If you're using a Unix based system then the pages should also be converted to manpages suring the 'make install'. Thus, you can also:

    man Template

(the man pages shouldn't have any problems relating to older versions)

The documentation is also available in HTML format at the TT web site:

    http://tt2.org/docs/

The documentation is now split into several sections. The 'Template' page is now much shorter, containing information relating to the specifics of using the Template module, and a brief summary of everything else. Information relating more generally to the Template Toolkit, features, syntax of the template language, plugins and so forth, has been split up into a number of Template::Manual::* pages. Template::Manual provides the index for the manual.

    perldoc Template::Manual

Individual sections can be viewed as, for example,

    perldoc Template::Manual::Syntax
    perldoc Template::Manual::Directives
    perldoc Template::Manual::Plugins

The Template::Tutorial provides an index to the tutorial documents. There are currently 2 tutorials, on generating web content, and on creating and using data files.

    perldoc Template::Tutorial
    perldoc Template::Tutorial::Web
    perldoc Template::Tutorial::Datafile
Each of the various modules that comprise the Template Toolkit has its own associated documentation. The `Template::Modules` manpage lists these modules along with a brief description of their functions.

```
perldoc Template::Modules
```

See the individual pages for further detail:

```
perldoc Template::Context
perldoc Template::Parser
perldoc Template::Provider
```

If you're interested in the internals of the Template Toolkit and want to know more about how it all works, then you might like to have a look at the following:

```
perldoc Template::Manual::Internals
```

This document also contains important information for people wishing to hack on the Template Toolkit.

The final bit of good news is that there is now a FAQ for the Template Toolkit.

```
perldoc Template::FAQ
```

It's now got a few question in it, and better still, some answers! Further contributions welcome.

Most of the documentation is stable and reliable. Where it's not then it's usually marked as such. In particular, the documentation for the internals (`Template::Manual::Internals`) and FAQ (`Template::FAQ`) are perpetually under construction.

**SUPPORT**

------

The Template Toolkit mailing list provides a forum for discussing issues relating to the use and abuse of the Template Toolkit. There are a number of knowledgeable and helpful individuals who frequent the list (including the author) who can often offer help or suggestions. Please respect their time and patience by checking the documentation and/or mailing list archives before asking questions that may already have been answered.

To subscribe to the mailing list, send an email to:
templates-request@template-toolkit.org

with the message 'subscribe' in the body. You can also use the web interface to subscribe or browse the archives:

http://mail.template-toolkit.org/mailman/listinfo/templates

A low-volume, moderated mailing list exists for announcements about new releases of the Template Toolkit and related products. To subscribe, send an email to:

templates-announce-request@template-toolkit.org

with the message 'subscribe' in the body. A web interface also exists for subscription and browsing the archives:

http://mail.template-toolkit.org/mailman/listinfo/templates-announce

For information about commercial support and consultancy for the Template Toolkit, please contact the author.

AUTHOR
------

The Template Toolkit was written by Andy Wardley <abw@wardley.org> with the invaluable assistance and contributions from many other people. See Template::Manual::Credits for details.

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The End

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<one line to give the program's name and a brief idea of what it does.>
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Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

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

That's all there is to it!

10.362 termcap-compat 1.2.3

10.362.1 Available under license:

This is the Debian GNU/Linux termcap-compat package.

This package was put together by Christian Hudon
<chrish@debian.org> by combining the following packages:

ftp://sunsite.unc.edu/pub/Linux/GCC/termcap-2.0.8.tar.gz
(for the libtermcap.so shared library)
http://www.ccil.org/~esr/terminfo/termtypes.tc.gz
(for the termcap database file, more information available on http://www.ccil.org/~esr/ncurses.html)

Linux termcap is Copyright (C) Miquel van Smoorenburg 1994,1995,1996 (for
the termcap.c part) and Copyright (C) 1985, 1987, 1993 Free Software
Foundation, Inc. (for the tparam.c part) It falls under the GNU Library
General Public License, a copy of which can be found in
'/usr/share/common-licenses/LGPL' on Debian GNU/Linux systems.

As for the ncurses termcap database... (quoting from the termcap file itself)

+# COPYRIGHTS AND OTHER DELUSIONS
+
+# The BSD ancestor of this file had a standard Regents of the University of
+# California copyright with dates from 1980 to 1993.
+#
+# Some information has been merged in from a terminfo file SCO distributes.
+# It has an obnoxious boilerplate copyright which I'm ignoring because they
+# took so much of the content from the ancestral BSD versions of this file
+# and didn't attribute it, thereby violating the BSD Regents' copyright.
+#
+# Not that anyone should care. However many valid functions copyrights may
+# serve, putting one on a termcap/terminfo file with hundreds of anonymous
+# contributors makes about as much sense as copyrighting a wall-full of
+# graffiti -- it's legally dubious, ethically bogus, and patently ridiculous.
+#
+# This file deliberately has no copyright. It belongs to no one and everyone.
+# If you claim you own it, you will merely succeed in looking like a fool.
+# Use it as you like. Use it at your own risk. Copy and redistribute freely.
+# There are no guarantees anywhere. Svaha!
+
/*/ Declarations for termcap library.
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10.363 Test-Deep 0.11
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---
abstract: unknown
author:
  - 'Fergal Daly <fergal@esatclear.ie>'
built_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Test-Deep
no_index:
directory:
  - t
  - inc
requires:
  List::Util: 1.09
  Scalar::Util: 1.09
  Test::More: 0
  Test::NoWarnings: 0.02
  Test::Tester: 0.04
version: 0.110
from Deep.pm

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Appendix: How to Apply These Terms to Your New Programs

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possible use to humanity, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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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:

```
Gnomovision version 69, Copyright (C) 19xx 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.
```

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

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 a sample; alter the names:

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

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

That's all there is to it!

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The End
10.365 Test-NoWarnings 1.04

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^L

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"Source code" for a work means the preferred form of the work for
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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10.366 Test-Simple 0.98

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--- #YAML:1.0
name:        Test-Simple
version:     0.98
abstract:    Basic utilities for writing tests.
author:
  - Michael G Schwern <schwern@pobox.com>
license:     perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
build_requires:
  ExtUtils::MakeMaker: 0
requires:
  perl: 5.006
  Test::Harness: 2.03
resources:
  bugtracker: http://github.com/schwern/test-more/issues
  homepage: http://test-more.googlecode.com
  license: http://dev.perl.org/licenses/
  MailingList: http://groups.google.com/group/test-more-users
  repository: http://github.com/schwern/test-more/tree/master
no_index:
  directory:
    - t
    - inc
generated_by: ExtUtils::MakeMaker version 6.57_06
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
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NAME
Test::Tester - Ease testing test modules built with Test::Builder

SYNOPSIS
use Test::Tester tests => 6;

use Test::MyStyle;

check_test(
    sub {
        is_mystyle_eq("this", "that", "not eq");
    },
    ok => 0, # expect this to fail
    name => "not eq",
    diag => "Expected: 'this\nGot: 'that",
);

or

use Test::Tester;

use Test::More tests => 3;
use Test::MyStyle;

my ($premature, @results) = run_tests(
    sub {
        is_database_alive("dbname");
    });

# now use Test::More::like to check the diagnostic output

like(@results[0]->{diag}, /^Database ping took \d+ seconds$/i, "diag");

DESCRIPTION
If you have written a test module based on Test::Builder then Test::Tester allows you to test it with the minimum of effort.

HOW TO USE (THE EASY WAY)
From version 0.08 Test::Tester no longer requires you to included anything special in your test modules. All you need to do is

use Test::Tester;

in your test script before any other Test::Builder based modules and away you go.
Other modules based on Test::Builder can be used to help with the testing. In fact you can even use functions from your module to test other functions from the same module (while this is possible it is probably not a good idea, if your module has bugs, then using it to test itself may give the wrong answers).

The easiest way to test is to do something like

```perl
check_test(
    sub { is_mystyle_eq("this", "that", "not eq") },
    { ok => 0, # we expect the test to fail name => "not eq",
      diag => "Expected: 'this'\nGot: 'that'",
    }
);
```

this will execute the is_mystyle_eq test, capturing it's results and checking that they are what was expected.

You may need to examine the test results in a more flexible way, for example, the diagnostic output may be quite long or complex or it may involve something that you cannot predict in advance like a timestamp. In this case you can get direct access to the test results:

```perl
my ($premature, @results) = run_tests(sub {
    is_database_alive("dbname");
});

like($result[0]->{diag}, "Database ping took \d+ seconds$", "diag");
```

We cannot predict how long the database ping will take so we use Test::More's like() test to check that the diagnostic string is of the right form.

**HOW TO USE (THE HARD WAY)**

*This is here for backwards compatibility only*

Make your module use the Test::Tester::Capture object instead of the Test::Builder one. How to do this depends on your module but assuming that your module holds the Test::Builder object in $Test and that all your test routines access it through $Test then providing a function something like this

```perl
sub set_builder
```
`{ $Test = shift; }`

should allow your test scripts to do

```perl
Test::YourModule::set_builder(Test::Tester->capture);
```

and after that any tests inside your module will captured.

**TEST RESULTS**

The result of each test is captured in a hash. These hashes are the same as the hashes returned by `Test::Builder->details` but with a couple of extra fields.

These fields are documented in `Test::Builder` in the `details()` function.

- **ok**
  Did the test pass?

- **actual_ok**
  Did the test really pass? That is, did the pass come from `Test::Builder->ok()` or did it pass because it was a TODO test?

- **name**
  The name supplied for the test.

- **type**
  What kind of test? Possibilities include, skip, todo etc. See `Test::Builder` for more details.

- **reason**
  The reason for the skip, todo etc. See `Test::Builder` for more details.

These fields are exclusive to `Test::Tester`.

- **diag**
  Any diagnostics that were output for the test. This only includes diagnostics output after the test result is declared.

  Note that `Test::Builder` ensures that any diagnostics end in a `\n` and it in earlier versions of `Test::Tester` it was essential that you have the final `\n` in your expected diagnostics. From version 0.10 onwards, `Test::Tester` will add the `\n` if you forgot it. It will not add a `\n` if you are expecting no diagnostics. See below for help tracking down hard to find space and tab related problems.

- **depth**
This allows you to check that your test module is setting the correct value for $Test::Builder::Level and thus giving the correct file and line number when a test fails. It is calculated by looking at caller() and $Test::Builder::Level. It should count how many subroutines there are before jumping into the function you are testing. So for example in

```perl
run_tests( sub { my_test_function("a", "b") } );
```

the depth should be 1 and in

```perl
sub deeper { my_test_function("a", "b") }
run_tests(sub { deeper() });
```

depth should be 2, that is 1 for the sub {} and one for deeper(). This might seem a little complex but if your tests look like the simple examples in this doc then you don’t need to worry as the depth will always be 1 and that's what Test::Tester expects by default.

Note: if you do not specify a value for depth in check_test() then it automatically compares it against 1, if you really want to skip the depth test then pass in undef.

Note: depth will not be correctly calculated for tests that run from a signal handler or an END block or anywhere else that hides the call stack.

Some of Test::Tester's functions return arrays of these hashes, just like Test::Builder-&gt;details. That is, the hash for the first test will be array element 1 (not 0). Element 0 will not be a hash it will be a string which contains any diagnostic output that came before the first test. This should usually be empty, if it's not, it means something output diagnostics before any test results showed up.

**SPACES AND TABS**

Appearances can be deceptive, especially when it comes to emptiness. If you are scratching your head trying to work out why Test::Tester is saying that your diagnostics are wrong when they look perfectly right then the answer is probably whitespace. From version 0.10 on, Test::Tester surrounds the expected and got diag values with single quotes to make it easier to spot trailing whitespace. So in this example

```perl
# Got diag (5 bytes):
# 'abcd '  
# Expected diag (4 bytes):
# 'abcd'
```

it is quite clear that there is a space at the end of the first string.

Another way to solve this problem is to use colour and inverse video on an
Unfortunately this is sometimes not enough, neither colour nor quotes will help you with problems involving tabs, other non-printing characters and certain kinds of problems inherent in Unicode. To deal with this, you can switch Test::Tester into a mode whereby all "tricky" characters are shown as \{xx}. Tricky characters are those with ASCII code less than 33 or higher than 126. This makes the output more difficult to read but much easier to find subtle differences between strings. To turn on this mode either call show_space() in your test script or set the TESTTESTERSPACE environment variable to be a true value. The example above would then look like

    # Got diag (5 bytes):
    # abcd\x{20}
    # Expected diag (4 bytes):
    # abcd

COLOUR
If you prefer to use colour as a means of finding tricky whitespace characters then you can set the TESTTESTCOLOUR environment variable to a comma separated pair of colours, the first for the foreground, the second for the background. For example "white,red" will print white text on a red background. This requires the Term::ANSIColor module. You can specify any colour that would be acceptable to the Term::ANSIColor::color function.

If you spell colour differently, that's no problem. The TESTTESTERCOLOR variable also works (if both are set then the British spelling wins out).

EXPORTED FUNCTIONS
($premature, @results) = run_tests(&test_sub)
&test_sub is a reference to a subroutine.

run_tests runs the subroutine in $test_sub and captures the results of any tests inside it. You can run more than 1 test inside this subroutine if you like.

$premature is a string containing any diagnostic output from before the first test.

@results is an array of test result hashes.

cmp_result(%result, %expect, $name)
%result is a ref to a test result hash.

%expect is a ref to a hash of expected values for the test result.

cmp_result compares the result with the expected values. If any differences are found it outputs diagnostics. You may leave out any field from the
expected result and cmp_result will not do the comparison of that field.

cmp_results(\@results, \@expects, $name)
\@results is a ref to an array of test results.

\@expects is a ref to an array of hash refs.

cmp_results checks that the results match the expected results and if any
differences are found it outputs diagnostics. It first checks that the
number of elements in \@results and \@expects is the same. Then it goes
through each result checking it against the expected result as in
cmp_result() above.

($premature, @results) = check_tests(&test_sub, \@expects, $name)
\&test_sub is a reference to a subroutine.

\@expect is a ref to an array of hash refs which are expected test results.

check_tests combines run_tests and cmp_tests into a single call. It also
checks if the tests died at any stage.

It returns the same values as run_tests, so you can further examine the test
results if you need to.

($premature, @results) = check_test(&test_sub, \%expect, $name)
\&test_sub is a reference to a subroutine.

\%expect is a ref to an hash of expected values for the test result.

check_test is a wrapper around check_tests. It combines run_tests and
cmp_tests into a single call, checking if the test died. It assumes that
only a single test is run inside \&test_sub and include a test to make sure
this is true.

It returns the same values as run_tests, so you can further examine the test
results if you need to.

show_space()
Turn on the escaping of characters as described in the SPACES AND TABS
section.

HOW IT WORKS
Normally, a test module (let's call it Test:MyStyle) calls
Test::Builder->new to get the Test::Builder object. Test::MyStyle calls
methods on this object to record information about test results. When
Test::Tester is loaded, it replaces Test::Builder's new() method with one
which returns a Test::Tester::Delegate object. Most of the time this object
behaves as the real Test::Builder object. Any methods that are called are
delegated to the real Test::Builder object so everything works perfectly. However once we go into test mode, the method calls are no longer passed to the real Test::Builder object, instead they go to the Test::Tester::Capture object. This object seems exactly like the real Test::Builder object, except, instead of outputting test results and diagnostics, it just records all the information for later analysis.

SEE ALSO
Test::Builder the source of testing goodness. Test::Builder::Tester for an alternative approach to the problem tackled by Test::Tester - captures the strings output by Test::Builder. This means you cannot get separate access to the individual pieces of information and you must predict exactly what your test will output.

AUTHOR
This module is copyright 2005 Fergal Daly <fergal@esatclear.ie>, some parts are based on other people's work.

Plan handling lifted from Test::More. written by Michael G Schwern <schwern@pobox.com>.

Test::Tester::Capture is a cut down and hacked up version of Test::Builder. Test::Builder was written by chromatic <chromatic@wgz.org> and Michael G Schwern <schwern@pobox.com>.

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--- #YAML:1.0
name:               Text-CSV
version:            1.16
abstract:           comma-separated values manipulator (using XS or PurePerl)
author:
   - Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>
license: perl
distribution_type: module
configure_requires:
   ExtUtils::MakeMaker: 0
requires:
   IO::Handle: 0
   Test::Harness: 0
   Test::More: 0
no_index:
   directory:
      - t
      - inc
generated_by: ExtUtils::MakeMaker version 6.48
meta-spec:
   url: http://module-build.sourceforge.net/META-spec-v1.4.html
   version: 1.4
Text::CSV version 1.16
=================================

comma-separated values manipulator

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

DEPENDENCIES

Test::More

DESCRIPTION

Text::CSV provides facilities for the composition and decomposition of comma-separated values. An instance of the Text::CSV class can combine fields into a CSV string and parse a CSV string into fields.

The module accepts either strings or files as input and can utilize any user-specified characters as delimiters, separators, and escapes so it is perhaps better called ASV (anything separated values) rather than just CSV.

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

That's all there is to it!
10.370 Text-Glob 0.09

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---
abstract: 'match globbing patterns against text'
author:
- Richard Clamp <richardc@unixbeard.net>'
build_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.36
generated_by: 'Module::Build version 0.3603'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Text-Glob
provides:
  Text::Glob:
    file: lib/Text/Glob.pm
    version: 0.09
resources:
  license: http://dev.perl.org/licenses/
  version: 0.09
From Glob.pm
================
=head1 AUTHOR

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=head1 SEE ALSO

L<File::Glob>, glob(3)

cut
From META.yml
---

abstract: 'match globbing patterns against text'
author:
  - 'Richard Clamp <richardc@unixbeard.net>'
built_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.36
generated_by: 'Module::Build version 0.3603'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Text-Glob
provides:
  Text::Glob:
    file: lib/Text/Glob.pm
    version: 0.09
resources:
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    <signature of Ty Coon>, 1 April 1989
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10.374 tftp-hpa 0.29

10.374.1 Available under license:

From tftp/main.c

/*$OpenBSD: main.c,v 1.4 1997/01/17 07:13:30 millert Exp $*/
/*$NetBSD: main.c,v 1.6 1995/05/21 16:54:10 mycroft Exp $*/

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<snip>
10.375 ThreadPool 0_2_5

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10.376 Tie-EncryptedHash 1.24

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#
## Tie::EncryptedHash - A tied hash with encrypted fields.
##
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##
## This code is based on Damian Conway's Tie::SecureHash.
##
## $Id: EncryptedHash.pm,v 1.8 2000/09/02 19:23:00 vipul Exp vipul $
## vi:expandtab=1:ts=4;

package Tie::EncryptedHash;
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## $Id: assignopaque.t,v 1.1 2000/08/31 16:31:00 vipul Exp vipul$

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<signature of Ty Coon>, 1 April 1989
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10.377 time 1.7

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10556
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# YAMLS:1.0

name:               TimeDate
version:            1.20
abstract:           ~
author:
  - Graham Barr <gbarr@pobox.com>
license:            perl
distribution_type:  module
configure_requires:
  ExtUtils::MakeMaker:  0
requires:  {}
resources:
  repository: http://github.com/gbarr/perl-TimeDate
no_index:
  directory:
    - t
    - inc
generated_by:       ExtUtils::MakeMaker version 6.48
meta-spec:
  url:      http://module-build.sourceforge.net/META-spec-v1.4.html
  version:  1.4

This is the perl5 TimeDate distribution. It requires perl version 5.003 or later

This distribution replaces my earlier GetDate distribution, which was only a date parser. The date parser contained in this distribution is far superior to the yacc based parser, and a *lot* faster.

The parser contained here will only parse absolute dates, if you want a date parser that can parse relative dates then take a look at the Time modules by David Muir on CPAN.

You install the library by running these commands:

```
perl Makefile.PL
make
make test
make install
```

Please report any bugs/suggestions to <gbarr@pobox.com>

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Written by: Philip Hazel <ph10@cam.ac.uk>


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# distributed under the License is distributed on an "AS IS" BASIS,
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!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.

Open Source Used In Firepower 6.3

10574


TARGET=mod_jk$(SO_VERSION)$((SO_HTTPD_VERSION)
CPP=cl.exe
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="

Open Source Used In Firepower 6.3

10575
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"
/implib:"$(OUTDIR)\mod_jk.lib" /libpath:"$(APACHE2_HOME)\lib" /opt:ref
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"
"$(INTDIR)\jk_db_worker.obj"
"$(INTDIR)\jk_map.obj"
"$(INTDIR)\jk_md5.obj"
"$(INTDIR)\jk_msg_buff.obj"
"$(INTDIR)\jk_pool.obj"
"$(INTDIR)\jk_sha1.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.obj"
"$(OUTDIR)\$(TARGET).so" : $(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=/l 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_ajp14_worker.c
"$(INTDIR)\jk_ajp14_worker.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp_common.c
"$(INTDIR)\jk_ajp_common.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_connect.c
"$(INTDIR)\jk_connect.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_context.c
"$(INTDIR)\jk_context.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_lb_worker.c
"$(INTDIR)\jk_lb_worker.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_map.c
"$(INTDIR)\jk_map.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_md5.c
"$(INTDIR)\jk_md5.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

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SOURCE=.\common\jk_worker.c

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

SOURCE=\mod_jk.c

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

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#

# NetWare Makefile for mod_jk (uses build system of Apache 2.x - gnu make)
# created by Guenter Knauf <fuankg@apache.org>
#
#
# Declare the sub-directories to be built here
#
SUBDIRS = \
$(EOLIST)

# Get the 'head' of the build environment. This includes default targets and
# paths to tools
#
include $(AP_WORK)/build/NWGNUhead.inc

# build this level's files

#
# Make sure all needed macro's are defined
#

JKCOMMON = ../common

#
# These directories will be at the beginning of the include list, followed by
# INCDIRS
#
XINCDIRS+= \
$(JKCOMMON) \
$(APR)/include \
$(APRUTIL)/include \
$(AP_WORK)/include \
$(NWOS) \
$(EOLIST)

#
# These flags will come after CFLAGS
#
XCFLAGS+= \
$(EOLIST)

#
# These defines will come after DEFINES
#
XDEFINES+= \
-__NOVELL_LIBC__ \
-__POSIX_SOURCE__ \
$(EOLIST)

#
# These flags will be added to the link.opt file
#
XLFLAGS+= \
$(EOLIST)

#
# These values will be appended to the correct variables based on the value of
# RELEASE
#
ifeq "$(_RELEASE)" "debug"
    XINCDIRS+= \
$(EOLIST)
endif


XCFLAGS+= \n$(EOLIST)

XDEFINES+= \n$(EOLIST)

XLFLAGS+= \n$(EOLIST)
endif

ifeq "$(RELEASE)" "noopt"
XINCDIRS+= \n$(EOLIST)
endif

ifeq "$(RELEASE)" "release"
XINCDIRS+= \n$(EOLIST)
endif

# These are used by the link target if an NLM is being generated
# This is used by the link 'name' directive to name the nlm. If left blank
# TARGET_nlm (see below) will be used.
#
NLM_NAME= mod_jk

# This is used by the link '-desc ' directive.
# If left blank, NLM_NAME will be used.
# NLM_DESCRIPTION= Apache $(VERSION_STR) plugin for Tomcat $(JK_VERSION_STR)

#
# This is used by the link '-copy' directive.
# If left blank, the ASF copyright defined in NWGNUtail.inc will be used.
# NLM_COPYRIGHT=

#
# This is used by the '-threadname' directive. If left blank,
# NLM_NAME Thread will be used.
# NLM_THREAD_NAME= JK Module

#
# If this is specified, it will override VERSION value in
# $(AP_WORK)\build\NWGNUenvironment.inc
# NLM_VERSION= $(JK_VERSION)

#
# If this is specified, it will override the default of 64K
# NLM_STACK_SIZE= 49152

#
# If this is specified it will be used by the link '-entry' directive
# NLM_ENTRY_SYM= _LibCPrelude

#
# If this is specified it will be used by the link '-exit' directive
# NLM_EXIT_SYM= _LibCPostlude

#
# If this is specified it will be used by the link '-check' directive
# NLM_CHECK_SYM=

#
# If these are specified it will be used by the link '-flags' directive
# NLM_FLAGS= AUTOUNLOAD, PSEUDOPREEMPTION

#
# If this is specified it will be linked in with the XDCData option in the def
# file instead of the default of $(NWOS)/apache.xdc. XDCData can be disabled
# by setting APACHE_UNIPROC in the environment
# XDCDATA=

#
# If there is an NLM target, put it here
#
TARGET_nlm = \\
$(OBJDIR)/$(NLM_NAME).nlm \\
$(EOLIST)

#
# If there is a LIB target, put it here
#
TARGET_lib = \\
$(EOLIST)

#
# These are the OBJ files needed to create the NLM target above.
# Paths must all use the '/' character
#
FILES_nlm_objs = \\
$(OBJDIR)/jk_nwmain.o \\
$(OBJDIR)/jk_ajp12_worker.o \\
$(OBJDIR)/jk_ajp13.o \\
$(OBJDIR)/jk_ajp13_worker.o \\
$(OBJDIR)/jk_ajp14.o \\
$(OBJDIR)/jk_ajp14_worker.o \\
$(OBJDIR)/jk_ajp_common.o \\
$(OBJDIR)/jk_connect.o \\
$(OBJDIR)/jk_context.o \\
$(OBJDIR)/jk_lb_worker.o \\
$(OBJDIR)/jk_map.o \\
$(OBJDIR)/jk_md5.o \\
$(OBJDIR)/jk_msg_buff.o \\
$(OBJDIR)/jk_pool.o \\
$(OBJDIR)/jk_shm.o \\
$(OBJDIR)/jk_sockbuf.o \\
$(OBJDIR)/jk_status.o \\
$(OBJDIR)/jk_uri_worker_map.o \\
$(OBJDIR)/jk_url.o \\
$(OBJDIR)/jk_util.o \\
$(OBJDIR)/jk_worker.o \\
$(OBJDIR)/mod_jk.o \\
$(EOLIST)
# These are the LIB files needed to create the NLM target above.
# These will be added as a library command in the link.opt file.
# FILES_nlm_libs = \
$(NOVELLLIBC)/imports/libcpre.o \n$(EOLIST)
#
# These are the modules that the above NLM target depends on to load.
# These will be added as a module command in the link.opt file.
# FILES_nlm_modules = \
aprilib \nlibc \n$(EOLIST)
#
# If the nlm has a msg file, put it's path here
# FILE_nlm_msg =
#
# If the nlm has a hlp file put it's path here
# FILE_nlm_hlp =
#
# If this is specified, it will override $(NWOS)\copyright.txt.
# FILE_nlm_copyright =
#
# Any additional imports go here
# FILES_nlm_Ximports = \
@aprilib.imp \n@httpd.imp \n@libc.imp \n@ws2nlm.imp \n$(EOLIST)
#
# Any symbols exported to here
# FILES_nlm_exports = \
jk_module \n$(EOLIST)
# These are the OBJ files needed to create the LIB target above.
# Paths must all use the '/' character
#
FILES_lib_objs = \\
$(EOLIST)
#
# implement targets and dependencies (leave this section alone)
#
libs :: $(OBJDIR) $(TARGET_lib)

nlms :: libs $(TARGET_nlm)

# Updated this target to create necessary directories and copy files to the
# correct place. (See $(AP_WORK)/build/NWGNUhead.inc for examples)
#
install :: nlms FORCE


copy $(OBJDIR)/*.nlm $(INSTALL)/Apache2/modules/*.*

# Any specialized rules here
#

vpath %.c $(JKCOMMON)

$(OBJDIR)/version.inc: $(JKCOMMON)/jk_version.h $(OBJDIR)
  @echo Creating $@
  @awk -f ../../support/get_ver.awk $< > $@

# Include the version info retrieved from jk_version.h
#
-include $(OBJDIR)/version.inc

# Include the 'tail' makefile that has targets that depend on variables defined
# in this makefile
#
include $(AP_WORK)/build/NWGNUtail.inc

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

CRTCROM MODUHE(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) +
LOCATETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCROM MODUHE(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) +
LOCATETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCROM MODUHE(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) +
LOCATETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +

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TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

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

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

CRTCMD 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) +
LANGLVL(*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) +
LANGLVL(*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) +
LANGLVL(*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) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*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) +
SYSFICOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGRRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF) +
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) +
SYSFICOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGRRLS(*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) +
SYSFICOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGRRLS(*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(*LOCALEUTF) +
SYSFICOPT(*IFSIO) +
LANGLVL(*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_APCHE_MD5 '_REENTRANT') +
TEXT('jk_uri_worker_map.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_URL) +
SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
DEFINE('AS400 'AS400.UTF8 'HAVE_APR' +
   '_XOPEN_SOURCE=520 'USE_APCHE_MD5 '_REENTRANT') +
TEXT('jk_url.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_UTIL) +
SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
DEFINE('AS400 'AS400.UTF8 'HAVE_APR' +
   '_XOPEN_SOURCE=520 'USE_APCHE_MD5 '_REENTRANT') +
TEXT('jk_util.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_WORKER) +
SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
DEFINE('AS400 'AS400.UTF8 'HAVE_APR' +
   '_XOPEN_SOURCE=520 'USE_APCHE_MD5 '_REENTRANT') +
TEXT('jk_worker.c') +
OPTIMIZE(40) +
LOCATE(*LOCALEUTF) +
SYSIFCLOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRRTCMOD 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) +
LOCATE(*LOCALEUTF) +
SYSIFCLOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRRTCMOD 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) +
LOCATE(*LOCALEUTF) +
SYSIFCLOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRRTSRVPGM 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/QZSRCORE +
          QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
TEXT('Apache Tomcat mod_jk connector module')

ENDPGM

PGM

CRTCMPG 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) +
LOCALETYPER(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMPG 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) +
LOCALETYPER(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMPG 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) +
LOCALETYPER(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMPG 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) +
LANGVL(*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) +
LANGVL(*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) +
LANGVL(*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) +
LANGVL(*EXTENDED) +
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' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT' 'USE_SO_RCVTIMEO' +
   'USE_SO_SNDTIMEO') +
TEXT('jk_connect.c') +
OPTIMIZE(40) +
LOCALETYP3(*LOCALE) +
SYSiFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
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' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_context.c') +
OPTIMIZE(40) +
LOCALETY3(*LOCALE) +
SYSiFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
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' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_lb_worker.c') +
OPTIMIZE(40) +
LOCALETYP3(*LOCALE) +
SYSiFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
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' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_map.c') +
OPTIMIZE(40) +
LOCALETYP3(*LOCALE) +
SYSiFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
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' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APCHE_MD5' '_REENTRANT') +
TEXT('jk_md5.c') +
OPTIMIZE(40) +
LOCALETYPENOCALCE +
SYSLFCOPT(IFSIO) +
LANGLVL(EXTENDED) +
TGTRL(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD_MODULE(MOD_JK/JK_MSG_BUF) +
SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APCHE_MD5' '_REENTRANT') +
TEXT('jk_msg_buff.c') +
OPTIMIZE(40) +
LOCALETYPENOCALCE +
SYSLFCOPT(IFSIO) +
LANGLVL(EXTENDED) +
TGTRL(*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' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APCHE_MD5' '_REENTRANT') +
TEXT('jk_pool.c') +
OPTIMIZE(40) +
LOCALETYPENOCALCE +
SYSLFCOPT(IFSIO) +
LANGLVL(EXTENDED) +
TGTRL(*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' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APCHE_MD5' '_REENTRANT') +
TEXT('jk_sockbuf.c') +
OPTIMIZE(40) +
LOCALETYPENOCALCE +
SYSLFCOPT(IFSIO) +
LANGLVL(EXTENDED) +
TGTRL(*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' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_uri_worker_map.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_URL) +
SRCSTMF('/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) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
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' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_util.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_WORKER) +
SRCSTMF('/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_APACHE_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_APACHE_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_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/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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10.382 traceroute 2.0.19

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L<http://github.com/nothingmuch/try-tiny/>

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From the README

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For more details and the names of other contributors, see the doc/README* files and include/gc.h. This file describes typical use of the collector on a machine that is already supported.

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#
# Original author: Tom Tromey
# Severely truncated by Hans-J. Boehm

/*
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 */

/*
 * Note that this defines a large number of tuning hooks, which can safely be ignored in nearly all cases. For normal use it suffices to call only GC_MALLOC and perhaps GC_REALLOC.
 * For better performance, also look at GC_MALLOC_ATOMIC, and GC_enable_incremental. If you need an action to be performed immediately before an object is collected, look at GC_register_finalizer.
 * If you are using Solaris threads, look at the end of this file.
 * Everything else is best ignored unless you encounter performance problems.
 */
/

#ifndef _GC_H
#define _GC_H

/*
 * Some tests for old macros. These violate our namespace rules and will
 * disappear shortly. Use the GC_ names.
 */
#endif defined(SOLARIS_THREADS) || defined(_SOLARIS_THREADS)
#define GC_SOLARIS_THREADS
#endif defined(_SOLARIS_PTHREADS)
#define GC_SOLARIS_PTHREADS
#endif defined(IRIX_THREADS)
#define GC_IRIX_THREADS
#endif defined(DGUX_THREADS)
#if !defined(GC_DGUX386_THREADS)
#define GC_DGUX386_THREADS
#endif defined(HPUX_THREADS)
#define GC_HPUX_THREADS
#endif defined(OSF1_THREADS)
#define GC_OSF1_THREADS
#endif defined(LINUX_THREADS)
#define GC_LINUX_THREADS
#endif defined(WIN32_THREADS)
#define GC_WIN32_THREADS
#endif defined(USE_LD_WRAP)
#define GC_USE_LD_WRAP
#endif

#if !defined(_REENTRANT) && (defined(GC_SOLARIS_THREADS) \ 
|| defined(GC_SOLARIS_PTHREADS) \ 
|| defined(GC_HPUX_THREADS) \ 
|| defined(GC_LINUX_THREADS))
#define _REENTRANT
/* Better late than never. This fails if system headers that*/
/* depend on this were previously included.*/
#endif
#if defined(GC_DGUX386_THREADS) && !defined(_POSIX4A_DRAFT10_SOURCE)
#define _POSIX4A_DRAFT10_SOURCE 1
#endif

#if defined(GC_SOLARIS_PTHREADS) && !defined(GC_SOLARIS_THREADS)
#define GC_SOLARIS_THREADS
#endif

#if defined(GC_SOLARIS_PTHREADS) || defined(GC_FREEBSD_THREADS) ||
defined(GC_IRIX_THREADS) || defined(GC_LINUX_THREADS) ||
defined(GC_HPUX_THREADS) || defined(GC_OSF1_THREADS) ||
defined(GC_DGUX386_THREADS) ||
(defined(GC_WIN32_THREADS) && !defined(__CYGWIN32__))
#define GC_PTHREADS
#endif

#define __GC
#include <stddef.h>
#if defined(_WIN32_WCE)
#define _WIN32_WINDOWS
/* Yet more kluges for WinCE */
#include <stdlib.h>
/* size_t is defined here */
typedef long ptrdiff_t; /* ptrdiff_t is not defined */
#endif
#endif
#if (defined(__DMC__) || defined(_MSC_VER))
&& (defined(_DLL) && !defined(GC_NOT_DLL) || defined(GC_DLL))
#if defined(GC_BUILD)
#define GC_API extern __declspec(dllexport)
#else
#define GC_API extern __declspec(dllimport)
#endif
#endif
#if defined(__WATCOMC__) && defined(GC_DLL)
#if defined(GC_BUILD)
#define GC_API extern __declspec(dllexport)
#else
#define GC_API extern __declspec(dllimport)
#endif
#endif
#if defined(__MINGW32__) && defined(_DLL) && !defined(GC_NOT_DLL)
#if defined(GC_BUILD)
#define GC_API __declspec(dllexport)
#else
#define GC_API __declspec(dllimport)
#endif
#endif

/* Define word and signed_word to be unsigned and signed types of the */
/* size as char * or void *. There seems to be no way to do this*/
/* even semi-portably. The following is probably no better/worse */
/* than almost anything else.*/
/* 'The ANSI standard suggests that size_t and ptr_diff_t might be */
/* better choices. But those appear to have incorrect definitions*/
/* on may systems. Notably "typedef int size_t" seems to be both*/
/* frequent and WRONG.*/
typedef unsigned long GC_word;
typedef long GC_signed_word;

/* Public read-only variables */

GC_API GC_word GC_ge_no;/* Counter incremented per collection. */
/* Includes empty GCs at startup.*/

GC_API int GC_parallel;/* GC is parallelized for performance on*/
/* multiprocessors. Currently set only*/
/* implicitly if collector is built with*/
/* -DPARALLEL_MARK and if either:/
/* Env variable GC_NPROC is set to > 1, or*/
/* GC_NPROC is not set and this is an MP.*/
/* If GC_parallel is set, incremental*/
/* collection is only partially functional,*/
/* and may not be desirable.*/
/* Public R/W variables */

GC_API GC_PTR (*GC_oom_fn) GC_PROTO((size_t bytes_requested)); /* When there is insufficient memory to satisfy */ /* an allocation request, we return*/ /* (*GC_oom_fn()). By default this just*/ /* returns 0.*/ /* If it returns, it must return 0 or a valid*/ /* pointer to a previously allocated heap */ /* object.*/

GC_API int GC_find_leak; /* Do not actually garbage collect, but simply*/ /* report inaccessible memory that was not*/ /* deallocated with GC_free. Initial value*/ /* is determined by FIND_LEAK macro.*/

GC_API int GC_all_interior_pointers; /* Arrange for pointers to object interiors to*/ /* be recognized as valid. May not be changed*/ /* after GC initialization.*/ /* Initial value is determined by */ /* -DALL_INTERIOR_POINTERS.*/ /* Unless DONT_ADD_BYTE_AT_END is defined, this*/ /* also affects whether sizes are increased by*/ /* at least a byte to allow "off the end"*/ /* pointer recognition.*/ /* MUST BE 0 or 1=*/

GC_API int GC_quiet; /* Disable statistics output. Only matters if*/ /* collector has been compiled with statistics*/ /* enabled. This involves a performance cost*/ /* and is thus not the default.*/

GC_API int GC_finalize_on_demand; /* If nonzero, finalizers will only be run in */ /* response to an explicit GC_invoke_finalizers*/ /* call. The default is determined by whether*/ /* the FINALIZE_ON_DEMAND macro is defined*/ /* when the collector is built.*/

GC_API int GC_java_finalization; /* Mark objects reachable from finalizable */ /* objects in a separate postpass. This makes*/ /* it a bit safer to use non-topologically-*/ /* ordered finalization. Default value is*/ /* determined by JAVA_FINALIZATION macro.*/
GC_API void (* GC_finalizer_notifier)();
/* Invoked by the collector when there are */
/* objects to be finalized. Invoked at most*/
/* once per GC cycle. Never invoked unless */
/* GC_finalize_on_demand is set.*/
/* Typically this will notify a finalization*/
/* thread, which will call GC_invoke_finalizers */
/* in response.*/

GC_API int GC_dont_gc;/* DONT collect unless explicitly requested, e.g. */
/* because it's not safe. */

GC_API int GC_dont_expand;
/* DONT expand heap unless explicitly requested */
/* or forced to.*/

GC_API int GC_use_entire_heap;
/* Causes the nonincremental collector to use the*/
/* entire heap before collecting. This was the only */
/* option for GC versions < 5.0. This sometimes*/
/* results in more large block fragmentation, since*/
/* very large blocks will tend to get broken up*/
/* during each GC cycle. It is likely to result in a*/
/* larger working set, but lower collection*/
/* frequencies, and hence fewer instructions executed*/
/* in the collector.*/

GC_API int GC_full_freq; /* Number of partial collections between*/
/* full collections. Matters only if*/
/* GC_incremental is set.*/
/* Full collections are also triggered if*/
/* the collector detects a substantial*/
/* increase in the number of in-use heap*/
/* blocks. Values in the tens are now*/
/* perfectly reasonable, unlike for*/
/* earlier GC versions.*/

GC_API GC_word GC_non_gc_bytes;
/* Bytes not considered candidates for collection. */
/* Used only to control scheduling of collections. */
/* Updated by GC_malloc_uncollectable and GC_free. */
/* Wizards only. */

GC_API int GC_no_dls;
/* Don't register dynamic library data segments. */
/* Wizards only. Should be used only if the */
/* application explicitly registers all roots. */
/* In Microsoft Windows environments, this will */
/* usually also prevent registration of the */
/* main data segment as part of the root set. */

GC_API GC_word GC_free_space_divisor;
/* We try to make sure that we allocate at */
/* least N/GC_free_space_divisor bytes between*/
/* collections, where N is the heap size plus*/
/* a rough estimate of the root set size.*/
/* Initially, GC_free_space_divisor = 4.*/
/* Increasing its value will use less space*/
/* but more collection time. Decreasing it*/
/* will appreciably decrease collection time*/
/* at the expense of space.*/
/* GC_free_space_divisor = 1 will effectively*/
/* disable collections.*/

GC_API GC_word GC_max_retries;
/* The maximum number of GCs attempted before*/
/* reporting out of memory after heap*/
/* expansion fails. Initially 0.*/

GC_API char *GC_stackbottom;/* Cool end of user stack.*/
/* May be set in the client prior to*/
/* calling any GC_routines. This*/
/* avoids some overhead, and */
/* potentially some signals that can */
/* confuse debuggers. Otherwise the*/
/* collector attempts to set it */
/* automatically.*/
/* For multithreaded code, this is the*/
/* cold end of the stack for the*/
/* primordial thread.*/

GC_API int GC_dont_precollect; /* Don't collect as part of*/
/* initialization. Should be set only*/
/* if the client wants a chance to*/
/* manually initialize the root set*/
/* before the first collection.*/
/* Interferes with blacklisting.*/
/* Wizards only.*/

GC_API unsigned long GC_time_limit;
/* If incremental collection is enabled, */
/* We try to terminate collections */
/* after this many milliseconds. Not a */
/* hard time bound. Setting this to */
/* GC_TIME_UNLIMITED will essentially */
/* disable incremental collection while */
/* leaving generational collection */
/* enabled. */
#define GC_TIME_UNLIMITED 999999
/* Setting GC_time_limit to this value */
/* will disable the "pause time exceeded" */
/* tests. */

/* Public procedures */

/* Initialize the collector. This is only required when using thread-local */
/* allocation, since unlike the regular allocation routines, GC_local_malloc */
/* is not self-initializing. If you use GC_local_malloc you should arrange */
/* to call this somehow (e.g. from a constructor) before doing any allocation. */
GC_API void GC_init GC_PROTO((void));

/* general purpose allocation routines, with roughly malloc calling conv. */
/* The atomic versions promise that no relevant pointers are contained */
/* in the object. The nonatomic versions guarantee that the new object */
/* is cleared. GC_malloc_stubborn promises that no changes to the object */
/* will occur after GC_end_stubborn_change has been called on the */
/* result of GC_malloc_stubborn. GC_malloc_uncollectable allocates an object */
/* that is scanned for pointers to collectable objects, but is not itself */
/* collectable. The object is scanned even if it does not appear to */
/* be reachable. GC_malloc_uncollectable and GC_free called on the resulting */
/* object implicitly update GC_non_gc_bytes appropriately. */
/* Note that the GC_malloc_stubborn support is stubbed out by default */
/* starting in 6.0. GC_malloc_stubborn is an alias for GC_malloc unless */
/* the collector is built with STUBBORN_ALLOC defined. */
GC_API GC_PTR GC_malloc GC_PROTO((size_t size_in_bytes));
GC_API GC_PTR GC_malloc_atomic GC_PROTO((size_t size_in_bytes));
GC_API GC_PTR GC_malloc_uncollectable GC_PROTO((size_t size_in_bytes));
GC_API GC_PTR GC_malloc_stubborn GC_PROTO((size_t size_in_bytes));
GC_API GC_PTR GC_malloc_atomic_uncollectable GC_PROTO((size_t size_in_bytes));

/* The following is only defined if the library has been suitably */
/* compiled: */
GC_API GC_PTR GC_malloc_atomic_uncollectable GC_PROTO((size_t size_in_bytes));

/* Explicitly deallocate an object. Dangerous if used incorrectly. */
/* Requires a pointer to the base of an object. */
/* If the argument is stubborn, it should not be changeable when freed. */
/* An object should not be enable for finalization when it is */
/* explicitly deallocated. */
/* GC_free(0) is a no-op, as required by ANSI C for free. */
GC_API void GC_free GC_PROTO((GC_PTR object_addr));

/* Stubborn objects may be changed only if the collector is explicitly informed.
 * The collector is implicitly informed of coming change when such
 * an object is first allocated. The following routines inform the
 * collector that an object will no longer be changed, or that it will
 * once again be changed. Only nonNIL pointer stores into the object
 * are considered to be changes. The argument to GC_end_stubborn_change
 * must be exactly the value returned by GC_malloc_stubborn or passed to
 * GC_change_stubborn. (In the second case it may be an interior pointer
 * within 512 bytes of the beginning of the objects.)
 * There is a performance penalty for allowing more than
 * one stubborn object to be changed at once, but it is acceptable to
 * do so. The same applies to dropping stubborn objects that are still
 * changeable.
 */
GC_API void GC_change_stubborn GC_PROTO((GC_PTR));
GC_API void GC_end_stubborn_change GC_PROTO((GC_PTR));

/* Return a pointer to the base (lowest address) of an object given*/
/* a pointer to a location within the object. */
/* I.e. map an interior pointer to the corresponding bas pointer. */
/* Note that with debugging allocation, this returns a pointer to the*/
/* actual base of the object, i.e. the debug information, not to*/
/* the base of the user object. */
/* Return 0 if displaced_pointer doesn't point to within a valid*/
/* object. */
GC_API GC_PTR GC_base GC_PROTO((GC_PTR displaced_pointer));

/* Given a pointer to the base of an object, return its size in bytes.*/
/* The returned size may be slightly larger than what was originally*/
/* requested. */
GC_API size_t GC_size GC_PROTO((GC_PTR object_addr));

/* For compatibility with C library. This is occasionally faster than*/
/* a malloc followed by a bcopy. But if you rely on that, either here*/
/* or with the standard C library, your code is broken. In my*/
/* opinion, it shouldn't have been invented, but now we're stuck. -HB*/
/* The resulting object has the same kind as the original. */
/* If the argument is stubborn, the result will have changes enabled.*/
/* It is an error to have changes enabled for the original object.*/
/* Follows ANSI conventions for NULL old_object. */
GC_API GC_PTR GC_realloc
GCPROTO((GC_PTR old_object, size_t new_size_in_bytes));

/* Explicitly increase the heap size. */
/* Returns 0 on failure, 1 on success. */
GC_API int GC-expand_hp GC_PROTO((size_t number_of_bytes));

/* Limit the heap size to n bytes. Useful when you're debugging, */
/* especially on systems that don't handle running out of memory well. */
/* n == 0 ==> unbounded. This is the default. */
GC_API void GC-set-max-heap-size GC_PROTO((GC_word n));

/* Inform the collector that a certain section of statically allocated */
/* memory contains no pointers to garbage collected memory. Thus it */
/* need not be scanned. This is sometimes important if the application */
/* maps large read/write files into the address space, which could be */
/* mistaken for dynamic library data segments on some systems. */
GC_API void GC-exclude-static-roots GC_PROTO((GC_PTR start, GC_PTR finish));

/* Clear the set of root segments. Wizards only. */
GC_API void GC-clear-roots GC_PROTO((void));

/* Add a root segment. Wizards only. */
GC_API void GC-add-roots GC_PROTO((char * low_address,
    char * high_address_plus_1));

/* Add a displacement to the set of those considered valid by the */
/* collector. GC-register-displacement(n) means that if p was returned */
/* by GC-malloc, then (char *)p + n will be considered to be a valid */
/* pointer to n. N must be small and less than the size of p. */
/* (All pointers to the interior of objects from the stack are *)
/* considered valid in any case. This applies to heap objects and *)
/* static data. */
/* Preferably, this should be called before any other GC procedures. */
/* Calling it later adds to the probability of excess memory */
/* retention. */
/* This is a no-op if the collector was compiled with recognition of */
/* arbitrary interior pointers enabled, which is now the default. */
GC_API void GC-register-displacement GC_PROTO((GC_word n));

/* The following version should be used if any debugging allocation is */
/* being done. */
GC_API void GC-debug-register-displacement GC_PROTO((GC_word n));

/* Explicitly trigger a full, world-stop collection. */
GC_API void GC-gcollect GC_PROTO((void));

/* Trigger a full world-stopped collection. Abort the collection if */
/* and when stop_func returns a nonzero value. Stop_func will be */
/* called frequently, and should be reasonably fast. This works even */
/* if virtual dirty bits, and hence incremental collection is not */
/* available for this architecture. Collections can be aborted faster */
/* than normal pause times for incremental collection. However,*/
/* aborted collections do no useful work; the next collection needs*/
/* to start from the beginning.*/
/* Return 0 if the collection was aborted, 1 if it succeeded.*/
typedef int (* GC_stop_func) GC_PROTO((void));
GC_API int GC_try_to_collect GC_PROTO((GC_stop_func stop_func));

/* Return the number of bytes in the heap. Excludes collector private*/
/* data structures. Includes empty blocks and fragmentation loss.*/
/* Includes some pages that were allocated but never written.*/
GC_API size_t GC_get_heap_size GC_PROTO((void));

/* Return a lower bound on the number of free bytes in the heap.*/
GC_API size_t GC_get_free_bytes GC_PROTO((void));

/* Return the number of bytes allocated since the last collection.*/
GC_API size_t GC_get_bytes_since_gc GC_PROTO((void));

/* Return the total number of bytes allocated in this process.*/
/* Never decreases.*/
GC_API size_t GC_get_total_bytes GC_PROTO((void));

/* Enable incremental/generational collection.*/
/* Not advisable unless dirty bits are */
/* available or most heap objects are*/
/* pointerfree(atomic) or immutable.*/
/* Don't use in leak finding mode.*/
/* Ignored if GC_dont_gc is true.*/
/* Only the generational piece of this is*/
/* functional if GC_parallel is TRUE*/
/* or if GC_time_limit is GC_TIME_UNLIMITED.*/
/* Causes GC_local_gcj_malloc() to revert to*/
/* locked allocation. Must be called */
/* before any GC_local_gcj_malloc() calls.*/
GC_API void GC_enable_incremental GC_PROTO((void));

/* Does incremental mode write-protect pages? Returns zero or*/
/* more of the following, or'ed together:*/
#define GC_PROTECTS_Pointer_HEAP  1 /* May protect non-atomic objs.*/
#define GC_PROTECTS_Ptfree_HEAP  2
#define GC_PROTECTS_Static_DATA   4 /* Currenty never.*/
#define GC_PROTECTS_STACK  8 /* Probably impractical.*/
#define GC_PROTECTS_NONE 0
GC_API int GC_incremental_protection_needs GC_PROTO((void));

/* Perform some garbage collection work, if appropriate.*/
/* Return 0 if there is no more work to be done.*/
/* Typically performs an amount of work corresponding roughly to marking from one page. May do more work if further progress requires it, e.g. if incremental collection is disabled. It is reasonable to call this in a wait loop until it returns 0. */
GC_API int GC_collect_a_little GC_PROTO((void));

/* Allocate an object of size lb bytes. The client guarantees that as long as the object is live, it will be referenced by a pointer that points to somewhere within the first 256 bytes of the object. (This should normally be declared volatile to prevent the compiler from invalidating this assertion.) This routine is only useful if a large array is being allocated. It reduces the chance of accidentally retaining such an array as a result of scanning an integer that happens to be an address inside the array. (Actually, it reduces the chance of the allocator not finding space for such an array, since it will try hard to avoid introducing such a false reference.) On a SunOS 4.X or MS Windows system this is recommended for arrays likely to be larger than 100K or so. For other systems, or if the collector is not configured to recognize all interior pointers, the threshold is normally much higher. */
GC_API GC_PTR GC_malloc_ignore_off_page GC_PROTO((size_t lb));
GC_API GC_PTR GC_malloc_atomic_ignore_off_page GC_PROTO((size_t lb));

#if defined(__sgi) && !defined(__GNUC__) && __COMPILER_VERSION >= 720
#define GC_ADD_CALLER
#define GC_RETURN_ADDR (GC_word)__return_address
#endif

#define GC_EXTRAS GC_RETURN_ADDR, __FILE__, __LINE__
#define GC_EXTRA_PARAMS GC_word ra, GC_CONST char * s, int i

#if defined(__sgi) && !defined(__GNUC__) && __COMPILER_VERSION >= 720
#define GC_ADD_CALLER
#define GC_EXTRA_PARAMS GC_word ra, GC_CONST char * s, int i
#endif

/* Debugging (annotated) allocation. GC_gcollect will check objects allocated in this way for overwrites, etc. */
GC_API GC_PTR GC_debug_malloc GC_PROTO((size_t size_in_bytes, GC_EXTRA_PARAMS));
GC_API GC_PTR GC_debug_malloc_atomic GC_PROTO((size_t size_in_bytes, GC_EXTRA_PARAMS));
GC_API GC_PTR GC_debug_malloc_uncollectable GC_PROTO((size_t size_in_bytes, GC_EXTRA_PARAMS));
GC_API GC_PTR GC_debug_malloc_stubborn GC_PROTO((size_t size_in_bytes, GC_EXTRA_PARAMS));
GC_API void GC_debug_free GC_PROTO((GC_PTR object_addr));
GC_API GC_PTR GC_debug_realloc
GC_PROTO((GC_PTR old_object, size_t new_size_in_bytes,
             GC_EXTRA_PARAMS));

GC_API void GC_debug_change_stubborn GC_PROTO((GC_PTR));
GC_API void GC_debug_end_stubborn_change GC_PROTO((GC_PTR));
# ifdef GC_DEBUG
#   define GC_MALLOC(sz) GC_debug_malloc(sz, GC_EXTRAS)
#   define GC_MALLOC_ATOMIC(sz) GC_debug_malloc_atomic(sz, GC_EXTRAS)
#   define GC_MALLOC_UNCOLLECTABLE(sz) GC_debug_malloc_uncollectable(sz, GC_EXTRAS)
#   define GC_REALLOC(old, sz) GC_debug_realloc(old, sz, GC_EXTRAS)
#   define GC_FREE(p) GC_debug_free(p)
#   define GC_REGISTER_FINALIZER(p, f, d, of, od) GC_debug_register_finalizer(p, f, d, of, od)
#   define GC_REGISTER_FINALIZER_IGNORE_SELF(p, f, d, of, od) GC_debug_register_finalizer_ignore_self(p, f, d, of, od)
#   define GC_REGISTER_FINALIZER_NO_ORDER(p, f, d, of, od) GC_debug_register_finalizer_no_order(p, f, d, of, od)
#   define GC_MALLOC_STUBBORN(sz) GC_debug_malloc_stubborn(sz, GC_EXTRAS);
#   define GC_CHANGE_STUBBORN(p) GC_debug_change_stubborn(p)
#   define GC_END_STUBBORN_CHANGE(p) GC_debug_end_stubborn_change(p)
#   define GC_GENERAL_REGISTER_DISAPPEARING_LINK(link, obj) GC_general_register_disappearing_link(link, GC_base(obj))
#   define GC_REGISTER_DISPLACEMENT(n) GC_debug_register_displacement(n)
# else
#   define GC_MALLOC(sz) GC_malloc(sz)
#   define GC_MALLOC_ATOMIC(sz) GC_malloc_atomic(sz)
#   define GC_MALLOC_UNCOLLECTABLE(sz) GC_malloc_uncollectable(sz)
#   define GC_REALLOC(old, sz) GC_realloc(old, sz)
#   define GC_FREE(p) GC_free(p)
#   define GC_REGISTER_FINALIZER(p, f, d, of, od) GC_register_finalizer(p, f, d, of, od)
#   define GC_REGISTER_FINALIZER_IGNORE_SELF(p, f, d, of, od) GC_register_finalizer_ignore_self(p, f, d, of, od)
#   define GC_REGISTER_FINALIZER_NO_ORDER(p, f, d, of, od) GC_register_finalizer_no_order(p, f, d, of, od)
#   define GC_MALLOC_STUBBORN(sz) GC_malloc_stubborn(sz)
#   define GC_CHANGE_STUBBORN(p) GC_change_stubborn(p)
#   define GC_END_STUBBORN_CHANGE(p) GC_end_stubborn_change(p)
#   define GC_GENERAL_REGISTER_DISAPPEARING_LINK(link, obj) GC_general_register_disappearing_link(link, GC_base(obj))
#   define GC_REGISTER_DISPLACEMENT(n) GC_register_displacement(n)
# endif
/* The following are included because they are often convenient, and*/
/* reduce the chance for a misspecified size argument. But calls may*/
/* expand to something syntactically incorrect if t is a complicated*/
/* type expression. */
# define GC_NEW(t) (t *)GC_MALLOC(sizeof (t))
# define GC_NEW_ATOMIC(t) (t *)GC_MALLOC_ATOMIC(sizeof (t))
# define GC_NEW_STUBBORN(t) (t *)GC_MALLOC_STUBBORN(sizeof (t))
# define GC_NEW_UNCOLLECTABLE(t) (t *)GC_MALLOC_UNCOLLECTABLE(sizeof (t))

/* Finalization. Some of these primitives are grossly unsafe.*/
/* The idea is to make them both cheap, and sufficient to build*/
/* a safer layer, closer to PCedar finalization.*/
/* The interface represents my conclusions from a long discussion*/
/* with Alan Demers, Dan Greene, Carl Hauser, Barry Hayes,*/
/* Christian Jacobi, and Russ Atkinson. It's not perfect, and*/
/* probably nobody else agrees with it. Hans-J. Boehm 3/13/92*/
typedef void (*GC_finalization_proc)
    GC_PROTO((GC_PTR obj, GC_PTR client_data));

GC_API void GC_register_finalizer
    GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
              GC_finalization_proc *ofn, GC_PTR *ocd));
GC_API void GC_debug_register_finalizer
    GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
              GC_finalization_proc *ofn, GC_PTR *ocd));

/* When obj is no longer accessible, invoke*/
/* (*fn)(obj, cd). If a and b are inaccessible, and*/
/* a points to b (after disappearing links have been*/
/* made to disappear), then only a will be*/
/* finalized. (If this does not create any new*/
/* pointers to b, then b will be finalized after the*/
/* next collection.) Any finalizable object that*/
/* is reachable from itself by following one or more*/
/* pointers will not be finalized (or collected).*'/
/* Thus cycles involving finalizable objects should*/
/* be avoided, or broken by disappearing links.*/
/* All but the last finalizer registered for an object */
/* is ignored.*'
/* Finalization may be removed by passing 0 as fn.*'
/* Finalizers are implicitly unregistered just before */
/* they are invoked.*'
/* The old finalizer and client data are stored in*/
/* *ofn and *ocd.*'
/* Fn is never invoked on an accessible object,*'
/* provided hidden pointers are converted to real */
/* pointers only if the allocation lock is held, and*/
/* such conversions are not performed by finalization*/
/* routines.*'
/* If GC_register_finalizer is aborted as a result of*/
/* a signal, the object may be left with no*/
/* finalization, even if neither the old nor new*/
/* finalizer were NULL.*'
/* Obj should be the nonNULL starting address of an */
/* object allocated by GC_malloc or friends. */
/* Note that any garbage collectable object referenced */
/* by cd will be considered accessible until the */
/* finalizer is invoked. */

/* Another versions of the above follow. It ignores */
/* self-cycles, i.e. pointers from a finalizable object to */
/* itself. There is a stylistic argument that this is wrong. */
/* but it's unavoidable for C++, since the compiler may */
/* silently introduce these. It's also benign in that specific */
/* case. */
/* Note that cd will still be viewed as accessible, even if it */
/* refers to the object itself. */
GC_API void GC_register_finalizer_ignore_self
GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
          GC_finalization_proc *ofn, GC_PTR *ocd));

GC_API void GC_debug_register_finalizer_ignore_self
GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
          GC_finalization_proc *ofn, GC_PTR *ocd));

/* Another version of the above. It ignores all cycles. */
/* It should probably only be used by Java implementations. */
/* Note that cd will still be viewed as accessible, even if it */
/* refers to the object itself. */
GC_API void GC_register_finalizer_no_order
GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
          GC_finalization_proc *ofn, GC_PTR *ocd));

GC_API void GC_debug_register_finalizer_no_order
GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
          GC_finalization_proc *ofn, GC_PTR *ocd));

/* The following routine may be used to break cycles between */
/* finalizable objects, thus causing cyclic finalizable */
/* objects to be finalized in the correct order. Standard */
/* use involves calling GC_register_disappearing_link(&p), */
/* where p is a pointer that is not followed by finalization */
/* code, and should not be considered in determining */
/* finalization order. */
GC_API int GC_register_disappearing_link GC_PROTO((GC_PTR * /* link */));
/* Link should point to a field of a heap allocated */
/* object obj. *link will be cleared when obj is */
/* found to be inaccessible. This happens BEFORE any */
/* finalization code is invoked, and BEFORE any */
/* decisions about finalization order are made. */
/* This is useful in telling the finalizer that */
/* some pointers are not essential for proper */
GC_API int GC_general_register_disappearing_link
GC_PROTO((GC_PTR * /* link */, GC_PTR obj));
/* A slight generalization of the above. *link is*/
/* cleared when obj first becomes inaccessible. This*/
/* can be used to implement weak pointers easily and*/
/* safely. Typically link will point to a location*/
/* holding a disguised pointer to obj. (A pointer */
/* inside an "atomic" object is effectively */
/* disguised.) In this way soft*/
/* pointers are broken before any object*/
/* reachable from them are finalized. Each link*/
/* May be registered only once, i.e. with one obj*/
/* value. This was added after a long email discussion */
/* with John Ellis.*/
/* Obj must be a pointer to the first word of an object */
/* we allocated. It is unsafe to explicitly deallocate */
/* the object containing link. Explicitly deallocating */
/* obj may or may not cause link to eventually be*/
/* cleared.*/
GC_API int GC_unregister_disappearing_link GC_PROTO((GC_PTR * /* link */));
/* Returns 0 if link was not actually registered.*/
/* Undoes a registration by either of the above two*/
/* routines.*/

/* Auxiliary fns to make finalization work correctly with displaced*/
/* pointers introduced by the debugging allocators.*/
GC_API GC_PTR GC_make_closure GC_PROTO((GC_finalization_proc fn, GC_PTR data));
GC_API void GC_debug_invoke_finalizer GC_PROTO((GC_PTR obj, GC_PTR data));
/* Returns 1=0 if GC_invoke_finalizers has something to do. */
GC_API int GC_should_invoke_finalizers GC_PROTO((void));
/* Run finalizers for all objects that are ready to*/
/* be finalized. Return the number of finalizers*/
/* that were run. Normally this is also called*/
/* implicitly during some allocations. If*/
/* GC-finalize_on_demand is nonzero, it must be called*/
/* explicitly. */

/* GC_set_warn_proc can be used to redirect or filter warning messages. */
/* p may not be a NULL pointer. */
typedef void (*GC_warn_proc) GC_PROTO((char *msg, GC_word arg));
GC_API GC_warn_proc GC_set_warn_proc GC_PROTO((GC_warn_proc p));
/* Returns old warning procedure. */

/* The following is intended to be used by a higher level*/
/* (e.g. Java-like) finalization facility. It is expected*/
/* that finalization code will arrange for hidden pointers to*/
/* disappear. Otherwise objects can be accessed after they*/
/* have been collected. */
/* Note that putting pointers in atomic objects or in */
/* nonpointer slots of "typed" objects is equivalent to */
/* disguising them in this way, and may have other advantages. */
#if defined(I_HIDE_POINTERS) || defined(GC_I_HIDE_POINTERS)
  typedef GC_word GC_hidden_pointer;
  # define HIDE_POINTER(p) (~(GC_hidden_pointer)(p))
  # define REVEAL_POINTER(p) ((GC_PTR)(HIDE_POINTER(p)))
  /* Converting a hidden pointer to a real pointer requires verifying*/
  /* that the object still exists. This involves acquiring the */
  /* allocator lock to avoid a race with the collector. */
#endif /* I_HIDE_POINTERS */

typedef GC_PTR (*GC_fn_type) GC_PROTO((GC_PTR client_data));
GC_API GC_PTR GC_call_with_alloc_lock
   GC_PROTO((GC_fn_type fn, GC_PTR client_data));

/* The following routines are primarily intended for use with a */
/* preprocessor which inserts calls to check C pointer arithmetic. */

/* Check that p and q point to the same object. */
/* Fail conspicuously if they don't. */
/* Returns the first argument. */
/* Succeeds if neither p nor q points to the heap. */
/* May succeed if both p and q point to between heap objects. */
GC_API GC_PTR GC_same_obj GC_PROTO((GC_PTR p, GC_PTR q));

/* Checked pointer pre- and post- increment operations. Note that*/
/* the second argument is in units of bytes, not multiples of the*/
/* object size. This should either be invoked from a macro, or the*/
/* call should be automatically generated. */
GC_API GC_PTR GC_pre_incr GC_PROTO((GC_PTR *p, size_t how_much));
GC_API GC_PTR GC_post_incr GC_PROTO((GC_PTR *p, size_t how_much));
/* Check that p is visible*/
/* to the collector as a possibly pointer containing location.*/
/* If it isn't fail conspicuously.*/
/* Returns the argument in all cases. May erroneously succeed*/
/* in hard cases. (This is intended for debugging use with*/
/* untyped allocations. The idea is that it should be possible, though*/
/* slow, to add such a call to all indirect pointer stores.)*/
/* Currently useless for multithreaded worlds.*/
GC_API GC_PTR GC_is_visible GC_PROTO((GC_PTR p));

/* Check that if p is a pointer to a heap page, then it points to*/
/* a valid displacement within a heap object.*/
/* Fail conspicuously if this property does not hold.*/
/* Uninteresting with GC_all_interior_pointers.*/
/* Always returns its argument.*/
GC_API GC_PTR GC_is_valid_displacement GC_PROTO((GC_PTR p));

/* Safer, but slow, pointer addition. Probably useful mainly with */
/* a preprocessor. Useful only for heap pointers.*/
#ifdef GC_DEBUG
  # define GC_PTR_ADD3(x, n, type_of_result) \ 
    ((type_of_result)GC_same_obj((x)+(n), (x)))
  # define GC_PRE_INCR3(x, n, type_of_result) \ 
    ((type_of_result)GC_pre_incr(&x), (n)*sizeof(*x))
  # define GC_POST_INCR2(x, type_of_result) \ 
    ((type_of_result)GC_post_incr(&x), sizeof(*x))
  # ifdef __GNUC__
    # define GC_PTR_ADD(x, n) \ 
        GC_PTR_ADD3(x, n, typeof(x))
    # define GC_PRE_INCR(x, n) \ 
        GC_PRE_INCR3(x, n, typeof(x))
    # define GC_POST_INCR(x, n) \ 
        GC_POST_INCR3(x, typeof(x))
  # else
    # define GC_PTR_ADD3(x, n, type_of_result) ((x)+(n))
    # define GC_PRE_INCR3(x, n, type_of_result) ((x)+(n))
    # define GC_POST_INCR2(x, n, type_of_result) ((x)+(n))
  # endif
#else
  # define GC_PTR_ADD3(x, n, type_of_result) ((x)+(n))
  # define GC_PRE_INCR3(x, n, type_of_result) ((x)+(n))
  # define GC_POST_INCR2(x, n, type_of_result) ((x)+(n))
#endif
/* We can't do this right without typeof, which ANSI*/
/* decided was not sufficiently useful. Repeatedly*/
/* mentioning the arguments seems too dangerous to be*/
/* useful. So does not casting the result.*/
#ifdef GC_DEBUG
  # define GC_PTR_ADD3(x, n, type_of_result) \ 
    ((type_of_result)GC_same_obj((x)+(n), (x)))
  # define GC_PRE_INCR3(x, n, type_of_result) \ 
    ((type_of_result)GC_pre_incr(&x), (n)*sizeof(*x))
  # define GC_POST_INCR2(x, n, type_of_result) \ 
    ((type_of_result)GC_post_incr(&x), sizeof(*x))
  # ifdef __GNUC__
    # define GC_PTR_ADD(x, n) \ 
        GC_PTR_ADD3(x, n, typeof(x))
    # define GC_PRE_INCR(x, n) \ 
        GC_PRE_INCR3(x, n, typeof(x))
    # define GC_POST_INCR(x, n) \ 
        GC_POST_INCR3(x, typeof(x))
  # else
    # define GC_PTR_ADD3(x, n, type_of_result) ((x)+(n))
    # define GC_PRE_INCR3(x, n, type_of_result) ((x)+(n))
    # define GC_POST_INCR2(x, n, type_of_result) ((x)+(n))
  # endif
#else
  # define GC_PTR_ADD3(x, n, type_of_result) ((x)+(n))
  # define GC_PRE_INCR3(x, n, type_of_result) ((x)+(n))
  # define GC_POST_INCR2(x, n, type_of_result) ((x)+(n))
#endif
/* Safer assignment of a pointer to a nonstack location. */
#ifdef GC_DEBUG
#define GC_PTR_STORE(p, q) (*(void **)GC_is_visible(p) = GC_is_valid_displacement(q))
#else /* !GC_DEBUG */
#define GC_PTR_STORE(p, q) *((p) = (q))
#endif

/* Functions called to report pointer checking errors */
GC_API void (*GC_same_obj_print_proc) GC_PROTO((GC_PTR p, GC_PTR q));

GC_API void (*GC_is_valid_displacement_print_proc)
GC_PROTO((GC_PTR p));

GC_API void (*GC_is_visible_print_proc)
GC_PROTO((GC_PTR p));

/* For pthread support, we generally need to intercept a number of */
/* thread library calls. We do that here by macro defining them. */
#if !defined(GC_USE_LD_WRAP) &&
  (defined(GC_PTHREADS) || defined(GC_SOLARIS_THREADS))
#include "gc_pthread_redirects.h"
#endif

/* Any flavor of threads except SRC_M3. */
/* This returns a list of objects, linked through their first */
/* word. Its use can greatly reduce lock contention problems, since */
/* the allocation lock can be acquired and released many fewer times. */
/* lb must be large enough to hold the pointer field. */
/* It is used internally by gc_local_alloc.h, which provides a simpler */
/* programming interface on Linux. */
GC_PTR GC_malloc_many(size_t lb); #define GC_NEXT(p) (*(GC_PTR *)(p)) /* Retrieve the next element */
/* in returned list. */
extern void GC_thr_init(); /* Needed for Solaris/X86 */

#endif /* THREADS && !SRC_M3 */
/*
 * All threads must be created using GC_CreateThread, so that they will be
 * recorded in the thread table. For backwards compatibility, this is not
 * technically true if the GC is built as a dynamic library, since it can
 * and does then use DllMain to keep track of thread creations. But new code
 * should be built to call GC_CreateThread.
 */

HANDLE WINAPI GC_CreateThread(
    LPSECURITY_ATTRIBUTES lpThreadAttributes,
    DWORD dwStackSize, LPTHREAD_START_ROUTINE lpStartAddress,
    LPVOID lpParameter, DWORD dwCreationFlags, LPDWORD lpThreadId);

/*
 * win32_threads.c implements the real WinMain, which will start a new thread
 * to call GC_WinMain after initializing the garbage collector.
 */

int WINAPI GC_WinMain(
    HINSTANCE hInstance,
    HINSTANCE hPrevInstance,
    LPWSTR lpCmdLine,
    int nCmdShow );

#ifdef _WIN32_WCE
/*
 * Similarly gnu-win32 DLLs need explicit initialization from
 */
#endif /* defined(_WIN32_WCE) */

#ifdef GC_BUILD
    # define WinMain GC_WinMain
    # define CreateThread GC_CreateThread
#endif /* defined(_WIN32_WCE) */

#endif /* defined(GC_WIN32_THREADS) */
* the main program, as does AIX.
*/
#define GC_INIT() { GC_add_roots(DATASTART, DATAEND); }
#else
#define GC_INIT()
#endif
#endif
#endif
#endif
#endif
#endif
#endif
#endif
#endif
#endif
#endif
#endif
#endif
#endif
#endif
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#endif
#endif
#endif
#endif
#endif
#endif
#ifndef __cplusplus
} /* end of extern "C" */
#endif
#endif /* _GC_H */

**10.396 wget 1.19.5**

**10.396.1 Available under license:**

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Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD

1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required

Wireshark requires a number of additional programs to function.
Install the latest versions of the following programs before compiling:

atk
cairo
expat
gettext
glib2
glitz
gtk2 / gtk+2
jpeg
pango
pkgconfig
png
The easiest way to install these is by using your operating system's ports or packages system.

2. Compiling Wireshark
-----------------------
To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

```
./configure
make
make install
```

The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement
--------------------------------------------
In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

```
ls -l /dev/bpf*
```

You should see one or more bpf devices listed similar to this:

```
crw------- 1 root wheel 0, 90 Aug 10 21:05 /dev/bpf0
crw------- 1 root wheel 0, 91 Aug 10 21:05 /dev/bpf1
```

Packet-capturing programs will pick the first bpf device that's not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

4. Running wireshark as a non-root user
-------------------------------------------
Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s).

If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also
add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

[localrules=10]
add path "bpf*" {mode and permissions}

where "mode and permissions" can include clauses such as

mode {octal permissions}

to set the permissions on the device (e.g., "mode 0660" to set the permissions to rw-rw-r--),

user {user}

to set the user who owns the device, or

group {group}

to set the group that owns the device and adding a line such as

devfs_system_ruleset=localrules

to /etc/rc.conf. For example, an /etc/devfs.rules file with

[localrules=10]
add path "bpf*" mode 0660 group wheel

will grant read and write permissions on all BPF devices to all users in the "wheel" group.

/* <filename>.c
 *
 * $Id$
 *
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 * By Gerald Combs <gerald@wireshark.org>
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 *
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version:             0.40
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10.4.11 XML-Simple 2.18
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10.414 xmlsec1 1.2.18

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xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries

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xmlsec-nss library

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10.416 yaml 0.1.2

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**10.418 YAML-Syck 1.07**

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10.420 zip 3.0

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10.421 zlib 1.2.5

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

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

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*/

10.422 zlib/contrib-ada subpart 1.2.5

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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- javaee_web_services_1_4.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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11.9 apoc-3.2.0.4 3.2.0.4

11.10 asm 5.2

11.11 ASM Core 3.3.1

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package org.objectweb.asm;

/**
 * A visitor to visit a Java annotation. The methods of this interface must be called in the following order: 
 * <tt>visit</tt> | <tt>visitEnum</tt> | <tt>visitAnnotation</tt> | <tt>visitArray</tt>* <tt>visitEnd</tt>.
 *
 * @author Eric Bruneton
 * @author Eugene Kuleshov
 */

public interface AnnotationVisitor {

/**
 * Visits a primitive value of the annotation.
 *
 * @param name the value name.
 * @param value the actual value, whose type must be { @link Byte}, { @link Boolean}, { @link Character}, { @link Short},
 *             { @link Integer}, { @link Long}, { @link Float}, { @link Double},
 *             { @link String} or { @link Type}. This value can also be an array
 *             of byte, boolean, short, char, int, long, float or double values
 *             (this is equivalent to using { @link visitArray visitArray} and
 *             visiting each array element in turn, but is more convenient).
 */
void visit(String name, Object value);

/**
 * Visits an enumeration value of the annotation.
 *
 * @param name the value name.
 * @param desc the class descriptor of the enumeration class.
 * @param value the actual enumeration value.
 */
void visitEnum(String name, String desc, String value);

/**
 * Visits a nested annotation value of the annotation.
 *
 * @param name the value name.
 * @param desc the class descriptor of the nested annotation class.
 * @return a visitor to visit the actual nested annotation value, or
 *        <tt>null</tt> if this visitor is not interested in visiting
 *        this nested annotation. <i>The nested annotation value must be
 *        fully visited before calling other methods on this annotation
 *        visitor</i>.
 */

*\* 
AnnotationVisitor visitAnnotation(String name, String desc);

*\* 
* Visits an array value of the annotation. Note that arrays of primitive 
* types (such as byte, boolean, short, char, int, long, float or double) 
* can be passed as value to \{@link #visit visit\}. This is what 
* \{@link ClassReader\} does. 
* 
* \@param name the value name. 
* \@return a visitor to visit the actual array value elements, or 
* \t null if this visitor is not interested in visiting 
* these values. The 'name' parameters passed to the methods of this 
* visitor are ignored. \textit{All the array values must be visited 
* before calling other methods on this annotation visitor}. 
*\*/ 
AnnotationVisitor visitArray(String name);

*\* 
* Visits the end of the annotation. 
*\*/ 
void visitEnd();

11.12 ASM helper Minidev 1.0.2

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11.13 aspectjrt 1.8.7

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11.14 aspectjweaver 1.8.9

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11.16 backbone 1.1.2

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11.17 Bean Validation API 1.1.0.Final

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11.18 blanket 1.1.7

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11.19 Bootstrap 3.3.7

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11.21 bootstrap-select 1.6.5

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11.24 caffeine 2.3.3

11.25 cdi-api 1.0 :SP1

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11.55 ehcache-core 2.4.0

11.56 el-api 2.2
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11.58 ember-array-contains-helper 1.3.1

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11.59 ember-basic-dropdown 0.32.9

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11.60 ember-cli-app-version 1.0.1

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11.62 ember-cli-deprecation-workflow 0.1 :v0.1.5
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11.64 ember-cli-jwt-decode 0.1.0

11.65 ember-cli-shims 0.1.1
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11.68 ember-concurrency 0.8.12

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11.69 ember-content-editable 0.10.0

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11.70 ember-cookies 0.0.13
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11.71 ember-data 2.10.0

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11.72 ember-data-model-fragments 2.3.2

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11.73 ember-data.model-fragments 0.4.2

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11.74 ember-factory-for-polyfill 1.3.1

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11.75 ember-getowner-polyfill 1.2.5

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11.81 ember-load-initializers 0.5.1

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11.82 ember-load-initializers 0.1.7

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11.84 ember-notify 5.2.0

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11.85 ember-power-select 1.8.5

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11.91 ember-simple-auth 1.2.2

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11.93 ember-text-measurer 0.3.3

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11.100 ember.js 2.8.3

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11.108 handlebars 4.0.5

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11.109 Hazelcast-all 3.7.5

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package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;
import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
    public static final String ACTION_MODIFY = "modify";
    public static final String ACTION_READ = "read";
    public static final String ACTION_REMOVE = "remove";
    public static final String ACTION_LOCK = "lock";
    public static final String ACTION_LISTEN = "listen";
    public static final String ACTION_RELEASE = "release";
    public static final String ACTION_ACQUIRE = "acquire";
    public static final String ACTION_PUT = "put";
    public static final String ACTION_ADD = "add";
    public static final String ACTION_INDEX = "index";
    public static final String ACTION_INTERCEPT = "intercept";
    public static final String ACTION_PUBLISH = "publish";

    private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String, PermissionFactory>();

    static {
        PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
            @Override
            public Permission create(String name, String... actions) {
                return new QueuePermission(name, actions);
            }
        });
        PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
            @Override
            public Permission create(String name, String... actions) {
                return new MapPermission(name, actions);
            }
        });
        PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
            @Override
            public Permission create(String name, String... actions) {
                return new MultiMapPermission(name, actions);
            }
        });
    }
}
PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ListPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SetPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});
null

private interface PermissionFactory {
    Permission create(String name, String... actions);
}

/**
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: " + serviceName);
    }

    return permissionFactory.create(name, actions);
}

package com.hazelcast.security.permission;

import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;

import java.security.Permission;

/**
 * @TODO Object Permission
 */

public abstract class InstancePermission extends ClusterPermission {
    protected static final int NONE = 0;
    protected static final int CREATE = 1;
    protected static final int DESTROY = 2;
private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new WildcardConfigPatternMatcher();

protected final int mask;
protected final String actions;

public InstancePermission(String name, String... actions) {
    super(name);
    if (name == null || ".equals(name)) {
        throw new IllegalArgumentException("Permission name is mandatory!");
    }
    mask = initMask(actions);

    final StringBuilder s = new StringBuilder();
    for (String action : actions) {
        s.append(action).append(" ");
    }
    this.actions = s.toString();
}

/**
 * init mask
 */
protected abstract int initMask(String[] actions);

@Override
public boolean implies(Permission permission) {
    if (this.getClass() != permission.getClass()) {
        return false;
    }
    InstancePermission that = (InstancePermission) permission;
    boolean maskTest = ((this.mask & that.mask) == that.mask);
    if (!maskTest) {
        return false;
    }
    return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}

@Override
public String getActions() {
    return actions;
}

@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    InstancePermission other = (InstancePermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    if (mask != other.mask) {
        return false;
    }
    return true;
}

/**************************************************************************/
public class SetPermission extends ListPermission {

    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
    }

    @Override
    public void add(Permission permission) {
    }

    @Override
    public boolean implies(Permission permission) {
        return false;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {
            @Override
            public boolean hasMoreElements() {
                return false;
            }

            @Override
            public Permission nextElement() {
                return null;
            }

            @Override
            public void remove() {
            }
        };
    }
}

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 */
public boolean hasMoreElements() {
    return false;
}

@Override
public Permission nextElement() {
    return null;
}
};

@Override
public int hashCode() {
    return 37;
}

@Override
public String toString() {
    return "<deny all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof DenyAllPermissionCollection;
}

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

 Open Source Used In Firepower 6.3
public final class AllPermissions extends ClusterPermission {

    public AllPermissions() {
        super("<all permissions>");
    }

    @Override
    public boolean implies(Permission permission) {
        return true;
    }

    @Override
    public String getActions() {
        return "<all actions>";
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionsCollection();
    }

    @Override
    public String toString() {
        return "<allow all permissions>";
    }

    @Override
    public boolean equals(Object obj) {
        return obj instanceof AllPermissions;
    }

    @Override
    public int hashCode() {
        return 111;
    }

    public static final class AllPermissionsCollection extends PermissionCollection {
        private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
        private boolean all;

        public AllPermissionsCollection() {
        }

        public AllPermissionsCollection(boolean all) {
            this.all = all;
        }

        @Override
    }
public void add(Permission permission) {
    if (permission instanceof AllPermissions) {
        all = true;
    }
}

@Override
public boolean implies(Permission permission) {
    return all;
}

@Override
public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        boolean more = all;

        @Override
        public boolean hasMoreElements() {
            return more;
        }

        @Override
        public Permission nextElement() {
            more = false;
            return ALL_PERMISSIONS;
        }
    };
}

@Override
public int hashCode() {
    return all ? 13 : -13;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    AllPermissionsCollection other = (AllPermissionsCollection) obj;
    return all == other.all;
}
@Override
public String toString() {
    return "<allow all permissions>";
}
*/

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 */

package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;
    private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

    public SemaphorePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        }
    }
}
} else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
    mask |= ACQUIRE;
} else if (ActionConstants.ACTION_RELEASE.equals(action)) {
    mask |= RELEASE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
}
}
return mask;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
        return mask;
    }

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    */

    package com.hazelcast.security.permission;

    public class DurableExecutorServicePermission extends InstancePermission {

        private static final int ALL = CREATE | DESTROY;

        public DurableExecutorServicePermission(String name, String... actions) {
            super(name, actions);
        }

        @Override
        protected int initMask(String[] actions) {
            int mask = NONE;
            for (String action : actions) {
                if (ActionConstants.ACTION_ALL.equals(action)) {
                    return ALL;
                }
            }
            return mask;
        }
    }
if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
}
return mask;
}
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*/
package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {
    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

    public CachePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_PUT.equals(action)) {
    mask |= PUT;
} else if (ActionConstants.ACTION_REMOVE.equals(action)) {
    mask |= REMOVE;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}
}
return mask;
}

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*/

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection()
    {
        final Set<Permission> perms = new HashSet<Permission>();
        final Class<? extends Permission> permClass;
    }

    public ClusterPermissionCollection(PermissionCollection c)
    {
        this();
public ClusterPermissionCollection() {
    permClass = null;
}

public ClusterPermissionCollection(Class<? extends Permission> permClass) {
    this.permClass = permClass;
}

public void add(Permission permission) {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass()))
        || (permission instanceof ClusterPermission);
    if (shouldAdd && !implies(permission)) {
        perms.add(permission);
    }
}

public void add(PermissionCollection permissions) {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    if (permissions instanceof ClusterPermissionCollection) {
        for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
            add(p);
        }
    }
}

public boolean implies(Permission permission) {
    for (Permission p : perms) {
        if (p.implies(permission)) {
            return true;
        }
    }
    return false;
}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;

for (Permission p : perms) {
    if (p != perm && p.implies(perm)) {
        implies = true;
        break;
    }
}
if (implies) {
    iter.remove();
}
}
setReadOnly();

public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

@Override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "]";
}
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 */

package com.hazelcast.security.permission;

public class LockPermission extends InstancePermission {

    private static final int LOCK = 4;

private static final int READ = 8;
private static final int ALL = CREATE | DESTROY | LOCK | READ;

public LockPermission(String key, String... actions) {
    super(key, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}

package com.hazelcast.security.permission;

public class CountDownLatchPermission extends InstancePermission {

private static final int READ = 4;
private static final int MODIFY = 8;
private static final int ALL = CREATE | DESTROY | READ | MODIFY;

public CountDownLatchPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        }
    }
    return mask;
}

package com.hazelcast.security.permission;

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 */
/**
 * To be able to map-reduce from a client in a secure environment
 */
public class MapReducePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public MapReducePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

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     */

    package com.hazelcast.security.permission;

    public class AtomicReferencePermission extends InstancePermission {
private static final int READ = 4;
private static final int MODIFY = 8;

private static final int ALL = READ | MODIFY | CREATE | DESTROY;

public AtomicReferencePermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}

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 */

package com.hazelcast.security.permission;
package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }

    public class ExecutorServicePermission extends InstancePermission {

        private static final int ALL = CREATE | DESTROY;

        public ExecutorServicePermission(String name, String... actions) {
            super(name, actions);
        }

        @Override
        protected int initMask(String[] actions) {
            int mask = NONE;
            for (String action : actions) {
                if (ActionConstants.ACTION_ALL.equals(action)) {
                    return ALL;
                }

                if (ActionConstants.ACTION_CREATE.equals(action)) {
                    mask |= CREATE;
                } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                    mask |= DESTROY;
                }
            }
            return mask;
        }
    }

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    */
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {

    private int hashcode;

    public ClusterPermission(String name) {
        super(name);
    }

    public PermissionCollection newPermissionCollection() {
        return new ClusterPermissionCollection(getClass());
    }

    @Override
    public int hashCode() {
        if (hashcode == 0) {
            final int prime = 31;
            int result = 1;
            if (getName() == null) {
                result = prime * result + 13;
            } else {
                result = prime * result + getName().hashCode();
            }
            hashcode = result;
        }
        return hashcode;
    }
}
package com.hazelcast.security.permission;

public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        ClusterPermission other = (ClusterPermission) obj;
        if (getName() == null && other.getName() != null) {
            return false;
        }
        if (!getName().equals(other.getName())) {
            return false;
        }
        return true;
    }

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     */

    public static final int READ = 4;
    public static final int MODIFY = 8;
    public static final int ALL = READ | MODIFY | CREATE | DESTROY;

}
public AtomicLongPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}

package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;

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    */
private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

public TopicPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
            mask |= PUBLISH;
        } else if (ActionConstants.ACTIONDestroy.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}

package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {
public TransactionPermission() {
    super("<transaction>");
}

@Override
public boolean implies(Permission permission) {
    return getClass() == permission.getClass();
}

@Override
public String getActions() {
    return "transaction";
}

package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public ListPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        return mask;
    }

    protected int initMask(String[] actions) {
        int mask = NONE;
        return mask;
    }

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    package com.hazelcast.security.permission;

    public class ListPermission extends InstancePermission {
    
    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;
    
    public ListPermission(String name, String... actions) {
        super(name, actions);
    }
    
    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        return mask;
    }

    protected int initMask(String[] actions) {
        int mask = NONE;
        return mask;
    }

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    */
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }
    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_ADD.equals(action)) {
        mask |= ADD;
    } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
        mask |= REMOVE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
        mask |= LISTEN;
    }
}
return mask;

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 */

package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
private static final int INTERCEPT = 256;
private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

public MapPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }
    }

    return mask;
}

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 */

package com.hazelcast.security.permission;

public class ReplicatedMapPermission
    extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public ReplicatedMapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        return ALL;
    }
int mask = NONE;
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_PUT.equals(action)) {
        mask |= PUT;
    } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
        mask |= REMOVE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
        mask |= LISTEN;
    } else if (ActionConstants.ACTION_LOCK.equals(action)) {
        mask |= LOCK;
    } else if (ActionConstants.ACTION_INDEX.equals(action)) {
        mask |= INDEX;
    } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
        mask |= INTERCEPT;
    }
}
return mask;
}
public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }

        return mask;
    }

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package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {
    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    public RingBufferPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }
}

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11.113 hibernate-validator 5.0.1.Final

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11.115 highlight.js/test/detect/dts/ 9.1.0

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 */

#include/ "skeleton.dtsi"

/ {
compatible = "xlnx,zynq-7000";

pmu {
compatible = "arm,cortex-a9-pmu";
interrupts = <0 5 4>, <0 6 4>;
interrupt-parent = <&intc>;
reg = < 0xf8891000 0x1000 0xf8893000 0x1000 >;
}

regulator_vccpint: fixedregulator@0 {
compatible = "regulator-fixed";
regulator-name = "VCCPINT";
regulator-min-microvolt = <1000000>;
regulator-max-microvolt = <1000000>;
regulator-boot-on;
regulator-always-on;
}

amba: amba {
compatible = "simple-bus";
#address-cells = <1>;
#size-cells = <1>;
interrupt-parent = <&intc>;
ranges;

adc: adc@f8007100 {
    compatible = "xlnx,zynq-xadc-1.00.a";
    reg = <0xf8007100 0x20>;
    interrupts = <0 7 4>;
    interrupt-parent = <&intc>;
    clocks = <&clkc 12>;
};

i2c0: i2c@e0004000 {
    compatible = "cdn,i2c-r1p10";
    status = "disabled";
    clocks = <&clkc 38>;
    interrupt-parent = <&intc>;
    interrupts = <0 25 4>;
    reg = <0xe0004000 0x1000>;
    #address-cells = <1>;
    #size-cells = <0>;
};

L2: cache-controller@f8f02000 {
    compatible = "arm,pl310-cache";
    reg = <0xF8F02000 0x1000>;
    interrupts = <0 2 4>;
    arm,data-latency = <3 2 2>;
    arm,tag-latency = <2 2 2>;
    cache-unified;
    cache-level = <2>;
};

};
};

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11.120 inflection r38

11.121 ip-address 4.2.0
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# Jackson JSON processor

## Jackson JSON processor annotations 2.9.5

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## Jackson JSON processor core 2.9.5

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11.124 jackson-core-asl 1.9.13

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11.126 jackson-dataformat-yaml 2.7.5

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11.131 javaassist 3.18.2-GA

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11.140 JBoss Transaction API 1.1 spec
1.0.1.Final

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11.155 jQuery BBQ 1.2.1
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11.158 jquery.terminal 1.10.1

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11.159 jquery.terminal/examples/json-rpc.php

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```php
/*
 * JSON-RPC Server implementation
 * Copyright (C) 2009 Jakub Jankiewicz <http://jcubic.pl>
 *
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 */

/*
 USAGE: create one class with public methods and call handle_json_rpc function
 with instance of this class

 <?php
 require('json_rpc.php');
 class Server {
   public function test($message) {
     return "you send ", $message;
   }
 }

 handle_json_rpc(new Server());
 ?>

 you can provide documentations for methods
 by adding static field:

 class Server {
   ...
   public static $test_documentation = "doc string";
 }
 */

 // set_error_handler('error_handler');
 ini_set('display_errors', 1);
 ini_set('track_errors', 1);
 ob_start();
```
function error_handler($err, $message, $file, $line) {
    global $stop;
    $stop = true;
    $content = explode("n", file_get_contents($file));
    header('Content-Type: application/json');
    $id = extract_id(); // don't need to parse
    $error = array(
        "code" => 100,
        "message" => "Server error",
        "error" => array(
            "name" => "PHPErrror",
            "code" => $err,
            "message" => $message,
            "file" => $file,
            "at" => $line,
            "line" => $content[$line-1])
    );
    ob_end_clean();
    echo response(null, $id, $error);
    exit();
}

// ----------------------------------------------------------------------------
class JsonRpcExeption extends Exception {
    function __construct($code, $message) {
        $this->code = $code;
        Exception::__construct($message);
    }
    function code() {
        return $this->code;
    }
}

// ----------------------------------------------------------------------------
function json_error() {
    switch (json_last_error()) {
    case JSON_ERROR_NONE:
        return 'No error has occurred';
    case JSON_ERROR_DEPTH:
        return 'The maximum stack depth has been exceeded';
    case JSON_ERROR_CTRL_CHAR:
        return 'Control character error, possibly incorrectly encoded';
    case JSON_ERROR_SYNTAX:
        return 'Syntax error';
    case JSON_ERROR_UTF8:
        return 'Malformed UTF-8 characters, possibly incorrectly encoded';
    }
}
// function get_raw_post_data() {
//   if (isset($_SERVER['HTTP_RAW_POST_DATA'])) {
//     return $_SERVER['HTTP_RAW_POST_DATA'];
//   } else {
//     return file_get_contents('php://input');
//   }
// }

// function has_field($object, $field) {
//   return in_array($field, array_keys(get_object_vars($object)));
//   return array_key_exists($field, get_object_vars($object));
// }

// function get_field($object, $field, $default) {
//   $array = get_object_vars($object);
//   if (isset($array[$field])) {
//     return $array[$field];
//   } else {
//     return $default;
//   }
// }

// function response($result, $id, $error) {
//   if ($error) {
//     $error['name'] = 'JSONRPCError';
//   }
//   return json_encode(array("jsonrpc" => "2.0",
//     'result' => $result,
//     'id' => $id,
//     'error' => $error));
// }

// function extract_id() {
//   $regex = '/\"id\" : \[0-9\]/';
//   $raw_data = get_raw_post_data();
//   if (preg_match($regex, $raw_data, $m)) {
//     return intval($m[1]);
//   } else {
//     return 0;
//   }
// }

// function get_object($object) {
//   return get_object_vars($object);
// }

// function get_field($object, $field) {
//   $array = get_object_vars($object);
//   if (isset($array[$field])) {
//     return $array[$field];
//   } else {
//     return $default;
//   }
// }

// function response($result, $id, $error) {
//   if ($error) {
//     $error['name'] = 'JSONRPCError';
//   }
//   return json_encode(array("jsonrpc" => "2.0",
//     'result' => $result,
//     'id' => $id,
//     'error' => $error));
// }

// function extract_id() {
//   $regex = '/\"id\" : \[0-9\]/';
//   $raw_data = get_raw_post_data();
//   if (preg_match($regex, $raw_data, $m)) {
//     return intval($m[1]);
//   } else {
//     return 0;
//   }
// }
return null;

// ----------------------------------------------------------------------------

function currentURL() {
    $pageURL = 'http';
    if (isset($_SERVER['HTTPS']) && $_SERVER['HTTPS'] == "on") {
        $pageURL .= "s";
    }
    $pageURL .= "/";
    if ($_SERVER['SERVER_PORT'] != "80") {
        $pageURL .= "://" . $_SERVER['SERVER_NAME'] . "\"." . $_SERVER['SERVER_PORT'] . $_SERVER['REQUEST_URI'];
    } else {
        $pageURL .= $_SERVER['SERVER_NAME'] . $_SERVER['REQUEST_URI'];
    }
    return $pageURL;
}

// ----------------------------------------------------------------------------

function service_description($object) {
    $className = get_class($object);
    $methods = get_class_methods($className);
    $service = array("sdversion" => "1.0",
                     "name" => "DemoService",
                     "address" => currentURL(),
                     "id" => "urn:md5:" . md5(currentURL()));
    $static = get_class_vars($className);
    foreach ($methods as $methodName) {
        $proc = array("name" => $methodName);
        $method = new ReflectionMethod($className, $methodName);
        $params = array();
        foreach ($method->getParameters() as $param) {
            $params[] = $param->name;
        }
        $proc['params'] = $params;
        $helpStrName = $methodName . ".documentation";
        if (array_key_exists($helpStrName, $static)) {
            $proc['help'] = $static[$helpStrName];
        }
        $service['procs'][] = $proc;
    }
    return $service;
}

// ----------------------------------------------------------------------------

function get_json_request() {
    $request = get_raw_post_data();
    if ($request == "") {
        return null;
    }
}
throw new JsonRpcException(101, "Parse Error: no data");
}
$encoding = mb_detect_encoding($request, 'auto'); // convert to unicode
if ($encoding != 'UTF-8') {
    $request = iconv($encoding, 'UTF-8', $request);
}
$request = json_decode($request);
if ($request == NULL) { // parse error
    $error = json_error();
    throw new JsonRpcException(101, "Parse Error: $error");
}
return $request;

// ----------------------------------------------------------------------------
function handle_json_rpc($object) {
    try {
        $input = get_json_request();

        header('Content-Type: application/json');

        $method = get_field($input, 'method', null);
        $params = get_field($input, 'params', null);
        $id = intval(get_field($input, 'id', null));

        // json rpc error
        if (!$method && !$id) {
            if (!$id) {
                $id = extract_id();
            }
            if (!$method) {
                $error = "no method";
            } else if (!$id) {
                $error = "no id";
            } else {
                $error = "unknown reason";
            }
            throw new JsonRpcException(103, "Invalid Request: $error");
        }" . $GLOBALS['HTTP_RAW_POST_DATA']);

        // fix params (if params is null set it to empty array)
        if (!$params) {
            $params = array();
        }
        // if params is object change it to array
        if (is_object($params)) {
            if (count(get_object_vars($params)) == 0) {
$params = array();
} else {
    $params = get_object_vars($params);
}

// call Service Method
$class = get_class($object);
$methods = get_class_methods($class);
if (strcmp($method, "system.describe") == 0) {
    echo json_encode(service_description($object));
} else if (!in_array($method, $methods) && !in_array("__call", $methods)) {
    // __call will be called for any method that's missing
    $msg = "Procedure \" . $method . \" not found";
    throw new JsonRpcException(104, $msg);
} else {
    if (in_array("__call", $methods) && !in_array($method, $methods)) {
        $result = call_user_func_array(array($object, $method), $params);
        echo response($result, $id, null);
    } else {
        $method_object = new ReflectionMethod($class, $method);
        $num_got = count($params);
        $num_expect = $method_object->getNumberOfParameters();
        if ($num_got != $num_expect) {
            $msg = "Wrong number of parameters. Got $num_got expect $num_expect";
            throw new JsonRpcException(105, $msg);
        } else {
            //throw new Exception('x -> ' . json_encode($params));
            $result = call_user_func_array(array($object, $method), $params);
            echo response($result, $id, null);
        }
    }
}
}
}

try {
    // exception with error code
    $msg = $e->getMessage();
    $code = $e->getCode();
    if ($code = 101) { // parse error;
        $id = extract_id();
    }
    echo response(null, $id, array("code"=>$code, "message"=>$msg));
} catch (Exception $e) {
    // catch all exception from user code
    $msg = $e->getMessage();
    echo response(null, $id, array("code"=>200, "message"=>$msg));
}
ob_end_flush();

Open Source Used In Firepower 6.3
11.160 jquery.wiggle 1

11.161 JRADIUS - Core 1.1.5

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

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

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

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

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

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

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

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

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user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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For an executable, the required form of the "work that uses the
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operates, and performs whatever part of its purpose remains meaningful.

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

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

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11.173 jzmq 3.1.0

11.174 lodash 3.10.1

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11.175 log4j 1.2.17

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11.176 log4j-api 2.3

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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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11.221 shiro-core-1.3.2 1.3.2

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 */

package org.apache.shiro.authz;

/**
 * A Permission represents the ability to perform an action or access a resource. A Permission is the most
 * granular, or atomic, unit in a system's security policy and is the cornerstone upon which fine-grained security
 * models are built.
 * <p/>
 * It is important to understand a Permission instance only represents functionality or access - it does not grant it.
 * Granting access to an application functionality or a particular resource is done by the application's security
 * configuration, typically by assigning Permissions to users, roles and/or groups.
 * <p/>
 * Most typical systems are what the Shiro team calls <em>role-based</em> in nature, where a role represents
 * common behavior for certain user types. For example, a system might have an <em>Aministrator</em> role, a
 * <em>User</em> or <em>Guest</em> roles, etc.
 * <p/>
 * But if you have a dynamic security model, where roles can be created and deleted at runtime, you can't hard-code
 * role names in your code. In this environment, roles themselves aren't aren't very useful. What matters is what
 * permissions are assigned to these roles.
 * <p/>
 * Under this paradigm, permissions are immutable and reflect an application's raw functionality
 * (opening files, accessing a web URL, creating users, etc). This is what allows a system's security policy
 * to be dynamic: because Permissions represent raw functionality and only change when the application's
 * source code changes, they are immutable at runtime - they represent 'what' the system can do. Roles, users, and
groups are the 'who' of the application. Determining 'who' can do 'what' then becomes a simple exercise of associating Permissions to roles, users, and groups in some way.

Most applications do this by associating a named role with permissions (i.e. a role 'has a' collection of Permissions) and then associate users with roles (i.e. a user 'has a' collection of roles) so that by transitive association, the user 'has' the permissions in their roles. There are numerous variations on this theme (permissions assigned directly to users, or assigned to groups, and users added to groups and these groups in turn have roles, etc, etc). When employing a permission-based security model instead of a role-based one, users, roles, and groups can all be created, configured and/or deleted at runtime. This enables an extremely powerful security model.

A benefit to Shiro is that, although it assumes most systems are based on these types of static role or dynamic role w/ permission schemes, it does not require a system to model their security data this way - all Permission checks are relegated to {@link org.apache.shiro.realm.Realm} implementations, and only those implementations really determine how a user 'has' a permission or not. The Realm could use the semantics described here, or it could utilize some other mechanism entirely - it is always up to the application developer.

Shiro provides a very powerful default implementation of this interface in the form of the {@link org.apache.shiro.authz.permission.WildcardPermission WildcardPermission}. We highly recommend that you investigate this class before trying to implement your own <code>Permission</code>s.

public interface Permission {

    /**
     * Returns {@code true} if this current instance <em>implies</em> all the functionality and/or resource access described by the specified {@code Permission} argument, {@code false} otherwise.
     * <p/>
     * That is, this current instance must be exactly equal to or a <em>superset</em> of the functionality and/or resource access described by the given {@code Permission} argument. Yet another way of saying this would be:
     * <p/>
     * If "permission1 implies permission2", i.e. <code>permission1.implies(permission2)</code>,
     * then any Subject granted {@code permission1} would have ability greater than or equal to that defined by {@code permission2}.
     * 
     * @param p the permission to check for behavior/functionality comparison.
     * @return {@code true} if this current instance <em>implies</em> all the functionality and/or resource access described by the specified {@code Permission} argument, {@code false} otherwise.
     */
    boolean implies(Permission p);
}

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package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;
import java.util.Collection;

/**
 * A RolePermissionResolver resolves a String value and converts it into a Collection of
 * {@link org.apache.shiro.authz.Permission} instances.
 * <p/>
 * In some cases a {@link org.apache.shiro.realm.Realm} my only be able to return a list of roles. This
 * component allows an application to resolve the roles into permissions.
 * 
 */
public interface RolePermissionResolver {

    /**
     * Resolves a Collection of Permissions based on the given String representation.
     *
     * @param roleString the String representation of a role name to resolve.
     * @return a Collection of Permissions based on the given String representation.
     */
    Collection<Permission> resolvePermissionsInRole(String roleString);

}
import java.io.Serializable;
import org.apache.shiro.authz.Permission;

/**
 * An all <tt>AllPermission</tt> instance is one that always implies any other permission; that is, its
 * {@link #implies implies} method always returns <tt>true</tt>.  
 * <p>You should be very careful about the users, roles, and/or groups to which this permission is assigned since
 * those respective entities will have the ability to do anything.  As such, an instance of this class
 * is typically only assigned only to "root" or "administrator" users or roles.
 * @since 0.1
 * */
public class AllPermission implements Permission, Serializable {

  /**
   * Always returns <tt>true</tt>, indicating any Subject granted this permission can do anything.
   * @param p the Permission to check for implies logic.
   * @return <tt>true</tt> always, indicating any Subject grated this permission can do anything.
   */
  public boolean implies(Permission p) {
    return true;
  }
}
*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;
import org.apache.shiro.util.CollectionUtils;
import org.apache.shiro.util.StringUtils;
import java.io.Serializable;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Set;

/**
 * A <code>WildcardPermission</code> is a very flexible permission construct supporting multiple levels of
 * permission matching. However, most people will probably follow some standard conventions as explained below.
 * <p/>
 * <h3>Simple Usage</h3>
 * <p/>
 * In the simplest form, <code>WildcardPermission</code> can be used as a simple permission string. You could
 * grant a user an "editNewsletter" permission and then check to see if the user has the editNewsletter
 * permission by calling
 * <p/>
 * <code>subject.isPermitted("editNewsletter")</code>
 * <p/>
 * This is (mostly) equivalent to
 * <p/>
 * <code>subject.isPermitted( new WildcardPermission("editNewsletter") )</code>
 * <p/>
 * but more on that later.
 * <p/>
 * The simple permission string may work for simple applications, but it requires you to have permissions like
 * <code>"viewNewsletter"</code>, <code>"deleteNewsletter"</code>,
 * <code>"createNewsletter"</code>, etc. You can also grant a user <code>"*"</code> permissions
 * using the wildcard character (giving this class its name), which means they have <em>all</em> permissions. But
 * using this approach there's no way to just say a user has "all newsletter permissions".
 * <p/>
For this reason, <code>WildcardPermission</code> supports multiple <em>levels</em> of permissioning.

* <p/>

* <h3>Multiple Levels</h3>

* <p/>

* <code>WildcardPermission</code> also supports the concept of multiple <em>levels</em>. For example, you could restructure the previous simple example by granting a user the permission <code>"newsletter:edit"</code>. The colon in this example is a special character used by the <code>WildcardPermission</code> that delimits the next token in the permission.

* <p/>

* In this example, the first token is the <em>domain</em> that is being operated on and the second token is the <em>action</em> being performed. Each level can contain multiple values. So you could simply grant a user the permission <code>"newsletter:view,edit,create"</code> which gives them access to perform <code>"view"</code>, <code>"edit"</code>, and <code>"create"</code> actions in the <code>newsletter</code> domain. Then you could check to see if the user has the <code>"create"</code> permission by calling

* <p/>

* <code>subject.isPermitted("create")</code>

* <p/>

* (which would return true).

* <p/>

* In addition to granting multiple permissions via a single string, you can grant all permission for a particular level. So if you wanted to grant a user all actions in the <code>newsletter</code> domain, you could simply give them <code>":*"</code>. Now, any permission check for <code>"newsletter:XXX"</code> will return <code>true</code>. It is also possible to use the wildcard token at the domain level (or both): so you could grant a user the <code>"view"</code> action across all domains <code>*:view"</code>. 

* <p/>

* <h3>Instance-level Access Control</h3>

* <p/>

* Another common usage of the <code>WildcardPermission</code> is to model instance-level Access Control Lists. In this scenario you use three tokens - the first is the <em>domain</em>, the second is the <em>action</em>, and the third is the <em>instance</em> you are acting on.

* <p/>

* So for example you could grant a user <code>"newsletter:edit:12,13,18"</code>. In this example, assume that the third token is the system's ID of the newsletter. That would allow the user to edit newsletters <code>12</code>, <code>13</code>, and <code>18</code>. This is an extremely powerful way to express permissions, since you can now say things like <code>"newsletter:*:13"</code> (grant a user all actions for newsletter <code>13</code>), <code>"newsletter:view,create,edit:*"</code> (allow the user to <code>view</code>, <code>create</code>, or <code>edit</code> <em>any</em> newsletter), or <code>"newsletter:*:*"</code> (allow the user to perform <em>any</em> action on <em>any</em> newsletter). 

* <p/>

* To perform checks against these instance-level permissions, the application should include the instance ID in the permission check like so:

* <p/>

* <code>subject.isPermitted("edit:13")</code>

* <p/>
* There is no limit to the number of tokens that can be used, so it is up to your imagination in terms of ways that
* this could be used in your application. However, the Shiro team likes to standardize some common usages shown
* above to help people get started and provide consistency in the Shiro community.
* @since 0.9
*
public class WildcardPermission implements Permission, Serializable {

    //TODO - JavaDoc methods

    /*--------------------------------------------
    | C O N S T A N T S   |
    --------------------------------------------*/
    protected static final String WILDCARD_TOKEN = "*";
    protected static final String PART_DIVIDER_TOKEN = ":";
    protected static final String SUBPART_DIVIDER_TOKEN = ",";
    protected static final boolean DEFAULT_CASE_SENSITIVE = false;

    /*--------------------------------------------
    | I N S T A N C E   V A R I A B L E S    |
    --------------------------------------------*/
    private List<Set<String>> parts;

    /*--------------------------------------------
    | C O N S T R U C T O R S            |
    --------------------------------------------*/
    /**
     * Default no-arg constructor for subclasses only - end-user developers instantiating Permission instances must
     * provide a wildcard string at a minimum, since Permission instances are immutable once instantiated.
     * <p/>
     * Note that the WildcardPermission class is very robust and typically subclasses are not necessary unless you
     * wish to create type-safe Permission objects that would be used in your application, such as perhaps a
     * { @code UserPermission}, { @code SystemPermission}, { @code PrinterPermission}, etc. If you want such
     * type-safe
     * permission usage, consider subclassing the { @link DomainPermission DomainPermission} class for your
     * needs.
     */
    protected WildcardPermission() {
    }

    public WildcardPermission(String wildcardString) {
        this(wildcardString, DEFAULT_CASE_SENSITIVE);
    }

    public WildcardPermission(String wildcardString, boolean caseSensitive) {
        setParts(wildcardString, caseSensitive);
    }
protected void setParts(String wildcardString) {
    setParts(wildcardString, DEFAULT_CASE_SENSITIVE);
}

protected void setParts(String wildcardString, boolean caseSensitive) {
    wildcardString = StringUtils.clean(wildcardString);

    if (wildcardString == null || wildcardString.isEmpty()) {
        throw new IllegalArgumentException("Wildcard string cannot be null or empty. Make sure permission strings are properly formatted.");
    }

    if (!caseSensitive) {
        wildcardString = wildcardString.toLowerCase();
    }

    List<String> parts = CollectionUtils.asList(wildcardString.split(PART_DIVIDER_TOKEN));

    this.parts = new ArrayList<Set<String>>();
    for (String part : parts) {
        Set<String> subparts = CollectionUtils.asSet(part.split(SUBPART_DIVIDER_TOKEN));

        if (subparts.isEmpty()) {
            throw new IllegalArgumentException("Wildcard string cannot contain parts with only dividers. Make sure permission strings are properly formatted.");
        }
        this.parts.add(subparts);
    }
    if (this.parts.isEmpty()) {
        throw new IllegalArgumentException("Wildcard string cannot contain only dividers. Make sure permission strings are properly formatted.");
    }
}

/**
 * -------------------------------
 * | ACCESSORS / MODIFIERS |
 * -------------------------------*/

protected List<Set<String>> getParts() {
    return this.parts;
}

/**
* Sets the pre-split String parts of this <code>WildcardPermission</code>.
* @since 1.3.0
* @param parts pre-split String parts.
*/
protected void setParts(List<Set<String>> parts) {
this.parts = parts;
}

/*--------------------------------------------
|               M E T H O D S               |
============================================*/

public boolean implies(Permission p) {
    // By default only supports comparisons with other WildcardPermissions
    if (!(p instanceof WildcardPermission)) {
        return false;
    }

    WildcardPermission wp = (WildcardPermission) p;

    List<Set<String>> otherParts = wp.getParts();

    int i = 0;
    for (Set<String> otherPart : otherParts) {
        // If this permission has less parts than the other permission, everything after the number of parts contained
        // in this permission is automatically implied, so return true
        if (getParts().size() - 1 < i) {
            return true;
        } else {
            Set<String> part = getParts().get(i);
            if (!part.contains(WILDCARD_TOKEN) && !part.containsAll(otherPart)) {
                return false;
            } else {
                i++;
            }
        }
    }

    // If this permission has more parts than the other parts, only imply it if all of the other parts are wildcards
    for (; i < getParts().size(); i++) {
        Set<String> part = getParts().get(i);
        if (!part.contains(WILDCARD_TOKEN) && !part.containsAll(otherPart)) {
            return false;
        }
    }

    return true;
}

public String toString() {
    StringBuilder buffer = new StringBuilder();
    for (Set<String> part : parts) {
        if (buffer.length() > 0) {
            buffer.append(PART_DIVIDER_TOKEN);
        }
        buffer.append(part);
    }
    return buffer.toString();
}
Iterator<String> partIt = part.iterator();
while(partIt.hasNext()) {
    buffer.append(partIt.next());
    if (partIt.hasNext()) {
        buffer.append(SUBPART_DIVIDER_TOKEN);
    }
}
return buffer.toString();

public boolean equals(Object o) {
    if (o instanceof WildcardPermission) {
        WildcardPermission wp = (WildcardPermission) o;
        return parts.equals(wp.parts);
    }
    return false;
}

public int hashCode() {
    return parts.hashCode();
}

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 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

import org.apache.shiro.authz.permission;
A `PermissionResolver` resolves a String value and converts it into a `Permission` instance.

The default `WildcardPermissionResolver` should be suitable for most purposes, which constructs `WildcardPermission` objects. However, any resolver may be configured if an application wishes to use different `Permission` implementations.

A `PermissionResolver` is used by many Shiro components such as annotations, property file configuration, URL configuration, etc. It is useful whenever a String representation of a permission is specified and that String needs to be converted to a Permission instance before executing a security check.

Shiro chooses to support `WildcardPermission` by default in almost all components and we do that in the form of the `WildcardPermissionResolver`. One of the nice things about `WildcardPermission`s being supported by default is that it makes it very easy to store complex permissions in the database - and also makes it very easy to represent permissions in JSP files, annotations, etc., where a simple string representation is useful.

Although this happens to be the Shiro default, you are of course free to provide custom String-to-Permission conversion by providing Shiro components any instance of this interface. * @see ModularRealmAuthorizer#setPermissionResolver(PermissionResolver)
* @see AuthorizingRealm#setPermissionResolver(PermissionResolver)
* @see PermissionResolverAware
* @since 0.9

```java
public interface PermissionResolver {

    /**
     * Resolves a Permission based on the given String representation.
     *
     * @param permissionString the String representation of a permission.
     * @return A Permission object that can be used internally to determine a subject's permissions.
     * @throws InvalidPermissionStringException if the permission string is not valid for this resolver.
     */
    Permission resolvePermission(String permissionString);
}
```

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*/

package org.apache.shiro.authz.permission;

/**
 * Interface implemented by a component that wishes to use any application-configured
 * <tt>RolePermissionResolver</tt> that
 * might already exist instead of potentially creating one itself.
 * 
 * @since 1.0
 */

public interface RolePermissionResolverAware {

/**
 * Sets the specified <tt>RolePermissionResolver</tt> on this instance.
 * 
 * @param rpr the <tt>RolePermissionResolver</tt> being set.
 */

public void setRolePermissionResolver(RolePermissionResolver rpr);

}
package org.apache.shiro.authz.permission;

/**
 * Interface implemented by a component that wishes to use any application-configured <tt>PermissionResolver</tt> that
 * might already exist instead of potentially creating one itself.
 *
 * <p>This is mostly implemented by {@link org.apache.shiro.authz.Authorizer Authorizer} and
 * {@link org.apache.shiro.realm.Realm Realm} implementations since they
 * are the ones performing permission checks and need to know how to resolve Strings into
 * {@link org.apache.shiro.authz.Permission Permission} instances.
 *
 * @since 0.9
 */

public interface PermissionResolverAware {

    /**
     * Sets the specified <tt>PermissionResolver</tt> on this instance.
     *
     * @param pr the <tt>PermissionResolver</tt> being set.
     */
    public void setPermissionResolver(PermissionResolver pr);
}

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 */

package org.apache.shiro.authz.permission;
import org.apache.shiro.ShiroException;

/**
 * Thrown by {@link PermissionResolver#resolvePermission(String)} when the String being parsed is not
 * valid for that resolver.
 * @since 0.9
 */
public class InvalidPermissionStringException extends ShiroException {

    private String permissionString;

    /**
     * Constructs a new exception with the given message and permission string.
     * @param message          the exception message.
     * @param permissionString the invalid permission string.
     */
    public InvalidPermissionStringException(String message, String permissionString) {
        super(message);
        this.permissionString = permissionString;
    }

    /**
     * Returns the permission string that was invalid and caused this exception to
     * be thrown.
     * @return the permission string.
     */
    public String getPermissionString() {
        return this.permissionString;
    }
}

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*/
/**
* Support and default implementations for Shiro's [@link org.apache.shiro.authz.Permission Permission]
* interface.
* <p/>
* Also note the [@link org.apache.shiro.authz.permission.PermissionResolver PermissionResolver] interface, as
* it plays an important part in many of Shiro's [@link org.apache.shiro.realm.Realm Realm] implementations
* and AOP support.
*/
package org.apache.shiro.authz.permission;
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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

/**
* <tt>PermissionResolver</tt> implementation that returns a new [@link WildcardPermission WildcardPermission]
* based on the input string.
* 
* @since 0.9
*/
public class WildcardPermissionResolver implements PermissionResolver {

}
/**
 * Returns a new {@link WildcardPermission WildcardPermission} instance constructed based on the specified
 * <tt>permissionString</tt>.
 * *
 * @param permissionString the permission string to convert to a {@link Permission Permission} instance.
 * @return a new {@link WildcardPermission WildcardPermission} instance constructed based on the specified
 *         <tt>permissionString</tt>
 */

public Permission resolvePermission(String permissionString) {
    return new WildcardPermission(permissionString);
}

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11.223 slf4j-log4j12 1.7.12
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11.226 spring-beans 4.3.8.RELEASE

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11.236 spring-test 4.3.7.RELEASE

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<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
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11.241 swagger-client 2.1.29

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11.242 swagger-ui 2.2.10

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11.244 ua-parser-js 0.7.17

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11.246 XPP3 1.1.3.4.O

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