Open Source Used In IOS Release 15_9_3M

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   1.228.1 Available under license
1.229 tar 1.23-2
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1.230 tcp-wrappers 7.6 :r10
  1.230.1 Available under license
1.231 tcpdump 4.7.4 :r0
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1.4.1 Available under license :

This package was first put together by Ian Murdock
<imurdock@debian.org> and was maintained by Steve Phillips
<sjp@cvfn.org> from sources written for the Debian Project by Ian
Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<sr1@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
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Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschlus.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

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

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

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

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

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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 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
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changing the library, is in some sense simply using the library, and is
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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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I would like to thank the following people (in alphabetical order):

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If I've missed anyone, it's due to oversight. Drop me a line and I'll
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1.17 bsdutils 1:2.17.2-0ubuntu1

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size: 838608, sector size: 512, PT: dos, offset: 446
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
size: 4456448, sector size: 512, PT: bsd, offset: 512
---
#1: 7936 4864 0x7
#2: 12544 3584 0x7

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This package was put together by Guy Maor <maor@debian.org> and later
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<bunk@stusta.de>.

The current maintainer is LaMont Jones <lamont@debian.org>.
See also: git://git.debian.org/~lamont/util-linux.git
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This is libblkid, previously part of e2fsprogs this is now part of
util-linux-ng and has thus moved to the util-linux Debian source
package.

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

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```
== 7x14B.bdf 7x14Bc.bdf 7x14.bdf 7x14B-IL2.bdf 7x14c.bdf 7x14-IL2.bdf
8x13B.bdf 8x13Bc.bdf 8x13.bdf 8x13c.bdf 8x13-IL2.bdf 8x13O.bdf
9x15B.bdf 9x15Bc.bdf 9x15.bdf 9x15c.bdf 9x15B-IL2.bdf 9x15-IL2.bdf
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```

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   ter-u20b.bdf, ter-u20n.bdf, ter-u24b.bdf, ter-u24n.bdf,
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1.46 e2fsprogs 1.42.9 :r0

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Let no one say political correctness isn't dead....

```c
#ifndef _ss_h
#define _ss_h __FILE__

#include <ss/ss_err.h>

#define __SS_CONST const
#define __SS_PROTO (int, const char * const *, int, void *)

#ifdef __GNUC__
#define __SS_ATTR(x) __attribute__(x)
#else
#define __SS_ATTR(x)
#endif

typedef __SS_CONST struct _ss_request_entry {
    __SS_CONST char * __SS_CONST *command_names; /* whatever */
    void (* __SS_CONST function) __SS_PROTO; /* foo */
    __SS_CONST char * __SS_CONST info_string; /* NULL */
    int flags; /* 0 */
} ss_request_entry;

typedef __SS_CONST struct _ss_request_table {
    int version;
    ss_request_entry *requests;
} ss_request_table;

#define SS_RQT_TBL_V2 2

typedef struct _ss_rp_options { /* DEFAULT VALUES */
    int version; /* SS_RP_V1 */
    void (*unknown) __SS_PROTO; /* call for unknown command */
    int allow_suspend;
    int catch_int;
} ss_rp_options;

#define SS_RP_V1 1

#define SS_OPT_DONT_LIST 0x0001
#define SS_OPT_DONT_SUMMARIZE 0x0002
```
void ss_help __SS_PROTO;
#if 0
char *ss_current_request(); /* This is actually a macro */
#endif
char *ss_name(int sci_idx);
void ss_error (int, long, char const *, ...)
    __SS_ATTR((format(printf, 3, 4)));
void ss_pererror (int, long, char const *);

int ss_create_invocation(const char *, const char *, void *,
    ss_request_table *, int *);
void ss_delete_invocation(int);
int ss_list(int);
int ss_execute_line(int, char *);
void ss_add_request_table(int, ss_request_table *, int, int *);
void ss_delete_request_table(int, ss_request_table *, int *);
void ss_abort_subsystem(int sci_idx, int code);
void ss_quit(int argc, const char * const *argv, int sci_idx, void *infop);
void ss_self_identify(int argc, const char * const *argv,
    int sci_idx, void *infop);
void ss_subsystem_name(int argc, const char * const *argv,
    int sci_idx, void *infop);
void ss_subsystem_version(int argc, const char * const *argv,
    int sci_idx, void *infop);
void ss_unimplemented(int argc, const char * const *argv,
    int sci_idx, void *infop);
void ss_set_prompt(int sci_idx, char *new_prompt);
char *ss_get_prompt(int sci_idx);
void ss_get_readline(int sci_idx);
char *ss_safe_getenv(const char *arg);

extern ss_request_table ss_std_requests;
#endif /* _ss_h */

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

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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 ** NOTE! The following LGPL license applies to the tdb
 ** library. This does NOT imply that all of Samba is released
 #
 # This is a Makefile stub which handles the creation of BSD shared
 # libraries.
 #
 # In order to use this stub, the following makefile variables must be defined.
 #
 # BSDLIB_VERSION = 1.0
 # BSDLIB_IMAGE = libce
 # BSDLIB_MYDIR = et
 # BSDLIB_INSTALL_DIR = $(SHLIBDIR)
 #
 all:: image

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

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

 image:$(BSD_LIB)

 $(BSD_LIB): $(OBJ)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJ))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \


'echo $(my_dir) | sed -e 's:lib/\[lib/\]'$(BSD_LIB) $(BSD_LIB))

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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Gadi Oxman, August 1995

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

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

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Theodore Ts'o
23-June-2007

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```
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```

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```
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1.48 eee-acpi-scripts 1.1.12+git0+9d4cdedca2 :r0

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Nico Golde <nion@debian.org> on Sun, 17 Feb 2008 12:49:45 -0400.

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1.49 elfutils 0.163 :r0.1
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1.53 findutils 4.4.2-1ubuntu1

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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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/
******************************************************************************
* Perl-Compatible Regular Expressions *
*******************************************************************************/
/* This is the public header file for the PCRE library, to be #included by
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*******************************************************************************/
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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_EXP_DECL and PCRECPP_EXP_DECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
    ifndef PCRE_EXP_DECL
        define PCRE_EXP_DECL extern __declspec(dllimport)
    endif
    ifndef __cplusplus
        ifndef PCRECPP_EXP_DECL
            define PCRECPP_EXP_DECL extern __declspec(dllimport)
        endif
        ifndef PCRECPP_EXP_DEFN
            define PCRECPP_EXP_DEFN __declspec(dllimport)
        endif
        endif
    endif
#endif

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

#if defined PCRE_EXP_DECL
    ifndef __cplusplus
        ifndef PCRECPP_EXP_DECL
            define PCRECPP_EXP_DECL extern
        endif
        ifndef PCRECPP_EXP_DEFN
            define PCRECPP_EXP_DEFN
        endif
    endif
#endif

#ifndef __cplusplus
    ifndef PCRECPP_EXP_DECL
        define PCRECPP_EXP_DECL extern
    endif
    ifndef PCRECPP_EXP_DEFN
        define PCRECPP_EXP_DEFN
    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 */

#ifdef __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 */

#ifdef __cplusplus
}
#endif
#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 */
#define PCRE_UCP               0x20000000 /* Compile, used in 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) /* For backward compatibility */
#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_DFA_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_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 pcre_internal.h. */
#ifndef 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 *. */
#ifndef 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 */
} pcre16_extra;
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 */
const PCRE_UCHAR16 *mark; /* Pointer to current mark or NULL */
}

/* 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_EXPDECL int pcre_config(int, void *);
PCRE_EXPDECL int pcre16_config(int, void *);
PCRE_EXPDECL int pcre_copy_named_substring(const pcre *, const char *, int *, int, const char *, char *, int);
PCRE_EXPDECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16, int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXPDECL 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_EXPDECL int pcre_dfa_exec(const pcre *, const pcre_extra *, const char *, int, int, int, int *, int, int *, int);
PCRE_EXPDECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *, PCRE_SPTR16, int, int, int, int *, int, int *, int);
PCRE_EXPDECL 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);
PCRE_EXPDECL void pcre_free_substring(const char *);
PCRE_EXPDECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXPDECL void pcre_free_substring_list(const char **);
PCRE_EXPDECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXPDECL int pcre_fullinfo(const pcre *, const pcre_extra *, int, void *);
PCRE_EXPDECL int pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int, void *);
PCRE_EXPDECL int pcre_get_named_substring(const pcre *, const char *, int *, int, const char *, const char **);
PCRE_EXPDECL int pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16, int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXPDECL int pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXPDECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXPDECL int pcre_get_stringtable_entries(const pcre *, const char *, char **, char **);
PCRE_EXPDECL int pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16, PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXPDECL int pcre_get_substring(const char *, int *, int, int, const char *);
PCRE_EXPDECL int pcre16_get_substring(PCRE_SPTR16, int *, int, PCRE_SPTR16 *);
PCRE_EXPDECL int pcre_get_substring_list(const char *, int *, int, const char ***);
PCRE_EXPDECL 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 *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

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

/* JIT compiler related functions. */

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

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

#endif /* End of pcre.h */

PCRE LICENCE

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End
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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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### Constant-time SSSE3 AES core implementation.

## version 0.1

## By Mike Hamburg (Stanford University), 2009

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## For details see http://shiftleft.org/papers/vector_aes/ and
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1.66 init-ifupdown 1.0 :r7.2
1.66.1 Available under license :
This package was created by Peter Tobias tobias@et-inf.fho-emden.de on Wed, 24 Aug 1994 21:33:28 +0200 and maintained by Anthony Towns <ajt@debian.org> until 2001.
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The Debian tree is maintained with "git" at:
git://git.debian.org/git/kernel/initramfs-tools.git
Authors: Adam Conrad <adconrad@ubuntu.com>,
Ben Collins <bcollins@ubuntu.com>,
David Hrdeman <david@hardeman.nu>,
Jeff Bailey <jbailey@ubuntu.com>,
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Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org>
integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl/pub/people/miquels/software
92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu/pub/Linux/system/daemons/init
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The sysvinit package in Debian is maintained as an alioth project. The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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1.75 kbd 1.15-1ubuntu3
1.75.1 Available under license :

# 
# PC Screen (console) Fonts - psf1 header 
#
0 leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2 byte 256 characters, Unicode index
>2 byte 3512 characters, Unicode index
>2 byte 4256 characters, Unicode level 2 index
>2 byte 5512 characters, Unicode level 2 index
>3 byte 8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0 lelong 0x864ab572 psf2 screen font data
>12 lelong & 11 with Unicode index
>16 lelong x 8b, %d glyphs
>28 lelong x 8b, %dx
>24 lelong x 8b %d
The file
kbd rate.c
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The files
dumpkeys.c loadkeys.y analyze.l ksym.s ksym.h
showkey.c keymaps.5 loadkeys.1 dumpkeys.1 showkey.1
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The files
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psf_fontop.c psf xtable.c resizecons.c screendump.c setkeycodes.c
setleds.c setmetamode.c setvesablank.c showconsolefont.c
spawn console.c spawn login.c
chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1
getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8
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src/findfile.c, src/getfd.c, src/getkeycodes.c, src/getunimap.c,
src/kbd_mode.c, src/loadunimap.c, src/psffontop.c, src/psfxtable.c,
src/resizecons.c, src/screendump.c, src/setkeycodes.c, src/setleds.c,
src/setmetamode.c, src/setvesablank.c, src/showconsolefont.c,
src/spawn_console.c, src/spawn_login.c, man/man1/chvt.1,
man/man1/deallocvt.1, man/man1/kbd_mode.1, man/man1/setleds.1,
man/man1/setmetamode.1, man/man8/getkeycodes.8, man/man8/loadunimap.8,
man/man8/resizecons.8, man/man8/setkeycodes.8 (and changes to files
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Files: man/man1misc/splitfont.1, man/man1/openvt.1, man/man8misc/setlogcons.8,
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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can’t be used for encryption, but will generate good random numbers.

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This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was
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Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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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.

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.

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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
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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
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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
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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:

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

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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".
This package was put together by Yann Dirson <dirson@debian.org>,
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This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o
23-June-2007

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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 is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image
real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

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

image:: $(BSD_LIB)

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

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

$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) @-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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

- trivial database library - private includes
- 
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1.92 libdbus-1-3 1.4.0-0ubuntu1

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g 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
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lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g rel_buffer.c
lib/gssapi/mechglue/g rel_cred.c
lib/gssapi/mechglue/g rel_name.c
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lib/gssapi/mechglue/g utils.c
lib/gssapi/mechglue/g verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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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
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
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and the initial implementation of incremental propagation, including
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
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lib/kdb/kdb_convert.c
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1.106 libklibc 1.5.20-1

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
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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@code{src/lib/gssapi}, including the following files:

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

@smallexample
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
@end smallexample

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cmd/krb5/slave/kpropd_rpc.c
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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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slave/kpropd_rpc.c
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@small\text{example}  
lib/gssapi/generic/gssapi_err_generic.et  
lib/gssapi/mechglue/g_accept_sec_context.c  
lib/gssapi/mechglue/g_acquire_cred.c  
lib/gssapi/mechglue/g_canon_name.c  
lib/gssapi/mechglue/g_compare_name.c  
lib/gssapi/mechglue/g_context_time.c  
lib/gssapi/mechglue/g_delete_sec_context.c  
lib/gssapi/mechglue/g_dsp_name.c  
lib/gssapi/mechglue/g_dsp_status.c  
lib/gssapi/mechglue/g_dup_name.c  
lib/gssapi/mechglue/g_exp_sec_context.c  
lib/gssapi/mechglue/g_export_name.c  
lib/gssapi/mechglue/g_glue.c  
lib/gssapi/mechglue/g_imp_name.c  
lib/gssapi/mechglue/g_imp_sec_context.c  
lib/gssapi/mechglue/g_init_sec_context.c  
lib/gssapi/mechglue/g_initialize.c  
lib/gssapi/mechglue/g_inquire_context.c  
lib/gssapi/mechglue/g_inquire_cred.c  
lib/gssapi/mechglue/g_inquire_names.c  
lib/gssapi/mechglue/g_process_context.c
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
@end smallexample
```

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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### 1.109 liblocale-gettext-perl 1.05-6

#### 1.109.1 Available under license:

This package was debianized by Raphael Hertzog <rhertzog@hrnet.fr> on Tue, 29 Dec 1998 12:11:58 +0100.

It was downloaded from http://www.cpan.org/modules/by-module/Locale/gettext-1.05.tar.gz

Upstream Author: Phillip Vandry <vandry@TZoNE.ORG>

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```
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1.110 liblzma2 4.999.9beta+20100527-1

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

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Name: XZ Utils
Maintainer: Lasse Collin <lasse.collin@tukaani.org>
Source: http://tukaani.org/xz
git://ctrl.tukaani.org/xz.git
X-Authors:

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dos/config.h was generated with autoheader, which tells Autoconf to
output a script to generate a config.h file and then runs it.

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X-Authors: Bruno Haible
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1.111 libncurses5 5.7+20100626-0ubuntu1

1.112 libncursesw5 5.7+20100626-0ubuntu1

1.113 libnih-dbus1 1.0.2-1ubuntu2
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1.116 libpam 1.2.1 :r5.3.1

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1.117 libpam-modules 1.1.1-4ubuntu1

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1.118 libpam-runtime 1.1.1-4ubuntu1

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1.119 libpam0g 1.1.1-4ubuntu1

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ftp.gnu.org:/pub/gnu/readline/readline-6.0.tar.gz.

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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.

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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modification of the work for the customer's own use and reverse
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Library is used in it and that the Library and its use are covered by
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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
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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

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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.

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

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1.134 libslang2 2.2.2-4ubuntu1

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1.135 libsm 1.2.2 :r0

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Motorola 68020 20mhz, NetBSD

SSLeay 0.9.0t 29-May-1998
built on Fri Jun 5 12:42:23 EST 1998
options:bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)
C flags:gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN
The 'numbers' are in 1000s of bytes per second processed.

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<th>256 bytes</th>
<th>1024 bytes</th>
<th>8192 bytes</th>
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<td>8079.73</td>
<td>8845.18</td>
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<td>127.31k</td>
<td>209.66k</td>
<td>250.50k</td>
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<td>30.06k</td>
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</tr>
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<td>1.3</td>
<td>12.9</td>
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</tr>
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</tr>
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</tr>
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</tr>
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</tr>
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</table>
1.137 libstdc++6 4.5.1-7ubuntu2

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1.143 libusb-0.1-4 2:0.1.12-15ubuntu2

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1.144 libusb1 1.0.19 :r0

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This is the Debian GNU/Linux prepackaged version of util-linux.

This package was put together by Guy Maor <maor@debian.org> and later maintained by Sean 'Shaleh' Perry <shaleh@debian.org>, and Adrian Bunk <bunk@stusta.de>.

The current maintainer is LaMont Jones <lamont@debian.org>.

See also: git://git.debian.org/~lamont/util-linux.git

It was downloaded from:

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

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

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

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

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

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
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the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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1.149 libxau 1.0.8 :r0

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1.152 libxml2 2.9.2 :r0

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1.153 libyaml 0.1.6 :r0

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1.154 libyaml-perl 0.71-1

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The following XC500 firmware file "dvb-fe-xc5000-1.6.114.fw" was
created based on "xc5000_firmwares_32000Khz.h".

Firmware provided as part of an XC5000 Linux developers kit by Brian
Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org>
on July 1, 2009.

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agere_sta_fw.bin -- 9.48 Hermes I
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Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.

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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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* 
* M. Welsh, 6 July 1996
* 
*/

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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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/* 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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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
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* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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/*
 * hmac.c is derived from:

Network Working Group    H. Krawczyk
Request for Comments: 2104    IBM
Category: Informational    M. Bellare
              UCSD
              R. Canetti
              IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code
==========================================================================
Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimetools/cmsutil.c. Therefore:

MOZILLA PUBLIC LICENSE
Version 1.1

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1.166 makedev 2.3.1-89ubuntu1
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This package is maintained for Debian by Bdale Garbee, <bdale@gag.com>.

It was downloaded from ftp.redhat.com, as a source .rpm from the 5.1 release.

Copyright:

No explicit copyright is asserted. Nick Holloway is the earliest author recorded in the sourcecode. I queried him for an explicit statement regarding the license status of this work, and this is his reply:

Date: Tue, 21 Jul 1998 19:57:10 +0100
From: Nick Holloway <Nick.Holloway@alfie.demon.co.uk>
Message-Id: <199807211857.TAA19068@alfie.demon.co.uk>
To: Bdale Garbee <bdale@gag.com>
Subject: Re: makedev license?

> I maintain the makedev package for Debian GNU/Linux. I am about to move
> from the ill-fated makedev-1.6 to the makedev-2.3.1 derived from your work
> by the folks at Redhat. I don't see any evidence of a copyright assertion
> or explicit license statement in the source. Your name appears to be the
> earliest attached to the current sourcecode. Am I correct in assuming the
> GPL? We try to be meticulous about having our base system be compliant
> with our Debian Free Software Guidelines, so I'd like an explicit statement.

It was never explicitly released as GPL, as that would have required including the file COPYING which would have been much larger than the actual MAKEDEV script (I was also too lazy to find out what incantations needed to be made). However, it is intended to be used as anyone sees fit, and the statement under “Copying Policy” is “Freely Redistributable” (see MAKEDEV.lsm from any of the releases I made).

The more recent modifications were done by Michael K. Johnson at Redhat. I think the understanding was that he would be taking over the maintenance of MAKEDEV (our discussion took place last September).

The only previous history was (according to an old posting to comp.os.linux) that I started with Jim Winstead's script.

So, as far as I am concerned, it is consistent with the Debian FSG.

--
'O O' | Home: Nick.Holloway@alfie.demon.co.uk http://www.alfie.demon.co.uk/
// ^ \ | Work: Nick.Holloway@parallax.co.uk

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1.167 mawk 1.3.3-15ubuntu2

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This package was put together by Chris Fearnley <cjf@netaxs.com>, from sources obtained from:
ftp://ftp.whidbey.net/pub/brennan/mawk1.3.3.tar.gz

It is currently being maintained by James Troup <james@nocrew.org>.

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1.168 module-init-tools 3.12-1ubuntu2
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1.170 mount 2.17.2-0ubuntu1

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size: 8388608, sector size: 512, PT: dos, offset: 446
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
size: 4456448, sector size: 512, PT: bsd, offset: 512
---
#1: 7936 4864 0x7
#2: 12544 3584 0x7

BZh91AY&SYf~@H R h%CFTC@OQ6_@
tJmlAHz1/]F0HABk@
BZh91AY&SY@cH+{H]yL*UT[JDCMhdtTPJ
4b"LLLD3Mf0h
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4h
P44OP4&FCFz()"{W ">CN @JEbx=Q \%
HFYP@R "o""^R 
/CbW"XZTK8o%"Z$]-9%m/cB7D4F"N7r;o2&HLP)9p]N^g~<$l9Q@4+CvT ]0"H-j]I[EKZMk2p[@0@I6YSTK6jS\"[SS@SliS/SUSn]S1ISHSI_@SS1 ISISH1c!$STA`PPPPP]W]ruU@UYVUUUU-mW[UEkJHR sUE]H:Ew][jGD;r #XZ^;{n|}?$X(8HXo<@>@bdo:>6BfjNRVZ^8y Tb)j*i+j,k-l-D y{]/FHZz;Cv|BBa$ISISISISIB<A<8aUJ7UUUU33333330ISISISIPpur8@>}"@ISISIS~M#;qP\x[@(jVZ:a H-kiWULR&vL1;HzSIp07R@mb.b;IEE2m"DSyP(Ejwq_X5u rBxhXH nr*]5`QrdC :.1JU@ @-h@ @IC-1^A5a -7@(|Ei.E7q)DP0,5:
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1.183 openssh-server 1:5.5p1-4ubuntu4

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1.184 openssl 1.0.2h :r0.4

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Pentium Pro 200mhz
FreeBSD 2.1.5
gcc 2.7.2.2

SSLeay 0.7.0 30-Jan-1997
built on Tue Apr 22 12:14:36 EST 1997
options:bn(64,32) md2(int) rc4(idx,int) des(ptr,risc1,16,long) idea(int) blowfish(ptr2)
C flags:gcc -DTERMIOS -D_ANSI_SOURCE -fomit-frame-pointer -O3 -m486 -Wall
The 'numbers' are in 1000s of bytes per second processed.
type 8 bytes 64 bytes 256 bytes 1024 bytes 8192 bytes
md2 130.99k 367.68k 499.09k 547.04k 566.50k
md5 1924.98k 8293.50k 13464.41k 16010.39k 16820.68k
sha 1250.75k 5330.43k 8636.88k 10227.36k 10779.14k
sha1 1071.55k 4572.50k 7459.98k 8791.96k 9341.61k
rc4 10724.22k 14546.25k 15240.18k 15259.50k 15265.63k
des cbc 3309.11k 3883.01k 3968.25k 3971.86k 3979.14k
des ede3 1442.98k 1548.33k 1562.48k 1562.00k 1563.33k
idea cbc 2195.69k 2506.39k 2529.59k 2545.66k 2546.54k
rc2 cbc 806.00k 833.52k 837.58k 838.52k 836.69k
blowfish cbc 4687.34k 5949.97k 6182.43k 6248.11k 6226.09k
rsa 512 bits 0.010s
rsa 1024 bits 0.045s
rsa 2048 bits 0.260s
rsa 4096 bits 1.690s
Motorola 68020 20mhz, NetBSD

SSLeay 0.9.0t 29-May-1998
built on Fri Jun 5 12:42:23 EST 1998
options:bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)
C flags:gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN
The 'numbers' are in 1000s of bytes per second processed.
type 8 bytes 64 bytes 256 bytes 1024 bytes 8192 bytes
md2 2176.00 5994.67 8079.73 8845.18 9077.01
mdc2 5730.67 6122.67 6167.66 6176.51 6174.87
md5 29.10k 127.31k 209.66k 250.50k 263.99k
hmac(md5) 12.33k 73.02k 160.17k 228.04k 261.15k
sha1 11.27k 49.37k 84.31k 102.40k 109.23k
rmd160 11.69k 48.62k 78.76k 93.15k 98.41k
rc4 117.96k 148.94k 152.57k 153.09k 152.92k
des cbc 27.13k 30.06k 30.38k 30.38k 30.53k
des ede3 10.51k 10.94k 11.01k 11.01k 11.01k
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OSSP uuid - Universally Unique Identifier
Version 1.6.2 (04-Jul-2008)

ABSTRACT

OSSP uuid is an ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universally Unique Identifier (UUID). It supports DCE 1.1 variant UIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

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of UUIDs which can be found at http://www.ossp.org/pkg/lib/uuid/

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**
** uuid_md5.c: MD5 API implementation
*/

/* own headers (part 1/2) */
#include "uuid_ac.h"

/* system headers */
#include <stdlib.h>
#include <string.h>

/* own headers (part 2/2) */
#include "uuid_md5.h"

/*
 * This is a RFC 1321 compliant Message Digest 5 (MD5) algorithm
 * implementation. It is directly derived from the RSA code published in
 * RFC 1321 with just the following functionality preserving changes:
 * - converted function definitions from K&R to ANSI C
 * - included contents of the "global.h" and "md5.h" headers
 * - moved the SXX defines into the MD5Transform function
 * - replaced MD5_memcpy() with memcpy(3) and MD5_memset() with memset(3)
 * - renamed "index" variables to "idx" to avoid namespace conflicts
 * - reformatted C style to conform with OSSP C style
 * - added own OSSP style frontend API
 */

/*
** ===== BEGIN RFC 1321 CODE =====
*/

/*
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/*
*/

/* POINTER defines a generic pointer type */
typedef unsigned char *POINTER;

/* UINT4 defines a four byte word */
#if SIZEOF_UNSIGNED_SHORT == 4
typedef unsigned short int UINT4;
#elif SIZEOF_UNSIGNED_INT == 4
typedef unsigned int UINT4;
#elif SIZEOF_UNSIGNED_LONG == 4
typedef unsigned long int UINT4;
#elif SIZEOF_UNSIGNED_LONG_LONG == 4
typedef unsigned long long int UINT4;
#else
#error ERROR: unable to determine UINT4 type (four byte word)
#endif

/* MD5 context. */
typedef struct {
    UINT4 state[4]; /* state (ABCD) */
    UINT4 count[2]; /* number of bits, modulo 2^64 (lsb first) */
    unsigned char buffer[64]; /* input buffer */
} MD5_CTX;

/* prototypes for internal functions */
static void MD5Init (MD5_CTX *ctx);
static void MD5Update (MD5_CTX *ctx, unsigned char *, unsigned int);
static void MD5Final (unsigned char [], MD5_CTX *);
static void MD5Transform (UINT4 [], unsigned char []);
static void Encode (unsigned char *, UINT4 *, unsigned int);
static void Decode (UINT4 *, unsigned char *, unsigned int);

/* finalization padding */
static unsigned char PADDING[64] = {
    0x80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
};

/* F, G, H and I are basic MD5 functions. */
#define F(x, y, z) (((x) & (y)) | ((~x) & (z)))
#define G(x, y, z) (((x) & (z)) | ((y) & (~z)))
#define H(x, y, z) ((x) ^ (y) ^ (z))
#define I(x, y, z) ((y) ^ ((x) | (~z)))

/* ROTATE_LEFT rotates x left n bits. */
#define ROTATE_LEFT(x, n) (((x) << (n)) | ((x) >> (32-(n))))

/* FF, GG, HH, and II transformations for rounds 1, 2, 3, and 4. Rotation is separate from addition to prevent recomputation. */
#define FF(a, b, c, d, x, s, ac) { 
  (a) += F ((b), (c), (d)) + (x) + (UINT4)(ac); 
  (a) = ROTATE_LEFT ((a), (s)); 
  (a) += (b); 
}
#define GG(a, b, c, d, x, s, ac) { 
  (a) += G ((b), (c), (d)) + (x) + (UINT4)(ac); 
  (a) = ROTATE_LEFT ((a), (s)); 
  (a) += (b); 
}
#define HH(a, b, c, d, x, s, ac) { 
  (a) += H ((b), (c), (d)) + (x) + (UINT4)(ac); 
  (a) = ROTATE_LEFT ((a), (s)); 
  (a) += (b); 
}
#define II(a, b, c, d, x, s, ac) { 
  (a) += I ((b), (c), (d)) + (x) + (UINT4)(ac); 
  (a) = ROTATE_LEFT ((a), (s)); 
  (a) += (b); 
}

/* MD5 initialization. Begins an MD5 operation, writing a new context. */
static void MD5Init(
    MD5_CTX *context)
{
    context->count[0] = context->count[1] = 0;

    /* Load magic initialization constants. */
    context->state[0] = 0x67452301;
    context->state[1] = 0xefcdab89;
    context->state[2] = 0x98badcfe;
context->state[3] = 0x10325476;
return;
}

/* MD5 block update operation. Continues an MD5 message-digest operation, processing another message block, and updating the context. */
static void MD5Update(
    MD5_CTX *context,                                        /* context */
    unsigned char *input,                                /* input block */
    unsigned int inputLen)                     /* length of input block */
{
    unsigned int i, idx, partLen;

    /* Compute number of bytes mod 64 */
    idx = (unsigned int)((context->count[0] >> 3) & 0x3F);

    /* Update number of bits */
    if ((context->count[0] += ((UINT4)inputLen << 3)) < ((UINT4)inputLen << 3))
        context->count[1]++;
    context->count[1] += ((UINT4)inputLen >> 29);

    partLen = (unsigned int)64 - idx;

    /* Transform as many times as possible. */
    if (inputLen >= partLen) {
        memcpy((POINTER)&context->buffer[idx], (POINTER)input, (size_t)partLen);
        MD5Transform(context->state, context->buffer);
        for (i = partLen; i + 63 < inputLen; i += 64)
            MD5Transform(context->state, &input[i]);
        idx = 0;
    } else
        i = 0;

    /* Buffer remaining input */
    memcpy((POINTER)&context->buffer[idx], (POINTER)&input[i], (size_t)(inputLen - i));
}

/* MD5 finalization. Ends an MD5 message-digest operation, writing the message digest and zeroizing the context. */
static void MD5Final(
    unsigned char digest[],                                 /* message digest */
    MD5_CTX *context)                                       /* context */
{
    unsigned char bits[8];
    unsigned int idx, padLen;

    /* Finalize MD5 computation and write the digest. */
    MD5Transform(context->state, context->buffer);
    MD5Write(context, context->buffer);
    MD5Finalize(context, digest);

    /* Zeroize the context */
    MD5_CTX_zero(context);
}
/* Save number of bits */
Encode(bits, context->count, 8);

/* Pad out to 56 mod 64. */
idx = (unsigned int)((context->count[0] >> 3) & 0x3f);
padLen = (idx < 56) ? ((unsigned int)56 - idx) : ((unsigned int)120 - idx);
MD5Update(context, PADDING, padLen);

/* Append length (before padding) */
MD5Update(context, bits, 8);

/* Store state in digest */
Encode(digest, context->state, 16);

/* Zeroize sensitive information. */
memset((POINTER)context, 0, sizeof(*context));
}

/* MD5 basic transformation. Transforms state based on block. */
static void MD5Transform(
    UINT4 state[],
    unsigned char block[])
{
    UINT4 a = state[0], b = state[1], c = state[2], d = state[3], x[16];

    Decode(x, block, 64);

    /* Round 1 */
#define S11 7
#define S12 12
#define S13 17
#define S14 22
    FF (a, b, c, d, x[ 0], S11, 0xd76aa478); /* 1 */
    FF (d, a, b, c, x[ 1], S12, 0xe8c7b756); /* 2 */
    FF (c, d, a, b, x[ 2], S13, 0x242070db); /* 3 */
    FF (b, c, d, a, x[ 3], S14, 0x08fd0a19); /* 4 */
    FF (a, b, c, d, x[ 4], S11, 0xf57c0faf); /* 5 */
    FF (d, a, b, c, x[ 5], S12, 0x00a369ef); /* 6 */
    FF (c, d, a, b, x[ 6], S13, 0x8c16f579); /* 7 */
    FF (b, c, d, a, x[ 7], S14, 0x72203a5a); /* 8 */
    FF (a, b, c, d, x[ 8], S11, 0x65b76a29); /* 9 */
    FF (d, a, b, c, x[ 9], S12, 0x86e7a2b7); /* 10 */
    FF (c, d, a, b, x[10], S13, 0x7f93819a); /* 11 */
    FF (b, c, d, a, x[11], S14, 0x991c7ada); /* 12 */
    FF (a, b, c, d, x[12], S11, 0xc10e498f); /* 13 */
    FF (d, a, b, c, x[13], S12, 0x70326f5d); /* 14 */
    FF (c, d, a, b, x[14], S13, 0xffd111bb); /* 15 */
    FF (b, c, d, a, x[15], S14, 0xb6e8ffeb); /* 16 */
# Round 2 #
#define S21 5
#define S22 9
#define S23 14
#define S24 20
GG (a, b, c, d, x[ 1], S21, 0xf61e2562); /* 17 */
GG (d, a, b, c, x[ 6], S22, 0xc040b340); /* 18 */
GG (c, d, a, b, x[11], S23, 0x265e5a51); /* 19 */
GG (b, c, d, a, x[ 0], S24, 0xe9b6c7aa); /* 20 */
GG (a, b, c, d, x[ 5], S21, 0xd62f105d); /* 21 */
GG (d, a, b, c, x[10], S22, 0x2441453); /* 22 */
GG (c, d, a, b, x[15], S23, 0xd8a1e681); /* 23 */
GG (b, c, d, a, x[ 4], S24, 0xe7d3fbc8); /* 24 */
GG (a, b, c, d, x[ 9], S21, 0x21e1cde6); /* 25 */
GG (d, a, b, c, x[14], S22, 0xc33707d6); /* 26 */
GG (c, d, a, b, x[ 3], S23, 0xf4d50d87); /* 27 */
GG (b, c, d, a, x[ 8], S24, 0x455a14ed); /* 28 */
GG (a, b, c, d, x[13], S21, 0xa9e3e905); /* 29 */
GG (d, a, b, c, x[ 2], S22, 0x0c76fa38); /* 30 */
GG (c, d, a, b, x[ 7], S23, 0x676f02d9); /* 31 */
GG (b, c, d, a, x[12], S24, 0x8d2a4c8a); /* 32 */

/* Round 3 */
#define S31 4
#define S32 11
#define S33 16
#define S34 23
HH (a, b, c, d, x[ 5], S31, 0xfffa3942); /* 33 */
HH (d, a, b, c, x[ 8], S32, 0x87711f681); /* 34 */
HH (c, d, a, b, x[11], S33, 0x6d9d6122); /* 35 */
HH (b, c, d, a, x[14], S34, 0xfd5f380c); /* 36 */
HH (a, b, c, d, x[ 1], S31, 0xda4bee4a4); /* 37 */
HH (d, a, b, c, x[ 4], S32, 0x48decfa9); /* 38 */
HH (c, d, a, b, x[ 7], S33, 0x66bb4b60); /* 39 */
HH (b, c, d, a, x[10], S34, 0xbefbfc70); /* 40 */
HH (a, b, c, d, x[13], S31, 0x499b7e6c6); /* 41 */
HH (d, a, b, c, x[ 0], S32, 0xeaa127fa); /* 42 */
HH (c, d, a, b, x[ 3], S33, 0x4ef3085); /* 43 */
HH (b, c, d, a, x[ 6], S34, 0xe881d05); /* 44 */
HH (a, b, c, d, x[ 9], S31, 0x9d9d609); /* 45 */
HH (d, a, b, c, x[12], S32, 0xe6eb99e5); /* 46 */
HH (c, d, a, b, x[15], S33, 0x1fa27cf8); /* 47 */
HH (b, c, d, a, x[ 2], S34, 0x8d2a4c8a); /* 48 */

/* Round 4 */
#define S41 6
#define S42 10
#define S43 15
#define S44 21

II (a, b, c, d, x[ 0], S41, 0xf4292244); /* 49 */
II (d, a, b, c, x[ 7], S42, 0x432aff97); /* 50 */
II (c, d, a, b, x[14], S43, 0xab9423a7); /* 51 */
II (b, c, d, a, x[ 5], S44, 0xfc93a039); /* 52 */
II (a, b, c, d, x[12], S41, 0x655b59c3); /* 53 */
II (d, a, b, c, x[ 3], S42, 0x8f0ccc92); /* 54 */
II (c, d, a, b, x[10], S43, 0xffeff47d); /* 55 */
II (b, c, d, a, x[ 1], S44, 0x85845dd1); /* 56 */
II (a, b, c, d, x[ 8], S41, 0x6fa87e4f); /* 57 */
II (d, a, b, c, x[15], S42, 0xe2ce6e0); /* 58 */
II (c, d, a, b, x[ 6], S43, 0xa3014314); /* 59 */
II (b, c, d, a, x[13], S44, 0xe4e0811a1); /* 60 */
II (a, b, c, d, x[ 4], S41, 0xf7537e82); /* 61 */
II (d, a, b, c, x[11], S42, 0xbd3af235); /* 62 */
II (c, d, a, b, x[ 2], S43, 0x2ad7d2bb); /* 63 */
II (b, c, d, a, x[ 9], S44, 0xeb86d391); /* 64 */

state[0] += a;
state[1] += b;
state[2] += c;
state[3] += d;

/* Zeroize sensitive information. */
memset((POINTER)x, 0, sizeof(x));
}

/* Encodes input (UINT4) into output (unsigned char).
   Assumes len is a multiple of 4. */
static void Encode(
    unsigned char *output,
    UINT4 *input,
    unsigned int len)
{

    unsigned int i, j;

    for (i = 0, j = 0; j < len; i++, j += 4) {
        output[j]   = (unsigned char)( input[i]        & 0xff);
        output[j+1] = (unsigned char)((input[i] >> 8)  & 0xff);
        output[j+2] = (unsigned char)((input[i] >> 16) & 0xff);
        output[j+3] = (unsigned char)((input[i] >> 24) & 0xff);
    }
    return;
}

/* Decodes input (unsigned char) into output (UINT4).
   Assumes len is a multiple of 4. */
static void Decode(
    UINT4 *output,
    unsigned char *input,
    unsigned int len)
{
    unsigned int i, j;

    for (i = 0, j = 0; j < len; i++, j += 4)
        output[i] =   ( (UINT4)input[j])
            | (((UINT4)input[j+1]) << 8 )
            | (((UINT4)input[j+2]) << 16)
            | (((UINT4)input[j+3]) << 24);
    return;
}

/*
** ===== END RFC 1321 CODE =====
*/

struct md5_st {
    MD5_CTX ctx;
};

md5_rc_t md5_create(md5_t **md5)
{
    if (md5 == NULL)
        return MD5_RC_ARG;
    if ((*md5 = (md5_t *)malloc(sizeof(md5_t))) == NULL)
        return MD5_RC_MEM;
    MD5Init(&((*md5)->ctx));
    return MD5_RC_OK;
}

md5_rc_t md5_init(md5_t *md5)
{
    if (md5 == NULL)
        return MD5_RC_ARG;
    MD5Init(&((md5->ctx));
    return MD5_RC_OK;
}

md5_rc_t md5_update(md5_t *md5, const void *data_ptr, size_t data_len)
{
    if (md5 == NULL)
        return MD5_RC_ARG;
    MD5Update(&(md5->ctx), (unsigned char *)data_ptr, (unsigned int)data_len);
    return MD5_RC_OK;
}
md5_rc_t md5_store(md5_t *md5, void **data_ptr, size_t *data_len)
{
    MD5_CTX ctx;

    if (md5 == NULL || data_ptr == NULL)
        return MD5_RC_ARG;
    if (*data_ptr == NULL) {
        if ((*data_ptr = malloc(MD5_LEN_BIN)) == NULL)
            return MD5_RC_MEM;
        if (data_len != NULL)
            *data_len = MD5_LEN_BIN;
    }
    else {
        if (data_len != NULL) {
            if (*data_len < MD5_LEN_BIN)
                return MD5_RC_MEM;
            *data_len = MD5_LEN_BIN;
        }
    }
    memcpy((void *)&(ctx), (void *)&(md5->ctx), sizeof(MD5_CTX));
    MD5Final((unsigned char *)(*data_ptr), &(ctx));
    return MD5_RC_OK;
}

md5_rc_t md5_format(md5_t *md5, char **data_ptr, size_t *data_len)
{
    static const char hex[] = "0123456789abcdef";
    unsigned char buf[MD5_LEN_BIN];
    unsigned char *bufptr;
    size_t buflen;
    md5_rc_t rc;
    int i;

    if (md5 == NULL || data_ptr == NULL)
        return MD5_RC_ARG;
    if (*data_ptr == NULL) {
        if (((*data_ptr = (char *)malloc(MD5_LEN_STR+1)) == NULL)
            return MD5_RC_MEM;
        if (data_len != NULL)
            *data_len = MD5_LEN_STR+1;
    }
    else {
        if (data_len != NULL) {
            if (*data_len < MD5_LEN_STR+1)
                return MD5_RC_MEM;
            *data_len = MD5_LEN_STR+1;
        }
    }
bufptr = buf;
buflen = sizeof(buf);
if ((rc = md5_store(md5, (void **)((void *)&bufptr), &buflen)) != MD5_RC_OK)
    return rc;

for (i = 0; i < (int)buflen; i++) {
    (*data_ptr)[(i*2)+0] = hex[(int)(bufptr[i] >> 4)];
    (*data_ptr)[(i*2)+1] = hex[(int)(bufptr[i] & 0x0f)];
}
(*data_ptr)[(i*2)] = '\0';
return MD5_RC_OK;
}

md5_rc_t md5_destroy(md5_t *md5)
{
    if (md5 == NULL)
        return MD5_RC_ARG;
    free(md5);
    return MD5_RC_OK;
}

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Julian Seward, jsward@bzip.org
bzip2/libbz2 version 1.0.5 of 10 December 2007

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<one line to give the program's name and a brief idea of what it does.>
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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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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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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.195 perl 5.22.0 :r0.1
1.195.1 Available under license :

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    The End

    #!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

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

$year;
}

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Version 1, February 1989

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

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

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

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

--------------------------------------------------------------------------
1.197 perl-modules 5.10.1-12ubuntu2

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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 */
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* - scheduling

* The user of this macro has to provide some configuration parameters
* (bit depths for the images, prefetch distance, etc.) and a set of
* macros, which should implement basic code chunks responsible for
* pixels processing. See 'pixman-arm-neon-asm.S' file for the usage
* examples.

* TODO:
* - try overlapped pixel method (from Ian Rickards) when processing
* - exactly two blocks of pixels
* - maybe add an option to do reverse scanline processing
*/

/*
* Bit flags for 'generate_composite_function' macro which are used
* to tune generated functions behavior.
*/
.set FLAG_DST_WRITEONLY,       0
.set FLAG_DST_READWRITE,       1
.set FLAG_DEINTERLEAVE_32BPP,  2

/*
* Offset in stack where mask and source pointer/stride can be accessed
* from 'init' macro. This is useful for doing special handling for solid mask.
*/
.set ARGS_STACK_OFFSET,        40

/*
* Constants for selecting preferable prefetch type.
*/
.set PREFETCH_TYPE_NONE,       0 /* No prefetch at all */
.set PREFETCH_TYPE_SIMPLE,     1 /* A simple, fixed-distance-ahead prefetch */
.set PREFETCH_TYPE_ADVANCED,   2 /* Advanced fine-grained prefetch */

/*
* Definitions of supplementary pixld/pixst macros (for partial load/store of
* pixel data).
*/

.macro pixldst1 op, elem_size, reg1, mem_operand, abits
   .if abits > 0
   op&.&elem_size {d&reg1}, [&mem_operand&, :&abits&]!
.else
  op&.&elem_size {d&reg1}, [mem_operand&]!
.endif
.endm

.macro pixldst2 op, elem_size, reg1, reg2, mem_operand, abits
  .if abits > 0
    op&.&elem_size {d&reg1, d&reg2}, [mem_operand&, :abits&]!
  .else
    op&.&elem_size {d&reg1, d&reg2}, [mem_operand&]!
  .endif
.endm

.macro pixldst4 op, elem_size, reg1, reg2, reg3, reg4, mem_operand, abits
  .if abits > 0
    op&.&elem_size {d&reg1, d&reg2, d&reg3, d&reg4}, [mem_operand&, :abits&]!
  .else
    op&.&elem_size {d&reg1, d&reg2, d&reg3, d&reg4}, [mem_operand&]!
  .endif
.endm

.macro pixldst0 op, elem_size, reg1, idx, mem_operand, abits
  op&.&elem_size {d&reg1[idx]}, [mem_operand&]!
.endm

.macro pixldst3 op, elem_size, reg1, reg2, reg3, mem_operand
  op&.&elem_size {d&reg1, d&reg2, d&reg3}, [mem_operand&]!
.endm

.macro pixldst30 op, elem_size, reg1, reg2, reg3, idx, mem_operand
  op&.&elem_size {d&reg1[idx], d&reg2[idx], d&reg3[idx]}, [mem_operand&]!
.endm

.macro pixldst numbytes, op, elem_size, basereg, mem_operand, abits
  .if numbytes == 32
    pixldst4 op, elem_size, %(basereg+4), %(basereg+5), \
    %(basereg+6), %(basereg+7), mem_operand, abits
  .elseif numbytes == 16
    pixldst2 op, elem_size, %(basereg+2), %(basereg+3), mem_operand, abits
  .elseif numbytes == 8
    pixldst1 op, elem_size, %(basereg+1), mem_operand, abits
  .elseif numbytes == 4
    .if !RESPECT_STRICT_ALIGNMENT || (elem_size == 32)
      pixldst0 op, 32, %(basereg+0), 1, mem_operand, abits
    .elseif elem_size == 16
      pixldst0 op, 16, %(basereg+0), 2, mem_operand, abits
    .else
      pixldst0 op, 16, %(basereg+0), 3, mem_operand, abits
    .else
pixldst0 op, 8, %basereg+0, 4, mem_operand, abits
pixldst0 op, 8, %basereg+0, 5, mem_operand, abits
pixldst0 op, 8, %basereg+0, 6, mem_operand, abits
pixldst0 op, 8, %basereg+0, 7, mem_operand, abits
.endif
.elseif numbytes == 2
  .if !RESPECT_STRICT_ALIGNMENT || (elem_size == 16)
    pixldst0 op, 16, %basereg+0, 1, mem_operand, abits
  .else
    pixldst0 op, 8, %basereg+0, 2, mem_operand, abits
    pixldst0 op, 8, %basereg+0, 3, mem_operand, abits
  .endif
.elseif numbytes == 1
  pixldst0 op, 8, %basereg+0, 1, mem_operand, abits
.else
  .error "unsupported size: numbytes"
.endif
.endm

.macro pixld numpix, bpp, basereg, mem_operand, abits=0
  .if bpp > 0
    .if (bpp == 32) && (numpix == 8) && (DEINTERLEAVE_32BPP_ENABLED != 0)
      pixld4 vld4, 8, %basereg+4, %basereg+5, %basereg+6, %basereg+7, mem_operand, abits
    .elseif (bpp == 24) && (numpix == 8)
      pixldst3 vld3, 8, %basereg+3, %basereg+4, %basereg+5, mem_operand
    .elseif (bpp == 24) && (numpix == 4)
      pixldst30 vld3, 8, %basereg+0, %basereg+1, %basereg+2, 4, mem_operand
      pixldst30 vld3, 8, %basereg+0, %basereg+1, %basereg+2, 5, mem_operand
      pixldst30 vld3, 8, %basereg+0, %basereg+1, %basereg+2, 6, mem_operand
      pixldst30 vld3, 8, %basereg+0, %basereg+1, %basereg+2, 7, mem_operand
    .elseif (bpp == 24) && (numpix == 2)
      pixldst30 vld3, 8, %basereg+0, %basereg+1, %basereg+2, 2, mem_operand
    .elseif (bpp == 24) && (numpix == 1)
      pixldst30 vld3, 8, %basereg+0, %basereg+1, %basereg+2, 1, mem_operand
    .else
      pixldst %(numpix * bpp / 8), vld1, %bpp, basereg, mem_operand, abits
    .endif
  .endif
.endm

.macro pixst numpix, bpp, basereg, mem_operand, abits=0
  .if bpp > 0
    .if (bpp == 32) && (numpix == 8) && (DEINTERLEAVE_32BPP_ENABLED != 0)
      pixldst4 vst4, 8, %basereg+4, %basereg+5, %basereg+6, %basereg+7, mem_operand, abits
    .elseif (bpp == 24) && (numpix == 8)
      pixldst3 vst3, 8, %basereg+3, %basereg+4, %basereg+5, mem_operand
    .elseif (bpp == 24) && (numpix == 4)
      pixldst30 vst30, 8, %basereg+0, %basereg+1, %basereg+2, 4, mem_operand
      pixldst30 vst30, 8, %basereg+0, %basereg+1, %basereg+2, 5, mem_operand
      pixldst30 vst30, 8, %basereg+0, %basereg+1, %basereg+2, 6, mem_operand
      pixldst30 vst30, 8, %basereg+0, %basereg+1, %basereg+2, 7, mem_operand
    .elseif (bpp == 24) && (numpix == 2)
      pixldst30 vst30, 8, %basereg+0, %basereg+1, %basereg+2, 2, mem_operand
    .elseif (bpp == 24) && (numpix == 1)
      pixldst30 vst30, 8, %basereg+0, %basereg+1, %basereg+2, 1, mem_operand
    .else
      pixldst %(numpix * bpp / 8), vst1, %bpp, basereg, mem_operand, abits
    .endif
  .endif
.endm

Open Source Used In IOS Release 15.9.3M 2287
pixldst3 vs3, 8, (%(reg+3), (%(reg+4), (%(reg+5), mem_operand
elseif (bpp == 24) && (numpix == 4)
    pixldst30 vs3, 8, (%(reg+0), (%(reg+1), (%(reg+2), mem_operand
pixldst3 vs3, 8, (%(reg+0), (%(reg+1), mem_operand
    pixldst3 vs3, 8, (%(reg+0), mem_operand
    pixldst3 vs3, 8, (%(reg+0), mem_operand
    pixldst3 vs3, 8, mem_operand
elseif (bpp == 24) && (numpix == 2)
    pixldst30 vs3, 8, (%(reg+0), (%(reg+1), mem_operand
pixldst3 vs3, 8, (%(reg+0), mem_operand
    pixldst3 vs3, 8, mem_operand
.pixldst30 vs3, 8, mem_operand
    pixldst3 vs3, 8, mem_operand
.pixldst3 vs3, 8, mem_operand
    pixldst3 vs3, mem_operand
else
    pixld %(numpix * bpp / 8), vs1, %(bpp), basereg, mem_operand, abits
endif
endif
.endm

.macro pixld_a numpix, bpp, basereg, mem_operand
    if (bpp * numpix) <= 128
        pixld numpix, bpp, basereg, mem_operand, %(bpp * numpix)
    else
        pixld numpix, bpp, basereg, mem_operand, 128
    endif
.endm

.macro pixst_a numpix, bpp, basereg, mem_operand
    if (bpp * numpix) <= 128
        pixst numpix, bpp, basereg, mem_operand, %(bpp * numpix)
    else
        pixst numpix, bpp, basereg, mem_operand, 128
    endif
.endm

; Pixel fetcher for nearest scaling (needs TMP1, TMP2, VX, UNIT_X register
; aliases to be defined)
/*
    mov TMP1, VX, asr #16
    adds VX, VX, UNIT_X
    5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl 5b
    add TMP1, mem_operand, TMP1, asl #1
    mov TMP2, VX, asr #16
    adds VX, VX, UNIT_X
    5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl 5b
Open Source Used In IOS Release 15_9_3M
add     TMP2, mem_operand, TMP2, asl #1
vld1.16 {d&reg1&[0]}, [TMP1, :16]
mov    TMP1, VX, asr #16
adds  VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
bl   5b
add    TMP1, mem_operand, TMP1, asl #1
vld1.16 {d&reg1&[1]}, [TMP2, :16]
mov    TMP2, VX, asr #16
adds  VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
bl   5b
add    TMP2, mem_operand, TMP2, asl #1
vld1.16 {d&reg1&[2]}, [TMP1, :16]
vld1.16 {d&reg1&[3]}, [TMP2, :16]
elseif elem_size == 32
mov    TMP1, VX, asr #16
adds  VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
bl   5b
add    TMP1, mem_operand, TMP1, asl #2
mov    TMP2, VX, asr #16
adds  VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
bl   5b
add    TMP2, mem_operand, TMP2, asl #2
vld1.32 {d&reg1&[0]}, [TMP1, :32]
vld1.32 {d&reg1&[1]}, [TMP2, :32]
else
.error "unsupported"
endif
endm

.macro pixld2_s elem_size, reg1, reg2, mem_operand
.if 0 /* elem_size == 32 */
mov    TMP1, VX, asr #16
add   VX, VX, UNIT_X, asl #1
add    TMP1, mem_operand, TMP1, asl #2
mov    TMP2, VX, asr #16
sub   VX, VX, UNIT_X
add    TMP2, mem_operand, TMP2, asl #2
vld1.32 {d&reg1&[0]}, [TMP1, :32]
mov    TMP1, VX, asr #16
add   VX, VX, UNIT_X, asl #1
add    TMP1, mem_operand, TMP1, asl #2
mov    TMP2, VX, asr #16
sub   VX, VX, UNIT_X
add    TMP2, mem_operand, TMP2, asl #2
vld1.32 {d&reg1&[0]}, [TMP1, :32]
mov    TMP1, VX, asr #16
add   VX, VX, UNIT_X, asl #1
add    TMP1, mem_operand, TMP1, asl #2
vld1.32 {d&reg2&[0]}, [TMP2, :32]
mov    TMP2, VX, asr #16
add   VX, VX, UNIT_X
.endm
add     TMP2, mem_operand, TMP2, asl #2
vld1.32 {d&reg1&[1]}, [TMP1, :32]
vld1.32 {d&reg2&[1]}, [TMP2, :32]
.else
  pixld1_s elem_size, reg1, mem_operand
  pixld1_s elem_size, reg2, mem_operand
.endif
.endm

.macro pixld0_s elem_size, reg1, idx, mem_operand
  .if elem_size == 16
    mov     TMP1, VX, asr #16
    adds    VX, VX, UNIT_X
  5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl     5b
    add     TMP1, mem_operand, TMP1, asl #1
    vld1.16 {d&reg1&[idx]}, [TMP1, :16]
  .elseif elem_size == 32
    mov     TMP1, VX, asr #16
    adds    VX, VX, UNIT_X
  5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl     5b
    add     TMP1, mem_operand, TMP1, asl #2
    vld1.32 {d&reg1&[idx]}, [TMP1, :32]
  .endif
.endm

.macro pixld_s_internal numbytes, elem_size, basereg, mem_operand
  .if numbytes == 32
    pixld2_s elem_size, %(basereg+4), %(basereg+5), mem_operand
  .elseif numbytes == 16
    pixld2_s elem_size, %(basereg+2), %(basereg+3), mem_operand
  .elseif numbytes == 8
    pixld1_s elem_size, %(basereg+1), mem_operand
  .elseif numbytes == 4
    .if elem_size == 32
      pixld0_s elem_size, %(basereg+0), 1, mem_operand
    .else elem_size == 16
      pixld0_s elem_size, %(basereg+0), 2, mem_operand
    .endif
    .elseif elem_size == 16
      pixld0_s elem_size, %(basereg+0), 3, mem_operand
  .else
    pixld0_s elem_size, %(basereg+0), 4, mem_operand
    pixld0_s elem_size, %(basereg+0), 5, mem_operand
    pixld0_s elem_size, %(basereg+0), 6, mem_operand
    pixld0_s elem_size, %(basereg+0), 7, mem_operand
  .endif
.endm
.elseif numbytes == 2
    .if elem_size == 16
        pixld0_s elem_size, %%(basereg+0), 1, mem_operand
    .else
        pixld0_s elem_size, %%(basereg+0), 2, mem_operand
        pixld0_s elem_size, %%(basereg+0), 3, mem_operand
    .endif
.elseif numbytes == 1
    pixld0_s elem_size, %%(basereg+0), 1, mem_operand
.else
    .error "unsupported size: numbytes"
.endif
.endm

.macro pixld_s numpix, bpp, basereg, mem_operand
    .if bpp > 0
        pixld_s_internal %numpix * bpp / 8, %%(bpp), basereg, mem_operand
    .endif
.endm

.macro vuzp8 reg1, reg2
    vuzp.8 d&reg1, d&reg2
.endm

.macro vzip8 reg1, reg2
    vzip.8 d&reg1, d&reg2
.endm

/* deinterleave B, G, R, A channels for eight 32bpp pixels in 4 registers */
.macro pixdeinterleave bpp, basereg
    .if (bpp == 32) && (DEINTERLEAVE_32BPP_ENABLED != 0)
        vuzp8 %%(basereg+0), %%(basereg+1)
        vuzp8 %%(basereg+2), %%(basereg+3)
        vuzp8 %%(basereg+1), %%(basereg+3)
        vuzp8 %%(basereg+0), %%(basereg+2)
    .endif
.endm

/* interleave B, G, R, A channels for eight 32bpp pixels in 4 registers */
.macro pixinterleave bpp, basereg
    .if (bpp == 32) && (DEINTERLEAVE_32BPP_ENABLED != 0)
        vzip8 %%(basereg+0), %%(basereg+2)
        vzip8 %%(basereg+1), %%(basereg+3)
        vzip8 %%(basereg+2), %%(basereg+3)
        vzip8 %%(basereg+0), %%(basereg+1)
    .endif
.endm
/*
* This is a macro for implementing cache preload. The main idea is that
* cache preload logic is mostly independent from the rest of pixels
* processing code. It starts at the top left pixel and moves forward
* across pixels and can jump across scanlines. Prefetch distance is
* handled in an 'incremental' way: it starts from 0 and advances to the
* optimal distance over time. After reaching optimal prefetch distance,
* it is kept constant. There are some checks which prevent prefetching
* unneeded pixel lines below the image (but it still can prefetch a bit
* more data on the right side of the image - not a big issue and may
* be actually helpful when rendering text glyphs). Additional trick is
* the use of LDR instruction for prefetch instead of PLD when moving to
* the next line, the point is that we have a high chance of getting TLB
* miss in this case, and PLD would be useless.
*
* This sounds like it may introduce a noticeable overhead (when working with
* fully cached data). But in reality, due to having a separate pipeline and
* instruction queue for NEON unit in ARM Cortex-A8, normal ARM code can
* execute simultaneously with NEON and be completely shadowed by it. Thus
* we get no performance overhead at all (*). This looks like a very nice
* feature of Cortex-A8, if used wisely. We don't have a hardware prefetcher,
* but still can implement some rather advanced prefetch logic in software
* for almost zero cost!
*
* (*) The overhead of the prefetcher is visible when running some trivial
* pixels processing like simple copy. Anyway, having prefetch is a must
* when working with the graphics data.
*/
.macro PF a, x:vararg
   .if (PREFETCH_TYPE_CURRENT == PREFETCH_TYPE_ADVANCED)
      a x
   .endif
.endm

.macro cache_preload std_increment, boost_increment
   .if (src_bpp_shift >= 0) || (dst_r_bpp != 0) || (mask_bpp_shift >= 0)
      .if regs_shortage
         PF ldr ORIG_W, [sp] /* If we are short on regs, ORIG_W is kept on stack */
      .endif
      .if std_increment != 0
         PF add PF_X, PF_X, #std_increment
      .endif
      PF tst PF_CTL, #0xF
      PF addne PF_X, PF_X, #boost_increment
      PF subne PF_CTL, PF_CTL, #1
      PF cmp PF_X, ORIG_W
      .if src_bpp_shift >= 0
         PF pld, [PF_SRC, PF_X, lsl #src_bpp_shift]
      .endif
   .endif
   .if std_increment != 0
      PF add PF_X, PF_X, #std_increment
   .endif
   PF tst PF_CTL, #0xF
   PF addne PF_X, PF_X, #boost_increment
   PF subne PF_CTL, PF_CTL, #1
   PF cmp PF_X, ORIG_W
   .if src_bpp_shift >= 0
      PF pld, [PF_SRC, PF_X, lsl #src_bpp_shift]
   .endif
*/
.endif
.if dst_r_bpp != 0
   PF pld, [PF_DST, PF_X, lsl #dst_bpp_shift]
.endif
.if mask_bpp_shift >= 0
   PF pld, [PF_MASK, PF_X, lsl #mask_bpp_shift]
.endif
   PF subge PF_X, PF_X, ORIG_W
   PF subges PF_CTL, PF_CTL, #0x10
.if src_bpp_shift >= 0
   PF ldrgeb DUMMY, [PF_SRC, SRC_STRIDE, lsl #src_bpp_shift]!
.endif
.if dst_r_bpp != 0
   PF ldrgeb DUMMY, [PF_DST, DST_STRIDE, lsl #dst_bpp_shift]!
.endif
.if mask_bpp_shift >= 0
   PF ldrgeb DUMMY, [PF_MASK, MASK_STRIDE, lsl #mask_bpp_shift]!
.endif
.endif
.endm

.macro cache_preload_simple
.if (PREFETCH_TYPE_CURRENT == PREFETCH_TYPE_SIMPLE)
.if src_bpp > 0
   pld [SRC, #(PREFETCH_DISTANCE_SIMPLE * src_bpp / 8)]
.endif
.if dst_r_bpp > 0
   pld [DST_R, #(PREFETCH_DISTANCE_SIMPLE * dst_r_bpp / 8)]
.endif
.if mask_bpp > 0
   pld [MASK, #(PREFETCH_DISTANCE_SIMPLE * mask_bpp / 8)]
.endif
.endm

.macro fetch_mask_pixblock
   pixld       pixblock_size, mask_bpp, \\        (mask_basereg - pixblock_size * mask_bpp / 64), MASK
.endm

/*
* Macro which is used to process leading pixels until destination
* pointer is properly aligned (at 16 bytes boundary). When destination
* buffer uses 16bpp format, this is unnecessary, or even pointless.
*/
.macro ensure_destination_ptr_alignment process_pixblock_head, \
   process_pixblock_tail, \n   process_pixblock_tail_head
.if dst_w_bpp != 24
  tst    DST_R, #0xF
  beq    2f
.irp lowbit, 1, 2, 4, 8, 16
local skip1
.if (dst_w_bpp <= (lowbit * 8)) && ((lowbit * 8) < (pixblock_size * dst_w_bpp))
.if lowbit < 16 /* we don't need more than 16-byte alignment */
  tst    DST_R, #lowbit
  beq    1f
.endif
.pixld_src (lowbit * 8 / dst_w_bpp), src_bpp, src_basereg, SRC
.pixld   (lowbit * 8 / dst_w_bpp), mask_bpp, mask_basereg, MASK
.if dst_r_bpp > 0
  pixld_a  (lowbit * 8 / dst_r_bpp), dst_r_bpp, dst_r_basereg, DST_R
.else
  add    DST_R, DST_R, #lowbit
.endif
.PF add PF_X, PF_X, #(lowbit * 8 / dst_w_bpp)
.sub    W, W, #(lowbit * 8 / dst_w_bpp)
1:
.endif
.endr
.pixdeinterleave src_bpp, src_basereg
.pixdeinterleave mask_bpp, mask_basereg
.pixdeinterleave dst_r_bpp, dst_r_basereg

process_pixblock_head
.cache_preload 0, pixblock_size
.cache_preload_simple
.process_pixblock_tail
.pixinterleave dst_w_bpp, dst_w_basereg
.irp lowbit, 1, 2, 4, 8, 16
.if (dst_w_bpp <= (lowbit * 8)) && ((lowbit * 8) < (pixblock_size * dst_w_bpp))
.if lowbit < 16 /* we don't need more than 16-byte alignment */
  tst    DST_W, #lowbit
  beq    1f
.endif
.pixst_a   (lowbit * 8 / dst_w_bpp), dst_w_bpp, dst_w_basereg, DST_W
1:
.endif
.endr
.endif
.endm

/*
* Special code for processing up to (pixblock_size - 1) remaining
* trailing pixels. As SIMD processing performs operation on
* pixblock_size pixels, anything smaller than this has to be loaded
* and stored in a special way. Loading and storing of pixel data is
* performed in such a way that we fill some 'slots' in the NEON
* registers (some slots naturally are unused), then perform compositing
* operation as usual. In the end, the data is taken from these 'slots'
* and saved to memory.
*
* cache_preload_flag - allows to suppress prefetch if
* set to 0
* dst_aligned_flag - selects whether destination buffer
* is aligned
*/
.macro process_trailing_pixels cache_preload_flag, 
  dst_aligned_flag, 
  process_pixblock_head, 
  process_pixblock_tail, 
  process_pixblock_tail_head
  tst W, #(pixblock_size - 1)
  beq 2f
.irp chunk_size, 16, 8, 4, 2, 1
.if pixblock_size > chunk_size
  tst W, #chunk_size
  beq 1f
  pixld_src chunk_size, src_bpp, src_basereg, SRC
  pixld chunk_size, mask_bpp, mask_basereg, MASK
  .if dst_aligned_flag != 0
    pixld_a chunk_size, dst_r_bpp, dst_r_basereg, DST_R
  .else
    pixld chunk_size, dst_r_bpp, dst_r_basereg, DST_R
  .endif
  .if cache_preload_flag != 0
    PF add PF_X, PF_X, #chunk_size
  .endif
  1:
  .endif
.endr
.pixdeinterleave src_bpp, src_basereg
.pixdeinterleave mask_bpp, mask_basereg
.pixdeinterleave dst_r_bpp, dst_r_basereg

  process_pixblock_head
.if cache_preload_flag != 0
  cache_preload 0, pixblock_size
  cache_preload_simple
  .endif
  process_pixblock_tail
pixinterleave dst_w_bpp, dst_w_basereg
.irp chunk_size, 16, 8, 4, 2, 1
.if pixblock_size > chunk_size
    tst W, #chunk_size
    beq 1f
.if dst_aligned_flag != 0
    pixst_a chunk_size, dst_w_bpp, dst_w_basereg, DST_W
.else
    pixst chunk_size, dst_w_bpp, dst_w_basereg, DST_W
.endif
1:
.endif
.endr
2:
.endm
/
* Macro, which performs all the needed operations to switch to the next
* scanline and start the next loop iteration unless all the scanlines
* are already processed.
*/
.macro advance_to_next_scanline start_of_loop_label
.if regs_shortage
    ldrd W, [sp] /* load W and H (width and height) from stack */
.else
    mov W, ORIG_W
.endif
.add DST_W, DST_W, DST_STRIDE, lsl #dst_bpp_shift
.if src_bpp != 0
    add SRC, SRC, SRC_STRIDE, lsl #src_bpp_shift
.endif
.if mask_bpp != 0
    add MASK, MASK, MASK_STRIDE, lsl #mask_bpp_shift
.endif
.if (dst_w_bpp != 24)
    sub DST_W, DST_W, W, lsl #dst_bpp_shift
.endif
.if (src_bpp != 24) && (src_bpp != 0)
    sub SRC, SRC, W, lsl #src_bpp_shift
.endif
.if (mask_bpp != 24) && (mask_bpp != 0)
    sub MASK, MASK, W, lsl #mask_bpp_shift
.endif
.subs H, H, #1
.mov DST_R, DST_W
.if regs_shortage
    str H, [sp, #4] /* save updated height to stack */
.endif
bge start_of_loop_label
.endm

/*
 * Registers are allocated in the following way by default:
 * d0, d1, d2, d3     - reserved for loading source pixel data
 * d4, d5, d6, d7     - reserved for loading destination pixel data
 * d24, d25, d26, d27 - reserved for loading mask pixel data
 * d28, d29, d30, d31 - final destination pixel data for writeback to memory
 */

.macro generate_composite_function fname, src_bpp_, mask_bpp_, dst_w_bpp_, flags, pixblock_size_, prefetch_distance, init, cleanup, process_pixblock_head, process_pixblock_tail, process_pixblock_tail_head, dst_w_basereg_ = 28, dst_r_basereg_ = 4, src_basereg_ = 0, mask_basereg_ = 24

.func fname
.global fname

/* For ELF format also set function visibility to hidden */
#ifdef __ELF__
.hidden fname
.type fname, %function
#endif
fname:
push {r4-r12, lr} /* save all registers */

/*
 * Select prefetch type for this function. If prefetch distance is
 * set to 0 or one of the color formats is 24bpp, SIMPLE prefetch
 * has to be used instead of ADVANCED.
 */
.set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_DEFAULT
.if prefetch_distance == 0
.set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_NONE
.elseif (PREFETCH_TYPE_CURRENT > PREFETCH_TYPE_SIMPLE) && 
    ((src_bpp_ == 24) || (mask_bpp_ == 24) || (dst_w_bpp_ == 24))
.set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_SIMPLE

endif

/*
 * Make some macro arguments globally visible and accessible
 * from other macros
 */
.set src_bpp, src_bpp_
.set mask_bpp, mask_bpp_
.set dst_w_bpp, dst_w_bpp_
.set pixblock_size, pixblock_size_
.set dst_w_basereg, dst_w_basereg_
.set dst_r_basereg, dst_r_basereg_
.set src_basereg, src_basereg_
.set mask_basereg, mask_basereg_

.macro pixld_src x:vararg
    pixld x
.endm

.macro fetch_src_pixblock
    pixld_src pixblock_size, src_bpp, \
         (src_basereg - pixblock_size * src_bpp / 64), SRC
.endm

/*
 * Assign symbolic names to registers
 */
W .req r0  /* width (is updated during processing) */
H .req r1  /* height (is updated during processing) */
DST_W .req r2  /* destination buffer pointer for writes */
DST_STRIDE .req r3  /* destination image stride */
SRC .req r4  /* source buffer pointer */
SRC_STRIDE .req r5  /* source image stride */
DST_R .req r6  /* destination buffer pointer for reads */
MASK .req r7  /* mask pointer */
MASK_STRIDE .req r8  /* mask stride */
PF_CTL .req r9  /* combined lines counter and prefetch */
   /* distance increment counter */
PF_X .req r10  /* pixel index in a scanline for current */
   /* pretetch position */
PF_SRC .req r11  /* pointer to source scanline start */
   /* for prefetch purposes */
PF_DST .req r12  /* pointer to destination scanline start */
   /* for prefetch purposes */
PF_MASK .req r14  /* pointer to mask scanline start */
   /* for prefetch purposes */

/*
 * Check whether we have enough registers for all the local variables.

* If we don't have enough registers, original width and height are
* kept on top of stack (and 'regs_shortage' variable is set to indicate
* this for the rest of code). Even if there are enough registers, the
* allocation scheme may be a bit different depending on whether source
* or mask is not used.
*/
.if (PREFETCH_TYPE_CURRENT < PREFETCH_TYPE_ADVANCED)
  ORIG_W .req r10  /* saved original width */
  DUMMY .req r12  /* temporary register */
  .set regs_shortage, 0
.elseif mask_bpp == 0
  ORIG_W .req r7   /* saved original width */
  DUMMY .req r8    /* temporary register */
  .set regs_shortage, 0
.elseif src_bpp == 0
  ORIG_W .req r4   /* saved original width */
  DUMMY .req r5    /* temporary register */
  .set regs_shortage, 0
.else
  ORIG_W .req r1   /* saved original width */
  DUMMY .req r1    /* temporary register */
  .set regs_shortage, 1
.endif

  .set mask_bpp_shift, -1
.if src_bpp == 32
  .set src_bpp_shift, 2
.elseif src_bpp == 24
  .set src_bpp_shift, 0
.elseif src_bpp == 16
  .set src_bpp_shift, 1
.elseif src_bpp == 8
  .set src_bpp_shift, 0
.elseif src_bpp == 0
  .set src_bpp_shift, -1
.else
  .error "requested src bpp (src_bpp) is not supported"
.endif
.if mask_bpp == 32
  .set mask_bpp_shift, 2
.elseif mask_bpp == 24
  .set mask_bpp_shift, 0
.elseif mask_bpp == 8
  .set mask_bpp_shift, 0
.elseif mask_bpp == 0
  .set mask_bpp_shift, -1
.else
  .error "requested mask bpp (mask_bpp) is not supported"
.endif
.if dst_w_bpp == 32
.set dst_bpp_shift, 2
.elseif dst_w_bpp == 24
.set dst_bpp_shift, 0
.elseif dst_w_bpp == 16
.set dst_bpp_shift, 1
.elseif dst_w_bpp == 8
.set dst_bpp_shift, 0
.else
.error "requested dst bpp (dst_w_bpp) is not supported"
.endif
.if (((flags) & FLAG_DST_READWRITE) != 0)
.set dst_r_bpp, dst_w_bpp
.else
.set dst_r_bpp, 0
.endif
.if (((flags) & FLAG_DEINTERLEAVE_32BPP) != 0)
.set DEINTERLEAVE_32BPP_ENABLED, 1
.else
.set DEINTERLEAVE_32BPP_ENABLED, 0
.endif
.if prefetch_distance < 0 || prefetch_distance > 15
.error "invalid prefetch distance (prefetch_distance)"
.endif
.if src_bpp > 0
.ldr SRC, [sp, #40]
.endif
.if mask_bpp > 0
.ldr MASK, [sp, #48]
.endif
.PF mov PF_X, #0
.if src_bpp > 0
.ldr SRC_STRIDE, [sp, #44]
.endif
.if mask_bpp > 0
.ldr MASK_STRIDE, [sp, #52]
.endif
.mov DST_R, DST_W
.if src_bpp == 24
.sub SRC_STRIDE, SRC_STRIDE, W
.sub SRC_STRIDE, SRC_STRIDE, W, lsl #1
.endif
.if mask_bpp == 24


sub        MASK_STRIDE, MASK_STRIDE, W
sub        MASK_STRIDE, MASK_STRIDE, W, lsl #1
.endif
.if dst_w_bpp == 24
sub        DST_STRIDE, DST_STRIDE, W
sub        DST_STRIDE, DST_STRIDE, W, lsl #1
.endif

/*
* Setup advanced prefetcher initial state
*/
PF mov      PF_SRC, SRC
PF mov      PF_DST, DST_R
PF mov      PF_MASK, MASK
/* PF_CTL = prefetch_distance | ((h - 1) << 4) */
PF mov      PF_CTL, H, lsl #4
PF add      PF_CTL, #(prefetch_distance - 0x10)

init
.if regs_shortage
push        {r0, r1}
.endif
subs        H, H, #1
.if regs_shortage
str         H, [sp, #4] /* save updated height to stack */
.else
mov         ORIG_W, W
.endif
blt         9f
cmp         W, #(pixblock_size * 2)
blt         8f
/*
* This is the start of the pipelined loop, which if optimized for
* long scanlines
*/
0:
ensure_destination_ptr_alignment process_pixblock_head, 
process_pixblock_tail, 
process_pixblock_tail_head

/* Implement "head (tail_head) ... (tail_head) tail" loop pattern */
pixld_a     pixblock_size, dst_r_bpp, 
            (dst_r_basereg - pixblock_size * dst_r_bpp / 64), DST_R
fetch_src_pixblock
pixld       pixblock_size, mask_bpp, 
            (mask_basereg - pixblock_size * mask_bpp / 64), MASK
PF add      PF_X, PF_X, #pixblock_size
process_pixblock_head
cache_preload 0, pixblock_size
cache_preload_simple
subs   W, W, #(pixblock_size * 2)
blt    2f
1:
process_pixblock_tail_head
cache_preload_simple
subs   W, W, #pixblock_size
bge    1b
2:
process_pixblock_tail
pixst_a pixblock_size, dst_w_bpp, \n        (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W

/* Process the remaining trailing pixels in the scanline */
process_trailing_pixels 1, 1, \n    process_pixblock_head, \n    process_pixblock_tail, \n    process_pixblock_tail_head
advance_to_next_scanline 0b

.if regs_shortage
    pop   {r0, r1}
.endif
.cleanup
    pop   {r4-r12, pc} /* exit */
/*
* This is the start of the loop, designed to process images with small width
* (less than pixblock_size * 2 pixels). In this case neither pipelining
* nor prefetch are used.
*/
8:
/* Process exactly pixblock_size pixels if needed */
tst    W, #pixblock_size
beq    1f
pixld  pixblock_size, dst_r_bpp, \n        (dst_r_basereg - pixblock_size * dst_r_bpp / 64), DST_R
fetch_src_pixblock
pixld  pixblock_size, mask_bpp, \n        (mask_basereg - pixblock_size * mask_bpp / 64), MASK
process_pixblock_head
process_pixblock_tail
pixst  pixblock_size, dst_w_bpp, \n        (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W
1:
/* Process the remaining trailing pixels in the scanline */
process_trailing_pixels 0, 0, \n    process_pixblock_head, \n
process_pixblock_tail, \process_pixblock_tail_head

advance_to_next_scanline 8b

if regs_shortage
    pop   {r0, r1}
.endif

cleanup
    pop   {r4-r12, pc}  /* exit */

.purgem     fetch_src_pixblock
.purgem     pixld_src

.unreq      SRC
.unreq      MASK
.unreq      DST_R
.unreq      DST_W
.unreq      ORIG_W
.unreq      W
.unreq      H
.unreq      SRC_STRIDE
.unreq      DST_STRIDE
.unreq      MASK_STRIDE
.unreq      PF_CTL
.unreq      PF_X
.unreq      PF_SRC
.unreq      PF_DST
.unreq      PF_MASK
.unreq      DUMMY
.endfunc
.endm

/
* A simplified variant of function generation template for a single
* scanline processing (for implementing pixman combine functions)
*/
.macro generate_composite_function_scanline        use_nearest_scaling, \
    fname, \
    src_bpp_, \
    mask_bpp_, \
    dst_w_bpp_, \
    flags, \
    pixblock_size_, \
    init, \
    cleanup, \
    process_pixblock_head, \
    process_pixblock_tail, \
    process_pixblock_tail_head, \

dst_w_basereg_ = 28, \
dst_r_basereg_ = 4, \
src_basereg_   = 0, \
mask_basereg_  = 24

 func fname
 .func fname
 .global fname
 / * For ELF format also set function visibility to hidden */
 #ifdef __ELF__
 .hidden fname
 .type fname, %function
 #endif
 fname:
 .set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_NONE
 /*
 * Make some macro arguments globally visible and accessible
 * from other macros
 */
 .set src_bpp, src_bpp_
 .set mask_bpp, mask_bpp_
 .set dst_w_bpp, dst_w_bpp_
 .set pixblock_size, pixblock_size_
 .set dst_w_basereg, dst_w_basereg_
 .set dst_r_basereg, dst_r_basereg_
 .set src_basereg, src_basereg_
 .set mask_basereg, mask_basereg_

 .if use_nearest_scaling != 0
 /*
 * Assign symbolic names to registers for nearest scaling
 */
 W .req r0
 DST_W .req r1
 SRC .req r2
 VX .req r3
 UNIT_X .req ip
 MASK .req lr
 TMP1 .req r4
 TMP2 .req r5
 DST_R .req r6
 SRC_WIDTH_FIXED .req r7

 .macro pixld_src x:vararg
 pixld_s x
 .endm

 ldr UNIT_X, [sp]
push {r4-r8, lr}
ldr SRC_WIDTH_FIXED, [sp, #(24 + 4)]
.if mask_bpp != 0
ldr MASK, [sp, #(24 + 8)]
.endif
.else
/*
* Assign symbolic names to registers
*/
W .req r0 /* width (is updated during processing) */
DST_W .req r1 /* destination buffer pointer for writes */
SRC .req r2 /* source buffer pointer */
DST_R .req ip /* destination buffer pointer for reads */
MASK .req r3 /* mask pointer */

.macro pixld_src x:vararg
pixld x
.endm
.endif

.if (((flags) & FLAG_DST_READWRITE) != 0)
.set dst_r_bpp, dst_w_bpp
.else
.set dst_r_bpp, 0
.endif
.if (((flags) & FLAG_DEINTERLEAVE_32BPP) != 0)
.set DEINTERLEAVE_32BPP_ENABLED, 1
.else
.set DEINTERLEAVE_32BPP_ENABLED, 0
.endif

.macro fetch_src_pixblock
pixld_src pixblock_size, src_bpp, 
(src_basereg - pixblock_size * src_bpp / 64), SRC
.endm

.init
mov DST_R, DST_W

cmp W, #pixblock_size
blt 8f

.ensure_destination_ptr_alignment process_pixblock_head, 
process_pixblock_tail, 
process_pixblock_tail_head

subs W, W, #pixblock_size
blt 7f
/* Implement "head (tail_head) ... (tail_head) tail" loop pattern */

pixld_a     pixblock_size, dst_r_bpp, 
           (dst_r_basereg - pixblock_size * dst_r_bpp / 64), DST_R

fetch_src_pixblock
pixld       pixblock_size, mask_bpp, 
           (mask_basereg - pixblock_size * mask_bpp / 64), MASK

process_pixblock_head

subs        W, W, #pixblock_size
blt         2f

1:

process_pixblock_tail_head

subs        W, W, #pixblock_size
bge         1b

2:

process_pixblock_tail

pixst_a     pixblock_size, dst_w_bpp, 
           (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W

7:

/* Process the remaining trailing pixels in the scanline (dst aligned) */

process_trailing_pixels 0, 1, 
                          process_pixblock_head, 
                          process_pixblock_tail, 
                          process_pixblock_tail_head

cleanup

.if use_nearest_scaling != 0
    pop         {r4-r8, pc}  /* exit */
.else
    bx          lr  /* exit */
.endif

8:

/* Process the remaining trailing pixels in the scanline (dst unaligned) */

process_trailing_pixels 0, 0, 
                          process_pixblock_head, 
                          process_pixblock_tail, 
                          process_pixblock_tail_head

cleanup

.if use_nearest_scaling != 0
    pop         {r4-r8, pc}  /* exit */

.unreq      DST_R
.unreq      SRC
.unreq      W
.unreq      VX
.unreq      UNIT_X
.unreq      TMP1
.unreq   TMP2
.unreq   DST_W
.unreq   MASK
.unreq   SRC_WIDTH_FIXED

.else
    bx        lr  /* exit */

.unreq   SRC
.unreq   MASK
.unreq   DST_R
.unreq   DST_W
.unreq   W
.endif

.purgem   fetch_src_pixblock
.purgem   pixld_src

.endfunc
.endm

.macro generate_composite_function_single_scanline x:vararg
    generate_composite_function_scanline 0, x
.endm

.macro generate_composite_function_nearest_scanline x:vararg
    generate_composite_function_scanline 1, x
.endm

/*/ Default prologue/epilogue, nothing special needs to be done */

.macro default_init
.endm

.macro default_cleanup
.endm

/*/ 
* Prologue/epilogue variant which additionally saves/restores d8-d15 
* registers (they need to be saved/restored by callee according to ABI). 
* This is required if the code needs to use all the NEON registers. 
*/

.macro default_init_need_all_regs
    vpush       {d8-d15}
.endm

.macro default_cleanup_need_all_regs
vpop {d8-d15}
.endm

/******************************************************************************/
/*
* Conversion of 8 r5g6b6 pixels packed in 128-bit register (in)
* into a planar a8r8g8b8 format (with a, r, g, b color components
* stored into 64-bit registers out_a, out_r, out_g, out_b respectively).
*
* Warning: the conversion is destructive and the original
*          value (in) is lost.
*/
.mc macro convert_0565_to_8888 in, out_a, out_r, out_g, out_b
      vshrn.u16  out_r, in,    #8
      vshrn.u16  out_g, in,    #3
      vsli.u16   in,    in,    #5
      vmov.u8    out_a, #255
      vsri.u8    out_r, out_r, #5
      vsri.u8    out_g, out_g, #6
      vshrn.u16  out_b, in,    #2
.endm
.mc macro convert_0565_to_x888 in, out_r, out_g, out_b
      vshrn.u16  out_r, in,    #8
      vshrn.u16  out_g, in,    #3
      vsli.u16   in,    in,    #5
      vsri.u8    out_r, out_r, #5
      vsri.u8    out_g, out_g, #6
      vshrn.u16  out_b, in,    #2
.endm

/*
* Conversion from planar a8r8g8b8 format (with a, r, g, b color components
* in 64-bit registers in_a, in_r, in_g, in_b respectively) into 8 r5g6b6
* pixels packed in 128-bit register (out). Requires two temporary 128-bit
* registers (tmp1, tmp2)
*/
.mc macro convert_8888_to_0565 in_r, in_g, in_b, out, tmp1, tmp2
      vshl.u8    tmp1, in_g, #8
      vshll.u8   out, in_r, #8
      vshll.u8   tmp2, in_b, #8
      vsri.u16   out, tmp1, #5
      vsri.u16   out, tmp2, #11
.endm

/*
* Conversion of four r5g6b5 pixels (in) to four x8r8g8b8 pixels
* returned in (out0, out1) registers pair. Requires one temporary
* 64-bit register (tmp). 'out1' and 'in' may overlap, the original
* value from 'in' is lost
*/

.macro convert_four_0565_to_x888_packed in, out0, out1, tmp
  vshl.u16  out0, in,   #5  /* G top 6 bits */
  vshl.u16  tmp,  in,   #11 /* B top 5 bits */
  vsri.u16  in,   in,   #5  /* R is ready in top bits */
  vsri.u16  out0, out0, #6  /* G is ready in top bits */
  vsri.u16  tmp,  tmp,  #5  /* B is ready in top bits */
  vshr.u16  out1, in,   #8  /* R is in place */
  vsri.u16  out0, tmp,  #8  /* G & B is in place */
  vzip.u16  out0, out1      /* everything is in place */
.endm

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1.203 python 2.7.9 :r1.4
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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1.204 python-jsonschema 2.5.1 :r0

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1.206 python-pam 0.1.4 :r0
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from setuptools import setup, find_packages
import sys, os

version = '0.1.4'

setup(name='pam',
    version=version,
    description="PAM interface using ctypes",
    long_description="")
An interface to the Pluggable Authentication Modules (PAM) library on Linux, written in pure Python (using ctypes)

classifiers=["Development Status :: 3 - Alpha",
             "Intended Audience :: Developers",
             "License :: OSI Approved :: MIT License",
             "Operating System :: POSIX :: Linux",
             "Operating System :: MacOS :: MacOS X",
             "Programming Language :: Python",
             "Topic :: Software Development :: Libraries :: Python Modules",
             "Topic :: System :: Systems Administration :: Authentication/Directory"
            ],
keywords="",
author='Chris AtLee',
author_email='chris@atlee.ca',
url='http://atlee.ca/software/pam',
download_url = "http://atlee.ca/software/pam/dist/%s" % version,
license='MIT',
py_modules=["pam"],
zip_safe=True,
install_requires=[],
entry_points=""
# -*- Entry points: -*-
"

1.207 python-psutil 2.2.1 :r0

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1.208 python-pyudev 0.16.1 :r0

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That's all there is to it!

1.209 python-pyyaml 3.11 :r0
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1.211 qemu 0.13.0

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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();
+     }
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.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops2.c20 Mar 2008 15:48:34 -0000	1.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x
", 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.RxECX = x86emu_bswap(M.x86.RxECX);
+    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();
}
//@ -1702.14 +1763.14 //@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc8 */ x86emuOp2_bswap,
/* 0xc9 */ x86emuOp2_bswap,
/* 0xca */ x86emuOp2_bswap,
/* 0xcb */ x86emuOp2_bswap,
/* 0xcc */ x86emuOp2_bswap,
/* 0xcd */ x86emuOp2_bswap,
/* 0xce */ x86emuOp2_bswap,
/* 0xcf */ x86emuOp2_bswap,
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
 imm = (s8)fetch_byte_imm();
 DECODE_PRINTF2("PUSH\t%d\n", imm);
 TRACE_AND_STEP();
- push_word(imm);
+ if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ push_long(imm);
+ } else {
+ push_word(imm);
+ }
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
 target = (u16)(M.x86.R_IP + (s16)offset);
 DECODE_PRINTF2("%x\n", target);
 TRACE_AND_STEP();
- if (cond)
+ if (cond) {
 M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
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--) {
    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();

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--) {
    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;
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
    }
} else {
    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) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word((u16)val1, (u16)val2);
                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);
                    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;
            }
        }
    } else {
    }
}
M.x86.R_D1 += 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) {
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -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;
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) {
        M.x86.R_CX -= 1;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

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;
} 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;
    } else {
        count = 1;
    }
}
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();
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.intr & INTR_HALTED)
                break;
        }
        M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            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) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            if (M.x86.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 {
    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_CX : 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);
+        } else {
+            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;
+        }
+        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
+    }
+}
+/* REPNE */
+/* move them until CX is ZERO. */
+while (M.x86.R_CX != 0) {
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_CX -= 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;
+}
+M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
+}
+/* move them until (E)CX is ZERO. */
+while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_CX : 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);
+    } else {
+        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 {
+    DECODE_PRINTF("RET\n");
+    
+    ""
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\n");
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("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
- 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)/* (E)CX != 0 */
    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 &&
+ ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x;", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,12 +4433,14 @@
    DECODE_PRINTF("REPN\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 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
    #ifdef  __HAS_LONG_LONG__
-        s64 res = (s64)d * (s64)s;
+        s64 res = (s64)(s32)d * (s64)(s32)s;

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

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

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

if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000
+++ sys.c 7 Sep 2007 10:03:13 -0000
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
ifdef LINUXBIOS_VERSION
#include "io.h"
#else
#include <sys/io.h>
@endif
#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
  DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);
  -return inb(addr);
  +return 0;
  }

/****************************************************************************
@@ -235,7 +230,7 @@
{
  DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);
  -return inw(addr);
  +return 0;
  }

/****************************************************************************
@@ -250,7 +245,7 @@
{
  DB(if (DEBUG_IO_TRACE())
  printk("inl %#04x \n", addr);
  -return inl(addr);
  +return 0;
  }

/****************************************************************************
@@ -264,7 +259,6 @@
{
  DB(if (DEBUG_IO_TRACE())
  printk("outb %#02x -> %#04x \n", val, addr);
  -outb(val, addr);
  return;
  }

@@ -279,7 +273,6 @@
{
  DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);
  -outw(val, addr);
  return;
  }

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x -> %#04x \n", val, addr);)
-outl(val, addr);
return;
}

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
-M.mem_base = (int) base;
+M.mem_base = (unsigned long) base;
M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
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
/*---------------------- 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())    \ 
-# define RETURN_TRACE(n,u,v)    \ 
+v # define RETURN_TRACE(u,v,w,x,s)    \ 
 if (DEBUG_TRACECALLJMPREGS())  
 +  x86emu_dump_regs();    \ 
 +  if (DEBUG_TRACEJMP())  
 +    printk("%04x:%04x: %s\n", u, v, n);  
+v # define  JMP_TRACE(u,v,w,x,s)    \ 
+    if (DEBUG_TRACEJMPREGS())      \ 
+      x86emu_dump_regs();      \ 
+      if (DEBUG_TRACEJMP())      \ 
+        printk("%04x:%04x: JMP %s %04x:%04x\n", u, v, s, w, x); 
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
v+ # define RETURN_TRACE(u,v,w,x,s)
v+ # define  JMP_TRACE(u,v,w,x,s)
#endif

#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 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
 #define SYSMODE_PREFIX_REPNE 0x00000100
 #define SYSMODE_PREFIX_DATA 0x00000200
 #define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
 SYSMODE_SEGOVR_GS     | \
 SYSMODE_SEGOVR_SS     | \
 SYSMODE_PREFIX_DATA   | \
-# define SYSMODEPREFIXADDR 0x00000400
+# define SYSMODEPREFIXADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+#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   | \
-# define SYSMODEPREFIXADDR 0x00000400
+# define SYSMODEPREFIXADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTR_ASYNC 0x2
/*
 * u32 mode;
  volatile int intr; /* mask of pending interrupts */
- int debug;
+ volatile int debug;
#endif DEBUG

-old int check;
+ int check;
 u16 saved_ip;
 u16 saved_cs;
 int enc_pos;

Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACEJMP_REGS_F 0x020000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -191,9 +183,7 @@
#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

# ifdef __cplusplus
} /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */

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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_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%#x,%d)", NULL, NULL },
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This package was put together by Matthias Klose <doko@debian.org>.

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

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

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
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- Jon Sturgeon, bug hunter extraordinaire.

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- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

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

If I've missed anyone, it's due to oversight. Drop me a line and I'll rectify the situation as quickly as possible.

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recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

Test 1.1:101

Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
e1_l1_7
e1_l1_8
e1_l1_8
e1_l1_9
e1_l1_9
e1_l1_10
e1_l1_10
e1_l1_11
e1_l1_11
e1_l1_12
e1_l1_12
e1_l1_13
e1_l1_13
e1_l1_14
e1_l1_14
Test 1.2:102

e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
e1_l1_11
e1_l1_12
e1_l1_13
e1_l1_14

Test 1.3:103

e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
e1_l1_7
e1_l1_8
e1_l1_8
e1_l1_9
e1_l1_9
e1_l1_10
e1_l1_10
e1_l1_11
e1_l1_11
e1_l1_12
e1_l1_12
e1_l1_13
e1_l1_13
Test 1.4:104

Second type

Test 1.4.1:105

Test 1.5:106
Test 1.7:108

Test 1.8:109
Test 1.9:110

Test 1.10:111
Test 1.11:112

Test 1.12:113
Test 1.13:114

Test 1.14:115
Test 1.15:116

--------------
e1_l1_1
e1_l1_12
e1_l1_13
e1_l1_13
e1_l1_14
e1_l1_14

==============
Test 1.17:118
==============
1l_1
1l_1
1l_2
1l_2
1l_3
1l_3
1l_4
1l_4
1l_5
1l_5
1l_6
1l_6
1l_7
1l_7
1l_8
1l_8
1l_9
1l_9
1l_10
1l_10
1l_11
1l_11
1l_12
1l_12
1l_13
1l_13
1l_14
1l_14

==============
Test 1.18:119
==============
1l_1
1l_2
1l_3
1l_4
1l_5
1l_6
1l_7
Testing address ranges

=====
Test 2.1:120

11_4

=====
Test 2.2:121

12_6

=====
Test 2.3:122

11_14

=====
Test 2.4:123

12_9

=====
Test 2.5:124

=====
Test 2.6:125

12_9

=====
Test 2.7:126

=====
Test 2.9:127

11_7
Test 2.10:128
---------------
l_1_7
---------------
Test 2.11:129
---------------
l_1_7
---------------
Test 2.12:130
---------------
l_1_1
l_1_2
l_1_3
l_1_4
---------------
Test 2.13:131
---------------
l_1_1
l_1_2
l_1_3
l_1_4
l_1_5
l_1_6
l_1_7
l_1_8
l_1_9
l_1_10
l_1_11
l_1_12
l_1_13
l_1_14
l_2_1
l_2_2
l_2_3
l_2_4
l_2_5
l_2_6
l_2_7
l_2_8
l_2_9
---------------
Test 2.14:132
---------------
l_1_1
Open Source Used In IOS Release 15.9.3M

Test 2.16:134

11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6

Test 2.17:135

11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

Test 2.18:136

12_3
12_4
12_5
12_6
-------------------
Test 2.19:137
-------------------
11_12

-------------------
Test 2.20:138
-------------------
11_7
Brace and other grouping

-------------------
Test 3.1:139
-------------------
11_1
11_2
11_3
^11T4$
^11T5$
^11T6$
^11T7$
^11T8$
^11T9$
^11T10$
^11T11$
^11T12$
11_13
11_14

-------------------
Test 3.2:140
-------------------
11_1
11_2
11_3
^11_4
^11_5
^11_6$
^11_7$
^11T8$
^11_9$
^11_10$
^11_11
^11_12
Test 3.3:141

Test 3.4:142

Testing a c d and i commands

Test 4.1:143

before_i
after_i
after_ibefore_il1_3
before_il1_4
after_ibefore_il1_4
before_il1_5
after_ibefore_il1_5
before_il1_6
after_ibefore_il1_6
before_il1_7
after_ibefore_il1_7
before_il1_8
after_ibefore_il1_8
before_il1_9
after_ibefore_il1_9
before_il1_10
after_ibefore_il1_10
before_il1_11
after_ibefore_il1_11
before_il1_12
after_ibefore_il1_12
before_il1_13
after_ibefore_il1_13
before_il1_14
after_ibefore_il1_14
before_il2_1
after_ibefore_il2_1
before_il2_2
after_ibefore_il2_2
before_il2_3
after_ibefore_il2_3
before_il2_4
after_ibefore_il2_4
before_il2_5
after_ibefore_il2_5
before_il2_6
inserted
after_ibefore_il2_6
before_il2_7
after_ibefore_il2_7
before_il2_8
after_ibefore_il2_8
before_il2_9
after_ibefore_il2_9

============
Test 4.2:144
============
before_al1_1
after_abefore_al1_1
before_al1_2
after_abefore_al1_2
before_al1_3
after_abefore_al1_3
before_al1_4
after_abefore_al1_4
before_a5-1211_5
after_abefore_a5-1211_5
appended
before_a5-1211_6
after_abefore_a5-1211_6
appended
before_a5-1211_7
after_abefore_a5-1211_7
appended
before_a5-1211_8
after_abefore_a5-1211_8
appended
before_a5-1211_9
after_abefore_a5-1211_9
appended
before_a5-1211_10
after_abefore_a5-1211_10
appended
before_a5-1211_11
after_abefore_a5-1211_11
appended
before_a5-1211_12
after_abforeca5-1211_12
appended
before_al1_13
after_abefore_al1_13
before_al1_14
after_abefore_al1_14
before_al2_1
after_abefore_al2_1
before_al2_2
after_abefore_al2_2
before_al2_3
after_abefore_al2_3
before_al2_4
after_abefore_al2_4
before_al2_5
after_abefore_al2_5
before_al2_6
after_abefore_al2_6
before_al2_7
after_abefore_al2_7
before_al2_8
after_abefore_al2_8
before_al2_9
after_abefore_al2_9

==============
Test 4.3:145
==============
^l1_1
^l1_1$
applied
^l1_2
^l1_2$
applied
^l1_3
^l1_3$
applied
^l1_4
^l1_4$
applied
^l1_5
^l1_5$
applied
^l1_6
^l1_6$
applied
^l1_7
^l1_7$
applied
^l1_8
^l1_8
1_9$
applied
^l1_10
^l1_10
1_10$
applied
^l1_11
^l1_12
^l1_12$
applied
^l1_13
^l1_13$
applied
^l1_14
^l1_14$
applied
^l2_1
^l2_1$
Test 4.4:146

hello
hello
hello
hello
hello
hello
hello
hello
hello
hello

Test 4.5:147

hello

Test 4.6:148

hello

Test 4.7:149

hello
hello

Test 4.8:150

Testing labels and branching

Test 5.1:151

label2_l1_1
label3_label2_l1_1
label1_l1_2
label1_l1_3
label1_l1_4
label1_l1_5
label1_l1_6
label1_l1_7
label1_l1_8
label1_l1_9
label1_l1_10
label1_l1_11
label1_l1_12
label2_l1_13
label3_label2_l1_13
label2_l1_14
label3_label2_l1_14

Test 5.2:152

tested l2_1
tested l2_2
tested l2_3
tested l2_4
tested l2_5
tested l2_6
tested l2_7
tested l2_8
tested l2_9
tested l2_10
tested l2_11
tested l2_12
tested l2_13
tested l2_14

Test 5.3:153
<table>
<thead>
<tr>
<th>Test 5.4:154</th>
</tr>
</thead>
<tbody>
<tr>
<td>^\text{l1}_1</td>
</tr>
<tr>
<td>^\text{l1}_2</td>
</tr>
<tr>
<td>^\text{l1}_3</td>
</tr>
<tr>
<td>^\text{l1}_4</td>
</tr>
<tr>
<td>^\text{l1}_5</td>
</tr>
<tr>
<td>^\text{l1}_6</td>
</tr>
<tr>
<td>^\text{l1}_7</td>
</tr>
<tr>
<td>^\text{l1}_8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test 5.5:155</th>
</tr>
</thead>
<tbody>
<tr>
<td>^\text{l1}_1</td>
</tr>
<tr>
<td>^\text{l1}_2</td>
</tr>
<tr>
<td>^\text{l1}_3</td>
</tr>
<tr>
<td>^\text{l1}_4</td>
</tr>
<tr>
<td>^\text{l1}_5</td>
</tr>
<tr>
<td>^\text{l1}_6</td>
</tr>
<tr>
<td>^\text{l1}_7</td>
</tr>
<tr>
<td>^\text{l1}_8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test 5.6:156</th>
</tr>
</thead>
<tbody>
<tr>
<td>^\text{l1}_1</td>
</tr>
<tr>
<td>^\text{l1}_2</td>
</tr>
<tr>
<td>^\text{l1}_3</td>
</tr>
<tr>
<td>^\text{l1}_4</td>
</tr>
</tbody>
</table>
Test 5.7:157

Test 5.8:158

Pattern space commands

Test 6.1:159

changed
collapsed
Test 6.2:160

------------
11_1
11_2
11_3
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

------------
Test 6.3:161

------------
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

------------
Test 6.4:162

------------
11_1
11_2
11_3
11_2
11_3
11_5
11_2
11_3
11_2
11_3
11_6
11_6
11_7
Test 6.5:163

Test 6.6:164

Testing print and file routines

Test 7.1:165

$\ backslash 001\backslash 002\backslash 003\backslash 004\backslash 005\backslash 006\backslash 007\backslash 008\backslash 009\backslash 010\backslash 011\backslash 012\backslash 013\backslash 014\backslash 015\backslash 016\backslash 017\backslash 018\backslash 019\backslash 020\backslash 021\backslash 022\backslash 023\backslash 024\backslash 025\backslash 026\backslash 027\backslash 028\backslash 029\backslash 030\backslash 031\backslash 032\backslash 033\backslash 034\backslash 035\backslash 036\backslash 037\1\2\3\4\5\6\7\8\9\A\B\C\D\E\F\G\H\I\J\K\L\M\N\O\P\Q\R\S\T\U\V\W\X\Y\Z\[\]\^\_\`\abcdefghijklmnopqrstuvwxyz\{|}\}\~\!\#$\%\&\'\(\)\*\+\-\./\0\1\2\3\4\5\6\7\8\9\:\;\<\=\?@ABCDEFGHIJKLMNOPQRSTUVWXYZ\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backslash\backlash\backlash
Test 7.2:166

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
15
12_1
16
12_2
17
12_3
18
12_4
19
12_5
20
12_6
21
12_7
22
12_8
23
12_9

Test 7.3:167

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

w results
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12

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

Test 7.4:168

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

11_1
11_2
11_3
11_4
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

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

Test 7.5:169

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

11_1
Test 7.6:170
Test 7.8:171

Testing substitution commands

Test 8.1:172
Test 8.2:173

Test 8.3:174

Test 8.4:175

11_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

==============
Test 8.5:176
==============
l1X1
l1X2
l1X3
l1X4
l1X5
l1X6
l1X7
l1X8
l1X9
l1X10
l1X11
l1X12
l1X13
l1X14

==============
Test 8.6:177
==============
(0)(1)(0)(1)
(0)(1)(0)(2)
(0)(1)(0)(3)
(0)(1)(0)(4)
(0)(1)(0)(5)
(0)(1)(0)(6)
(0)(1)(0)(7)
(0)(1)(0)(8)
(0)(1)(0)(9)
(0)(1)(0)(10)
(0)(1)(0)(11)
(0)(1)(0)(12)
(0)(1)(0)(13)
Test 8.7:178

Test 8.8:179

Test 8.9:180
11_X0
11_X1
11_X2
11_X3
11_X4

============= Test 8.11:182 =============
1X_1
1X_2
1X_3
1X_4
1X_5
1X_6
1X_7
1X_8
1X_9
1X_10
1X_11
1X_12
1X_13
1X_14
s wfile results
1X_1
1X_2
1X_3
1X_4
1X_5
1X_6
1X_7
1X_8
1X_9
1X_10
1X_11
1X_12
1X_13
1X_14

============= Test 8.12:183 =============
1X_X
1X_X
1X_X
1X_4
1X_5
1X_6
1X_7
1X_8
1X_9
1X_10
1X_11
1X_12
1X_13
1X_14
<table>
<thead>
<tr>
<th>IX_7</th>
</tr>
</thead>
<tbody>
<tr>
<td>IX_8</td>
</tr>
<tr>
<td>IX_9</td>
</tr>
<tr>
<td>IX_X0</td>
</tr>
<tr>
<td>IX_XX</td>
</tr>
<tr>
<td>IX_XX</td>
</tr>
<tr>
<td>IX_XX</td>
</tr>
<tr>
<td>IX_X4</td>
</tr>
</tbody>
</table>

=============
Test 8.13:184
=============

<table>
<thead>
<tr>
<th>18_8</th>
</tr>
</thead>
<tbody>
<tr>
<td>18_7</td>
</tr>
<tr>
<td>18_6</td>
</tr>
<tr>
<td>18_5</td>
</tr>
<tr>
<td>18_4</td>
</tr>
<tr>
<td>18_3</td>
</tr>
<tr>
<td>18_2</td>
</tr>
<tr>
<td>18_1</td>
</tr>
<tr>
<td>18_0</td>
</tr>
<tr>
<td>18_89</td>
</tr>
<tr>
<td>18_88</td>
</tr>
<tr>
<td>18_87</td>
</tr>
<tr>
<td>18_86</td>
</tr>
<tr>
<td>18_85</td>
</tr>
</tbody>
</table>

=============
Test 8.14:185
=============

<table>
<thead>
<tr>
<th>18_8</th>
</tr>
</thead>
<tbody>
<tr>
<td>18_7</td>
</tr>
<tr>
<td>18_6</td>
</tr>
<tr>
<td>18_5</td>
</tr>
<tr>
<td>18_4</td>
</tr>
<tr>
<td>18_3</td>
</tr>
<tr>
<td>18_2</td>
</tr>
<tr>
<td>18_1</td>
</tr>
<tr>
<td>18_0</td>
</tr>
<tr>
<td>18_89</td>
</tr>
<tr>
<td>18_88</td>
</tr>
<tr>
<td>18_87</td>
</tr>
<tr>
<td>18_86</td>
</tr>
<tr>
<td>18_85</td>
</tr>
</tbody>
</table>

=============
Test 8.15:186
=============
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Version 3, 29 June 2007

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This package contains a Gnome based implementation of ssh-askpass written by Damien Miller.

It is split out from the main package to isolate the dependency on the Gnome and X11 libraries.

It was packaged for Debian by Philip Hands <phil@hands.com>.

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Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support.
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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@il7linuxb.ists.pwr.wroc.pl>,
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This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support.

In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software
              92K sysvinit-2.86.tar.gz
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The sysvinit package in Debian is maintained as an alioth project.
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1.230 tcp-wrappers 7.6 :r10
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1.232 tunctl 1.5 :r0

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/* Copyright 2002 Jeff Dike
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#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <errno.h>
#include <fcntl.h>
#include <unistd.h>
#include <pwd.h>
#include <grp.h>
#include <net/if.h>
#include <sys/ioctl.h>
#include <linux/if_tun.h>

/* TUNSETGROUP appeared in 2.6.23 */
#ifndef TUNSETGROUP
#define TUNSETGROUP  _IOW('T', 206, int)
#endif

static void Usage(char *name)
{
    fprintf(stderr, "Create: %s [-b] [-u owner] [-g group] [-t device-name] 
  ['-p|-n'] [-f tun-clone-device]\n", name);
    fprintf(stderr, "Delete: %s -d device-name [-f tun-clone-device]\n\n", name);
    fprintf(stderr, "The default tun clone device is /dev/net/tun - some systems
  use\n/dev/misc/net/tun instead\n\n");
    fprintf(stderr, "-b will result in brief output (just the device name)\n");
    fprintf(stderr, "-n will result in a point-to-point tun device.\n");
    fprintf(stderr, "-p in an ethernet tap device. Default is a tap.\n");
    fprintf(stderr, " except the device contains \"tun\" in the name.\n");
    exit(1);
}

int main(int argc, char **argv)
{
    struct ifreq ifr;
    struct passwd *pw;
    struct group *gr;
    uid_t owner = -1;
    gid_t group = -1;
    int tap_fd, opt, delete = 0, brief = 0, type = 0;
    char *tun = "", *file = "/dev/net/tun", *name = argv[0], *end;

    while((opt = getopt(argc, argv, "bd:f:npt:u:g:h")) > 0){
        switch(opt) {
            case 'b':
                brief = 1;
                break;
            case 'd':
                delete = 1;
                tun = optarg;
                break;
            case 'p':
                if(type != 0)
                    Usage(name);
                type = IFF_TAP;
                break;
            case 'n':
                if(type != 0)
                    Usage(name);
type = IFF_TUN;
break;
case 'u':
pw = getpwnam(optarg);
if(pw != NULL){
    owner = pw->pw_uid;
    break;
}
    owner = strtol(optarg, &end, 0);
if(*end != '0'){
    fprintf(stderr, "'\n",
    optarg);
    Usage(name);
}
    break;
case 'g':
    gr = getgrnam(optarg);
    if(gr != NULL){
        group = gr->gr_gid;
        break;
}
        group = strtol(optarg, &end, 0);
if(*end != '0'){
    fprintf(stderr, "'\n",
    optarg);
    Usage(name);
}
    break;
}
case 't':
    tun = optarg;
    break;
case '?':
case 'h':
default:
    Usage(name);
    }
}
argv += optind;
argc -= optind;

if(argc > 0)
    Usage(name);

if((tap_fd = open(file, O_RDWR)) < 0){
    fprintf(stderr, "Failed to open '%s' : ",
    optarg);
    perror("\n");
exit(1);
}

if(type == 0) {
    type = strstr(tun, "tun") ? IFF_TUN : IFF_TAP;
}

memset(&ifr, 0, sizeof(ifr));
ifr.ifr_flags = type | IFF_NO_PI;
strncpy(ifr.ifr_name, tun, sizeof(ifr.ifr_name) - 1);
if(ioctl(tap_fd, TUNSETIFF, (void *) &ifr) < 0){
    perror("TUNSETIFF");
    exit(1);
}

if(delete){
    if(ioctl(tap_fd, TUNSETPERSIST, 0) < 0){
        perror("disabling TUNSETPERSIST");
        exit(1);
    }
    printf("Set '%s' nonpersistent\n", ifr.ifr_name);
} else {
    /* emulate behaviour prior to TUNSETGROUP */
    if(owner == -1 && group == -1) {
        owner = geteuid();
    }
    if(owner != -1) {
        if(ioctl(tap_fd, TUNSETOWNER, owner) < 0){
            perror("TUNSETOWNER");
            exit(1);
        }
    }
    if(group != -1) {
        if(ioctl(tap_fd, TUNSETGROUP, group) < 0){
            perror("TUNSETGROUP");
            exit(1);
        }
    }
    if(ioctl(tap_fd, TUNSETPERSIST, 1) < 0){
        perror("enabling TUNSETPERSIST");
        exit(1);
    }
}

if(brief)
printf("%s\n", ifr.ifr_name);
else {
    printf("Set '%s' persistent and owned by", ifr.ifr_name);
    if(owner != -1)
        printf(" uid %d", owner);
    if(group != -1)
        printf(" gid %d", group);
    printf("\n");
}
}
return(0);
}

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1.236 update-rc.d 0.7 :r5

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#!/bin/sh
#
# update-rc.d Update the links in /etc/rc[0-9S].d/
#
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initd="/etc/init.d"
etc="/etc/rc"
notreally=0
force=0
dostart=0
verbose=0

usage()
{
  cat >&2 <<EOF
    update-rc.d [-n] [-r <root>] [-s] <basename> defaults [NN | sNN kNN]
    update-rc.d [-n] [-r <root>] [-s] <basename> start[stop NN runlvl1 [runlvl1] [...].
-n: not really
-f: force
-v: verbose
-r: alternate root path (default is /)
-s: invoke start methods if appropriate to current runlevel
EOF
}

checklinks()
{
  local i dn fn remove=0
  if [ "x$1" = "xremove" ]; then
    echo " Removing any system startup links for $bn ..."
    remove=1
  fi

  for i in $1; do
    ...
  done

  ...

for i in 0 1 2 3 4 5 6 7 8 9 S; do
dn="${etcd}${i}.d"
if [ ! -d $dn ]; then
  continue;
fi
for f in ${dn}/[SK]?${bn}; do
  if [ -L $f ]; then
    if [ $remove -eq 0 ]; then
      return 1
    fi
  echo "  "$f"
  if [ $notreally -eq 1 ]; then
    continue
  fi
  rm $f
fi
done
done
return 0
}
dolink()
{
  startstop=$1
  lev=`echo $2 | cut -d/ -f1`
nn=`echo $2 | cut -d/ -f2`
fn="${etcd}${lev}.d/${startstop}${nn}${bn}"
  [ $verbose -eq 1 ] && echo "  $fn -> ../init.d/$bn"
  if [ $notreally -eq 0 ]; then
    mkdir -p `dirname $fn`
    ln -s ../init.d/$bn $fn
  fi
  if [ $dostart -eq 1 ] && [ $startstop = "S" ] && [ $lev = $RUNLEVEL ]; then
    $fn start || true
  fi
}
makelinks()
{
  if ! checklinks; then
    echo "  System startup links for $initd/$bn already exist."
  fi
  if [ $dostart -eq 1 ] && [ $notreally -eq 0 ] && [ -L ${etcd}${RUNLEVEL}.d/S??${bn} ]; then
    ${etcd}${RUNLEVEL}.d/S??${bn} restart || true
  fi
  exit 0
}
echo " Adding system startup for $initd/$bn."

for i in $startlinks; do
dolink S $i
done
for i in $stoplinks; do
dolink K $i
done
}

while [ $# -gt 0 ]; do
  case $1 in
    -n)
      notreally=1
      shift
      continue
      ;;
    -v)
      verbose=1
      shift
      continue
      ;;
    -f)
      force=1
      shift
      continue
      ;;
    -s)
      dostart=1
      shift
      continue
      ;;
    -r)
      shift
      root=$1
      initd="${root}${initd}"
      etcd="${root}${etcd}"
      shift
      ;;
    -h | --help)
      usage
      exit 0
      ;;
    *)
      usage
      exit 1
      ;;
  esac
break
esac
if [ $# -lt 2 ]; then
usage
exit 1
fi

bn=$1
shift

sn=$initd/$bn
if [-L "$sn" -a -n "$root" ]; then
if which readlink >/dev/null; then
  while true; do
    linksn="$(readlink "$sn")"
    if [ -z "$linksn" ]; then
      break
    fi
case "$linksn" in
    /*) sn="$root$linksn" ;;
    *) sn="$initd/$sn" ;;
in
  esac
done
else
  echo "update-rc.d: readlink tool not present, cannot check whether \ $sn symlink points to a valid file." >&2
fi
fi

if [ $1 != "remove" ]; then
  if [ ! -f "$sn" ]; then
    echo "update-rc.d: $initd/$bn: file does not exist" >&2
    exit 1
  fi
  else
    if [ -f "$sn" ]; then
      if [ "$force" -eq 1 ]; then
        echo "update-rc.d: $initd/$bn exits during rc.d purge (continuing)" >&2
      else
        echo "update-rc.d: $initd/$bn exits during rc.d purge (use -f to force)" >&2
      fi
    fi
  fi
fi

if [ $dostart -eq 1 ]; then
#RUNLEVEL=`sed 's/.*\[[^\[]*\]A1/' < /proc/1/cmdline`
RUNLEVEL=`runlevel | cut -d" " -f2`
if [ "x$RUNLEVEL" = "x" ]; then
  echo "Unable to determine current runlevel" >&2
  exit 1
fi
fi

case $1 in
  remove)
    checklinks "remove"
    ;;
  defaults)
    if [ $# -gt 3 ]; then
      echo "defaults takes only one or two arguments" >&2
      usage
      exit 1
    fi
    start=20
    stop=20
    if [ $# -gt 1 ]; then
      start=$2
      stop=$2
    fi
    if [ $# -gt 2 ]; then
      stop=$3
    fi
    start=`printf %02d $start`
    stop=`printf %02d $stop`
    stoplinks="0/$stop 1/$stop 6/$stop"
    startlinks="2/$start 3/$start 4/$start 5/$start"
    makelinks
    ;;
  start | stop)
    while [ $# -gt 0 ]; do
      if [ $1 = "start" ]; then
        letter=S
      elif [ $1 = "stop" ]; then
        letter=K
      else
        echo "expected start or stop" >&2
        usage
        exit 1
      fi
      shift
      NN=`printf %02d $(expr $1 + 0)`
shift
while [ "x$1" != "x." ]; do
  if [ $# -eq 0 ]; then
    echo "action with list of runlevels not terminated by \." >&2
    exit 1
  fi
  level=$1
  shift
case $letter in
  S) startlinks="$startlinks $level/$NN" ;;
  K) stoplinks="$stoplinks $level/$NN" ;;
esac
done
shift
done
makelinks
;;
)
usage
exit 1
;;
esac

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Version 2, June 1991

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1.241 util-linux 2.17.2-0ubuntu1

1.241.1 Available under license:

size: 8388608, sector size: 512, PT: dos, offset: 446

---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
size: 4456448, sector size: 512, PT: bsd, offset: 512

---
#1: 7936 4864 0x7
#2: 12544 3584 0x7
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---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----------
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

--------------------
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dffe51a88a045db233418dd73fbd 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.
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 Start</th>
<th>End Sectors</th>
<th>Size Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096 6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096 20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0 16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</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):

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):

<table>
<thead>
<tr>
<th>0 unused</th>
<th>5 4.1BSD</th>
<th>9 4.4LFS</th>
<th>d boot</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 swap</td>
<td>6 Eighth Edition</td>
<td>a unknown</td>
<td>e ADOS</td>
</tr>
<tr>
<td>2 Version 6</td>
<td>7 4.2BSD</td>
<td>b HPFS</td>
<td>f HFS</td>
</tr>
<tr>
<td>3 Version 7</td>
<td>8 MS-DOS</td>
<td>c ISO-9660</td>
<td>10 AdvFS</td>
</tr>
</tbody>
</table>
Command (m for help):

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Maintainer: Lasse Collin <lass.e.collin@tukaani.org>
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X-Origin: gettext-runtime/po/Makevars (gettext-0.12)
X-Authors: Bruno Haible
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1.246 yajl 2.1.0 :r0.1
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1.247 zlib 1.2.8 :r0

1.247.1 Available under license:

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1.248 zlib1g 1:1.2.3.4.dfsg-3ubuntu1

1.248.1 Available under license:

This is the pre-packaged Debian Linux version of the zlib compression library. It was packaged by Michael Alan Dorman <mdorman@debian.org> from sources originally retrieved from ftp.uu.net in the directory /pub/archiving/zip/zlib as the file zlib-1.0.4.tar.gz.

There is a homepage at http://www.gzip.org/zlib/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the
people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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