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1.3 base-passwd 3.5.29

1.3.1 Available under license :

Format-Specification: http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135
Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

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```
/*
 protname.c - return the name of the protocol used
 Copyright (C) 1996, 1997 Uwe Ohse

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 02111-1307, USA.

*/
#include "zglobal.h"

/* this code was duplicate in lrz.c and lsz.c */

const char *
protname(void)
{
 const char *prot_name;
 switch(protocol) {
 case ZM_XMODEM:
  prot_name="XMODEM";
  break;
 case
```

```
 ZM_YMODEM:
  prot_name="YMODEM";
  break;
 default:
  prot_name="ZMODEM";
  break;
 }
 return prot_name;
}
```

1.6 mingetty 1.08

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1.7 setserial 2.17

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```
#! /bin/sh
# Attempt to guess a canonical system name.
#   Copyright (C) 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999,
#   2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010,
#   2011, 2012 Free Software Foundation, Inc.

timestamp='2012-08-14'

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 file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.


# Originally written by Per Bothner.  Please send patches (context
# diff format) to <config-patches@gnu.org> and include a ChangeLog
# entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub.  If it succeeds, it prints the system name on stdout, and
# exits with 0.  Otherwise, it exits with 1.
#
# You can get the latest version of this script from:
# http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob_plain;f=config.guess;hb=HEAD

me=`echo "$0" | sed -e 's,.*/,,'`

usage="\
```

```
Usage: $0 [OPTION]

Output the configuration name of the system \`$me' is run on.

Operation modes:
 -h, --help         print this help, then exit
 -t, --time-stamp   print date of last modification, then exit
 -v, --version      print version number, then exit

Report
 bugs and patches to <config-patches@gnu.org>."

version="\
GNU config.guess ($timestamp)

Originally written by Per Bothner.
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help="
Try \`$me --help' for more information."

# Parse command line
while test $# -gt 0 ; do
 case $1 in
   --time-stamp | --time* | -t )
      echo "$timestamp" ; exit ;;
   --version | -v )
      echo "$version" ; exit ;;
   --help | --h* | -h )
      echo "$usage"; exit ;;
   -- )     # Stop option processing
      shift; break ;;
   - ) # Use stdin as input.
      break ;;
   -* )
      echo "$me: invalid option $1$help" >&2
      exit 1 ;;
   * )
      break ;;
 esac
done

if test
```

```
 $# != 0; then
 echo "$me: too many arguments$help" >&2
 exit 1
fi

trap 'exit 1' 1 2 15

# CC_FOR_BUILD -- compiler used by this script. Note that the use of a
# compiler to aid in system detection is discouraged as it requires
# temporary files to be created and, as you can see below, it is a
# headache to deal with in a portable fashion.

# Historically, `CC_FOR_BUILD' used to be named `HOST_CC'. We still
# use `HOST_CC' if defined, but it is deprecated.

# Portable tmp directory creation inspired by the Autoconf team.

set_cc_for_build='
trap "exitcode=\$?; (rm -f \$tmpfiles 2>/dev/null; rmdir \$tmp 2>/dev/null) && exit \$exitcode" 0 ;
trap "rm -f \$tmpfiles 2>/dev/null; rmdir \$tmp 2>/dev/null; exit 1" 1 2 13 15 ;
: ${TMPDIR=/tmp} ;
{ tmp=`(umask 077 && mktemp -d "$TMPDIR/cgXXXXXX") 2>/dev/null` && test -n "$tmp" && test -d "$tmp" ;
} ||
{ test -n "$RANDOM" && tmp=$TMPDIR/cg$$-$RANDOM && (umask 077 && mkdir $tmp) ; } ||
{ tmp=$TMPDIR/cg-$$ && (umask 077
 && mkdir $tmp) && echo "Warning: creating insecure temp directory" >&2 ; } ||
{ echo "$me: cannot create a temporary directory in $TMPDIR" >&2 ; exit 1 ; } ;
dummy=$tmp/dummy ;
tmpfiles="$dummy.c $dummy.o $dummy.rel $dummy" ;
case $CC_FOR_BUILD,$HOST_CC,$CC in
,,)    echo "int x;" > $dummy.c ;
 for c in cc gcc c89 c99 ; do
   if ($c -c -o $dummy.o $dummy.c) >/dev/null 2>&1 ; then
      CC_FOR_BUILD="$c"; break ;
   fi ;
 done ;
 if test x"$CC_FOR_BUILD" = x ; then
   CC_FOR_BUILD=no_compiler_found ;
 fi
 ;;
,,*)   CC_FOR_BUILD=$CC ;;
,*,*)  CC_FOR_BUILD=$HOST_CC ;;
esac ; set_cc_for_build= ;'

# This is needed to find uname on a Pyramid OSx when run in the BSD universe.
# (ghazi@noc.rutgers.edu 1994-08-24)
if (test -f /.attbin/uname) >/dev/null 2>&1 ; then
 PATH=$PATH:/.attbin ; export PATH
```

```
fi

UNAME_MACHINE=`(uname -m) 2>/dev/null` || UNAME_MACHINE=unknown
UNAME_RELEASE=`(uname -r) 2>/dev/null` || UNAME_RELEASE=unknown
UNAME_SYSTEM=`(uname -s) 2>/dev/null`
  || UNAME_SYSTEM=unknown
UNAME_VERSION=`(uname -v) 2>/dev/null` || UNAME_VERSION=unknown

# Detect uclibc systems.

LIBC="gnu"
if [ -f /usr/include/bits/uClibc_config.h ]
then
 LIBC=uclibc
 if [ -n `grep "#define __UCLIBC_CONFIG_VERSION__" /usr/include/bits/uClibc_config.h` ]
 then
  UCLIBC_SUBVER=`sed -n "/#define __UCLIBC_CONFIG_VERSION__ /s///p" /usr/include/bits/uClibc_config.h`
  LIBC=$LIBC$UCLIBC_SUBVER
 fi
fi

# Note: order is significant - the case branches are not exclusive.

case "${UNAME_MACHINE}:${UNAME_SYSTEM}:${UNAME_RELEASE}:${UNAME_VERSION}" in
   *:NetBSD:*:*)
 # NetBSD (nbsd) targets should (where applicable) match one or
 # more of the tuples: *-*-netbsdelf*, *-*-netbsdaout*,
 # *-*-netbsdecoff* and *-*-netbsd*.  For targets that recently
 # switched to ELF, *-*-netbsd* would select the old
 # object file format.  This provides both forward
 # compatibility and a consistent mechanism for selecting the
 # object file format.
 #
 # Note:
 NetBSD doesn't particularly care about the vendor
 # portion of the name.  We always set it to "unknown".
 sysctl="sysctl -n hw.machine_arch"
 UNAME_MACHINE_ARCH=`(/sbin/$sysctl 2>/dev/null || \
    /usr/sbin/$sysctl 2>/dev/null || echo unknown)`
 case "${UNAME_MACHINE_ARCH}" in
    armeb) machine=armeb-unknown ;;
    arm*) machine=arm-unknown ;;
    sh3el) machine=shl-unknown ;;
    sh3eb) machine=sh-unknown ;;
    sh5el) machine=sh5le-unknown ;;
    *) machine=${UNAME_MACHINE_ARCH}-unknown ;;
 esac
 # The Operating System including object format, if it has switched
```

```
# to ELF recently, or will in the future.
case "${UNAME_MACHINE_ARCH}" in
    arm*|i386|m68k|ns32k|sh3*|sparc|vax)
 eval $set_cc_for_build
 if echo __ELF__ | $CC_FOR_BUILD -E - 2>/dev/null \
 | grep -q __ELF__
 then
    # Once all utilities can be ECOFF (netbsdecoff) or a.out (netbsdaout).
    # Return netbsd for either.  FIX?
    os=netbsd
 else
    os=netbsdelf
 fi
 ;;

  *)
 os=netbsd
 ;;
esac
# The OS release
# Debian GNU/NetBSD machines have a different userland, and
# thus, need a distinct triplet. However, they do not need
# kernel version information, so it can be replaced with a
# suitable tag, in the style of linux-gnu.
case "${UNAME_VERSION}" in
    Debian*)
 release='-gnu'
 ;;
    *)
 release=`echo ${UNAME_RELEASE}|sed -e 's/[-_].*/\./'`
 ;;
esac
# Since CPU_TYPE-MANUFACTURER-KERNEL-OPERATING_SYSTEM:
# contains redundant information, the shorter form:
# CPU_TYPE-MANUFACTURER-OPERATING_SYSTEM is used.
echo "${machine}-${os}${release}"
exit ;;
  *:Bitrig:*:*)
UNAME_MACHINE_ARCH=`arch | sed 's/Bitrig.//'`
echo ${UNAME_MACHINE_ARCH}-unknown-bitrig${UNAME_RELEASE}
exit ;;
  *:OpenBSD:*:*)
UNAME_MACHINE_ARCH=`arch | sed 's/OpenBSD.//'`
echo ${UNAME_MACHINE_ARCH}-unknown-openbsd${UNAME_RELEASE}
exit ;;
  *:ekkoBSD:*:*)
echo ${UNAME_MACHINE}-unknown-ekkobsd${UNAME_RELEASE}
exit
```

```
;;
  *:SolidBSD:*:*)
echo ${UNAME_MACHINE}-unknown-solidbsd${UNAME_RELEASE}
exit ;;
  macppc:MirBSD:*:*)
echo powerpc-unknown-mirbsd${UNAME_RELEASE}
exit ;;
  *:MirBSD:*:*)
echo ${UNAME_MACHINE}-unknown-mirbsd${UNAME_RELEASE}
exit ;;
  alpha:OSF1:*:*)
case $UNAME_RELEASE in
*4.0)
 UNAME_RELEASE=`/usr/sbin/sizer -v | awk '{print $3}'`
 ;;
*5.*)
 UNAME_RELEASE=`/usr/sbin/sizer -v | awk '{print $4}'`
 ;;
esac
# According to Compaq, /usr/sbin/psrinfo has been available on
# OSF/1 and Tru64 systems produced since 1995.  I hope that
# covers most systems running today.  This code pipes the CPU
# types through head -n 1, so we only detect the type of CPU 0.
ALPHA_CPU_TYPE=`/usr/sbin/psrinfo -v | sed -n -e 's/^  The alpha \(.*\) processor.*$/\1/p' | head -n 1`
case "$ALPHA_CPU_TYPE" in
    "EV4 (21064)")
 UNAME_MACHINE="alpha" ;;
    "EV4.5 (21064)")
 UNAME_MACHINE="alpha" ;;
    "LCA4 (21066/21068)")
 UNAME_MACHINE="alpha" ;;

   "EV5 (21164)")
 UNAME_MACHINE="alphaev5" ;;
    "EV5.6 (21164A)")
 UNAME_MACHINE="alphaev56" ;;
    "EV5.6 (21164PC)")
 UNAME_MACHINE="alphapca56" ;;
    "EV5.7 (21164PC)")
 UNAME_MACHINE="alphapca57" ;;
    "EV6 (21264)")
 UNAME_MACHINE="alphaev6" ;;
    "EV6.7 (21264A)")
 UNAME_MACHINE="alphaev67" ;;
    "EV6.8CB (21264C)")
 UNAME_MACHINE="alphaev68" ;;
    "EV6.8AL (21264B)")
 UNAME_MACHINE="alphaev68" ;;
```

```
    "EV6.8CX (21264D)")
 UNAME_MACHINE="alphaev68" ;;
    "EV6.9A (21264/EV69A)")
 UNAME_MACHINE="alphaev69" ;;
    "EV7 (21364)")
 UNAME_MACHINE="alphaev7" ;;
    "EV7.9 (21364A)")
 UNAME_MACHINE="alphaev79" ;;
esac
# A Pn.n version is a patched version.
# A Vn.n version is a released version.
# A Tn.n version is a released field test version.
# A Xn.n version is an unreleased experimental baselevel.
# 1.2 uses "1.2" for uname -r.
echo ${UNAME_MACHINE}-dec-osf`echo ${UNAME_RELEASE} | sed -e 's/^[PVTX]//' | tr
'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
'abcdefghijklmnopqrstuvwxyz'`
# Reset EXIT trap before exiting to avoid spurious non-zero exit code.
exitcode=$?
trap '' 0
exit $exitcode ;;
  Alpha\ *:Windows_NT*:*)
# How do we know it's Interix rather than the generic POSIX subsystem?
# Should we change UNAME_MACHINE based on the output of uname instead
# of the specific Alpha model?
echo alpha-pc-interix
exit ;;
  21064:Windows_NT:50:3)
echo alpha-dec-winnt3.5
exit ;;
  Amiga*:UNIX_System_V:4.0:*)
echo m68k-unknown-sysv4
exit ;;
  *:[Aa]miga[Oo][Ss]:*:*)
echo ${UNAME_MACHINE}-unknown-amigaos
exit ;;
  *:[Mm]orph[Oo][Ss]:*:*)
echo ${UNAME_MACHINE}-unknown-morphos
exit ;;
  *:OS/390:*:*)
echo i370-ibm-openedition
exit ;;
  *:z/VM:*:*)
echo s390-ibm-zvmoe
exit ;;
  *:OS400:*:*)
echo powerpc-ibm-os400
exit ;;
```

```
  arm:RISC*:1.[012]*:*|arm:riscix:1.[012]*:*)
echo arm-acorn-riscix${UNAME_RELEASE}
exit ;;
  arm:riscos:*:*|arm:RISCOS:*:*)
echo
arm-unknown-riscos
exit ;;
  SR2?01:HI-UX/MPP:*:* | SR8000:HI-UX/MPP:*:*)
echo hppa1.1-hitachi-hiuxmpp
exit ;;
  Pyramid*:OSx*:*:* | MIS*:OSx*:*:* | MIS*:SMP_DC-OSx*:*:*)
# akee@wpdis03.wpafb.af.mil (Earle F. Ake) contributed MIS and NILE.
if test "`(/bin/universe) 2>/dev/null`" = att ; then
 echo pyramid-pyramid-sysv3
else
 echo pyramid-pyramid-bsd
fi
exit ;;
  NILE*:*:*:dcosx)
echo pyramid-pyramid-svr4
exit ;;
  DRS?6000:unix:4.0:6*)
echo sparc-icl-nx6
exit ;;
  DRS?6000:UNIX_SV:4.2*:7* | DRS?6000:isis:4.2*:7*)
case `/usr/bin/uname -p` in
    sparc) echo sparc-icl-nx7; exit ;;
esac ;;
  s390x:SunOS:*:*)
echo ${UNAME_MACHINE}-ibm-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'`
exit ;;
  sun4H:SunOS:5.*:*)
echo sparc-hal-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'`
exit ;;
  sun4*:SunOS:5.*:* | tadpole*:SunOS:5.*:*)
echo sparc-sun-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'`
exit ;;
  i86pc:AuroraUX:5.*:*
| i86xen:AuroraUX:5.*:*)
echo i386-pc-auroraux${UNAME_RELEASE}
exit ;;
  i86pc:SunOS:5.*:* | i86xen:SunOS:5.*:*)
eval $set_cc_for_build
SUN_ARCH="i386"
# If there is a compiler, see if it is configured for 64-bit objects.
# Note that the Sun cc does not turn __LP64__ into 1 like gcc does.
# This test works for both compilers.
if [ "$CC_FOR_BUILD" != 'no_compiler_found' ]; then
```

```
    if (echo '#ifdef __amd64'; echo IS_64BIT_ARCH; echo '#endif') | \
 (CCOPTS= $CC_FOR_BUILD -E - 2>/dev/null) | \
 grep IS_64BIT_ARCH >/dev/null
    then
 SUN_ARCH="x86_64"
    fi
fi
echo ${SUN_ARCH}-pc-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'`
exit ;;
  sun4*:SunOS:6*:*)
# According to config.sub, this is the proper way to canonicalize
# SunOS6.  Hard to guess exactly what SunOS6 will be like, but
# it's likely to be more like Solaris than SunOS4.
echo sparc-sun-solaris3`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'`
exit ;;
  sun4*:SunOS:*:*)
case
"`/usr/bin/arch -k`" in
    Series*|S4*)
 UNAME_RELEASE=`uname -v`
 ;;
esac
# Japanese Language versions have a version number like `4.1.3-JL'.
echo sparc-sun-sunos`echo ${UNAME_RELEASE}|sed -e 's/-/_/'`
exit ;;
  sun3*:SunOS:*:*)
echo m68k-sun-sunos${UNAME_RELEASE}
exit ;;
  sun*:*:4.2BSD:*)
UNAME_RELEASE=`(sed 1q /etc/motd | awk '{print substr($5,1,3)}') 2>/dev/null`
test "x${UNAME_RELEASE}" = "x" && UNAME_RELEASE=3
case "`/bin/arch`" in
    sun3)
 echo m68k-sun-sunos${UNAME_RELEASE}
 ;;
    sun4)
 echo sparc-sun-sunos${UNAME_RELEASE}
 ;;
esac
exit ;;
  aushp:SunOS:*:*)
echo sparc-auspex-sunos${UNAME_RELEASE}
exit ;;
  # The situation for MiNT is a little confusing.  The machine name
  # can be virtually everything (everything which is not
  # "atarist" or "atariste" at least should have a processor
  # > m68000).  The system name ranges from "MiNT" over "FreeMiNT"
  # to the lowercase version "mint" (or "freemint").
```

```
 Finally
  # the system name "TOS" denotes a system which is actually not
  # MiNT.  But MiNT is downward compatible to TOS, so this should
  # be no problem.
  atarist[e]:*MiNT:*:* | atarist[e]:*mint:*:* | atarist[e]:*TOS:*:*)
 echo m68k-atari-mint${UNAME_RELEASE}
 exit ;;
  atari*:*MiNT:*:* | atari*:*mint:*:* | atarist[e]:*TOS:*:*)
 echo m68k-atari-mint${UNAME_RELEASE}
 exit ;;
  *falcon*:*MiNT:*:* | *falcon*:*mint:*:* | *falcon*:*TOS:*:*)
 echo m68k-atari-mint${UNAME_RELEASE}
 exit ;;
  milan*:*MiNT:*:* | milan*:*mint:*:* | *milan*:*TOS:*:*)
 echo m68k-milan-mint${UNAME_RELEASE}
 exit ;;
  hades*:*MiNT:*:* | hades*:*mint:*:* | *hades*:*TOS:*:*)
 echo m68k-hades-mint${UNAME_RELEASE}
 exit ;;
  *:*MiNT:*:* | *:*mint:*:* | *:*TOS:*:*)
 echo m68k-unknown-mint${UNAME_RELEASE}
 exit ;;
  m68k:machten:*:*)
 echo m68k-apple-machten${UNAME_RELEASE}
 exit ;;
  powerpc:machten:*:*)
 echo powerpc-apple-machten${UNAME_RELEASE}
 exit ;;
   RISC*:Mach:*:*)
 echo mips-dec-mach_bsd4.3
 exit ;;
  RISC*:ULTRIX:*:*)
 echo mips-dec-ultrix${UNAME_RELEASE}
 exit ;;
  VAX*:ULTRIX*:*:*)
 echo vax-dec-ultrix${UNAME_RELEASE}
 exit ;;
  2020:CLIX:*:* | 2430:CLIX:*:*)
 echo clipper-intergraph-clix${UNAME_RELEASE}
 exit ;;
  mips:*:*:UMIPS | mips:*:*:RISCos)
 eval $set_cc_for_build
 sed 's/^ //' << EOF >$dummy.c
#ifdef __cplusplus
#include <stdio.h>  /* for printf() prototype */
 int main (int argc, char *argv[]) {
#else
 int main (argc, argv) int argc; char *argv[]; {
```

```
#endif
 #if defined (host_mips) && defined (MIPSEB)
 #if defined (SYSTYPE_SYSV)
   printf ("mips-mips-riscos%ssysv\n", argv[1]); exit (0);
 #endif
 #if defined (SYSTYPE_SVR4)
   printf ("mips-mips-riscos%ssvr4\n", argv[1]); exit (0);
 #endif
 #if defined (SYSTYPE_BSD43) || defined(SYSTYPE_BSD)
   printf ("mips-mips-riscos%sbsd\n", argv[1]); exit (0);
 #endif
 #endif
   exit (-1);
 }
EOF
 $CC_FOR_BUILD -o $dummy $dummy.c &&

  dummyarg=`echo "${UNAME_RELEASE}" | sed -n 's/\([0-9]*\).*/\1/p'` &&
   SYSTEM_NAME=`$dummy $dummyarg` &&
     { echo "$SYSTEM_NAME"; exit; }
 echo mips-mips-riscos${UNAME_RELEASE}
 exit ;;
   Motorola:PowerMAX_OS:*:*)
 echo powerpc-motorola-powermax
 exit ;;
   Motorola:*:4.3:PL8-*)
 echo powerpc-harris-powermax
 exit ;;
   Night_Hawk:*:*:PowerMAX_OS | Synergy:PowerMAX_OS:*:*)
 echo powerpc-harris-powermax
 exit ;;
   Night_Hawk:Power_UNIX:*:*)
 echo powerpc-harris-powerunix
 exit ;;
   m88k:CX/UX:7*:*)
 echo m88k-harris-cxux7
 exit ;;
   m88k:*:4*:R4*)
 echo m88k-motorola-sysv4
 exit ;;
   m88k:*:3*:R3*)
 echo m88k-motorola-sysv3
 exit ;;
   AViiON:dgux:*:*)
 # DG/UX returns AViiON for all architectures
 UNAME_PROCESSOR=`/usr/bin/uname -p`
 if [ $UNAME_PROCESSOR = mc88100 ] || [ $UNAME_PROCESSOR = mc88110 ]
 then
```

```
    if [ ${TARGET_BINARY_INTERFACE}x = m88kdguxelfx ] || \
       [ ${TARGET_BINARY_INTERFACE}x = x ]
    then
 echo m88k-dg-dgux${UNAME_RELEASE}

   else
 echo m88k-dg-dguxbcs${UNAME_RELEASE}
    fi
else
    echo i586-dg-dgux${UNAME_RELEASE}
fi
exit ;;
  M88*:DolphinOS:*:*) # DolphinOS (SVR3)
echo m88k-dolphin-sysv3
exit ;;
  M88*:*:R3*:*)
# Delta 88k system running SVR3
echo m88k-motorola-sysv3
exit ;;
  XD88*:*:*:*) # Tektronix XD88 system running UTekV (SVR3)
echo m88k-tektronix-sysv3
exit ;;
  Tek43[0-9][0-9]:UTek:*:*) # Tektronix 4300 system running UTek (BSD)
echo m68k-tektronix-bsd
exit ;;
  *:IRIX*:*:*)
echo mips-sgi-irix`echo ${UNAME_RELEASE}|sed -e 's/-/_/g'`
exit ;;
  ????????:AIX?:[12].1:2)   # AIX 2.2.1 or AIX 2.1.1 is RT/PC AIX.
echo romp-ibm-aix     # uname -m gives an 8 hex-code CPU id
exit ;;               # Note that: echo "'`uname -s`'" gives 'AIX '
  i*86:AIX:*:*)
echo i386-ibm-aix
exit ;;
  ia64:AIX:*:*)
if [ -x /usr/bin/oslevel ] ; then
 IBM_REV=`/usr/bin/oslevel`
else
 IBM_REV=${UNAME_VERSION}.${UNAME_RELEASE}
fi
echo
${UNAME_MACHINE}-ibm-aix${IBM_REV}
exit ;;
  *:AIX:2:3)
if grep bos325 /usr/include/stdio.h >/dev/null 2>&1; then
 eval $set_cc_for_build
 sed 's/^  //' << EOF >$dummy.c
 #include <sys/systemcfg.h>
```

```
 main()
  {
  if (!__power_pc())
   exit(1);
  puts("powerpc-ibm-aix3.2.5");
  exit(0);
  }
EOF
 if $CC_FOR_BUILD -o $dummy $dummy.c && SYSTEM_NAME=`$dummy`
 then
  echo "$SYSTEM_NAME"
 else
  echo rs6000-ibm-aix3.2.5
 fi
elif grep bos324 /usr/include/stdio.h >/dev/null 2>&1; then
 echo rs6000-ibm-aix3.2.4
else
 echo rs6000-ibm-aix3.2
fi
exit ;;
  *:AIX:*:[4567])
IBM_CPU_ID=`/usr/sbin/lsdev -C -c processor -S available | sed 1q | awk '{ print $1 }'`
if /usr/sbin/lsattr -El ${IBM_CPU_ID} | grep ' POWER' >/dev/null 2>&1; then
 IBM_ARCH=rs6000
else
 IBM_ARCH=powerpc
fi
if [ -x /usr/bin/oslevel ] ; then
 IBM_REV=`/usr/bin/oslevel`
else
 IBM_REV=${UNAME_VERSION}.${UNAME_RELEASE}
fi
echo ${IBM_ARCH}-ibm-aix${IBM_REV}
exit
;;
  *:AIX:*:*)
echo rs6000-ibm-aix
exit ;;
  ibmrt:4.4BSD:*|romp-ibm:BSD:*)
echo romp-ibm-bsd4.4
exit ;;
  ibmrt:*BSD:*|romp-ibm:BSD:*)            # covers RT/PC BSD and
echo romp-ibm-bsd${UNAME_RELEASE}   # 4.3 with uname added to
exit ;;                             # report: romp-ibm BSD 4.3
  *:BOSX:*:*)
echo rs6000-bull-bosx
exit ;;
```

```
  DPX/2?00:B.O.S.:*:*)
echo m68k-bull-sysv3
exit ;;
  9000/[34]??:4.3bsd:1.*:*)
echo m68k-hp-bsd
exit ;;
  hp300:4.4BSD:*:* | 9000/[34]??:4.3bsd:2.*:*)
echo m68k-hp-bsd4.4
exit ;;
  9000/[34678]??:HP-UX:*:*)
HPUX_REV=`echo ${UNAME_RELEASE}|sed -e 's/[^.]*.[0B]*//'`
case "${UNAME_MACHINE}" in
    9000/31? )            HP_ARCH=m68000 ;;
    9000/[34]?? )         HP_ARCH=m68k ;;
    9000/[678][0-9][0-9])
 if [ -x /usr/bin/getconf ]; then
     sc_cpu_version=`/usr/bin/getconf SC_CPU_VERSION 2>/dev/null`
     sc_kernel_bits=`/usr/bin/getconf SC_KERNEL_BITS 2>/dev/null`

   case "${sc_cpu_version}" in
      523) HP_ARCH="hppa1.0" ;; # CPU_PA_RISC1_0
      528) HP_ARCH="hppa1.1" ;; # CPU_PA_RISC1_1
      532)                      # CPU_PA_RISC2_0
  case "${sc_kernel_bits}" in
    32) HP_ARCH="hppa2.0n" ;;
    64) HP_ARCH="hppa2.0w" ;;
    ") HP_ARCH="hppa2.0" ;;   # HP-UX 10.20
  esac ;;
     esac
 fi
 if [ "${HP_ARCH}" = "" ]; then
     eval $set_cc_for_build
     sed 's/^  //' << EOF >$dummy.c

 #define _HPUX_SOURCE
 #include <stdlib.h>
 #include <unistd.h>

 int main ()
 {
 #if defined(_SC_KERNEL_BITS)
     long bits = sysconf(_SC_KERNEL_BITS);
 #endif
     long cpu  = sysconf (_SC_CPU_VERSION);

     switch (cpu)
  {
  case CPU_PA_RISC1_0: puts ("hppa1.0"); break;
```

```
  case CPU_PA_RISC1_1: puts ("hppa1.1"); break;
  case CPU_PA_RISC2_0:
 #if defined(_SC_KERNEL_BITS)
      switch (bits)
   {
   case 64: puts ("hppa2.0w"); break;
   case 32: puts ("hppa2.0n"); break;
   default:
 puts ("hppa2.0"); break;
   } break;
 #else  /* !defined(_SC_KERNEL_BITS) */
      puts ("hppa2.0"); break;
 #endif
  default: puts ("hppa1.0"); break;
  }
     exit (0);
 }
EOF
     (CCOPTS= $CC_FOR_BUILD -o $dummy $dummy.c 2>/dev/null) && HP_ARCH=`$dummy`
     test -z "$HP_ARCH" && HP_ARCH=hppa
 fi ;;
esac
if [ ${HP_ARCH} = "hppa2.0w" ]
then
    eval $set_cc_for_build

    # hppa2.0w-hp-hpux* has a 64-bit kernel and a compiler generating
    # 32-bit code.  hppa64-hp-hpux* has the same kernel and a compiler
    # generating 64-bit code.  GNU and HP use different nomenclature:
    #
    # $ CC_FOR_BUILD=cc ./config.guess
    # => hppa2.0w-hp-hpux11.23
    # $ CC_FOR_BUILD="cc +DA2.0w" ./config.guess
    # => hppa64-hp-hpux11.23

    if echo __LP64__ | (CCOPTS= $CC_FOR_BUILD -E - 2>/dev/null) |
 grep -q __LP64__
    then
 HP_ARCH="hppa2.0w"
    else
 HP_ARCH="hppa64"
    fi
fi
echo ${HP_ARCH}-hp-hpux${HPUX_REV}
exit ;;
   ia64:HP-UX:*:*)
HPUX_REV=`echo ${UNAME_RELEASE}|sed -e 's/[^.]*.[0B]*//'`
echo ia64-hp-hpux${HPUX_REV}
```

```
exit ;;
  3050*:HI-UX:*:*)
eval $set_cc_for_build
sed 's/^ //' << EOF >$dummy.c
#include <unistd.h>
int
main ()
{
  long cpu = sysconf (_SC_CPU_VERSION);
  /* The order matters, because CPU_IS_HP_MC68K erroneously returns
     true for CPU_PA_RISC1_0.  CPU_IS_PA_RISC returns correct
     results, however.  */
  if (CPU_IS_PA_RISC (cpu))
    {
      switch (cpu)
 {
   case CPU_PA_RISC1_0: puts ("hppa1.0-hitachi-hiuxwe2"); break;
   case CPU_PA_RISC1_1: puts ("hppa1.1-hitachi-hiuxwe2"); break;
   case CPU_PA_RISC2_0: puts ("hppa2.0-hitachi-hiuxwe2"); break;
   default: puts ("hppa-hitachi-hiuxwe2"); break;
 }
    }
  else if (CPU_IS_HP_MC68K (cpu))
    puts ("m68k-hitachi-hiuxwe2");
  else puts ("unknown-hitachi-hiuxwe2");
  exit (0);
}
EOF
 $CC_FOR_BUILD -o $dummy $dummy.c && SYSTEM_NAME=`$dummy` &&
  { echo "$SYSTEM_NAME";
 exit; }
 echo unknown-hitachi-hiuxwe2
 exit ;;
  9000/7??:4.3bsd:*:* | 9000/8?[79]:4.3bsd:*:* )
 echo hppa1.1-hp-bsd
 exit ;;
  9000/8??:4.3bsd:*:*)
 echo hppa1.0-hp-bsd
 exit ;;
  *9??*:MPE/iX:*:* | *3000*:MPE/iX:*:*)
 echo hppa1.0-hp-mpeix
 exit ;;
  hp7??:OSF1:*:* | hp8?[79]:OSF1:*:* )
 echo hppa1.1-hp-osf
 exit ;;
  hp8??:OSF1:*:*)
 echo hppa1.0-hp-osf
 exit ;;
```

```
  i*86:OSF1:*:*)
if [ -x /usr/sbin/sysversion ] ; then
    echo ${UNAME_MACHINE}-unknown-osf1mk
else
    echo ${UNAME_MACHINE}-unknown-osf1
fi
exit ;;
  parisc*:Lites*:*:*)
echo hppa1.1-hp-lites
exit ;;
  C1*:ConvexOS:*:* | convex:ConvexOS:C1*:*)
echo c1-convex-bsd
exit ;;
  C2*:ConvexOS:*:* | convex:ConvexOS:C2*:*)
if getsysinfo -f scalar_acc
then echo c32-convex-bsd
else echo c2-convex-bsd
fi
exit ;;
  C34*:ConvexOS:*:* | convex:ConvexOS:C34*:*)
echo c34-convex-bsd
exit ;;
  C38*:ConvexOS:*:* | convex:ConvexOS:C38*:*)
echo c38-convex-bsd
exit
;;
  C4*:ConvexOS:*:* | convex:ConvexOS:C4*:*)
echo c4-convex-bsd
exit ;;
  CRAY*Y-MP:*:*:*)
echo ymp-cray-unicos${UNAME_RELEASE} | sed -e 's/\.[^.]*$/.X/'
exit ;;
  CRAY*[A-Z]90:*:*:*)
echo ${UNAME_MACHINE}-cray-unicos${UNAME_RELEASE} \
| sed -e 's/CRAY.*\([A-Z]90\)/\1/' \
      -e y/ABCDEFGHIJKLMNOPQRSTUVWXYZ/abcdefghijklmnopqrstuvwxyz/ \
      -e 's/\.[^.]*$/.X/'
exit ;;
  CRAY*TS:*:*:*)
echo t90-cray-unicos${UNAME_RELEASE} | sed -e 's/\.[^.]*$/.X/'
exit ;;
  CRAY*T3E:*:*:*)
echo alphaev5-cray-unicosmk${UNAME_RELEASE} | sed -e 's/\.[^.]*$/.X/'
exit ;;
  CRAY*SV1:*:*:*)
echo sv1-cray-unicos${UNAME_RELEASE} | sed -e 's/\.[^.]*$/.X/'
exit ;;
  *:UNICOS/mp:*:*)
```

```
 echo craynv-cray-unicosmp${UNAME_RELEASE} | sed -e 's/\.[^.]*$/.X/'
 exit ;;
  F30[01]:UNIX_System_V:*:* | F700:UNIX_System_V:*:*)
 FUJITSU_PROC=`uname -m | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ' 'abcdefghijklmnopqrstuvwxyz'`
 FUJITSU_SYS=`uname -p | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
 'abcdefghijklmnopqrstuvwxyz' | sed -e 's/\///'`
 FUJITSU_REL=`echo ${UNAME_RELEASE} | sed -e 's/ /_/'`
 echo "${FUJITSU_PROC}-fujitsu-${FUJITSU_SYS}${FUJITSU_REL}"
 exit ;;
  5000:UNIX_System_V:4.*:*)
 FUJITSU_SYS=`uname -p | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ' 'abcdefghijklmnopqrstuvwxyz' | sed -e
's/\///'`
 FUJITSU_REL=`echo ${UNAME_RELEASE} | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
'abcdefghijklmnopqrstuvwxyz' | sed -e 's/ /_/'`
 echo "sparc-fujitsu-${FUJITSU_SYS}${FUJITSU_REL}"
 exit ;;
  i*86:BSD/386:*:* | i*86:BSD/OS:*:* | *:Ascend\ Embedded/OS:*:*)
 echo ${UNAME_MACHINE}-pc-bsdi${UNAME_RELEASE}
 exit ;;
  sparc*:BSD/OS:*:*)
 echo sparc-unknown-bsdi${UNAME_RELEASE}
 exit ;;
  *:BSD/OS:*:*)
 echo ${UNAME_MACHINE}-unknown-bsdi${UNAME_RELEASE}
 exit ;;
  *:FreeBSD:*:*)
 UNAME_PROCESSOR=`/usr/bin/uname -p`
 case ${UNAME_PROCESSOR} in
    amd64)
  echo x86_64-unknown-freebsd`echo ${UNAME_RELEASE}|sed -e 's/[-(].*//'` ;;
    *)
  echo ${UNAME_PROCESSOR}-unknown-freebsd`echo
${UNAME_RELEASE}|sed -e 's/[-(].*//'` ;;
 esac
 exit ;;
  i*:CYGWIN*:*)
 echo ${UNAME_MACHINE}-pc-cygwin
 exit ;;
  *:MINGW64*:*)
 echo ${UNAME_MACHINE}-pc-mingw64
 exit ;;
  *:MINGW*:*)
 echo ${UNAME_MACHINE}-pc-mingw32
 exit ;;
  i*:MSYS*:*)
 echo ${UNAME_MACHINE}-pc-msys
 exit ;;
  i*:windows32*:*)
```

```
# uname -m includes "-pc" on this system.
echo ${UNAME_MACHINE}-mingw32
exit ;;
 i*:PW*:*)
echo ${UNAME_MACHINE}-pc-pw32
exit ;;
 *:Interix*:*)
case ${UNAME_MACHINE} in
   x86)
 echo i586-pc-interix${UNAME_RELEASE}
 exit ;;
   authenticamd | genuineintel | EM64T)
 echo x86_64-unknown-interix${UNAME_RELEASE}
 exit ;;
   IA64)
 echo ia64-unknown-interix${UNAME_RELEASE}
 exit ;;
esac ;;
 [345]86:Windows_95:* | [345]86:Windows_98:* | [345]86:Windows_NT:*)
echo i${UNAME_MACHINE}-pc-mks
exit ;;
 8664:Windows_NT:*)
echo x86_64-pc-mks
exit ;;
 i*:Windows_NT*:* | Pentium*:Windows_NT*:*)
#
How do we know it's Interix rather than the generic POSIX subsystem?
# It also conflicts with pre-2.0 versions of AT&T UWIN. Should we
# UNAME_MACHINE based on the output of uname instead of i386?
echo i586-pc-interix
exit ;;
 i*:UWIN*:*)
echo ${UNAME_MACHINE}-pc-uwin
exit ;;
 amd64:CYGWIN*:*:* | x86_64:CYGWIN*:*:*)
echo x86_64-unknown-cygwin
exit ;;
 p*:CYGWIN*:*)
echo powerpcle-unknown-cygwin
exit ;;
 prep*:SunOS:5.*:*)
echo powerpcle-unknown-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'`
exit ;;
 *:GNU:*:*)
# the GNU system
echo `echo ${UNAME_MACHINE}|sed -e 's,[-/].*$,,'`-unknown-gnu`echo ${UNAME_RELEASE}|sed -e 's,/.*$,,'`
exit ;;
 *:GNU/*:*:*)
```

```
# other systems with GNU libc and userland
echo ${UNAME_MACHINE}-unknown-`echo ${UNAME_SYSTEM} | sed 's,^[^/]*/,,' | tr '[A-Z]' '[a-z]'``echo
${UNAME_RELEASE}|sed -e 's/[-(].*//'`-gnu
exit ;;
  i*86:Minix:*:*)
echo ${UNAME_MACHINE}-pc-minix
exit ;;
  aarch64:Linux:*:*)
echo
${UNAME_MACHINE}-unknown-linux-gnu
exit ;;
  aarch64_be:Linux:*:*)
UNAME_MACHINE=aarch64_be
echo ${UNAME_MACHINE}-unknown-linux-gnu
exit ;;
  alpha:Linux:*:*)
case `sed -n '/^cpu model/s/^.*: \(.*\)/\1/p' < /proc/cpuinfo` in
  EV5)   UNAME_MACHINE=alphaev5 ;;
  EV56)  UNAME_MACHINE=alphaev56 ;;
  PCA56) UNAME_MACHINE=alphapca56 ;;
  PCA57) UNAME_MACHINE=alphapca56 ;;
  EV6)   UNAME_MACHINE=alphaev6 ;;
  EV67)  UNAME_MACHINE=alphaev67 ;;
  EV68*) UNAME_MACHINE=alphaev68 ;;
esac
objdump --private-headers /bin/sh | grep -q ld.so.1
if test "$?" = 0 ; then LIBC="gnulibc1" ; else LIBC="" ; fi
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  arm*:Linux:*:*)
eval $set_cc_for_build
if echo __ARM_EABI__ | $CC_FOR_BUILD -E - 2>/dev/null \
    | grep -q __ARM_EABI__
then
    echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
else
    if echo __ARM_PCS_VFP | $CC_FOR_BUILD -E - 2>/dev/null \
 | grep -q __ARM_PCS_VFP
    then
 echo
${UNAME_MACHINE}-unknown-linux-gnueabi
    else
 echo ${UNAME_MACHINE}-unknown-linux-gnueabihf
    fi
fi
exit ;;
  avr32*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
```

```
exit ;;
  cris:Linux:*:*)
echo ${UNAME_MACHINE}-axis-linux-${LIBC}
exit ;;
  crisv32:Linux:*:*)
echo ${UNAME_MACHINE}-axis-linux-${LIBC}
exit ;;
  frv:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  hexagon:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  i*86:Linux:*:*)
LIBC=gnu
eval $set_cc_for_build
sed 's/^ //' << EOF >$dummy.c
#ifdef __dietlibc__
LIBC=dietlibc
#endif
EOF
eval `$CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep '^LIBC'`
echo "${UNAME_MACHINE}-pc-linux-${LIBC}"
exit ;;
  ia64:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  m32r*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  m68*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit
;;
  mips:Linux:*:* | mips64:Linux:*:*)
eval $set_cc_for_build
sed 's/^ //' << EOF >$dummy.c
#undef CPU
#undef ${UNAME_MACHINE}
#undef ${UNAME_MACHINE}el
#if defined(__MIPSEL__) || defined(__MIPSEL) || defined(_MIPSEL) || defined(MIPSEL)
CPU=${UNAME_MACHINE}el
#else
#if defined(__MIPSEB__) || defined(__MIPSEB) || defined(_MIPSEB) || defined(MIPSEB)
CPU=${UNAME_MACHINE}
#else
CPU=
#endif
```

```
#endif
EOF
eval `$CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep '^CPU'`
test x"${CPU}" != x && { echo "${CPU}-unknown-linux-${LIBC}"; exit; }
;;
  or32:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  padre:Linux:*:*)
echo sparc-unknown-linux-${LIBC}
exit ;;
  parisc64:Linux:*:* | hppa64:Linux:*:*)
echo hppa64-unknown-linux-${LIBC}
exit ;;
  parisc:Linux:*:* | hppa:Linux:*:*)
# Look for CPU level
case `grep '^cpu[^a-z]*:' /proc/cpuinfo 2>/dev/null | cut -d' ' -f2` in
  PA7*) echo hppa1.1-unknown-linux-${LIBC} ;;
  PA8*)
echo hppa2.0-unknown-linux-${LIBC} ;;
  *)    echo hppa-unknown-linux-${LIBC} ;;
esac
exit ;;
  ppc64:Linux:*:*)
echo powerpc64-unknown-linux-${LIBC}
exit ;;
  ppc:Linux:*:*)
echo powerpc-unknown-linux-${LIBC}
exit ;;
  s390:Linux:*:* | s390x:Linux:*:*)
echo ${UNAME_MACHINE}-ibm-linux
exit ;;
  sh64*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  sh*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  sparc:Linux:*:* | sparc64:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  tile*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  vax:Linux:*:*)
echo ${UNAME_MACHINE}-dec-linux-${LIBC}
exit ;;
  x86_64:Linux:*:*)
```

```
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  xtensa*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  i*86:DYNIX/ptx:4*:*)
# ptx 4.0 does uname -s correctly, with DYNIX/ptx in there.
# earlier versions are messed
up and put the nodename in both
# sysname and nodename.
echo i386-sequent-sysv4
exit ;;
  i*86:UNIX_SV:4.2MP:2.*)
# Unixware is an offshoot of SVR4, but it has its own version
# number series starting with 2...
# I am not positive that other SVR4 systems won't match this,
# I just have to hope.  -- rms.
# Use sysv4.2uw... so that sysv4* matches it.
echo ${UNAME_MACHINE}-pc-sysv4.2uw${UNAME_VERSION}
exit ;;
  i*86:OS/2:*:*)
# If we were able to find `uname', then EMX Unix compatibility
# is probably installed.
echo ${UNAME_MACHINE}-pc-os2-emx
exit ;;
  i*86:XTS-300:*:STOP)
echo ${UNAME_MACHINE}-unknown-stop
exit ;;
  i*86:atheos:*:*)
echo ${UNAME_MACHINE}-unknown-atheos
exit ;;
  i*86:syllable:*:*)
echo ${UNAME_MACHINE}-pc-syllable
exit ;;
  i*86:LynxOS:2.*:* | i*86:LynxOS:3.[01]*:* | i*86:LynxOS:4.[02]*:*)
echo i386-unknown-lynxos${UNAME_RELEASE}
exit ;;
  i*86:*DOS:*:*)
echo ${UNAME_MACHINE}-pc-msdosdjgpp
exit ;;
   i*86:*:4.*:* | i*86:SYSTEM_V:4.*:*)
UNAME_REL=`echo ${UNAME_RELEASE} | sed 's/\/MP$//'`
if grep Novell /usr/include/link.h >/dev/null 2>/dev/null; then
 echo ${UNAME_MACHINE}-univel-sysv${UNAME_REL}
else
 echo ${UNAME_MACHINE}-pc-sysv${UNAME_REL}
fi
exit ;;
```

```
  i*86:*:5:[678]*)
 # UnixWare 7.x, OpenUNIX and OpenServer 6.
 case `/bin/uname -X | grep "^Machine"` in
    *486*)      UNAME_MACHINE=i486 ;;
    *Pentium)      UNAME_MACHINE=i586 ;;
    *Pent*|*Celeron) UNAME_MACHINE=i686 ;;
 esac
 echo ${UNAME_MACHINE}-unknown-
sysv${UNAME_RELEASE}${UNAME_SYSTEM}${UNAME_VERSION}
 exit ;;
  i*86:*:3.2:*)
 if test -f /usr/options/cb.name; then
  UNAME_REL=`sed -n 's/.*Version //p' </usr/options/cb.name`
  echo ${UNAME_MACHINE}-pc-isc$UNAME_REL
 elif /bin/uname -X 2>/dev/null >/dev/null ; then
  UNAME_REL=`(/bin/uname -X|grep Release|sed -e 's/.*= //')`
  (/bin/uname -X|grep i80486 >/dev/null) && UNAME_MACHINE=i486
  (/bin/uname -X|grep '^Machine.*Pentium'
 >/dev/null) \
   && UNAME_MACHINE=i586
  (/bin/uname -X|grep '^Machine.*Pent *II' >/dev/null) \
   && UNAME_MACHINE=i686
  (/bin/uname -X|grep '^Machine.*Pentium Pro' >/dev/null) \
   && UNAME_MACHINE=i686
  echo ${UNAME_MACHINE}-pc-sco$UNAME_REL
 else
  echo ${UNAME_MACHINE}-pc-sysv32
 fi
 exit ;;
  pc:*:*:*)
 # Left here for compatibility:
 # uname -m prints for DJGPP always 'pc', but it prints nothing about
 # the processor, so we play safe by assuming i586.
 # Note: whatever this is, it MUST be the same as what config.sub
 # prints for the "djgpp" host, or else GDB configury will decide that
 # this is a cross-build.
 echo i586-pc-msdosdjgpp
 exit ;;
  Intel:Mach:3*:*)
 echo i386-pc-mach3
 exit ;;
  paragon:*:*:*)
 echo i860-intel-osf1
 exit ;;
  i860:*:4.*:*) # i860-SVR4
 if grep Stardent /usr/include/sys/uadmin.h >/dev/null 2>&1 ; then
  echo i860-stardent-sysv${UNAME_RELEASE} # Stardent Vistra i860-SVR4
 else # Add other i860-SVR4 vendors below
```

```
as they are discovered.
  echo i860-unknown-sysv${UNAME_RELEASE}  # Unknown i860-SVR4
fi
exit ;;
  mini*:CTIX:SYS*5:*)
# "miniframe"
echo m68010-convergent-sysv
exit ;;
  mc68k:UNIX:SYSTEM5:3.51m)
echo m68k-convergent-sysv
exit ;;
  M680?0:D-NIX:5.3:*)
echo m68k-diab-dnix
exit ;;
  M68*:*:R3V[5678]*:*)
test -r /sysV68 && { echo 'm68k-motorola-sysv'; exit; } ;;
  3[345]??:*:4.0:3.0 | 3[34]??A:*:4.0:3.0 | 3[34]??,*:*:4.0:3.0 | 3[34]??/*:*:4.0:3.0 | 4400:*:4.0:3.0 | 4850:*:4.0:3.0 |
SKA40:*:4.0:3.0 | SDS2:*:4.0:3.0 | SHG2:*:4.0:3.0 | S7501*:*:4.0:3.0)
OS_REL=''
test -r /etc/.relid \
&& OS_REL=.`sed -n 's/[^ ]* [^ ]* \([0-9][0-9]\).*/\1/p' < /etc/.relid`
/bin/uname -p 2>/dev/null | grep 86 >/dev/null \
  && { echo i486-ncr-sysv4.3${OS_REL}; exit; }
/bin/uname -p 2>/dev/null | /bin/grep entium >/dev/null \
  && { echo i586-ncr-sysv4.3${OS_REL}; exit; } ;;
  3[34]??:*:4.0:* | 3[34]??,*:*:4.0:*)
/bin/uname -p 2>/dev/null | grep 86 >/dev/null
\
  && { echo i486-ncr-sysv4; exit; } ;;
  NCR*:*:4.2:* | MPRAS*:*:4.2:*)
OS_REL='.3'
test -r /etc/.relid \
    && OS_REL=.`sed -n 's/[^ ]* [^ ]* \([0-9][0-9]\).*/\1/p' < /etc/.relid`
/bin/uname -p 2>/dev/null | grep 86 >/dev/null \
    && { echo i486-ncr-sysv4.3${OS_REL}; exit; }
/bin/uname -p 2>/dev/null | /bin/grep entium >/dev/null \
    && { echo i586-ncr-sysv4.3${OS_REL}; exit; }
/bin/uname -p 2>/dev/null | /bin/grep pteron >/dev/null \
    && { echo i586-ncr-sysv4.3${OS_REL}; exit; } ;;
  m68*:LynxOS:2.*:* | m68*:LynxOS:3.0*:*)
echo m68k-unknown-lynxos${UNAME_RELEASE}
exit ;;
  mc68030:UNIX_System_V:4.*:*)
echo m68k-atari-sysv4
exit ;;
  TSUNAMI:LynxOS:2.*:*)
echo sparc-unknown-lynxos${UNAME_RELEASE}
exit ;;
```

```
  rs6000:LynxOS:2.*:*)
echo rs6000-unknown-lynxos${UNAME_RELEASE}
exit ;;
  PowerPC:LynxOS:2.*:* | PowerPC:LynxOS:3.[01]*:* | PowerPC:LynxOS:4.[02]*:*)
echo powerpc-unknown-lynxos${UNAME_RELEASE}
exit ;;

 SM[BE]S:UNIX_SV:*:*)
echo mips-dde-sysv${UNAME_RELEASE}
exit ;;
  RM*:ReliantUNIX-*:*:*)
echo mips-sni-sysv4
exit ;;
  RM*:SINIX-*:*:*)
echo mips-sni-sysv4
exit ;;
  *:SINIX-*:*:*)
if uname -p 2>/dev/null >/dev/null ; then
 UNAME_MACHINE=`(uname -p) 2>/dev/null`
 echo ${UNAME_MACHINE}-sni-sysv4
else
 echo ns32k-sni-sysv
fi
exit ;;
  PENTIUM:*:4.0*:*) # Unisys `ClearPath HMP IX 4000' SVR4/MP effort
  # says <Richard.M.Bartel@ccMail.Census.GOV>
echo i586-unisys-sysv4
exit ;;
  *:UNIX_System_V:4*:FTX*)
# From Gerald Hewes <hewes@openmarket.com>.
# How about differentiating between stratus architectures? -djm
echo hppa1.1-stratus-sysv4
exit ;;
  *:*:*:FTX*)
# From seanf@swdc.stratus.com.
echo i860-stratus-sysv4
exit ;;
  i*86:VOS:*:*)
# From Paul.Green@stratus.com.
echo ${UNAME_MACHINE}-stratus-vos
exit ;;
  *:VOS:*:*)
# From Paul.Green@stratus.com.
echo hppa1.1-stratus-vos
exit ;;
  mc68*:A/UX:*:*)
echo
```

```
m68k-apple-aux${UNAME_RELEASE}
exit ;;
  news*:NEWS-OS:6*:*)
echo mips-sony-newsos6
exit ;;
  R[34]000:*System_V*:*:* | R4000:UNIX_SYSV:*:* | R*000:UNIX_SV:*:*)
if [ -d /usr/nec ]; then
 echo mips-nec-sysv${UNAME_RELEASE}
else
 echo mips-unknown-sysv${UNAME_RELEASE}
fi
exit ;;
  BeBox:BeOS:*:*) # BeOS running on hardware made by Be, PPC only.
echo powerpc-be-beos
exit ;;
  BeMac:BeOS:*:*) # BeOS running on Mac or Mac clone, PPC only.
echo powerpc-apple-beos
exit ;;
  BePC:BeOS:*:*) # BeOS running on Intel PC compatible.
echo i586-pc-beos
exit ;;
  BePC:Haiku:*:*) # Haiku running on Intel PC compatible.
echo i586-pc-haiku
exit ;;
  x86_64:Haiku:*:*)
echo x86_64-unknown-haiku
exit ;;
  SX-4:SUPER-UX:*:*)
echo sx4-nec-superux${UNAME_RELEASE}
exit ;;
  SX-5:SUPER-UX:*:*)
echo sx5-nec-superux${UNAME_RELEASE}
exit ;;
  SX-6:SUPER-UX:*:*)
echo sx6-nec-superux${UNAME_RELEASE}
exit ;;
  SX-7:SUPER-UX:*:*)
echo
sx7-nec-superux${UNAME_RELEASE}
exit ;;
  SX-8:SUPER-UX:*:*)
echo sx8-nec-superux${UNAME_RELEASE}
exit ;;
  SX-8R:SUPER-UX:*:*)
echo sx8r-nec-superux${UNAME_RELEASE}
exit ;;
  Power*:Rhapsody:*:*)
echo powerpc-apple-rhapsody${UNAME_RELEASE}
```

```
exit ;;
  *:Rhapsody:*:*)
echo ${UNAME_MACHINE}-apple-rhapsody${UNAME_RELEASE}
exit ;;
  *:Darwin:*:*)
UNAME_PROCESSOR=`uname -p` || UNAME_PROCESSOR=unknown
case $UNAME_PROCESSOR in
    i386)
 eval $set_cc_for_build
 if [ "$CC_FOR_BUILD" != 'no_compiler_found' ]; then
   if (echo '#ifdef __LP64__'; echo IS_64BIT_ARCH; echo '#endif') | \
       (CCOPTS= $CC_FOR_BUILD -E - 2>/dev/null) | \
       grep IS_64BIT_ARCH >/dev/null
   then
       UNAME_PROCESSOR="x86_64"
   fi
 fi ;;
    unknown) UNAME_PROCESSOR=powerpc ;;
esac
echo ${UNAME_PROCESSOR}-apple-darwin${UNAME_RELEASE}
exit ;;
  *:procnto*:*:* | *:QNX:[0123456789]*:*)
UNAME_PROCESSOR=`uname -p`
if test "$UNAME_PROCESSOR" =
"x86"; then
 UNAME_PROCESSOR=i386
 UNAME_MACHINE=pc
fi
echo ${UNAME_PROCESSOR}-${UNAME_MACHINE}-nto-qnx${UNAME_RELEASE}
exit ;;
  *:QNX:*:4*)
echo i386-pc-qnx
exit ;;
  NEO-?:NONSTOP_KERNEL:*:*)
echo neo-tandem-nsk${UNAME_RELEASE}
exit ;;
  NSE-*:NONSTOP_KERNEL:*:*)
echo nse-tandem-nsk${UNAME_RELEASE}
exit ;;
  NSR-?:NONSTOP_KERNEL:*:*)
echo nsr-tandem-nsk${UNAME_RELEASE}
exit ;;
  *:NonStop-UX:*:*)
echo mips-compaq-nonstopux
exit ;;
  BS2000:POSIX*:*:*)
echo bs2000-siemens-sysv
exit ;;
```

```
  DS/*:UNIX_System_V:*:*)
echo ${UNAME_MACHINE}-${UNAME_SYSTEM}-${UNAME_RELEASE}
exit ;;
  *:Plan9:*:*)
# "uname -m" is not consistent, so use $cputype instead. 386
# is converted to i386 for consistency with other x86
# operating systems.
if test "$cputype" = "386"; then
    UNAME_MACHINE=i386
else
    UNAME_MACHINE="$cputype"
fi
echo ${UNAME_MACHINE}-unknown-plan9
exit ;;
  *:TOPS-10:*:*)
echo pdp10-unknown-tops10
exit
;;
  *:TENEX:*:*)
echo pdp10-unknown-tenex
exit ;;
  KS10:TOPS-20:*:* | KL10:TOPS-20:*:* | TYPE4:TOPS-20:*:*)
echo pdp10-dec-tops20
exit ;;
  XKL-1:TOPS-20:*:* | TYPE5:TOPS-20:*:*)
echo pdp10-xkl-tops20
exit ;;
  *:TOPS-20:*:*)
echo pdp10-unknown-tops20
exit ;;
  *:ITS:*:*)
echo pdp10-unknown-its
exit ;;
  SEI:*:*:SEIUX)
echo mips-sei-seiux${UNAME_RELEASE}
exit ;;
  *:DragonFly:*:*)
echo ${UNAME_MACHINE}-unknown-dragonfly`echo ${UNAME_RELEASE}|sed -e 's/[-(].*//'`
exit ;;
  *:*VMS:*:*)
UNAME_MACHINE=`(uname -p) 2>/dev/null`
case "${UNAME_MACHINE}" in
    A*) echo alpha-dec-vms ; exit ;;
    I*) echo ia64-dec-vms ; exit ;;
    V*) echo vax-dec-vms ; exit ;;
esac ;;
  *:XENIX:*:SysV)
echo i386-pc-xenix
```

```
 exit ;;
  i*86:skyos:*:*)
 echo ${UNAME_MACHINE}-pc-skyos`echo ${UNAME_RELEASE}` | sed -e 's/ .*$//'
 exit ;;
  i*86:rdos:*:*)
 echo ${UNAME_MACHINE}-pc-rdos
 exit ;;
  i*86:AROS:*:*)
 echo ${UNAME_MACHINE}-pc-aros
 exit
 ;;
  x86_64:VMkernel:*:*)
 echo ${UNAME_MACHINE}-unknown-esx
 exit ;;
esac

eval $set_cc_for_build
cat >$dummy.c <<EOF
#ifdef _SEQUENT_
# include <sys/types.h>
# include <sys/utsname.h>
#endif
main ()
{
#if defined (sony)
#if defined (MIPSEB)
 /* BFD wants "bsd" instead of "newsos".  Perhaps BFD should be changed,
    I don't know....  */
 printf ("mips-sony-bsd\n"); exit (0);
#else
#include <sys/param.h>
 printf ("m68k-sony-newsos%s\n",
#ifdef NEWSOS4
 "4"
#else
 ""
#endif
 ); exit (0);
#endif
#endif

#if defined (__arm) && defined (__acorn) && defined (__unix)
 printf ("arm-acorn-riscix\n"); exit (0);
#endif

#if defined (hp300) && !defined (hpux)
 printf ("m68k-hp-bsd\n"); exit (0);
#endif
```

```
#if defined (NeXT)
#if !defined (__ARCHITECTURE__)
#define __ARCHITECTURE__ "m68k"
#endif
 int version;
 version=`(hostinfo | sed -n 's/.*NeXT Mach \([0-9]*\).*/\1/p') 2>/dev/null`;
 if (version < 4)
   printf ("%s-next-nextstep%d\n",
 __ARCHITECTURE__, version);
 else
   printf ("%s-next-openstep%d\n", __ARCHITECTURE__, version);
 exit (0);
#endif

#if defined (MULTIMAX) || defined (n16)
#if defined (UMAXV)
 printf ("ns32k-encore-sysv\n"); exit (0);
#else
#if defined (CMU)
 printf ("ns32k-encore-mach\n"); exit (0);
#else
 printf ("ns32k-encore-bsd\n"); exit (0);
#endif
#endif
#endif

#if defined (__386BSD__)
 printf ("i386-pc-bsd\n"); exit (0);
#endif

#if defined (sequent)
#if defined (i386)
 printf ("i386-sequent-dynix\n"); exit (0);
#endif
#if defined (ns32000)
 printf ("ns32k-sequent-dynix\n"); exit (0);
#endif
#endif

#if defined (_SEQUENT_)
   struct utsname un;

   uname(&un);

   if (strncmp(un.version, "V2", 2) == 0) {
 printf ("i386-sequent-ptx2\n"); exit (0);
   }
```

```
   if (strncmp(un.version, "V1", 2) == 0) { /* XXX is V1 correct? */
 printf ("i386-sequent-ptx1\n"); exit (0);
   }
   printf ("i386-sequent-ptx\n"); exit (0);

#endif

#if
 defined (vax)
# if !defined (ultrix)
#  include <sys/param.h>
#  if defined (BSD)
#   if BSD == 43
     printf ("vax-dec-bsd4.3\n"); exit (0);
#   else
#    if BSD == 199006
     printf ("vax-dec-bsd4.3reno\n"); exit (0);
#    else
     printf ("vax-dec-bsd\n"); exit (0);
#    endif
#   endif
#  else
   printf ("vax-dec-bsd\n"); exit (0);
#  endif
# else
   printf ("vax-dec-ultrix\n"); exit (0);
# endif
#endif

#if defined (alliant) && defined (i860)
 printf ("i860-alliant-bsd\n"); exit (0);
#endif

 exit (1);
}
EOF

$CC_FOR_BUILD -o $dummy $dummy.c 2>/dev/null && SYSTEM_NAME=`$dummy` &&
 { echo "$SYSTEM_NAME"; exit; }

# Apollos put the system type in the environment.

test -d /usr/apollo && { echo ${ISP}-apollo-${SYSTYPE}; exit; }

# Convex versions that predate uname can use getsysinfo(1)

if [ -x /usr/convex/getsysinfo ]
then
```

```
  case `getsysinfo -f cpu_type` in
  c1*)
 echo c1-convex-bsd
 exit ;;
  c2*)
 if getsysinfo
 -f scalar_acc
 then echo c32-convex-bsd
 else echo c2-convex-bsd
 fi
 exit ;;
  c34*)
 echo c34-convex-bsd
 exit ;;
  c38*)
 echo c38-convex-bsd
 exit ;;
  c4*)
 echo c4-convex-bsd
 exit ;;
  esac
fi

cat >&2 <<EOF
$0: unable to guess system type

This script, last modified $timestamp, has failed to recognize
the operating system you are using. It is advised that you
download the most up to date version of the config scripts from

 http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob_plain;f=config.guess;hb=HEAD
and
 http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob_plain;f=config.sub;hb=HEAD

If the version you run ($0) is already up to date, please
send the following data and any information you think might be
pertinent to <config-patches@gnu.org> in order to provide the needed
information to handle your system.

config.guess timestamp = $timestamp

uname -m = `(uname -m) 2>/dev/null || echo unknown`
uname -r = `(uname -r) 2>/dev/null
 || echo unknown`
uname -s = `(uname -s) 2>/dev/null || echo unknown`
uname -v = `(uname -v) 2>/dev/null || echo unknown`

/usr/bin/uname -p = `(/usr/bin/uname -p) 2>/dev/null`
```

```
/bin/uname -X     = `(/bin/uname -X) 2>/dev/null`

hostinfo               = `(hostinfo) 2>/dev/null`
/bin/universe          = `(/bin/universe) 2>/dev/null`
/usr/bin/arch -k       = `(/usr/bin/arch -k) 2>/dev/null`
/bin/arch              = `(/bin/arch) 2>/dev/null`
/usr/bin/oslevel       = `(/usr/bin/oslevel) 2>/dev/null`
/usr/convex/getsysinfo = `(/usr/convex/getsysinfo) 2>/dev/null`

UNAME_MACHINE = ${UNAME_MACHINE}
UNAME_RELEASE = ${UNAME_RELEASE}
UNAME_SYSTEM  = ${UNAME_SYSTEM}
UNAME_VERSION = ${UNAME_VERSION}
EOF

exit 1

# Local variables:
# eval: (add-hook 'write-file-hooks 'time-stamp)
# time-stamp-start: "timestamp='"
# time-stamp-format: "%:y-%02m-%02d"
# time-stamp-end: "'"
# End:
```

1.8 tcp-wrappers 7.6

1.8.1 Available under license :

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1.9 zip 3.0

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Format stream_lf

1.10 dmalloc 5.5.2

1.11 net-snmp 5.8

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1.13 pkg-config 0.29.2

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1.17 luajit 2.1.0

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1.18 libusb-compat 0.1.7

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1.19 libcheck 0.15.2

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Version 3, 29 June 2007

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1.22 libpciaccess 0.16

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1.23 lmdb 0.9.24

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1.24 lm-sensors 3.6.0

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1.25 json-net 0.17.0

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request #1136](https://github.com/zeromq/libzmq/pull/1136), [GitHub Pull
request #1138](https://github.com/zeromq/libzmq/pull/1138), and
[GitHub Pull request #1139](https://github.com/zeromq/libzmq/pull/1139))
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1.32 sdparm 1.12

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It was downloaded from https://sg.danny.cz/sg/p/sdparm-0.93.tgz

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1.33 more-itertools 8.12.0

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1.34 importlib-metadata 4.11.1

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1.35 tomcat-connectors 1.2.40

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

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp_common.c') +
```

```
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

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

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

  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
```

```
        'USE_APACHE_MD5' '_REENTRANT') +
    TEXT('jk_ajp14.c') +
    OPTIMIZE(40) +
    LOCALETYPE(*LOCALE) +
    SYSIFCOPT(*IFSIO) +
    LANGLVL(*EXTENDED) +
    TGTRLS(*CURRENT) +
    INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

  CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
    SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +

   DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
        'USE_APACHE_MD5' '_REENTRANT' 'USE_SO_RCVTIMEO' +
        'USE_SO_SNDTIMEO' ) +
    TEXT('jk_connect.c') +
    OPTIMIZE(40) +
    LOCALETYPE(*LOCALE) +
    SYSIFCOPT(*IFSIO) +
    LANGLVL(*EXTENDED) +
    TGTRLS(*CURRENT) +
    INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

  CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
```

```
  SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_lb_worker.c') +

  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

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

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

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

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

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

CRTCMOD MODULE(MOD_JK/JK_URL) +
  SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_url.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common'
```

```
 '/QIBM/ProdData/HTTPA/Include')

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

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

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

CRTCMOD MODULE(MOD_JK/JK_SHM) +
  SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_shm.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
```

```
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
    MODULE(MOD_JK/MOD_JK +
          MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
          MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
          MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
          MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
          MOD_JK/JK_LB_WORK +
          MOD_JK/JK_MAP MOD_JK/JK_MD5
 +
          MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
          MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
          MOD_JK/JK_URL +
          MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
          MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
    EXPORT(*SRCFILE) +
    BNDDIR() +
    TGTRLS(*CURRENT) +
    SRCFILE(MOD_JK/QSRVSRC) +
    SRCMBR(MOD_JK) +
    USRPRF(*USER) +
    BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
            QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
    TEXT('Apache Tomcat mod_jk connector module')

ENDPGM
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!IFDEF APACHE20_HOME
APR_LIB=libapr.lib
APU_LIB=libaprutil.lib
OUTDIR=.\Release20
INTDIR=.\Release20
```

```
APACHE2_HOME=$(APACHE20_HOME)
!ELSE
!IFDEF APACHE24_HOME
APACHE2_HOME=$(APACHE24_HOME)
OUTDIR=.\Release24
INTDIR=.\Release24
!ELSE
!IFDEF
 APACHE22_HOME
APACHE2_HOME=$(APACHE22_HOME)
OUTDIR=.\Release22
INTDIR=.\Release22
!ENDIF
!ENDIF
APR_LIB=libapr-1.lib
APU_LIB=libaprutil-1.lib
!ENDIF
!IFNDEF APACHE2_HOME
!ERROR Missing APACHE2_HOME environment variable.
!ENDIF

TARGET=mod_jk$(SO_VERSION)$(SO_HTTPD_VERSION)
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe
ARCH=X86

ALL : "$(OUTDIR)\$(TARGET).so"


CLEAN :
 -@erase "$(INTDIR)\jk.res"
 -@erase "$(INTDIR)\jk_ajp12_worker.obj"
 -@erase "$(INTDIR)\jk_ajp13.obj"
 -@erase "$(INTDIR)\jk_ajp13_worker.obj"
 -@erase "$(INTDIR)\jk_ajp14.obj"
 -@erase "$(INTDIR)\jk_ajp14_worker.obj"
 -@erase "$(INTDIR)\jk_ajp_common.obj"
 -@erase "$(INTDIR)\jk_connect.obj"
 -@erase "$(INTDIR)\jk_context.obj"
 -@erase "$(INTDIR)\jk_lb_worker.obj"
 -@erase "$(INTDIR)\jk_map.obj"
 -@erase "$(INTDIR)\jk_md5.obj"
 -@erase "$(INTDIR)\jk_msg_buff.obj"
 -@erase "$(INTDIR)\jk_pool.obj"
 -@erase "$(INTDIR)\jk_shm.obj"
 -@erase "$(INTDIR)\jk_sockbuf.obj"
 -@erase "$(INTDIR)\jk_status.obj"
```

```
 -@erase "$(INTDIR)\jk_uri_worker_map.obj"
 -@erase
 "$(INTDIR)\jk_url.obj"
 -@erase "$(INTDIR)\jk_util.obj"
 -@erase "$(INTDIR)\jk_worker.obj"
 -@erase "$(INTDIR)\mod_jk.obj"
 -@erase "$(INTDIR)\mod_jk_src.idb"
 -@erase "$(INTDIR)\mod_jk_src.pdb"
 -@erase "$(OUTDIR)\mod_jk.exp"
 -@erase "$(OUTDIR)\mod_jk.lib"
 -@erase "$(OUTDIR)\$(TARGET).pdb"
 -@erase "$(OUTDIR)\$(TARGET).so"

"$(OUTDIR)" :
   if not exist "$(OUTDIR)/$(NULL)" mkdir "$(OUTDIR)"

BSC32=bscmake.exe
BSC32_FLAGS=/nologo /o"$(OUTDIR)\$(TARGET).bsc"
BSC32_SBRS= \

LINK32=link.exe
LINK32_FLAGS=libhttpd.lib $(APR_LIB) $(APU_LIB) kernel32.lib user32.lib advapi32.lib mswsock.lib
ws2_32.lib $(EXTRA_LIBS) /nologo /base:"0x6A6B0000" /subsystem:windows /dll /incremental:no
/pdb:"$(OUTDIR)\$(TARGET).pdb" /debug /machine:$(ARCH) /out:"$(OUTDIR)\$(TARGET).so"
/implib:"$(OUTDIR)\mod_jk.lib" /libpath:"$(APACHE2_HOME)\lib" /opt:ref
LINK32_OBJS= \
 "$(INTDIR)\jk_ajp12_worker.obj" \
 "$(INTDIR)\jk_ajp13.obj" \
 "$(INTDIR)\jk_ajp13_worker.obj" \
 "$(INTDIR)\jk_ajp14.obj"
 \
 "$(INTDIR)\jk_ajp14_worker.obj" \
 "$(INTDIR)\jk_ajp_common.obj" \
 "$(INTDIR)\jk_connect.obj" \
 "$(INTDIR)\jk_context.obj" \
 "$(INTDIR)\jk_lb_worker.obj" \
 "$(INTDIR)\jk_map.obj" \
 "$(INTDIR)\jk_md5.obj" \
 "$(INTDIR)\jk_msg_buff.obj" \
 "$(INTDIR)\jk_pool.obj" \
 "$(INTDIR)\jk_shm.obj" \
 "$(INTDIR)\jk_sockbuf.obj" \
 "$(INTDIR)\jk_status.obj" \
 "$(INTDIR)\jk_uri_worker_map.obj" \
 "$(INTDIR)\jk_url.obj" \
 "$(INTDIR)\jk_util.obj" \
 "$(INTDIR)\jk_worker.obj" \
 "$(INTDIR)\jk.res" \
```

```
 "$(INTDIR)\mod_jk.obj"

"$(OUTDIR)\$(TARGET).so" : "$(OUTDIR)" $(DEF_FILE) $(LINK32_OBJS)
   $(LINK32) @<<
 $(LINK32_FLAGS) $(LINK32_OBJS)
<<
 @IF EXIST $(OUTDIR)\$(TARGET).manifest \
  mt -nologo -manifest $(OUTDIR)\$(TARGET).manifest -outputresource:$(OUTDIR)\$(TARGET).so;2


CPP_PROJ=-nologo -MD -W3 -O2 -Ob2 -Oy- -Zi -EHsc /I "..\common" /I "$(APACHE2_HOME)\include" /D
"NDEBUG" /D "WIN32" /D "_WINDOWS" $(CFLAGS) /Fo"$(INTDIR)\\" /Fd"$(INTDIR)\mod_jk_src" /FD /c

.c{$(INTDIR)}.obj::
   $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.c{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

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

SOURCE=..\common\jk.rc
```

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


SOURCE=..\common\jk_ajp12_worker.c

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


SOURCE=..\common\jk_ajp13.c

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


SOURCE=..\common\jk_ajp13_worker.c

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


SOURCE=..\common\jk_ajp14.c

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


SOURCE=..\common\jk_ajp14_worker.c

"$(INTDIR)\jk_ajp14_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp_common.c

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


SOURCE=..\common\jk_connect.c

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


SOURCE=..\common\jk_context.c
```

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


SOURCE=..\common\jk_lb_worker.c

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


SOURCE=..\common\jk_map.c

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


SOURCE=..\common\jk_md5.c

"$(INTDIR)\jk_md5.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_msg_buff.c

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


SOURCE=..\common\jk_pool.c

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


SOURCE=..\common\jk_shm.c

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


SOURCE=..\common\jk_sockbuf.c

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

SOURCE=..\common\jk_status.c

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

SOURCE=..\common\jk_uri_worker_map.c

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

SOURCE=..\common\jk_url.c

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

SOURCE=..\common\jk_util.c

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

SOURCE=..\common\jk_worker.c

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

SOURCE=.\mod_jk.c

"$(INTDIR)\mod_jk.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)
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Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,
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From native/common/ap_snprintf.c:

```
*
* cvt - IEEE floating point formatting routines.
*       Derived from UNIX V7, Copyright(C) Caldera International Inc.
*
```

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#

#
# NetWare Makefile for mod_jk (uses build system of Apache 2.x - gnu make)
# created by Guenter Knauf <fuankg@apache.org>
#

#
# Declare the sub-directories to be built here
#

SUBDIRS = \
 $(EOLIST)

#
# Get the
 'head' of the build environment.  This includes default targets and
# paths to tools
```

```
#

include $(AP_WORK)/build/NWGNUhead.inc

#
# build this level's files

#
# Make sure all needed macro's are defined
#

JKCOMMON = ../common

#
# These directories will be at the beginning of the include list, followed by
# INCDIRS
#
XINCDIRS += \
  $(JKCOMMON) \
  $(APR)/include \
  $(APRUTIL)/include \
  $(AP_WORK)/include \
  $(NWOS) \
  $(EOLIST)

#
# These flags will come after CFLAGS
#
XCFLAGS  += \
  $(EOLIST)

#
# These defines will come after DEFINES
#
XDEFINES += \
  -D__NOVELL_LIBC__ \
  -D_POSIX_SOURCE \
  $(EOLIST)

#
# These flags will be added to the link.opt file
#
XLFLAGS  += \
  $(EOLIST)

#
# These values will be appended to the correct variables based on the value of
# RELEASE
```

```
#
ifeq "$(RELEASE)" "debug"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

ifeq "$(RELEASE)" "noopt"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  +=
 \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

ifeq "$(RELEASE)" "release"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

#
# These are used by the link target if an NLM is being generated
# This is used by the link 'name' directive to name the nlm.  If left blank
# TARGET_nlm (see below) will be used.
```

```
#
NLM_NAME = mod_jk

#
# This is used by the link '-desc ' directive.
# If left blank, NLM_NAME will be used.
#
NLM_DESCRIPTION = Apache $(VERSION_STR) plugin for Tomcat $(JK_VERSION_STR)

#
# This is used by the link '-copy ' directive.
# If left blank, the ASF copyright defined in NWGNUtail.inc will be used.
#
NLM_COPYRIGHT =

#
# This is used by the '-threadname' directive.  If left blank,
# NLM_NAME Thread will be used.
#
NLM_THREAD_NAME = JK Module

#
# If this is specified, it will override VERSION value in
# $(AP_WORK)\build\NWGNUenvironment.inc
#
NLM_VERSION = $(JK_VERSION)

#
#
 If this is specified, it will override the default of 64K
#
NLM_STACK_SIZE = 49152


#
# If this is specified it will be used by the link '-entry' directive
#
NLM_ENTRY_SYM = _LibCPrelude

#
# If this is specified it will be used by the link '-exit' directive
#
NLM_EXIT_SYM = _LibCPostlude

#
# If this is specified it will be used by the link '-check' directive
#
NLM_CHECK_SYM =
```

```
#
# If these are specified it will be used by the link '-flags' directive
#
NLM_FLAGS = AUTOUNLOAD, PSEUDOPREEMPTION

#
# If this is specified it will be linked in with the XDCData option in the def
# file instead of the default of $(NWOS)/apache.xdc.  XDCData can be disabled
# by setting APACHE_UNIPROC in the environment
#
XDCDATA  =

#
# If there is an NLM target, put it here
#
TARGET_nlm = \
 $(OBJDIR)/$(NLM_NAME).nlm \
 $(EOLIST)

#
# If there is an LIB target, put it here
#
TARGET_lib = \
 $(EOLIST)

#
# These are the OBJ files needed to create the NLM target above.
# Paths must all use the
 '/' character
#
FILES_nlm_objs = \
 $(OBJDIR)/jk_nwmain.o \
 $(OBJDIR)/jk_ajp12_worker.o \
 $(OBJDIR)/jk_ajp13.o \
 $(OBJDIR)/jk_ajp13_worker.o \
 $(OBJDIR)/jk_ajp14.o \
 $(OBJDIR)/jk_ajp14_worker.o \
 $(OBJDIR)/jk_ajp_common.o \
 $(OBJDIR)/jk_connect.o \
 $(OBJDIR)/jk_context.o \
 $(OBJDIR)/jk_lb_worker.o \
 $(OBJDIR)/jk_map.o \
 $(OBJDIR)/jk_md5.o \
 $(OBJDIR)/jk_msg_buff.o \
 $(OBJDIR)/jk_pool.o \
 $(OBJDIR)/jk_shm.o \
 $(OBJDIR)/jk_sockbuf.o \
```

```
 $(OBJDIR)/jk_status.o \
 $(OBJDIR)/jk_uri_worker_map.o \
 $(OBJDIR)/jk_url.o \
 $(OBJDIR)/jk_util.o \
 $(OBJDIR)/jk_worker.o \
 $(OBJDIR)/mod_jk.o \
 $(EOLIST)

#
# These are the LIB files needed to create the NLM target above.
# These will be added as a library command in the link.opt file.
#
FILES_nlm_libs = \
 $(NOVELLLIBC)/imports/libcpre.o \
 $(EOLIST)

#
# These are the modules that the above NLM target depends on to load.
# These will be added as a module command in the link.opt file.
#
FILES_nlm_modules = \
 aprlib \
 libc \
 $(EOLIST)

#
#
 If the nlm has a msg file, put it's path here
#
FILE_nlm_msg =

#
# If the nlm has a hlp file put it's path here
#
FILE_nlm_hlp =

#
# If this is specified, it will override $(NWOS)\copyright.txt.
#
FILE_nlm_copyright =

#
# Any additional imports go here
#
FILES_nlm_Ximports = \
 @aprlib.imp \
 @httpd.imp \
 @libc.imp \
```

```
 @ws2nlm.imp \
 $(EOLIST)

#
# Any symbols exported to here
#
FILES_nlm_exports = \
 jk_module \
 $(EOLIST)

#
# These are the OBJ files needed to create the LIB target above.
# Paths must all use the '/' character
#
FILES_lib_objs = \
 $(EOLIST)

#
# implement targets and dependancies (leave this section alone)
#

libs :: $(OBJDIR) $(TARGET_lib)

nlms :: libs $(TARGET_nlm)

#
# Updated this target to create necessary directories and copy files to the
# correct place.  (See $(AP_WORK)\build\NWGNUhead.inc for examples)
#
install :: nlms FORCE
 copy $(OBJDIR)\*.nlm $(INSTALL)\Apache2\modules\*.*

#
# Any specialized rules here
#

vpath %.c $(JKCOMMON)

$(OBJDIR)/version.inc:
 $(JKCOMMON)/jk_version.h $(OBJDIR)
 @echo Creating $@
 @awk -f ../../support/get_ver.awk $< > $@



#
# Include the version info retrieved from jk_version.h
#
```

```
-include $(OBJDIR)/version.inc

#
# Include the 'tail' makefile that has targets that depend on variables defined
# in this makefile
#

include $(AP_WORK)/build/NWGNUtail.inc
```

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

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp_common.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
```

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

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

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

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

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
```

```
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

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

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
  SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_context.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED)
```

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

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

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

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

 CRTCMOD MODULE(MOD_JK/JK_MSG_BUF) +
   SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
   DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
```

```
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_msg_buff.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

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

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
  SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT')
 +
  TEXT('jk_uri_worker_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
```

```
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
  SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_util.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +

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

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

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
  SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_status.c') +
  OPTIMIZE(40) +
```

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

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

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
    MODULE(MOD_JK/MOD_JK +
         MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
         MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
         MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
         MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
         MOD_JK/JK_LB_WORK +
         MOD_JK/JK_MAP MOD_JK/JK_MD5 +
         MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
         MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
         MOD_JK/JK_URL +
         MOD_JK/JK_UTIL MOD_JK/JK_WORKER +

   MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
    EXPORT(*SRCFILE) +
    BNDDIR() +
    TGTRLS(*CURRENT) +
    SRCFILE(MOD_JK/QSRVSRC) +
    SRCMBR(MOD_JK) +
    USRPRF(*USER) +
    BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
          QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
    TEXT('Apache Tomcat mod_jk connector module')

ENDPGM
```

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1.39 pinentry 1.2.0

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1.41 hd-parm 9.63

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1.46 libcroco 0.6.13

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

Name: libcroco
Summary: A CSS2 parsing library
Version: 0.6.13
Release: 1
License: LGPLv2
Source: http://download.gnome.org/sources/libcroco/0.6/%{name}-%{version}.tar.xz

Patch1: 0001-Disable-gtkdoc.patch

BuildRequires: pkgconfig
BuildRequires: glib2-devel
BuildRequires: libxml2-devel

```
%description
CSS2 parsing and manipulation library for GNOME

%package devel
Summary:        Libraries and include files for developing with libcroco
Requires:       %{name} = %{version}-%{release}

%description devel
This package provides the necessary development libraries and include
files to allow you to develop with libcroco.

%prep
%setup -q -n %{name}-%{version}/%{name}
%patch1 -p1

%build
./autogen.sh --disable-static --prefix=%{_prefix}
make %{?_smp_mflags} CFLAGS="$CFLAGS -fno-strict-aliasing"

%install
%make_install
find $RPM_BUILD_ROOT -name
 '*.la' -exec rm -f {} ';'

%check
make check

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%files
%license COPYING COPYING.LIB
%doc AUTHORS NEWS README
%{_bindir}/csslint-0.6
%{_libdir}/*.so.*

%files devel
%{_libdir}/*.so
%{_includedir}/libcroco-0.6
%{_bindir}/croco-0.6-config
%{_libdir}/pkgconfig/libcroco-0.6.pc

Found in path(s):
* /sailfishos-libcroco-0-6-13-0-g1d0b526-tar-gz/sailfishos-libcroco-1d0b526/rpm/libcroco.spec
```

1.47 berkeley-db 5.3.28

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* Id
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1.49 unzip 6.0

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  *
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  *
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May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

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and by default

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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
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1.50 time 1.9

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1.51 base-files 3.0.14

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1.53 lzo 2.10

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1.57 sysvinit-inittab 2.88dsf

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Found in path(s):
* /sysvinit-inittab-2.88dsf-r10.0.src.rpm-cosi-expand-archive-qTgsRCyW/sysvinit-inittab.spec

1.58 update-rc-d 0.8

1.58.1 Available under license :

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

usage()
{
 cat >&2 <<EOF
usage: update-rc.d [-n] [-f] [-r <root>] <basename> remove
     update-rc.d [-n] [-r <root>] [-s] <basename> defaults [NN | sNN kNN]
     update-rc.d [-n] [-r <root>] [-s] <basename> start|stop NN runlvl [runlvl] [...] .
  -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 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."
  if [ $dostart -eq 1 ] && [ $notreally -eq 0 ] && [ -L ${etcd}${RUNLEVEL}.d/S??${bn} ]; then
   ${etcd}${RUNLEVEL}.d/S??${bn} restart || true
  fi
  exit 0
```

```
 fi

 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
   ;;
  *)
   break
   ;;
 esac
```

```
done

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

   sn="$linksn"
   case
 "$sn" in
    /*) sn="$root$sn" ;;
    *)  sn="$initd/$sn" ;;
   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 exists during rc.d purge (continuing)" >&2
  else
   echo "update-rc.d: $initd/$bn exists during rc.d purge (use -f to force)" >&2
   exit 1
  fi
 fi
fi
```

```
if [ $dostart -eq 1 ]; then
 #RUNLEVEL=`sed 's/.*\[\(.*\)\]/\1/' < /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
```

Found in path(s):
* /update-rc-d-0-8-e8e1267e-d911-11ea-8a10-0487ae13f3ca-tgz/update-rc-d-0-8-22e0692898-tar-bz2/update-rc.d-0.8-22e0692898/git/update-rc.d

1.59 talloc 2.3.3

1.59.1 Available under license :

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1.63 freeradius-client 1.1.5

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Mon, 15 Nov 2004 12:20:42 +0100.

The debian package files have been derived from the original
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It was downloaded from ftp.cityline.net/pub/radiusclient/

Upstream Author(s): Lars Fenneberg <lf@elemental.net>

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1.64 python3-future 0.18.2

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1.65 python-ply 3.11

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PLY (Python Lex-Yacc) Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex
and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY
  to be similar.

- PLY provides *very* extensive error reporting and diagnostic
  information to assist in parser construction. The original
  implementation was developed for instructional purposes. As
  a result, the system tries to identify the most common types
  of errors made by novice users.

- PLY provides full support for empty productions, error recovery,
  precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
  better suited to large grammars, and which has a number of nice
  properties when dealing with syntax errors and other parsing problems.
  Currently, PLY builds its parsing tables using the LALR(1)
  algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers.
  This greatly simplifies the task of parser construction since it reduces
  the number of files and eliminates the need to run a separate lex/yacc
  tool before running your program.

- PLY can be used to build parsers for "real" programming languages.
  Although it is not ultra-fast due to its Python implementation,
  PLY can be used to parse grammars consisting of several hundred
  rules (as might be found for a language like C). The lexer and LR
  parser are also reasonably efficient when parsing typically
  sized programs. People have used PLY to build parsers for
  C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained
within the 'ply' directory which may also be used as a Python package.
To use PLY, simply copy the 'ply' directory to your project and import
lex and yacc from the associated 'ply' package. For example:

```
   import ply.lex as lex
   import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py
individually and use them as modules. For example:

```
   import lex
   import yacc
```

The file setup.py can be used to install
ply using distutils.

The file doc/ply.html contains complete documentation on how to use
the system.

The example directory contains several different examples including a
PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============
PLY requires the use of Python 2.6 or greater. However, you should
use the latest Python release if possible. It should work on just
about any platform. PLY has been tested with both CPython and Jython.
It also seems to work with IronPython.

Resources
=========
More information about PLY can be obtained on the PLY webpage at:

```
   http://www.dabeaz.com/ply
```

For a detailed overview of parsing theory, consult the excellent
book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and
Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown
may also be useful.

The GitHub page for PLY can be found at:

```
   https://github.com/dabeaz/ply
```

An old and
relatively inactive discussion group for PLY is found at:

```
   http://groups.google.com/group/ply-hack
```

Acknowledgments
==========
A special thanks is in order for all of the students in CS326 who
suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs
and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
==========
PLY-3.0 the first PLY release to support Python 3. However, backwards
compatibility with Python 2.6 is still preserved. PLY provides dual
Python 2/3 compatibility by restricting its implementation to a common
subset of basic language features. You should not convert PLY using
2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation
 of a calculator
with variables.

```
# -----------------------------------------------------------------------------
# calc.py
#
# A simple calculator with variables.
# -----------------------------------------------------------------------------

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
    )

# Tokens

t_PLUS    = r'\+'
t_MINUS   = r'-'
t_TIMES   = r'\*'
t_DIVIDE  = r'/'
t_EQUALS  = r'='
t_LPAREN  = r'\('
t_RPAREN  = r'\)'
t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'
```

```
  def t_NUMBER(t):
      r'\d+'
      t.value = int(t.value)
      return t

  # Ignored characters
  t_ignore = " \t"

  def t_newline(t):
      r'\n+'
      t.lexer.lineno += t.value.count("\n")

  def t_error(t):
      print("Illegal character '%s'" % t.value[0])
      t.lexer.skip(1)

  # Build the lexer
  import ply.lex as lex
  lex.lex()

  # Precedence
rules for the arithmetic operators
  precedence = (
      ('left','PLUS','MINUS'),
      ('left','TIMES','DIVIDE'),
      ('right','UMINUS'),
      )

  # dictionary of names (for storing variables)
  names = { }

  def p_statement_assign(p):
      'statement : NAME EQUALS expression'
      names[p[1]] = p[3]

  def p_statement_expr(p):
      'statement : expression'
      print(p[1])

  def p_expression_binop(p):
      '''expression : expression PLUS expression
                    | expression MINUS expression
                    | expression TIMES expression
                    | expression DIVIDE expression'''
      if p[2] == '+'  : p[0] = p[1] + p[3]
      elif p[2] == '-': p[0] = p[1] - p[3]
      elif p[2] == '*': p[0] = p[1] * p[3]
```

```
    elif p[2] == '/': p[0] = p[1] / p[3]

  def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

  def p_expression_group(p):
    'expression : LPAREN
 expression RPAREN'
    p[0] = p[2]

  def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

  def p_expression_name(p):
    'expression : NAME'
    try:
      p[0] = names[p[1]]
    except LookupError:
      print("Undefined name '%s'" % p[1])
      p[0] = 0

  def p_error(p):
    print("Syntax error at '%s'" % p.value)

  import ply.yacc as yacc
  yacc.yacc()

  while True:
    try:
      s = raw_input('calc > ')   # use input() on Python 3
    except EOFError:
      break
    yacc.parse(s)
```

Bug Reports and Patches
==========

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page
at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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Name: ply
Version: 3.11
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
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Description-Content-Type: UNKNOWN
Description:
    PLY is yet another implementation of lex and yacc for Python. Some notable
    features include the fact that its implemented entirely in Python and it
    uses LALR(1) parsing which is efficient and well suited for larger grammars.

    PLY provides most of the standard lex/yacc features including support for empty
    productions, precedence rules, error recovery, and support for ambiguous grammars.

    PLY is extremely easy to use and provides very extensive error checking.
    It is compatible with both Python 2 and Python 3.

Platform: UNKNOWN
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python
 :: 2

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1.66 pyasn1 0.4.8

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ASN.1 library for Python

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
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Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)
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blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-
E&type=items).

Features
---

*
 Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by
Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
     NamedType('id', Integer()),
     OptionalNamedType(
        'room', Integer().subtype(
           implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        )
     ),
     DefaultedNamedType(
        'house',
 Integer(0).subtype(
           implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        )
     )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify,
encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](http://snmplabs.com/pyasn1/),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely
available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If

something does not work as expected,
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python
========================

.. toctree::
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Abstract Syntax Notation One (`ASN.1
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a
technology for exchanging structured data in a universally understood,
hardware agnostic way. Many industrial, security and telephony
applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements
ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and
serialisation tool. It is probably among the first serialisation protocols in
the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first
electronic mail (known as X.400). Later on if was split off the e-mail application
and become a stand-alone tech still being actively supported by its designers
and
 widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the
first, unsuccessful, version of the Internet. You can read many interesting
`discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation
problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_
or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example.
Interestingly, many new takes on binary protocol design do not depart
far from ASN.1 from technical perspective. It's more of a matter of striking
a balance between processing overhead, wire format overhead and human
readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types
 (integers, bits, strings, arrays and records) that can be used for describing
  arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a
 series of octets for storage or transmission over the wire as well as
 recovered back into their structured form. The system is fully agnostic
 to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms
 of a schema language for ASN.1 compiler to turn it into platform-specific
 implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely
adopted for many uses. To give you an example, these technologies
use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF,

ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation

.. toctree::
  :maxdepth: 2

  /pyasn1/contents

Use case

.. toctree::
  :maxdepth: 2

  /example-use-case

Download & Install

.. toctree::
  :maxdepth: 2

  /download

Changes

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.

..

toctree::
:maxdepth: 1

/changelog

License

The PyASN1 software is distributed under 2-clause BSD License.

.. toctree::
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Getting help

Please, file your `issues <https://github.com/etingof/pyasn1/issues>`_
and `PRs <https://github.com/etingof/pyasn1/pulls>`_ at GitHub.
Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_
or search
`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_
mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome
books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson
* `ASN.1 Complete <http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>`_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU standards
<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`_

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper

book on the subject.

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1.67 bzip2 1.0.8

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.68 libcap-ng 0.8.2

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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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1.69 python3-constantly 15.1.0

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1.70 python3-async 0.6.2

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#

# **********************************************************************
# Refer to the XF86Config(4/5) man page for details about the format of
# this file.
# **********************************************************************

# NOTE:  This is a NEW IMPROVED version of XF86Config-fbdev that uses the vesa
# driver instead of the fbdev driver.  Thanks to Kenneth Fanyo who pointed
# this out to me. :)

# This XF86Config file is designed for use with the VESA framebuffer.
# This generic interface should work with nearly all video cards
# (although
 not every card will support every resolution).

# With the new driver, it should no longer be required to have frame buffer
# support in the kernel, or to run it on the console.
#
# Enjoy! :)
# -- volkerdi@slackware.com
#

# **********************************************************************
# Module section -- this  section  is used to specify
```

```
# which dynamically loadable modules to load.
# ************************************************************************
#
Section "Module"

# This loads the DBE extension module.

  Load       "dbe"   # Double buffer extension

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

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

# This loads the GLX module
  Load      "glx"

EndSection

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

Section "Files"

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

  RgbPath "/usr/X11R6/lib/X11/rgb"

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

  FontPath   "/usr/X11R6/lib/X11/fonts/local/"
```

```
    FontPath   "/usr/X11R6/lib/X11/fonts/misc/"
    FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/:unscaled"
     FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/:unscaled"
    FontPath   "/usr/X11R6/lib/X11/fonts/Type1/"
    FontPath   "/usr/X11R6/lib/X11/fonts/CID/"
    FontPath   "/usr/X11R6/lib/X11/fonts/Speedo/"
    FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/"
    FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/"
    FontPath   "/usr/X11R6/lib/X11/fonts/cyrillic/"

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

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

EndSection

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

Section "ServerFlags"

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

#    Option     "NoTrapSignals"

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

#    Option     "DontVTSwitch"

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

#    Option     "DontZap"

# Uncomment this to disable the <Crtl><Alt><KP_+>/<KP_-> mode switching
# sequences.  This allows clients to receive these key events.

#    Option     "DontZoom"

# Uncomment this to disable tuning with the xvidtune client. With
# it the client can still run and fetch card and monitor attributes,
```

```
# but it will not be allowed to change them. If it tries it will
# receive a protocol error.

#    Option     "DisableVidModeExtension"

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

#    Option     "AllowNonLocalXvidtune"

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

#    Option     "DisableModInDev"

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

#    Option     "AllowNonLocalModInDev"

# Set the basic blanking screen saver timeout.

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

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

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

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

# Option   "EstimateSizesAggresively" "0"

EndSection

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

```
# **********************************************************************
# Core keyboard's InputDevice section
# **********************************************************************

Section "InputDevice"

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

#   Option     "Protocol"      "Xqueue"

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

#   Option     "AutoRepeat"    "500 5"

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

#   Option     "Xleds" "1 2 3"

# To disable the XKEYBOARD extension, uncomment XkbDisable.

#   Option     "XkbDisable"

# To customise the XKB settings to suit your keyboard, modify the
# lines below (which are the defaults).  For example,
 for a European
# keyboard, you will probably want to use one of:
#
#   Option     "XkbModel"      "pc102"
#   Option     "XkbModel"      "pc105"
#
# If you have a Microsoft Natural keyboard, you can use:
#
#   Option     "XkbModel"      "microsoft"
#
# If you have a US "windows" keyboard you will want:
#
#   Option     "XkbModel"      "pc104"
#
# Then to change the language, change the Layout setting.
# For example, a german layout can be obtained with:
#
#   Option     "XkbLayout"     "de"
#
```

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


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

EndSection


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

Section "InputDevice"

# Identifier and driver

   Identifier "Mouse1"
   Driver "mouse"

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

#    Option     "Protocol"      "Auto"

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

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

```
  Option "Device"      "/dev/mouse"
#   Option "Device"      "/dev/psaux"
#   Option "Device"      "/dev/ttyS0"
#
  Option "Device"      "/dev/ttyS1"

# When using XQUEUE, comment out the above two lines, and uncomment
# the following line.

#    Option "Protocol" "Xqueue"

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

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

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

#    Option "Emulate3Buttons"
#    Option "Emulate3Timeout"    "50"

# ChordMiddle is an option for some 3-button Logitech mice

#    Option "ChordMiddle"

EndSection

# Some examples of extended input devices

# Section "InputDevice"
#    Identifier "spaceball"
#    Driver     "magellan"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier "spaceball2"
#    Driver     "spaceorb"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier
 "touchscreen0"
#    Driver     "microtouch"
```

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

# ********************************************************************
# Monitor section
# ********************************************************************

#
 Any number of monitor sections may be present

Section "Monitor"

   Identifier  "My Monitor"

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

   HorizSync   31.5 - 50.0

#    HorizSync 30-64         # multisync
#    HorizSync 31.5, 35.2    # multiple fixed sync frequencies
#    HorizSync 15-25, 30-50  # multiple ranges of sync frequencies
```

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

   VertRefresh 40-90

EndSection


# **********************************************************************
#
 Graphics device section
# **********************************************************************

# Any number of graphics device sections may be present

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

# **********************************************************************
# Screen sections
# **********************************************************************

# Any number of screen sections may be present.  Each describes
# the configuration of a single screen.  A single specific screen section
# may be specified from the X server command line with the "-screen"
# option.
Section "Screen"
   Identifier  "Screen 1"
   Device      "VESA Framebuffer"
   Monitor     "My Monitor"

# If your card can handle it, a higher default color depth (like 24 or 32)
# is highly recommended.

#   DefaultDepth 8
#   DefaultDepth 16
  DefaultDepth 24
#   DefaultDepth 32

# "1024x768"
```

```
 is also a conservative usable default resolution.  If you
# have a better monitor, feel free to try resolutions such as
# "1152x864", "1280x1024", "1600x1200", and "1800x1400" (or whatever your
# card/monitor can produce)

  Subsection "Display"
    Depth      8
    Modes "1024x768" "800x600" "640x480"
  EndSubsection
  Subsection "Display"
    Depth      16
    Modes "1024x768" "800x600" "640x480"
  EndSubsection
  Subsection "Display"
    Depth      24
    Modes "1024x768" "800x600" "640x480"
  EndSubsection
  Subsection "Display"
    Depth      32
    Modes "1024x768" "800x600" "640x480"
  EndSubsection

EndSection

# ********************************************************************
# ServerLayout sections.
# ********************************************************************

# Any number of ServerLayout sections may be present.  Each describes
# the way multiple screens are organised.  A specific ServerLayout
# section
 may be specified from the X server command line with the
# "-layout" option.  In the absence of this, the first section is used.
# When now ServerLayout section is present, the first Screen section
# is used alone.

Section "ServerLayout"

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

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

  Screen "Screen 1"
```

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

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

EndSection
```

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* /pkgtools-tar-gz/sbin/makepkg
* /pkgtools-tar-gz/usr/X11R6/bin/xwmconfig
* /pkgtools-tar-gz/sbin/installpkg
* /pkgtools-tar-gz/usr/X11R6/bin/xfree86setup
* /pkgtools-tar-gz/sbin/makebootdisk
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#

# **********************************************************************
# Refer to the XF86Config(4/5) man page for details about the format of
# this file.
# **********************************************************************

# This XF86Config file is designed for use with the Linux framebuffer console.
# This generic interface should work with nearly all video cards (although
# not every card will support every resolution).  To use the Linux framebuffer
# console, you need to enable these kernel options:
# Using 'make menuconfig', in
 'console drivers', enable:
#   [*] VGA text console
#   [*] Video mode selection support
#   [*] Support for frame buffer devices (EXPERIMENTAL)
#   [*] VESA VGA graphics console
#   [*] Advanced low level driver options
#   <*> 8 bpp packed pixels support
#   <*> 16 bpp packed pixels support
#   <*> 24 bpp packed pixels support
#   <*> 32 bpp packed pixels support
#   <*> VGA characters/attributes support
#   [*] Select compiled-in fonts
#   [*]   VGA 8x8 font
#   [*]   VGA 8x16 font
# If you have a Matrox or ATI Mach64, you might try enabling the options having
# to do with those cards as well.  However, if the card is VESA compliant, you
# don't really need to (and it might cause problems, possibly)
#
# Next, if this file is not already named /etc/X11/XF86Config, make a copy
# with that name.  This file ships with the name XF86Config-fbdev to avoid
# overwriting an existing config file.
#
# To get the kernel to start in VESA framebuffer mode, you need to pass it
# a vga= init string
 at boot time.  For example, if you use LILO you'll
# probably find a vga=normal string in your /etc/lilo.conf.  If you edit that
```

```
# to one of the values in this table:
#
#   Colours   640x480 800x600 1024x768 1280x1024 1600x1200
#  --------+-----------------------------------------------
#  256     |  769     771     773      775       796
#  32,768  |  784     787     790      793       797
#  65,536  |  785     788     791      794       798
#  16.8M   |  786     789     792      795       799
#
#  ...such as this for 1024x768x64k:
#  vga = 791
#  and then reinstall LILO by running 'lilo' as root, then at the next boot
#  Linux should start in a VESA framebuffer console mode.
#
# For more information on how to activate the Linux frame buffer, see
# /usr/src/linux/Documentation/fb/vesafb.txt.
#
# Enjoy! :)
# -- volkerdi@slackware.com
#

# ****************************************************************************
# Module section -- this  section  is used to specify
# which dynamically
 loadable modules to load.
# ****************************************************************************
#
Section "Module"

# This loads the DBE extension module.

  Load        "dbe"   # Double buffer extension

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

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

# This loads the GLX module
  Load       "glx"

EndSection
```

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

Section "Files"

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

   RgbPath "/usr/X11R6/lib/X11/rgb"

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

   FontPath   "/usr/X11R6/lib/X11/fonts/local/"
   FontPath   "/usr/X11R6/lib/X11/fonts/misc/"
   FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/:unscaled"
   FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/:unscaled"
   FontPath   "/usr/X11R6/lib/X11/fonts/Type1/"
   FontPath   "/usr/X11R6/lib/X11/fonts/CID/"
   FontPath   "/usr/X11R6/lib/X11/fonts/Speedo/"
   FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/"
   FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/"
   FontPath   "/usr/X11R6/lib/X11/fonts/cyrillic/"

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

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

EndSection

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

Section "ServerFlags"
```

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

#    Option     "NoTrapSignals"

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

#    Option     "DontVTSwitch"

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

#    Option     "DontZap"

# Uncomment this to disable the <Crtl><Alt><KP_+>/<KP_-> mode switching
# sequences.  This allows
 clients to receive these key events.

#    Option     "DontZoom"

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

#    Option     "DisableVidModeExtension"

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

#    Option     "AllowNonLocalXvidtune"

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

#    Option     "DisableModInDev"

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

#    Option     "AllowNonLocalModInDev"

# Set the basic blanking screen saver timeout.

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

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

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

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

# Option   "EstimateSizesAggresively" "0"

EndSection

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

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

Section "InputDevice"

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

#    Option     "Protocol"      "Xqueue"

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

#    Option     "AutoRepeat"    "500 5"

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

#    Option     "Xleds" "1 2 3"
```

```
# To disable the XKEYBOARD extension, uncomment XkbDisable.

#    Option     "XkbDisable"

# To customise the XKB settings to suit your keyboard, modify the
# lines below (which are the defaults).  For example, for a European
# keyboard, you will probably want to use one of:
#
#    Option     "XkbModel"      "pc102"
#    Option     "XkbModel"      "pc105"
#
# If you have a Microsoft Natural keyboard, you can use:
#
#    Option     "XkbModel"      "microsoft"
#
# If you have a US "windows" keyboard you will want:
#
#    Option     "XkbModel"      "pc104"
#
# Then to change the language,
 change the Layout setting.
# For example, a german layout can be obtained with:
#
#    Option     "XkbLayout"     "de"
#
# or:
#
#    Option     "XkbLayout"     "de"
#    Option     "XkbVariant"    "nodeadkeys"
#
# If you'd like to switch the positions of your capslock and
# control keys, use:
#
#    Option     "XkbOptions"    "ctrl:swapcaps"


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

EndSection


# **********************************************************************
```

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

Section "InputDevice"

# Identifier and driver

   Identifier "Mouse1"
   Driver "mouse"

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

#    Option     "Protocol"      "Auto"

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

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

   Option "Device"      "/dev/mouse"
#   Option "Device"      "/dev/psaux"
#   Option "Device"      "/dev/ttyS0"
#   Option "Device"      "/dev/ttyS1"

# When using XQUEUE, comment out the above two lines, and uncomment
# the following line.

#    Option "Protocol" "Xqueue"

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

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

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

#    Option "Emulate3Buttons"
#    Option "Emulate3Timeout"    "50"
```

```
# ChordMiddle is an option for some 3-button Logitech mice

#    Option "ChordMiddle"

EndSection

# Some examples of extended input devices

# Section "InputDevice"
#    Identifier "spaceball"
#    Driver     "magellan"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier "spaceball2"
#    Driver     "spaceorb"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier "touchscreen0"
#    Driver     "microtouch"
#    Option     "Device"        "/dev/ttyS0"
#    Option     "MinX"          "1412"
#    Option     "MaxX"          "15184"
#    Option     "MinY"          "15372"
#    Option     "MaxY"          "1230"
#    Option     "ScreenNumber"  "0"
#    Option     "ReportingMode" "Scaled"
#    Option     "ButtonNumber"  "1"
#    Option
   "SendCoreEvents"
# EndSection
#
# Section "InputDevice"
#    Identifier "touchscreen1"
#    Driver     "elo2300"
#    Option     "Device"        "/dev/ttyS0"
#    Option     "MinX"          "231"
#    Option     "MaxX"          "3868"
#    Option     "MinY"          "3858"
#    Option     "MaxY"          "272"
#    Option     "ScreenNumber"  "0"
#    Option     "ReportingMode" "Scaled"
#    Option     "ButtonThreshold"       "17"
#    Option     "ButtonNumber"  "1"
```

```
#    Option     "SendCoreEvents"
# EndSection

# ********************************************************************
# Monitor section
# ********************************************************************

# Any number of monitor sections may be present

Section "Monitor"

  Identifier  "My Monitor"

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

  HorizSync   31.5 - 50.0

#    HorizSync 30-64         # multisync
#    HorizSync 31.5, 35.2    # multiple fixed sync frequencies
#    HorizSync 15-25, 30-50  # multiple ranges of sync frequencies

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

  VertRefresh 40-90

EndSection


# ********************************************************************
# Graphics device section
# ********************************************************************

# Any number of graphics device sections may be present

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

```
EndSection

# **********************************************************************
#
 Screen sections
# **********************************************************************

# Any number of screen sections may be present.  Each describes
# the configuration of a single screen.  A single specific screen section
# may be specified from the X server command line with the "-screen"
# option.
Section "Screen"
  Identifier  "Screen 1"
  Device      "VESA Framebuffer"
  Monitor     "My Monitor"

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

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

EndSection

# **********************************************************************
#
 ServerLayout sections.
# **********************************************************************

# Any number of ServerLayout sections may be present.  Each describes
# the way multiple screens are organised.  A specific ServerLayout
# section may be specified from the X server command line with the
# "-layout" option.  In the absence of this, the first section is used.
# When now ServerLayout section is present, the first Screen section
# is used alone.
```

```
Section "ServerLayout"

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

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

  Screen "Screen 1"

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

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

EndSection

Found in path(s):
* /pkgtools-tar-gz/etc/X11/XF86Config-fbdev
```

1.72 net-tools 2.10

1.72.1 Available under license :

```
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1.73 python3-bcrypt 3.2.0

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1.74 python-chardet 4.0.0

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*
*/
```

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```
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```

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```
/**********************************************************************
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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 *
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```
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     ===============

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

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

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1.76 python3-pika 1.2.0

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1.78 python3-appdirs 1.4.4

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1.79 python3-hyperlink 21.0.0

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1.80 python3-cloghandler 0.9.1

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1.83 adduser 3.118

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<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
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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
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1.84 python3-pyserial 3.5

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1.89 sed 4.8

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- Tres Seaver, 2006-02-09

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1.105 python3-pysocks 1.7.1

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1.106 attr 2.5.1

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1.115 python3-ptyprocess 0.7.0

1.115.1 Available under license :

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1.116 iptables 1.8.7

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1.117 gettext 0.21

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

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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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that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable,
 and (2) will operate
properly with a modified version of the library, if the user installs
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@item
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@item
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 is
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@subheading END OF TERMS AND CONDITIONS

@page
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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@end iftex
@ifinfo
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@page
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

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@example
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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Version 2.1, February 1999

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1.118 watch-dog 5.16

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* Michael Meskes <meskes@debian.org> Fri 24 Apr 2020 10:29:55 AM CEST

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1.119 pam-ldap 184

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1.121 sg3-utils 1.45

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1.122 sharutils 4.15.2

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1.125 cairo 1.16.0

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1.126 initscripts 1.0

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diff -Naur archiver-work.orig/temp/run.do_patch.20509 archiver-work.patched/temp/run.do_patch.20509
--- archiver-work.orig/temp/run.do_patch.20509 1970-01-01 00:00:00.000000000 +0000
+++ archiver-work.patched/temp/run.do_patch.20509 2019-10-10 16:44:40.842809139 +0000
@@ -0,0 +1,73 @@
+def do_patch(d):
+    bb.build.exec_func('patch_do_patch', d)
+
+do_patch(d)
+
+def patch_do_patch(d):
+
    import oe.patch
+
+    patchsetmap = {
+        "patch": oe.patch.PatchTree,
+        "quilt": oe.patch.QuiltTree,
+        "git": oe.patch.GitApplyTree,
+    }
+
+    cls = patchsetmap[d.getVar('PATCHTOOL') or 'quilt']
+
+    resolvermap = {
+        "noop": oe.patch.NOOPResolver,
+        "user": oe.patch.UserResolver,
+    }
+
+    rcls = resolvermap[d.getVar('PATCHRESOLVE') or 'user']
+
+    classes = {}
+
+    s = d.getVar('S')
+
+    os.putenv('PATH', d.getVar('PATH'))
+
+    # We must use one TMPDIR per process so that the "patch" processes
+    # don't generate the same temp file name.
+
+    import tempfile
+    process_tmpdir = tempfile.mkdtemp()
+    os.environ['TMPDIR'] = process_tmpdir
+
+    for patch in src_patches(d):
```

```
+       _, _, local, _, _, parm = bb.fetch.decodeurl(patch)
+
+       if "patchdir" in parm:
+           patchdir = parm["patchdir"]
+           if not os.path.isabs(patchdir):
+               patchdir = os.path.join(s, patchdir)
+
  else:
+           patchdir = s
+
+       if not patchdir in classes:
+           patchset = cls(patchdir, d)
+           resolver = rcls(patchset, oe_terminal)
+           classes[patchdir] = (patchset, resolver)
+           patchset.Clean()
+       else:
+           patchset, resolver = classes[patchdir]
+
+       bb.note("Applying patch '%s' (%s)" % (parm['patchname'], oe.path.format_display(local, d)))
+       try:
+           patchset.Import({"file":local, "strippath": parm['striplevel']}, True)
+       except Exception as exc:
+           bb.utils.remove(process_tmpdir, True)
+           bb.fatal(str(exc))
+       try:
+           resolver.Resolve()
+       except bb.BBHandledException as e:
+           bb.utils.remove(process_tmpdir, True)
+           bb.fatal(str(e))
+
+   bb.utils.remove(process_tmpdir, True)
+   del os.environ['TMPDIR']
+
+def src_patches(d, all=False, expand=True):
+   import oe.patch
+   return oe.patch.src_patches(d, all, expand)
+
diff
 -Naur archiver-work.orig/temp/run.patch_do_patch.20509 archiver-work.patched/temp/run.patch_do_patch.20509
--- archiver-work.orig/temp/run.patch_do_patch.20509 1970-01-01 00:00:00.000000000 +0000
+++ archiver-work.patched/temp/run.patch_do_patch.20509 2019-10-10 16:44:40.843809151 +0000
@@ -0,0 +1,70 @@
+def patch_do_patch(d):
+   import oe.patch
+
+   patchsetmap = {
+       "patch": oe.patch.PatchTree,
+       "quilt": oe.patch.QuiltTree,
```

```
+        "git": oe.patch.GitApplyTree,
+    }
+
+    cls = patchsetmap[d.getVar('PATCHTOOL') or 'quilt']
+
+    resolvermap = {
+        "noop": oe.patch.NOOPResolver,
+        "user": oe.patch.UserResolver,
+    }
+
+    rcls = resolvermap[d.getVar('PATCHRESOLVE') or 'user']
+
+    classes = {}
+
+    s = d.getVar('S')
+
+    os.putenv('PATH', d.getVar('PATH'))
+
+    # We must use one TMPDIR per process so that the "patch" processes
+    # don't generate the same temp file name.
+
+    import tempfile
+    process_tmpdir = tempfile.mkdtemp()
+
    os.environ['TMPDIR'] = process_tmpdir
+
+    for patch in src_patches(d):
+        _, _, local, _, _, parm = bb.fetch.decodeurl(patch)
+
+        if "patchdir" in parm:
+            patchdir = parm["patchdir"]
+            if not os.path.isabs(patchdir):
+                patchdir = os.path.join(s, patchdir)
+        else:
+            patchdir = s
+
+        if not patchdir in classes:
+            patchset = cls(patchdir, d)
+            resolver = rcls(patchset, oe_terminal)
+            classes[patchdir] = (patchset, resolver)
+            patchset.Clean()
+        else:
+            patchset, resolver = classes[patchdir]
+
+        bb.note("Applying patch '%s' (%s)" % (parm['patchname'], oe.path.format_display(local, d)))
+        try:
+            patchset.Import({"file":local, "strippath": parm['striplevel']}, True)
+        except Exception as exc:
```

```
+            bb.utils.remove(process_tmpdir, True)
+            bb.fatal(str(exc))
+        try:
+            resolver.Resolve()
+
        except bb.BBHandledException as e:
+            bb.utils.remove(process_tmpdir, True)
+            bb.fatal(str(e))
+
+    bb.utils.remove(process_tmpdir, True)
+    del os.environ['TMPDIR']
+
+patch_do_patch(d)
+
+def src_patches(d, all=False, expand=True):
+    import oe.patch
+    return oe.patch.src_patches(d, all, expand)
+
```

Found in path(s):
* /initscripts-1-0-r155-tar-bz2/initscripts-1.0-r155-diff.gz.dir/initscripts-1.0-r155-diff

1.127 quota 4.06

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1.128 tcl 8.6.11

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under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the

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Section 6 states terms for distribution of such executables.

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

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

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

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installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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That's all there is to it!
I would like to thank the following people (in alphabetical order):

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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.

1.130 bc 1.07.1

1.130.1 Available under license :

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1.133 make 4.3

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1.134 jansson 2.13.1

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1.135 fontconfig 2.13.1

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1.136 python 2.7.18

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

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

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

All
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.139 gmp 6.2.1

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Version 3, 29 June 2007

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1.140 openosc 1.0.5

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1.141 distlib 0.3.6

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes

2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/policy/xos_plc_sample_get.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/policy/xos_plc_sample_set.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/policy/xos_plc_sample_shim.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/routing/xos_rtg_eg.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/routing/xos_rtg_eg_main_async.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-

8.0.0.21/examples/src/routing/xos_rtg_eg_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/routing/xos_rtg_eg_shim_async.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/xtf_hello_world/xtf_hello_world.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/xtf_hello_world/xtf_hello_world.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/xtf_hello_world/xtf_hello_world_main.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/xtf_tlv_test/tlv.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/xtf_tlv_test/tlv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/xtf_tlv_test/tlv_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_addr.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_addr_nxos.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_addr_v4.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_addr_v6.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_async.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_atomic.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_avl.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_bind_status.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_bitlist.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_cerrno.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_cerrno_init.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_constants.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_debug_trace.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_defs.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_dm.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_dqueue.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_errno.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_hash.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_hashmap.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-

8.0.0.21/include/xos_hashset.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_id_manager.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_id_manager_ext.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_if.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_if_cfg.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_if_ether.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_if_event.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_if_handle.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_if_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_if_nxos.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_if_shim.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_infra.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_ipc.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_list.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_magic.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_md5.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_mem_mgmt.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_mem_named.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_mgd_timers.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_netinfra.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_netinfra_nxos.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_pak.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_pak_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_passive_timers.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_plc.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_plc_action.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_plc_c3pl.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_plc_match.h/*

/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_plc_shim.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_plc_target.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_plc_types.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_ppm.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_queue.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_radix.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_random.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_rbtree.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_registry.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_rtg.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_rtg_event.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_rtg_l3_ucast.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_rtg_shim.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_sm.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_sm_compile.h/**
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_sysinfo.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_thread.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_time_utils.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_time_utils_base.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_timer_wheels.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_types.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_vrf.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_vrf_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_wavl.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xtf.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xtf_event_checker.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/linux/include/xos_if_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/linux/include/xos_pak_lnx.h/*

/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/linux/include/xos_vrf_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/m4/ax_cflags_gcc_option.m4#
==========
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/internal_inc/xos_atomic_internal.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/internal_inc/xos_magic_internal.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/internal_inc/xos_mem_named_internal.h
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/internal_inc/xos_mem_shm_internal.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/internal_inc/xos_thread_internal.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/internal_inc/xos_util_internal.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_attr.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_debug.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_fc.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_msg.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_sig.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_sig_condvar.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ring.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ring.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_mgmt.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_mgmt_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_named.c/*----------
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_named_internal.c
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_named_priv.h/*----------
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-

8.0.0.21/shared/src/memory/xos_mem_safe_shm.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/memory/xos_mem_shm.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/memory/xos_mem_shm_priv.h/**
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/memory/xos_mem_vchunk.c/*----------
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/memory/xos_mem_vchunk_intern.h
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/memory/xos_mem_vchunk_priv.h
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_addr_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_addr_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_async.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
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8.0.0.21/shared/src/net/xos_if.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_if_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_if_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_if_lnx_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_if_shim.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_netinfra.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_netinfra_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_pak.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_pak_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_pak_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_pak_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_pak_priv_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/net/xos_plc.c/*
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8.0.0.21/shared/src/net/xos_plc_debug.h/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_rtg.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_rtg_shim.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_vrf.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_vrf_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_vrf_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_vrf_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/sysinfo/xos_sysinfo.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/sysinfo/xos_sysinfo_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/sysinfo/xos_sysinfo_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/threads/xos_thread.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_passive_timers.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_time_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_time_utils_base_non_blob.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-

8.0.0.21/shared/src/time/xos_time_utils_base_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_time_utils_common.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_time_utils_non_blob.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_time_utils_priv.h/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_timer_wheels_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_atomic.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_atomic_mips.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_atomic_ppc.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_bitlist.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_cli_prt.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_cli_prt_priv.h/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/utils/xos_intrpt_priv.h/*
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8.0.0.21/shared/src/utils/xos_lib_init.c/**
****
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/utils/xos_list_priv.h/*
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8.0.0.21/shared/src/utils/xos_ppm.c/*
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8.0.0.21/shared/src/utils/xos_radix.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/utils/xos_radix_priv.h/*
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8.0.0.21/shared/src/utils/xos_random.c/*--
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/utils/xos_rbtree.c/*
$Id: rbtree.c,v 1.5 1999/03/18 01:24:22 richl Exp $
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/utils/xos_rbtree_priv.h/* $Id: rbtree.h,v 1.2 1998/10/06 01:06:52 kparne Exp $
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/utils/xos_registry.c/**
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/utils/xos_sm.c/**
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/utils/xos_strings.c/*--
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/src/utils/xos_strings.h/*--
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-

8.0.0.21/shared/src/utils/xos_util_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_wavl.c/*
$Id: wavl.c,v 3.2.62.4 1996/09/07 02:08:29 snyder Exp $
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_wavl_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/exec_show_xos_dm.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm_cli_priv.h/* $Id:
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm_io_kq.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm_io_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm_priv.h/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm_timers_lnx.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdt/xos_trace_buffer_dump.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xos_test_setup.h/*

/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xostrace.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_agent.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_agent.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_agent_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_agent_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_agent_shared.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_agent_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_evc.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_evc_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_self_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_shared.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/ipc/xos_ipc_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/ipc/xos_ipc_test.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/ipc/xos_ipc_test_cs.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/ipc/xos_ipc_test_ecs.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/ipc/xos_ring_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/memory/xos_mem_mgmt_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/memory/xos_mem_mgmt_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/memory/xos_mem_named_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/memory/xos_mem_named_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/memory/xos_mem_vchunk_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_addr_test.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-

8.0.0.21/test/src/net/xos_if_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_if_test.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_if_test_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_if_test_shim.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_if_test_sim.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_if_test_sim.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_if_test_sim_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_netinfra_dump_notifications.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_netinfra_test.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_pak_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_plc_test.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_plc_test_lnx.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_rtg_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_rtg_test.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_rtg_test_lnx.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_cerrno_test_client_4.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_cerrno_test_client_5.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_queue_test.c
/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_queue_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_radix_test.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_random_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_random_test_priv.h/*
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/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_rbtree_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_reg_test.c/**
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_reg_test.h/**
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-

8.0.0.21/test/src/utils/xos_reg_test.xreg#if 1 /*
 CHECKSUM: checksum visible to CC when included in _xreg[ch] files */
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_reg_test.xregc/* This file is machine generated from xos_reg_test.xreg.
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_reg_test.xregh/* This file is machine generated from xos_reg_test.xreg.
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_sm_basic_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_sm_basic_test.sm/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_sm_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_sm_test.sm/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_sm_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_wavl_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_wavl_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/xdm/xos_dm_socket_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/xdm/xos_dm_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/xdm/xos_dm_xd_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/xdt/xos_debug_trace_test.c/*

Found
 in path(s):
*

1.143 pcre 10.40

1.143.1 Available under license :

PCRE2 LICENCE

Please see the file LICENCE in the PCRE2 distribution for licensing details.

End
PCRE2 LICENCE

PCRE2 is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language.

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1.144 urllib3 1.26.14

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1.145 python-requests 2.28.2

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1.146 python-pip 23.0.1

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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$ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

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

Release	Derived	Year	Owner	GPL-

	from		compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI yes
1.6	1.5.2	2000	CNRI no
2.0	1.6	2000	BeOpen.com no
1.6.1	1.6	2001	CNRI yes (2)
2.1	2.0+1.6.1	2001	PSF no
2.0.1	2.0+1.6.1	2001	PSF yes
2.1.1	2.1+2.0.1	2001	PSF yes
2.2	2.1.1	2001	PSF yes
2.1.2	2.1.1	2002	PSF yes
2.1.3	2.1.2	2002	PSF yes
2.2.1	2.2	2002	PSF yes
2.2.2	2.2.1	2002	PSF yes
2.2.3	2.2.2	2003	PSF yes
2.3	2.2.2	2002-2003	PSF yes
2.3.1	2.3	2002-2003	PSF yes
2.3.2	2.3.1	2002-2003	PSF yes
2.3.3	2.3.2	2002-2003	PSF yes
2.3.4	2.3.3	2004	PSF yes
2.3.5	2.3.4	2005	PSF yes
2.4	2.3	2004	PSF yes
2.4.1	2.4	2005	PSF yes
2.4.2	2.4.1	2005	PSF yes
2.4.3	2.4.2	2006	PSF yes
2.4.4	2.4.3	2006	PSF yes
2.5	2.4	2006	PSF yes
2.5.1	2.5	2007	PSF yes
2.5.2	2.5.1	2008	PSF yes
2.5.3	2.5.2	2008	PSF yes
2.6	2.5	2008	PSF yes
2.6.1	2.6	2008	PSF yes
2.6.2	2.6.1	2009	PSF yes
2.6.3	2.6.2	2009	PSF yes
2.6.4	2.6.3	2009	PSF yes
2.6.5	2.6.4	2010	PSF yes
3.0	2.6	2008	PSF yes
3.0.1	3.0	2009	PSF yes
3.1	3.0.1	2009	PSF yes
3.1.1	3.1	2009	PSF yes
3.1.2	3.1	2010	PSF yes
3.2	3.1	2010	PSF yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see

https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.148 python3-cffi 1.15.0

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

principal author, although it includes many contributions from others.

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1

is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
```

```
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B  "1
x   ?"U@,5  @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
```

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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1.152 libassuan 2.5.6

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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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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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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TERMS AND CONDITIONS

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

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1. Source Code.

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

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

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

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding

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

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

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

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

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
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2.1.1		2001-now	PSF	yes

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1.154 python-certifi 2022.12.07

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1.160 acl 2.3.1

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1.165 libnss-mdns 0.15.1

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1.166 crash 8.0.4

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1.169 python3-pyopenssl 22.0.0

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1.170 python3-pycparser 2.21

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pycparser -- A C parser in Python

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1.175 gtest-tap 0.6

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1.176 rabbitmq-c 0.11.0

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1.177 texi2html 5.0

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SINGULAR version 3-0-0

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\input texinfo @c -*-texinfo-*-

@node Top

texte

@insertcopying

@copying

This is a copyright notice

@copying

And a second one (?)
13.5 Inserting TeX and the Copyright Symbol
==========

The logo `TeX' is typeset in a special fashion and it needs an
@-command. The copyright symbol, `(C)', is also special.
Each of these commands is followed by a pair of braces, `{}',
without any whitespace between the name of the command and the
braces.

* tex::   How to insert the TeX logo.
* copyright symbol::   How to use @copyright{}.
== CVS—Concurrent Versions System v4.2 ==

Next: [[cvs: Overview#Overview|Overview]], Up: [../dir/index.#Top (dir)] |[[cvs:
Index#SEC_Contents|Contents]]||[[cvs: Index#Index|Index]]|

This info manual describes how to use and administer
<small>CVS</small> version 4.2.

[[cvs: Overview#Overview|• Overview]]:: An introduction to CVS
[[cvs: The Repository#The Repository|• Repository]]:: Where all your sources are stored
[[cvs: Starting a project with CVS#Starting a project with CVS|• Starting a new project]]:: Starting a project with CVS
[[cvs: Revisions#Revisions|• Revisions]]:: Numeric and symbolic names for revisions
[[cvs: Branching and merging#Branching and merging|• Branching and merging]]:: Diverging/rejoining branches of development
[[cvs: Recursive behavior#Recursive behavior|• Recursive
behavior]]:: CVS descends directories
[[cvs: Adding, removing, and renaming files and directories#Adding, removing, and renaming files and directories|• Adding and removing]]:: Adding/removing/renaming files/directories
[[cvs: History browsing#History browsing|• History browsing]]:: Viewing the history of files in various ways

CVS and the Real World.

[[cvs: Handling binary files#Handling binary files|• Binary files]]:: CVS can handle binary files
[[cvs: Multiple developers#Multiple developers|• Multiple developers]]:: How CVS helps a group of developers
[[cvs: Revision management#Revision management|• Revision management]]:: Policy questions for revision management
[[cvs: Keyword substitution#Keyword substitution|• Keyword substitution]]:: CVS can include the revision inside the file
[[cvs: Tracking third-party sources#Tracking third-party sources|•
Tracking sources]]:: Tracking third-party sources
[[cvs: How your build system interacts with CVS#How your build system interacts with CVS|• Builds]]:: Issues related to CVS and builds
[[cvs: Special Files#Special Files|• Special Files]]:: Devices, links and other non-regular files

References.

[[cvs: Guide to CVS commands#Guide to CVS commands|• CVS commands]]:: CVS commands share some things
[[cvs: Quick reference to CVS commands#Quick reference to CVS commands|• Invoking CVS]]:: Quick reference to CVS commands
[[cvs: Reference manual for Administrative files#Reference manual for Administrative files|• Administrative files]]:: Reference manual for the Administrative files
[[cvs: All environment variables which affect CVS#All environment variables which affect CVS|•

Environment variables]]:: All environment variables which affect CVS
[[cvs: Compatibility
between CVS Versions#Compatibility between CVS Versions|• Compatibility]]:: Upgrading CVS versions
[[cvs: Troubleshooting#Troubleshooting|• Troubleshooting]]:: Some tips when nothing works
[[cvs: Credits#Credits|• Credits]]:: Some of the contributors to this manual
[[cvs: Dealing with bugs in CVS or this manual#Dealing with bugs in CVS or this manual|• BUGS]]:: Dealing with bugs in CVS or this manual
[[cvs: Index#Index|• Index]]:: Index

Next: [[cvs: Overview#Overview|Overview]], Up: [../dir/index.#Top (dir)] |[[cvs: Index#SEC_Contents|Contents]]||[[cvs: Index#Index|Index]]|

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@end table
@end ifset

@heading Acknowledgements

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@cindex Pfister, Gerhard
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1.179 intltool 0.51.0

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1.180 rtl8723bs-bt git

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*
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/*
*

```
*  BlueZ - Bluetooth protocol stack for Linux
*
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```
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*
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* /rtl8723bs-bt-git-r0-tar-gz/tmp96e0k94g/git/hci_ldisc.c
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*
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/**
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*

*Module Name:
*   hciattach_rtk.c
*
*Description:
*   H4/H5 specific initialization
*

*Revision History:
* Date Version Author Comment
* ---------- --------- --------------- ----------------------
* 2013-06-06 1.0.0 gordon_yang Create
* 2013-06-18 1.0.1 lory_xu add support for multi fw
* 2013-06-21 1.0.2 gordon_yang add timeout for get version cmd
* 2013-07-01 1.0.3 lory_xu close file handle
* 2013-07-01 2.0 champion_chen add IC check
* 2013-12-16 2.1 champion_chen fix bug in Additional packet number
* 2013-12-25 2.2 champion_chen open host flow control after send last fw packet
*/

Found
 in path(s):
* /rtl8723bs-bt-git-r0-tar-gz/tmp96e0k94g/git/hciattach_rtk.c

1.181 fbset-modes 0.1.0

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*
* Petr Vandrovec <vandrove@vc.cvut.cz>:
*   -grayscale, -rgba, -nonstd, VGA modes reporting
*
* Brad Midgley <brad@exodus.pht.com>:
*   -match
*
*/

Found in path(s):
* /fbset-2-1-orig-tar-gz/fbset-2.1/fbset.c

1.182 lib32-bin86 0.16.15

1.182.1 Available under license :

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1.184 python3-tappy 3.0

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1.186 libartlgpl 2.3.21

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1.187 ragel 6.10

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1.188 chkconfig 1.3.58

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1.189 python3-jsonnet 0.17.0

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// blah blah here could be a license text
// lorem ipsum dolor sit amet

local a = import 'a.jsonnet';
local b = import 'b.jsonnet';
true
MD5
Converted to C++ class by Frank Thilo (thilo@unix-ag.org)
for bzflag (http://www.bzflag.org)

based on:

md5.h and md5.c
reference implementation of RFC 1321

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// blah blah here could be a license text
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local b = import 'b.jsonnet';
local a = import 'a.jsonnet';
true

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1.190 rpm 4.16.1.3-19.ph4

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Version 2, June 1991

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

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1.191 gdbm 1.23

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1.193 autoconf 2.71

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1.194 kerberos 1.17.2

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

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c

lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

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

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1.195 lcov 1.15

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YOU NEED PERL 5.8.0 or later.

INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
echo I know that I am using this at my own risk
make install
```

That echo statement is particularly important.

DEPENDENCIES

This module requires perl 5.8.0 or later compiler with PerlIO.
(which is now the default), and the zlib compression library.

BUGS

Threads - Currenly this module isn't threadsafe as it can't clone an open layer.
flush() doesn't really flush, just empty the buffer

TODO

Lots:

Check that concatenating to files works. Add a way of reading multiple
contactenated gzip files.

Test more
Add an open method so that things we don't like (read/write opens) are faulted
early (ie before a file is created on disk) and so
 that we add "b" flag to
the open for the layer below.
Test more
Rewrite flush to really flush, and write a PerlIOGzip_write() rather than
rely on PerlIOBuf_write, which calls flush() to empty the buffer each time.
Test more
Cope with crlf systems. Should this layer turn off crlf on the layer below
and turn it on on itself?
Cope with utf8. Should the utf8 flag be hiked above us?
Test more
Worry about threads.
Writing headers with fancy stuff (filename, comment, extra info, header crc)
What to about the "TEXT" flag in the gzip header
Test more

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Found in path(s):
* /perlio-gzip-0-20-tar-gz/PerlIO-gzip-0.20/README
No license file was found, but licenses were detected in source scan.

```
/*    gzip.xs
*
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*    file.
*
*/
```

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* /perlio-gzip-0-20-tar-gz/PerlIO-gzip-0.20/gzip.xs
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---
abstract: 'Perl extension to provide a PerlIO layer to gzip/gunzip'
author:

- 'Nicholas Clark <nwc10+perlio-gzip@colon.colondot.net>'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.28, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: PerlIO-gzip
no_index:
 directory:
  - t
  - inc
requires: {}
version: '0.20'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /perlio-gzip-0-20-tar-gz/PerlIO-gzip-0.20/META.yml

1.197 diffstat 1.64

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Upstream source http://invisible-island.net/diffstat/diffstat.html

```
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`make' implicit rules from creating a file called install from it
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This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
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1.198 libxml-parser-perl 2.46

1.198.1 Available under license :

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** Expat.xs
**
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**
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**
*/

Found in path(s):
* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/Expat/Expat.xs
No license file was found, but licenses were detected in source scan.

---
abstract: 'A perl module for parsing XML documents'
author:
 - 'Clark Cooper (coopercc@netheaven.com)'
build_requires:
 ExtUtils::MakeMaker: '0'
 Test::More: '0'
 warnings: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'

```
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: XML-Parser
no_index:
 directory:
   - t
   - inc
requires:
 LWP::UserAgent: '0'
 perl: '5.00405'
resources:
 bugtracker: https://github.com/toddr/XML-Parser/issues
 repository: http://github.com/toddr/XML-Parser
version: '2.46'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/META.yml
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# LWPExternEnt.pl
#
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package XML::Parser;

use URI;
use URI::file;
use LWP::UserAgent;

##
## Note that this external entity handler reads the entire entity into
## memory, so it will choke on huge ones. It would be really nice if
## LWP::UserAgent optionally returned us an IO::Handle.
##

sub lwp_ext_ent_handler {
 my ($xp, $base, $sys) = @_;  # We don't use public id

 my $uri;
```

```
if (defined $base) {
  # Base may have been set by parsefile, which is agnostic about
  # whether its a file or URI.
  my $base_uri = new URI($base);
  unless (defined $base_uri->scheme) {
    $base_uri = URI->new_abs($base_uri, URI::file->cwd);
  }

  $uri = URI->new_abs($sys, $base_uri);
}
else {
  $uri = new URI($sys);
  unless (defined $uri->scheme)
{
    $uri = URI->new_abs($uri, URI::file->cwd);
  }
}

my $ua = $xp->{_lwpagent};
unless (defined $ua) {
  $ua = $xp->{_lwpagent} = new LWP::UserAgent();
  $ua->env_proxy();
}

my $req = new HTTP::Request('GET', $uri);

my $res = $ua->request($req);
if ($res->is_error) {
  $xp->{ErrorMessage} .= "\n" . $res->status_line . " $uri";
  return undef;
}

$xp->{_BaseStack} ||= [];
push(@{$xp->{_BaseStack}}, $base);

$xp->base($uri);

return $res->content;
}  # End lwp_ext_ent_handler

sub lwp_ext_ent_cleanup {
 my ($xp) = @_;

 $xp->base(pop(@{$xp->{_BaseStack}}));
}  # End lwp_ext_ent_cleanup

1;
```

Found in path(s):
* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/Parser/LWPExternEnt.pl
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** encoding.h
**
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* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/Parser.pm
* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/samples/canonical
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<!ENTITY   rights "All rights reserved" >
<!ENTITY   book   "La Peste: Albert Camus,
© 1947 %pub;. &rights;" >]]>

Found in path(s):
* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/samples/REC-xml-19980210.xml

1.199 cryptodev-linux 1.12

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1.200 usleep 1.0

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1.201 unifdef 2.12

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- end -

1.202 libpsl 0.21.1

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psl-make-dafsa and lookup_string_in_fixed_set.c.

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```

1.203 libjson-perl 4.03000

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```
NAME
 JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS
  use JSON; # imports encode_json, decode_json, to_json and from_json.

  # simple and fast interfaces (expect/generate UTF-8)

  $utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
  $perl_hash_or_arrayref  = decode_json $utf8_encoded_json_text;

  # OO-interface

  $json = JSON->new->allow_nonref;

  $json_text   = $json->encode( $perl_scalar );
  $perl_scalar = $json->decode( $json_text );

  $pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing

VERSION
    2.93

DESCRIPTION
 This module is a thin wrapper for JSON::XS-compatible modules with
 a few additional features. All the backend modules convert a Perl
 data structure to a JSON text as of RFC4627 (which we know is
 obsolete but we still stick to; see below for an option to support
 part of RFC7159) and vice versa. This module uses JSON::XS
```

by
default, and when JSON::XS is not available, this module falls
back on JSON::PP, which is in the Perl core since 5.14. If
JSON::PP is not available either, this module then falls back on
JSON::backportPP (which is actually JSON::PP in a different .pm
file) bundled in the same distribution as this module. You can
also explicitly specify to use Cpanel::JSON::XS, a fork of
JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between
them, including extra features that other modules don't support,
but as long as you use only common features (most important ones
are described below), migration from backend to backend should be
reasonably easy. For details, see each backend module you use.

CHOOSING BACKEND
This module respects an environmental variable called
"PERL_JSON_BACKEND" when it decides a backend module to use. If
this environmental variable is not set, it tries to load JSON::XS,
and if JSON::XS is not available,
it falls back on JSON::PP, and
then JSON::backportPP if JSON::PP is not available either.

If you always don't want it to fall back on pure perl modules, set
the variable like this ("export" may be "setenv", "set" and the
likes, depending on your environment):

```
  > export PERL_JSON_BACKEND=JSON::XS
```

If you prefer Cpanel::JSON::XS to JSON::XS, then:

```
  > export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::PP
```

You may also want to set this variable at the top of your test
files, in order not to be bothered with incompatibilities between
backends (you need to wrap this in "BEGIN", and set before
actually "use"-ing JSON module, as it decides its backend as soon
as it's loaded):

```
  BEGIN { $ENV{PERL_JSON_BACKEND}='JSON::backportPP'; }
  use JSON;
```

USING OPTIONAL FEATURES
There are a few options you can set when you "use" this module:

-support_by_pp
```
      BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }
```

```
    use JSON -support_by_pp;


  my $json = JSON->new;
    # escape_slash is for JSON::PP only.
    $json->allow_nonref->escape_slash->encode("/");
```

With this option, this module loads its pure perl backend along with its XS backend (if available), and lets the XS backend to watch if you set a flag only JSON::PP supports. When you do, the internal JSON::XS object is replaced with a newly created JSON::PP object with the setting copied from the XS object, so that you can use JSON::PP flags (and its slower "decode"/"encode" methods) from then on. In other words, this is not something that allows you to hook JSON::XS to change its behavior while keeping its speed. JSON::XS and JSON::PP objects are quite different (JSON::XS object is a blessed scalar reference, while JSON::PP object is a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not to use this option
and just to use JSON::PP
explicitly when you need JSON::PP features.

-convert_blessed_universally

```
    use JSON -convert_blessed_universally;

    my $json = JSON->new->allow_nonref->convert_blessed;
    my $object = bless {foo => 'bar'}, 'Foo';
    $json->encode($object); # => {"foo":"bar"}
```

JSON::XS-compatible backend modules don't encode blessed objects by default (except for their boolean values, which are typically blessed JSON::PP::Boolean objects). If you need to encode a data structure that may contain objects, you usually need to look into the structure and replace objects with alternative non-blessed values, or enable "convert_blessed" and provide a "TO_JSON" method for each object's (base) class that may be found in the structure, in order to let the methods replace the objects with whatever scalar values the methods return.

If you need to serialise data structures that may contain arbitrary objects, it's probably better to use other serialisers (such as Sereal or Storable for example), but if you do want to use this module for that purpose, "-convert_blessed_universally" option may help, which tweaks

"encode" method of the backend to install "UNIVERSAL::TO_JSON" method (locally) before encoding, so that all the objects that don't have their own "TO_JSON" method can fall back on the method in the "UNIVERSAL" namespace. Note that you still need to enable "convert_blessed" flag to actually encode objects in a data structure, and "UNIVERSAL::TO_JSON" method installed by this option only converts blessed hash/array references into their unblessed clone (including private keys/values that are not supposed to be exposed). Other blessed references will be converted into null.

This feature is experimental and may be removed in the future.

-no_export
When you don't want to import functional interfaces from a module, you usually supply "()" to its "use" statement.

```
use JSON (); # no functional interfaces
```

If you don't want to import functional interfaces, but you also want to use any of the above options, add "-no_export" to the option list.

```
# no functional interfaces, while JSON::PP support is enabled.
use JSON -support_by_pp, -no_export;
```

FUNCTIONAL INTERFACE
This section is taken from JSON::XS. "encode_json" and "decode_json" are exported by default.

This module also exports "to_json" and "from_json" for backward compatibility. These are slower, and may expect/generate different stuff from what "encode_json" and "decode_json" do, depending on their options. It's better just to use Object-Oriented interfaces than using these two functions.

encode_json
$json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string (that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

```
$json_text = JSON->new->utf8->encode($perl_scalar)
```

Except being faster.

decode_json
    $perl_scalar = decode_json $json_text

The opposite of "encode_json": expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference. Croaks on error.

This function call is functionally identical to:

    $perl_scalar = JSON->new->utf8->decode($json_text)

Except being faster.

to_json
   $json_text = to_json($perl_scalar[, $optional_hashref])

Converts the given Perl data structure to a Unicode string by default. Croaks on error.

Basically, this function call is functionally identical to:

   $json_text = JSON->new->encode($perl_scalar)

Except being slower.

You can pass an optional hash reference to modify its behavior, but that may change what "to_json" expects/generates (see "ENCODING/CODESET
FLAG NOTES" for details).

   $json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})
   # => JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)

from_json
   $perl_scalar = from_json($json_text[, $optional_hashref])

The opposite of "to_json": expects a Unicode string and tries to parse it, returning the resulting reference. Croaks on error.

Basically, this function call is functionally identical to:

    $perl_scalar = JSON->new->decode($json_text)

You can pass an optional hash reference to modify its behavior, but that may change what "from_json" expects/generates (see

"ENCODING/CODESET FLAG NOTES" for details).

```
$perl_scalar = from_json($json_text, {utf8 => 1})
# => JSON->new->utf8(1)->decode($json_text)
```

JSON::is_bool

```
$is_boolean = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like 1 and 0 respectively and are also used to represent JSON "true" and "false" in Perl strings.

See MAPPING, below, for more information on how JSON values are mapped to Perl.

COMMON OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or decoding style, within the limits of supported formats.

new

```
$json = JSON->new
```

Creates a new JSON::XS-compatible backend object that can be used to de/encode JSON strings. All boolean flags described below are by default *disabled*.

The mutators for flags all return the backend object again and thus calls can be chained:

```
my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}
```

ascii

```
$json = $json->ascii([$enable])

$enabled = $json->get_ascii
```

If $enable is true (or missing), then the "encode" method will not generate characters outside the code range 0..127 (which is ASCII). Any Unicode characters outside that range will be escaped using either a single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting encoded JSON text can be treated as a native Unicode string, an

ascii-encoded, latin1-encoded or UTF-8 encoded string, or any
other superset of ASCII.

If $enable is false, then the "encode" method will not escape
Unicode characters unless required by the JSON syntax or other
flags. This results in a faster and more compact format.

See also the section *ENCODING/CODESET FLAG NOTES* later in this
document.

The main use for this flag is to produce JSON texts that can be
transmitted over a 7-bit channel, as the encoded JSON texts will
not contain any 8 bit characters.

```
  JSON->new->ascii(1)->encode([chr 0x10401])
  => ["\ud801\udc01"]
```

latin1
```
    $json = $json->latin1([$enable])

    $enabled = $json->get_latin1
```

If $enable is true (or missing), then the "encode" method will
encode the resulting JSON text as latin1 (or iso-8859-1), escaping
 any characters outside the code range 0..255. The resulting string
can be treated as a latin1-encoded JSON text or a native Unicode
string. The "decode" method will not be affected in any way by
this flag, as "decode" by default expects Unicode, which is a
strict superset of latin1.

If $enable is false, then the "encode" method will not escape
Unicode characters unless required by the JSON syntax or other
flags.

See also the section *ENCODING/CODESET FLAG NOTES* later in this
document.

The main use for this flag is efficiently encoding binary data as
JSON text, as most octets will not be escaped, resulting in a
smaller encoded size. The disadvantage is that the resulting JSON
text is encoded in latin1 (and must correctly be treated as such
when storing and transferring), a rare encoding for JSON. It is
therefore most useful when you want to store data structures known
to contain binary data efficiently in files or databases, not when
talking
to other JSON encoders/decoders.

```
  JSON->new->latin1->encode (["\x{89}\x{abc}"]
```

```
  => ["\x{89}\\u0abc"]    # (perl syntax, U+abc escaped, U+89 not)
```

utf8

```
    $json = $json->utf8([$enable])

    $enabled = $json->get_utf8
```

If $enable is true (or missing), then the "encode" method will encode the JSON result into UTF-8, as required by many protocols, while the "decode" method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bytewise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If $enable is false, then the "encode" method will return the JSON string as a (non-encoded) Unicode string, while "decode" expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section *ENCODING/CODESET FLAG NOTES* later in this document.

Example, output UTF-16BE-encoded JSON:

```
  use Encode;
  $jsontext = encode "UTF-16BE", JSON->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
  use Encode;
  $object = JSON->new->decode (decode "UTF-32LE", $jsontext);
```

pretty

```
    $json = $json->pretty([$enable])
```

This enables (or disables) all of the "indent", "space_before" and "space_after" (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

indent

```
    $json = $json->indent([$enable])

    $enabled = $json->get_indent
```

If $enable is true (or missing), then the "encode" method will use a multiline format as output, putting every array member or

object/hash key-value pair into its own line, indenting them
properly.

If $enable is false, no newlines or indenting will be produced,
and the resulting JSON text is guaranteed not to contain
any
"newlines".

This setting has no effect when decoding JSON texts.

space_before
    $json = $json->space_before([$enable])

    $enabled = $json->get_space_before

If $enable is true (or missing), then the "encode" method will add
an extra optional space before the ":" separating keys from values
in JSON objects.

If $enable is false, then the "encode" method will not add any
extra space at those places.

This setting has no effect when decoding JSON texts. You will also
most likely combine this setting with "space_after".

Example, space_before enabled, space_after and indent disabled:

   {"key" :"value"}

space_after
    $json = $json->space_after([$enable])

    $enabled = $json->get_space_after

If $enable is true (or missing), then the "encode" method will add
an extra optional space after the ":" separating keys from values
in JSON objects and extra whitespace after the "," separating
key-value pairs and array members.

If
$enable is false, then the "encode" method will not add any
extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

   {"key": "value"}

relaxed
    $json = $json->relaxed([$enable])

    $enabled = $json->get_relaxed

If $enable is true (or missing), then "decode" will accept some
extensions to normal JSON syntax (see below). "encode" will not be
affected in anyway. *Be aware that this option makes you accept
invalid JSON texts as if they were valid!*. I suggest only to use
this option to parse application-specific files written by humans
(configuration files, resource files etc.)

If $enable is false (the default), then "decode" will only accept
valid JSON texts.

Currently accepted extensions are:

*   list items can have an end-comma

    JSON *separates* array elements and key-value pairs with
    commas. This can be annoying if you write JSON texts
manually
    and want to be able to quickly append elements, so this
    extension accepts comma at the end of such items not just
    between them:

      [
        1,
        2, <- this comma not normally allowed
      ]
      {
        "k1": "v1",
        "k2": "v2", <- this comma not normally allowed
      }

*   shell-style '#'-comments

    Whenever JSON allows whitespace, shell-style comments are
    additionally allowed. They are terminated by the first
    carriage-return or line-feed character, after which more
    white-space and comments are allowed.

      [
        1, # this comment not allowed in JSON
          # neither this one...
      ]

canonical
    $json = $json->canonical([$enable])

    $enabled = $json->get_canonical

 If $enable is true (or missing), then the "encode" method will
 output JSON objects by sorting their keys. This is adding a
 comparatively high overhead.

 If $enable is false,
 then the "encode" method will output
 key-value pairs in the order Perl stores them (which will likely
 change between runs of the same script, and can change even within
 the same run from 5.18 onwards).

 This option is useful if you want the same data structure to be
 encoded as the same JSON text (given the same overall settings).
 If it is disabled, the same hash might be encoded differently even
 if contains the same data, as key-value pairs have no inherent
 ordering in Perl.

 This setting has no effect when decoding JSON texts.

 This setting has currently no effect on tied hashes.

allow_nonref
    $json = $json->allow_nonref([$enable])

    $enabled = $json->get_allow_nonref

 If $enable is true (or missing), then the "encode" method can
 convert a non-reference into its corresponding string, number or
 null JSON value, which is an extension to RFC4627. Likewise,
 "decode" will accept those JSON values instead of croaking.

 If $enable is false, then
 the "encode" method will croak if it
 isn't passed an arrayref or hashref, as JSON texts must either be
 an object or array. Likewise, "decode" will croak if given
 something that is not a JSON object or array.

 Example, encode a Perl scalar as JSON value with enabled
 "allow_nonref", resulting in an invalid JSON text:

   JSON->new->allow_nonref->encode ("Hello, World!")
   => "Hello, World!"

allow_unknown

$json = $json->allow_unknown ([$enable])

$enabled = $json->get_allow_unknown

If $enable is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled separately by c<allow_nonref>.

If $enable is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in
any way, and it is
recommended to leave it off unless you know your communications partner.

allow_blessed
$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed

See "OBJECT SERIALISATION" for details.

If $enable is true (or missing), then the "encode" method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON "null" value is encoded instead of the object.

If $enable is false (the default), then "encode" will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on "decode".

convert_blessed
$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

See "OBJECT SERIALISATION" for details.

If $enable is true (or missing), then "encode", upon encountering a blessed object, will check for the availability of the "TO_JSON" method on the object's class. If found, it
will be called in
scalar context and the resulting scalar will be encoded instead of

the object.

The "TO_JSON" method may safely call die if it wants. If "TO_JSON" returns other blessed objects, those will be handled in the same way. "TO_JSON" must take care of not causing an endless recursion cycle (== crash) in this case. The name of "TO_JSON" was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with any "to_json" function or method.

If $enable is false (the default), then "encode" will not consider this type of conversion.

This setting has no effect on "decode".

filter_json_object
    $json = $json->filter_json_object([$coderef])

When $coderef is specified, it will be called from "decode" each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: *not* "undef", which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When $coderef is omitted or undefined, any existing callback will be removed and "decode" will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```
   my $js = JSON->new->filter_json_object (sub { 5 });
   # returns [5]
   $js->decode ('[{}]'); # the given subroutine takes a hash reference.
   # throw an exception because allow_nonref is not enabled
   # so a lone 5 is not allowed.
   $js->decode ('{"a":1, "b":2}');
```

filter_json_single_key_object
    $json = $json->filter_json_single_key_object($key [=> $coderef])

Works remotely similar to "filter_json_object", but is only called for JSON objects having a single key named $key.

This $coderef is called before the one specified via "filter_json_object", if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even "undef" but the empty list), the callback from "filter_json_object" will be called next, as if no single-key callback were specified.

If $coderef is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the "filter_json_object" one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "__class_whatever__", or "$__dollars_are_rarely_used__$" or "}ugly_brace_placement", or even things like "__class_md5sum(classname)__", to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form "{ "__widget__" => <id> }" into the corresponding $WIDGET{<id>} object:

```
  # return whatever is in $WIDGET{5}:
  JSON
    ->new
    ->filter_json_single_key_object (__widget__ => sub {
        $WIDGET{ $_[0] }
      })
    ->decode ('{"__widget__": 5')

  # this can be used with a TO_JSON method in some "widget" class
  # for serialisation to json:
  sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
      $self->{id} = ..get..some..id..;
      $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
  }
```

max_depth
    $json = $json->max_depth([$maximum_nesting_depth])

    $max_depth = $json->get_max_depth

 Sets the maximum nesting level (default 512) accepted while
 encoding or decoding. If a higher nesting level is detected in
 JSON text or a Perl data structure, then the encoder and decoder
 will stop and croak at that point.

 Nesting level is defined by number of hash- or arrayrefs that the
 encoder needs to traverse to reach a given point or the number of
 "{" or "[" characters without their matching closing parenthesis
 crossed to reach a given character in a string.

 Setting the maximum depth to one disallows any nesting, so that
 ensures that the object is only a single hash/object or array.

 If no argument is given, the highest possible setting will be
 used, which is rarely useful.

max_size
    $json = $json->max_size([$maximum_string_size])

    $max_size = $json->get_max_size

 Set the maximum length a JSON text may have (in bytes) where
 decoding is being attempted. The default is 0, meaning no limit.
  When "decode" is called on a string that is longer then this many
 bytes, it will not attempt to decode the string but throw an
 exception. This setting has no effect on "encode" (yet).

 If no argument is given, the limit check will be deactivated (same
 as when 0 is specified).

encode
    $json_text = $json->encode($perl_scalar)

 Converts the given Perl value or data structure to its JSON
 representation. Croaks on error.

decode
    $perl_scalar = $json->decode($json_text)

 The opposite of "encode": expects a JSON text and tries to parse
 it, returning the resulting simple scalar or reference. Croaks on
 error.

decode_prefix
    ($perl_scalar, $characters) = $json->decode_prefix($json_text)

 This works like the "decode" method, but instead of raising an
 exception when there is trailing garbage after the first JSON
 object, it will silently stop parsing there and return the number
 of characters consumed so far.

 This is useful if your JSON texts are not
 delimited by an outer
 protocol and you need to know where the JSON text ends.

   JSON->new->decode_prefix ("[1] the tail")
   => ([1], 3)

ADDITIONAL METHODS
 The following methods are for this module only.

backend
    $backend = $json->backend

 Since 2.92, "backend" method returns an abstract backend module
 used currently, which should be JSON::Backend::XS (which inherits
 JSON::XS or Cpanel::JSON::XS), or JSON::Backend::PP (which
 inherits JSON::PP), not to monkey-patch the actual backend module
 globally.

 If you need to know what is used actually, use "isa", instead of
 string comparison.

is_xs
    $boolean = $json->is_xs

 Returns true if the backend inherits JSON::XS or Cpanel::JSON::XS.

is_pp
    $boolean = $json->is_pp

 Returns true if the backend inherits JSON::PP.

property
    $settings = $json->property()

 Returns a reference to a hash that holds all the common flag
 settings.

    $json = $json->property('utf8' => 1)

$value
= $json->property('utf8') # 1

You can use this to get/set a value of a particular flag.

INCREMENTAL PARSING
This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using "decode_prefix" to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

This module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect mismatched parentheses. The only thing it guarantees is
that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. "max_size") to ensure the parser will stop parsing in the presence if syntax errors.

The following methods implement this incremental parser.

incr_parse
$json->incr_parse([$string]) # void context

$obj_or_undef = $json->incr_parse([$string]) # scalar context

@obj_or_empty = $json->incr_parse([$string]) # list context

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If $string is given, then this string is appended to the already existing JSON fragment stored in the $json object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called
in scalar context, then it will try to
extract exactly *one* JSON object. If that is successful, it will
return this object, otherwise it will return "undef". If there is
a parse error, this method will croak just as "decode" would do
(one can then use "incr_skip" to skip the erroneous part). This is
the most common way of using the method.

And finally, in list context, it will try to extract as many
objects from the stream as it can find and return them, or the
empty list otherwise. For this to work, there must be no
separators (other than whitespace) between the JSON objects or
arrays, instead they must be concatenated back-to-back. If an
error occurs, an exception will be raised as in the scalar context
case. Note that in this case, any previously-parsed JSON texts
will be lost.

Example: Parse some JSON arrays/objects in a given string and
return them.

```
    my @objs = JSON->new->incr_parse ("[5][7][1,2]");
```

incr_text

```
    $lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an
lvalue, that is, you can manipulate it. This *only* works when a
preceding call to "incr_parse" in *scalar context* successfully
returned an object. Under all other circumstances you must not
call this function (I mean it. although in simple tests it might
actually work, it *will* fail under real world conditions). As a
special exception, you can also call this method before having
parsed anything.

That means you can only use this function to look at or manipulate
text before or after complete JSON objects, not while the parser
is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text
after a JSON object or b) parsing multiple JSON objects separated
by non-JSON text (such as commas).

incr_skip

```
    $json->incr_skip
```

This will reset the state of the incremental parser and will
remove the parsed text from the input buffer so far.

This is
useful after "incr_parse" died, in which case the input buffer and
incremental parser state is left unchanged, to skip the text
parsed so far and to reset the parse state.

The difference to "incr_reset" is that only text until the parse
error occurred is removed.

incr_reset
    $json->incr_reset

This completely resets the incremental parser, that is, after this
call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and
want to ignore any trailing data, which means you have to reset
the parser after each successful decode.

MAPPING
Most of this section is also taken from JSON::XS.

This section describes how the backend modules map Perl values to
JSON values and vice versa. These mappings are designed to "do the
right thing" in most circumstances automatically, preserving
round-tripping characteristics (what you put in comes out as
something equivalent).

For the more enlightened:
note that in the following descriptions,
lowercase *perl* refers to the Perl interpreter, while uppercase
Perl refers to the abstract Perl language itself.

JSON -> PERL
object
    A JSON object becomes a reference to a hash in Perl. No
    ordering of object keys is preserved (JSON does not preserver
    object key ordering itself).

array
    A JSON array becomes a reference to an array in Perl.

string
    A JSON string becomes a string scalar in Perl - Unicode
    codepoints in JSON are represented by the same codepoints in
    the Perl string, so no manual decoding is necessary.

number
    A JSON number becomes either an integer, numeric (floating

point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, this module will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, this module only guarantees precision up to but not including the least significant bit.

true, false

These JSON atoms become "JSON::true" and "JSON::false", respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check whether a scalar is a JSON boolean by using the "JSON::is_bool" function.

null

A JSON null atom becomes "undef" in Perl.

shell-style comments ("# *text*")

As a nonstandard extension to the JSON syntax that is enabled by the "relaxed" setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

hash references
   Perl hash references become JSON objects. As there is no
   inherent ordering in hash keys (or JSON objects), they will
   usually be encoded in a pseudo-random order.
This module can
   optionally sort the hash keys (determined by the *canonical*
   flag), so the same data structure will serialise to the same
   JSON text (given same settings and version of the same
   backend), but this incurs a runtime overhead and is only
   rarely useful, e.g. when you want to compare some JSON text
   against another for equality.

array references
   Perl array references become JSON arrays.

other references
   Other unblessed references are generally not allowed and will
   cause an exception to be thrown, except for references to the
   integers 0 and 1, which get turned into "false" and "true"
   atoms in JSON. You can also use "JSON::false" and "JSON::true"
   to improve readability.

      encode_json [\0,JSON::true]   # yields [false,true]

JSON::true, JSON::false, JSON::null
   These special values become JSON true and JSON false values,
   respectively. You can also use "\1" and "\0" directly
if you
   want.

blessed objects
   Blessed objects are not directly representable in JSON, but
   "JSON::XS" allows various ways of handling objects. See
   "OBJECT SERIALISATION", below, for details.

simple scalars
   Simple Perl scalars (any scalar that is not a reference) are
   the most difficult objects to encode: this module will encode
   undefined scalars as JSON "null" values, scalars that have
   last been used in a string context before encoding as JSON
   strings, and anything else as number value:

      # dump as number
      encode_json [2]   # yields [2]
      encode_json [-3.0e17]   # yields [-3e+17]
      my $value = 5; encode_json [$value] # yields [5]

```
   # used as string, so dump as string
   print $value;
   encode_json [$value]          # yields ["5"]

   # undef becomes null
   encode_json [undef]           # yields [null]
```

You can force the type to be a string by stringifying it:

```
   my $x = 3.1; # some variable containing a number
   "$x";        # stringified
   $x .= "";    # another, more awkward way to stringify
   print $x;    # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
   my $x = "3"; # some variable containing a string
   $x += 0;     # numify it, ensuring it will be dumped as a number
   $x *= 1;     # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure, ways. Tell me if you need this capability (but don't forget to explain why it's needed :).

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

OBJECT SERIALISATION

As for Perl objects, this module only supports a pure JSON representation (without the ability to deserialise the object automatically again).

SERIALISATION

What happens when this module encounters a Perl object depends on the "allow_blessed" and "convert_blessed" settings, which are used in this order:

1. "convert_blessed" is enabled and the object has a "TO_JSON" method.

   In this case, the "TO_JSON" method of the object is invoked in scalar context. It must return a single scalar that can be

directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following "TO_JSON" method will convert all URI objects to JSON strings when serialised. The fact that these values originally were URI objects is lost.

```
sub URI::TO_JSON {
   my ($uri) = @_;

 $uri->as_string
}
```

2. "allow_blessed" is enabled.
   The object will be serialised as a JSON null value.

3. none of the above
   If none of the settings are enabled or the respective methods are missing, this module throws an exception.

ENCODING/CODESET FLAG NOTES
This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify encodings or codesets - "utf8", "latin1" and "ascii". There seems to be some confusion on what these do, so here is a short comparison:

"utf8" controls whether the JSON text created by "encode" (and expected by "decode") is UTF-8 encoded or not, while "latin1" and "ascii" only control whether "encode" escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to "encode" and "decode", that
is, texts encoded with any combination
of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and *encodes* them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and ASCII are both codesets *and* encodings at the same time, which

can be confusing.

"utf8" flag disabled
When "utf8" is disabled (the default), then "encode"/"decode" generate and expect Unicode strings, that is, characters with high ordinal Unicode values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

"utf8" flag enabled
If the "utf8"-flag is enabled, "encode"/"decode" will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The "utf8" flag therefore switches between two modes: disabled means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

"latin1" or "ascii" flags enabled
With "latin1" (or "ascii") enabled, "encode" will escape characters with ordinal values > 255 (> 127 with "ascii") and encode the remaining characters as specified by the "utf8" flag.

If "utf8" is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If "utf8" is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using "\uXXXX" then before.

Note that ISO-8859-1-*encoded* strings are not compatible with UTF-8 encoding, while
ASCII-encoded strings are. That is
because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 *codeset* being a subset of Unicode), while ASCII is.

Surprisingly, "decode" will ignore these flags and so treat all input values as governed by the "utf8" flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither "latin1" nor "ascii" are incompatible with the "utf8" flag - they only govern when the JSON output engine escapes a character or not.

The main use for "latin1" is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for "ascii" is to force the output to not contain characters with values > 127, which means you can interpret the resulting
string as UTF-8, ISO-8859-1, ASCII, KOI8-R or
most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

BACKWARD INCOMPATIBILITY
Since version 2.90, stringification (and string comparison) for "JSON::true" and "JSON::false" has not been overloaded. It shouldn't matter as long as you treat them as boolean values, but a code that expects they are stringified as "true" or "false" doesn't work as you have expected any more.

```
if (JSON::true eq 'true') {  # now fails

print "The result is $JSON::true now."; # => The result is 1 now.
```

And now these boolean values don't inherit JSON::Boolean, either. When you need to test a value is a JSON boolean value or not, use "JSON::is_bool"

function, instead of testing the value inherits a
particular boolean class or not.

BUGS
Please report bugs on backend selection and additional features
this module provides to RT or GitHub issues for this module:

https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON
https://github.com/makamaka/JSON/issues

Please report bugs and feature requests on decoding/encoding and
boolean behaviors to the author of the backend module you are
using.

SEE ALSO
JSON::XS, Cpanel::JSON::XS, JSON::PP for backends.

JSON::MaybeXS, an alternative that prefers Cpanel::JSON::XS.

"RFC4627"(<http://www.ietf.org/rfc/rfc4627.txt>)

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JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

The release of this new version owes to the courtesy of Marc
Lehmann.

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under the same terms as Perl itself.

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/README
No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP56 - Helper module in using JSON::PP in Perl 5.6

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

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=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/lib/JSON/backportPP/Compat5006.pm
No license file was found, but licenses were detected in source scan.

```
use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;


printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );


print "----------------------------------\n";
```

```
print "->encode()\n";
print "----------------------------------\n";

$result = timethese( -$wanttime,
  {
     'JSON::PP' => sub { $pp->encode( $perl ) },
     'JSON::XS' => sub { $xs->encode( $perl ) },
  },
  'none'
);
cmpthese( $result );

print "----------------------------------\n";
print "->pretty->canonical->encode()\n";
print "----------------------------------\n";

$pp->pretty->canonical;
$xs->pretty->canonical;

$result
 = timethese( -$wanttime,
  {
     'JSON::PP' => sub { $pp->encode( $perl ) },
     'JSON::XS' => sub { $xs->encode( $perl ) },
  },
  'none'
);
cmpthese( $result );

print "----------------------------------\n";


__END__

=pod

=head1 SYNOPSYS

 bench_encode.pl json-file
 # or
 bench_encode.pl json-file minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> encoding benchmark.

=head1 AUTHOR
```

makamaka

=head1 LISENCE

This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/eg/bench_encode.pl
No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP - JSON::XS compatible pure-Perl module.

=head1 SYNOPSIS

use JSON::PP;

exported functions, they croak on error
and expect/generate UTF-8

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

OO-interface

$json = JSON::PP->new->ascii->pretty->allow_nonref;

$pretty_printed_json_text = $json->encode($perl_scalar);
$perl_scalar = $json->decode($json_text);

Note that JSON version 2.0 and above will automatically use
JSON::XS or JSON::PP, so you should be able to just:

use JSON;

=head1 VERSION

  4.05

=head1 DESCRIPTION

JSON::PP is a pure perl JSON decoder/encoder, and (almost) compatible to much
faster L<JSON::XS> written by Marc Lehmann in C. JSON::PP works as
a fallback module when you use L<JSON> module without having
installed JSON::XS.

Because of this fallback feature of JSON.pm,
 JSON::PP tries not to
be more JavaScript-friendly than JSON::XS (i.e. not to escape extra
characters such as U+2028 and U+2029, etc),
in order for you not to lose such JavaScript-friendliness silently
when you use JSON.pm and install JSON::XS for speed or by accident.
If you need JavaScript-friendly RFC7159-compliant pure perl module,
try L<JSON::Tiny>, which is derived from L<Mojolicious> web
framework and is also smaller and faster than JSON::PP.

JSON::PP has been in the Perl core since Perl 5.14, mainly for
CPAN toolchain modules to parse META.json.

=head1 FUNCTIONAL INTERFACE

This section is taken from JSON::XS almost verbatim. C<encode_json>
and C<decode_json> are exported by default.

=head2 encode_json

  $json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string
(that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

  $json_text = JSON::PP->new->utf8->encode($perl_scalar)

Except
 being faster.

=head2 decode_json

  $perl_scalar = decode_json $json_text

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries
to parse that as an UTF-8 encoded JSON text, returning the resulting
reference. Croaks on error.

This function call is functionally identical to:

  $perl_scalar = JSON::PP->new->utf8->decode($json_text)

Except being faster.

=head2 JSON::PP::is_bool

  $is_boolean = JSON::PP::is_bool($scalar)

Returns true if the passed scalar represents either JSON::PP::true or
JSON::PP::false, two constants that act like C<1> and C<0> respectively
and are also used to represent JSON C<true> and C<false> in Perl strings.

See L<MAPPING>, below, for more information on how JSON values are mapped to
Perl.

=head1 OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or
decoding style, within the limits of supported formats.

=head2 new

  $json
 = JSON::PP->new

Creates a new JSON::PP object that can be used to de/encode JSON
strings. All boolean flags described below are by default I<disabled>
(with the exception of C<allow_nonref>, which defaults to I<enabled> since
version C<4.0>).

The mutators for flags all return the JSON::PP object again and thus calls can
be chained:

 my $json = JSON::PP->new->utf8->space_after->encode({a => [1,2]})
 => {"a": [1, 2]}

=head2 ascii

  $json = $json->ascii([$enable])

  $enabled = $json->get_ascii

If C<$enable> is true (or missing), then the C<encode> method will not
generate characters outside the code range C<0..127> (which is ASCII). Any
Unicode characters outside that range will be escaped using either a
single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence,
as per RFC4627. The resulting encoded JSON text can be treated as a native

Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string,
or any other superset of ASCII.

If C<$enable>
 is false, then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags. This results
in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be
transmitted over a 7-bit channel, as the encoded JSON texts will not
contain any 8 bit characters.

 JSON::PP->new->ascii(1)->encode([chr 0x10401])
 => ["\ud801\udc01"]

=head2 latin1

  $json = $json->latin1([$enable])

  $enabled = $json->get_latin1

If C<$enable> is true (or missing), then the C<encode> method will encode
the resulting JSON text as latin1 (or iso-8859-1), escaping any characters
outside the code range C<0..255>. The resulting string can be treated as a
latin1-encoded JSON text or a native Unicode string. The C<decode> method
will not be affected in any way by this flag, as C<decode> by default
expects Unicode, which is a strict superset of latin1.

If
 C<$enable> is false, then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON
text, as most octets will not be escaped, resulting in a smaller encoded
size. The disadvantage is that the resulting JSON text is encoded
in latin1 (and must correctly be treated as such when storing and
transferring), a rare encoding for JSON. It is therefore most useful when
you want to store data structures known to contain binary data efficiently
in files or databases, not when talking to other JSON encoders/decoders.

 JSON::PP->new->latin1->encode (["\x{89}\x{abc}"]
 => ["\x{89}\\u0abc"]   # (perl syntax, U+abc escaped, U+89 not)

=head2 utf8

$json = $json->utf8([$enable])

$enabled = $json->get_utf8

If C<$enable> is true (or missing), then the C<encode> method will encode
the
JSON result into UTF-8, as required by many protocols, while the
C<decode> method expects to be handled an UTF-8-encoded string. Please
note that UTF-8-encoded strings do not contain any characters outside the
range C<0..255>, they are thus useful for bytewise/binary I/O. In future
versions, enabling this option might enable autodetection of the UTF-16
and UTF-32 encoding families, as described in RFC4627.

If C<$enable> is false, then the C<encode> method will return the JSON
string as a (non-encoded) Unicode string, while C<decode> expects thus a
Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs
to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$jsontext = encode "UTF-16BE", JSON::PP->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
use Encode;
$object = JSON::PP->new->decode (decode "UTF-32LE", $jsontext);
```

=head2
pretty

$json = $json->pretty([$enable])

This enables (or disables) all of the C<indent>, C<space_before> and
C<space_after> (and in the future possibly more) flags in one call to
generate the most readable (or most compact) form possible.

=head2 indent

$json = $json->indent([$enable])

$enabled = $json->get_indent

If C<$enable> is true (or missing), then the C<encode> method will use a multiline
format as output, putting every array member or object/hash key-value pair

into its own line, indenting them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the
resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

The default indent space length is three.
You can use C<indent_length> to change the length.

=head2 space_before

  $json = $json->space_before([$enable])

  $enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode>
 method will add an extra
optional space before the C<:> separating keys from values in JSON objects.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts. You will also
most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

 {"key" :"value"}

=head2 space_after

  $json = $json->space_after([$enable])

  $enabled = $json->get_space_after

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space after the C<:> separating keys from values in JSON objects
and extra whitespace after the C<,> separating key-value pairs and array
members.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

```
 {"key": "value"}
```

=head2 relaxed

```
   $json = $json->relaxed([$enable])

  $enabled = $json->get_relaxed
```

If C<$enable> is true (or missing), then C<decode> will accept some extensions to normal JSON syntax (see below). C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
 [
    1,
    2, <- this comma not normally allowed
 ]
 {
    "k1": "v1",
    "k2": "v2", <- this comma
 not normally allowed
 }
```

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
 [
    1, # this comment not allowed in JSON
       # neither this one...
```

```
]
```

=item * C-style multiple-line '/* */'-comments (JSON::PP only)

Whenever JSON allows whitespace, C-style multiple-line comments are additionally
allowed. Everything between C</*> and C<*/> is a comment, after which
more white-space and comments are allowed.

```
[
   1, /* this comment not allowed in JSON */
      /* neither this one... */
]
```

=item * C++-style one-line '//'-comments (JSON::PP only)

Whenever JSON allows whitespace, C++-style one-line comments are additionally
allowed. They are terminated by the first carriage-return or line-feed
character, after which more white-space and comments are allowed.

```
[
   1, // this comment
not allowed in JSON
      // neither this one...
]
```

=item * literal ASCII TAB characters in strings

Literal ASCII TAB characters are now allowed in strings (and treated as
C<\t>).

```
[
   "Hello\tWorld",
   "Hello<TAB>World", # literal <TAB> would not normally be allowed
]
```

=back

=head2 canonical

```
  $json = $json->canonical([$enable])

  $enabled = $json->get_canonical
```

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects
by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value
pairs in the order Perl stores them (which will likely change between runs

of the same script, and can change even within the same run from 5.18
onwards).

This option is useful if you want the same data structure to be encoded as
the same JSON text (given the same overall settings). If it is disabled,
the same hash might be encoded differently even if contains the same
 data,
as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

=head2 allow_nonref

  $json = $json->allow_nonref([$enable])

  $enabled = $json->get_allow_nonref

Unlike other boolean options, this opotion is enabled by default beginning
with version C<4.0>.

If C<$enable> is true (or missing), then the C<encode> method can convert a
non-reference into its corresponding string, number or null JSON value,
which is an extension to RFC4627. Likewise, C<decode> will accept those JSON
values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't
passed an arrayref or hashref, as JSON texts must either be an object
or array. Likewise, C<decode> will croak if given something that is not a
JSON object or array.

Example, encode a Perl scalar as JSON value without enabled C<allow_nonref>,
resulting in an error:

 JSON::PP->new->allow_nonref(0)->encode
("Hello, World!")
 => hash- or arrayref expected...

=head2 allow_unknown

  $json = $json->allow_unknown([$enable])

  $enabled = $json->get_allow_unknown

If C<$enable> is true (or missing), then C<encode> will I<not> throw an
exception when it encounters values it cannot represent in JSON (for
example, filehandles) but instead will encode a JSON C<null> value. Note

that blessed objects are not included here and are handled separately by
c<allow_blessed>.

If C<$enable> is false (the default), then C<encode> will throw an
exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to
leave it off unless you know your communications partner.

=head2 allow_blessed

  $json = $json->allow_blessed([$enable])

  $enabled = $json->get_allow_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then the C<encode> method will not
barf when it encounters
 a blessed reference that it cannot convert
otherwise. Instead, a JSON C<null> value is encoded instead of the object.

If C<$enable> is false (the default), then C<encode> will throw an
exception when it encounters a blessed object that it cannot convert
otherwise.

This setting has no effect on C<decode>.

=head2 convert_blessed

  $json = $json->convert_blessed([$enable])

  $enabled = $json->get_convert_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a
blessed object, will check for the availability of the C<TO_JSON> method
on the object's class. If found, it will be called in scalar context and
the resulting scalar will be encoded instead of the object.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON>
returns other blessed objects, those will be handled in the same
way. C<TO_JSON> must take care of not causing an endless recursion cycle
(== crash) in this case. The name of C<TO_JSON>
 was chosen because other
methods called by the Perl core (== not by the user of the object) are
usually in upper case letters and to avoid collisions with any C<to_json>

function or method.

If C<$enable> is false (the default), then C<encode> will not consider
this type of conversion.

This setting has no effect on C<decode>.

=head2 allow_tags

  $json = $json->allow_tags([$enable])

  $enabled = $json->get_allow_tags

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a
blessed object, will check for the availability of the C<FREEZE> method on
the object's class. If found, it will be used to serialise the object into
a nonstandard tagged JSON value (that JSON decoders cannot decode).

It also causes C<decode> to parse such tagged JSON values and deserialise
them via a call to the C<THAW> method.

If C<$enable> is false (the default), then C<encode> will not consider
this type of conversion, and tagged JSON values will
 cause a parse error
in C<decode>, as if tags were not part of the grammar.

=head2 boolean_values

  $json->boolean_values([$false, $true])

  ($false, $true) = $json->get_boolean_values

By default, JSON booleans will be decoded as overloaded
C<$JSON::PP::false> and C<$JSON::PP::true> objects.

With this method you can specify your own boolean values for decoding -
on decode, JSON C<false> will be decoded as a copy of C<$false>, and JSON
C<true> will be decoded as C<$true> ("copy" here is the same thing as
assigning a value to another variable, i.e. C<$copy = $false>).

This is useful when you want to pass a decoded data structure directly
to other serialisers like YAML, Data::MessagePack and so on.

Note that this works only when you C<decode>. You can set incompatible
boolean objects (like L<boolean>), but when you C<encode> a data structure
with such boolean objects, you still need to enable C<convert_blessed>

(and add a C<TO_JSON> method if necessary).

Calling this method
 without any arguments will reset the booleans
to their default values.

C<get_boolean_values> will return both C<$false> and C<$true> values, or
the empty list when they are set to the default.

=head2 filter_json_object

   $json = $json->filter_json_object([$coderef])

When C<$coderef> is specified, it will be called from C<decode> each
time it decodes a JSON object. The only argument is a reference to
the newly-created hash. If the code references returns a single scalar
(which need not be a reference), this value (or rather a copy of it) is
inserted into the deserialised data structure. If it returns an empty
list (NOTE: I<not> C<undef>, which is a valid scalar), the original
deserialised hash will be inserted. This setting can slow down decoding
considerably.

When C<$coderef> is omitted or undefined, any existing callback will
be removed and C<decode> will not change the deserialised hash in any
way.

Example, convert all JSON objects into the integer 5:

  my $js = JSON::PP->new->filter_json_object(sub
 { 5 });
  # returns [5]
  $js->decode('[{}]');
  # returns 5
  $js->decode('{"a":1, "b":2}');

=head2 filter_json_single_key_object

   $json = $json->filter_json_single_key_object($key [=> $coderef])

Works remotely similar to C<filter_json_object>, but is only called for
JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via
C<filter_json_object>, if any. It gets passed the single value in the JSON
object. If it returns a single value, it will be inserted into the data
structure. If it returns nothing (not even C<undef> but the empty list),
the callback from C<filter_json_object> will be called next, as if no
single-key callback were specified.

If C<$coderef> is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the C<filter_json_object> one, decoding speed will not usually suffer as much.
Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or C<$__dollars_are_rarely_used__$> or C<}ugly_brace_placement>, or even things like C<__class_md5sum(classname)__>, to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >> into the corresponding C<< $WIDGET{<id>} >> object:

```
 # return whatever is in $WIDGET{5}:
 JSON::PP
    ->new
    ->filter_json_single_key_object (__widget__ => sub {
          $WIDGET{ $_[0] }
       })
    ->decode ('{"__widget__": 5')

 # this can be used with a TO_JSON method in some "widget" class
 # for serialisation to
json:
 sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
       $self->{id} = ..get..some..id..;
       $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
 }
```

=head2 shrink

```
  $json = $json->shrink([$enable])

  $enabled = $json->get_shrink
```

If C<$enable> is true (or missing), the string returned by C<encode> will
be shrunk (i.e. downgraded if possible).

The actual definition of what shrink does might change in future versions,
but it will always try to save space at the expense of time.

If C<$enable> is false, then JSON::PP does nothing.

=head2 max_depth

  $json = $json->max_depth([$maximum_nesting_depth])

  $max_depth = $json->get_max_depth

Sets the maximum nesting level (default C<512>) accepted while encoding
or decoding. If a higher nesting level is detected in JSON text or a Perl
data structure, then the encoder and decoder will stop and croak at that
point.

Nesting level is defined by number of
 hash- or arrayrefs that the encoder
needs to traverse to reach a given point or the number of C<{> or C<[>
characters without their matching closing parenthesis crossed to reach a
given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures
that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which
is rarely useful.

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 max_size

  $json = $json->max_size([$maximum_string_size])

  $max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is
being attempted. The default is C<0>, meaning no limit. When C<decode>
is called on a string that is longer then this many bytes, it will not
attempt to decode the string but throw an exception. This setting has no
effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same

as when
C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 encode

  $json_text = $json->encode($perl_scalar)

Converts the given Perl value or data structure to its JSON
representation. Croaks on error.

=head2 decode

  $perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it,
returning the resulting simple scalar or reference. Croaks on error.

=head2 decode_prefix

  ($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception
when there is trailing garbage after the first JSON object, it will
silently stop parsing there and return the number of characters consumed
so far.

This is useful if your JSON texts are not delimited by an outer protocol
and you need to know where the JSON text ends.

 JSON::PP->new->decode_prefix ("[1] the tail")
 => ([1], 3)

=head1 FLAGS FOR JSON::PP ONLY

The
 following flags and properties are for JSON::PP only. If you use
any of these, you can't make your application run faster by replacing
JSON::PP with JSON::XS. If you need these and also speed boost,
you might want to try L<Cpanel::JSON::XS>, a fork of JSON::XS by
Reini Urban, which supports some of these (with a different set of
incompatibilities). Most of these historical flags are only kept
for backward compatibility, and should not be used in a new application.

=head2 allow_singlequote

  $json = $json->allow_singlequote([$enable])

```
  $enabled = $json->get_allow_singlequote
```

If C<$enable> is true (or missing), then C<decode> will accept
invalid JSON texts that contain strings that begin and end with
single quotation marks. C<encode> will not be affected in any way.
I<Be aware that this option makes you accept invalid JSON texts
as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration
files, resource files etc.)

If
 C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

```
  $json->allow_singlequote->decode(qq|{"foo":'bar'}|);
  $json->allow_singlequote->decode(qq|{'foo':"bar"}|);
  $json->allow_singlequote->decode(qq|{'foo':'bar'}|);
```

=head2 allow_barekey

```
  $json = $json->allow_barekey([$enable])
  $enabled = $json->get_allow_barekey
```

If C<$enable> is true (or missing), then C<decode> will accept
invalid JSON texts that contain JSON objects whose names don't
begin and end with quotation marks. C<encode> will not be affected
in any way. I<Be aware that this option makes you accept invalid JSON
texts as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration
files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

```
  $json->allow_barekey->decode(qq|{foo:"bar"}|);
```

=head2 allow_bignum

```
  $json = $json->allow_bignum([$enable])
   $enabled = $json->get_allow_bignum
```

If C<$enable> is true (or missing), then C<decode> will convert
big integers Perl cannot handle as integer into L<Math::BigInt>
objects and convert floating numbers into L<Math::BigFloat>
objects. C<encode> will convert C<Math::BigInt> and C<Math::BigFloat>
objects into JSON numbers.

```
 $json->allow_nonref->allow_bignum;
```

```
 $bigfloat = $json->decode('2.000000000000000000000000001');
 print $json->encode($bigfloat);
 # => 2.000000000000000000000000001
```

See also L<MAPPING>.

=head2 loose

```
  $json = $json->loose([$enable])
  $enabled = $json->get_loose
```

If C<$enable> is true (or missing), then C<decode> will accept
invalid JSON texts that contain unescaped [\x00-\x1f\x22\x5c]
characters. C<encode> will not be affected in any way.
I<Be aware that this option makes you accept invalid JSON texts
as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration
files, resource files
 etc.)

If C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

```
  $json->loose->decode(qq|["abc
                           def"]|);
```

=head2 escape_slash

```
  $json = $json->escape_slash([$enable])
  $enabled = $json->get_escape_slash
```

If C<$enable> is true (or missing), then C<encode> will explicitly
escape I<slash> (solidus; C<U+002F>) characters to reduce the risk of
XSS (cross site scripting) that may be caused by C<< </script> >>
in a JSON text, with the cost of bloating the size of JSON texts.

This option may be useful when you embed JSON in HTML, but embedding
arbitrary JSON in HTML (by some HTML template toolkit or by string
interpolation) is risky in general. You must escape necessary
characters in correct order, depending on the context.

C<decode> will not be affected in any way.

=head2 indent_length

```
  $json = $json->indent_length($number_of_spaces)
  $length = $json->get_indent_length
```

This option is only useful when you
also enable C<indent> or C<pretty>.

JSON::XS indents with three spaces when you C<encode> (if requested
by C<indent> or C<pretty>), and the number cannot be changed.
JSON::PP allows you to change/get the number of indent spaces with these
mutator/accessor. The default number of spaces is three (the same as
JSON::XS), and the acceptable range is from C<0> (no indentation;
it'd be better to disable indentation by C<indent(0)>) to C<15>.

=head2 sort_by

```
$json = $json->sort_by($code_ref)
$json = $json->sort_by($subroutine_name)
```

If you just want to sort keys (names) in JSON objects when you
C<encode>, enable C<canonical> option (see above) that allows you to
sort object keys alphabetically.

If you do need to sort non-alphabetically for whatever reasons,
you can give a code reference (or a subroutine name) to C<sort_by>,
then the argument will be passed to Perl's C<sort> built-in function.

As the sorting is done in the JSON::PP scope, you usually need to
prepend C<JSON::PP::>
to the subroutine name, and the special variables
C<$a> and C<$b> used in the subrontine used by C<sort> function.

Example:

```
my %ORDER = (id => 1, class => 2, name => 3);
$json->sort_by(sub {
   ($ORDER{$JSON::PP::a} // 999) <=> ($ORDER{$JSON::PP::b} // 999)
   or $JSON::PP::a cmp $JSON::PP::b
});
print $json->encode([
   {name => 'CPAN', id => 1, href => 'http://cpan.org'}
]);
# [{"id":1,"name":"CPAN","href":"http://cpan.org"}]
```

Note that C<sort_by> affects all the plain hashes in the data structure.
If you need finer control, C<tie> necessary hashes with a module that
implements ordered hash (such as L<Hash::Ordered> and L<Tie::IxHash>).
C<canonical> and C<sort_by> don't affect the key order in C<tie>d
hashes.

```
use Hash::Ordered;
tie my %hash, 'Hash::Ordered',
```

```
    (name => 'CPAN', id => 1, href => 'http://cpan.org');
 print $json->encode([\%hash]);
 # [{"name":"CPAN","id":1,"href":"http://cpan.org"}] # order is kept
```

=head1 INCREMENTAL PARSING

This
section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON
texts. While this module always has to keep both JSON text and resulting
Perl data structure in memory at one time, it does allow you to parse a
JSON stream incrementally. It does so by accumulating text until it has
a full JSON object, which it then can decode. This process is similar to
using C<decode_prefix> to see if a full JSON object is available, but
is much more efficient (and can be implemented with a minimum of method
calls).

JSON::PP will only attempt to parse the JSON text once it is sure it
has enough text to get a decisive result, using a very simple but
truly incremental parser. This means that it sometimes won't stop as
early as the full parser, for example, it doesn't detect mismatched
parentheses. The only thing it guarantees is that it starts decoding as
soon as a syntactically valid JSON text has been seen. This means you need
to set resource limits (e.g.
C<max_size>) to ensure the parser will stop
parsing in the presence if syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

```
  $json->incr_parse( [$string] ) # void context

  $obj_or_undef = $json->incr_parse( [$string] ) # scalar context

  @obj_or_empty = $json->incr_parse( [$string] ) # list context
```

This is the central parsing function. It can both append new text and
extract objects from the stream accumulated so far (both of these
functions are optional).

If C<$string> is given, then this string is appended to the already
existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply
return without doing anything further. This can be used to add more text
in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly I<one> JSON object. If that is successful, it will return this object, otherwise it will return C<undef>.
 If there is a parse error,
this method will croak just as C<decode> would do (one can then use C<incr_skip> to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```
  my @objs = JSON::PP->new->incr_parse ("[5][7][1,2]");
```

=head2 incr_text

```
  $lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar
 context> successfully returned an object. Under
all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

=head2 incr_skip

```
  $json->incr_skip
```

This will reset the state of the incremental parser and will remove

the parsed text from the input buffer so far. This is useful after
C<incr_parse> died, in which case the input buffer and incremental parser
state is left unchanged, to skip the text parsed so far and to reset the
parse state.

The difference
 to C<incr_reset> is that only text until the parse error
occurred is removed.

=head2 incr_reset

  $json->incr_reset

This completely resets the incremental parser, that is, after this call,
it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to
ignore any trailing data, which means you have to reset the parser after
each successful decode.

=head1 MAPPING

Most of this section is also taken from JSON::XS.

This section describes how JSON::PP maps Perl values to JSON values and
vice versa. These mappings are designed to "do the right thing" in most
circumstances automatically, preserving round-tripping characteristics
(what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions,
lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl>
refers to the abstract Perl language itself.

=head2 JSON -> PERL

=over 4

=item object

A JSON object
 becomes a reference to a hash in Perl. No ordering of object
keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, JSON::PP will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve
the number as a string value (in
which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, JSON::PP only guarantees precision up to but not including the least significant bit.

When C<allow_bignum> is enabled, big integer values and any numeric values will be converted into L<Math::BigInt> and L<Math::BigFloat> objects respectively, without becoming string scalars or losing precision.

=item true, false

These JSON atoms become C<JSON::PP::true> and C<JSON::PP::false>, respectively. They are overloaded to act
almost exactly like the numbers
C<1> and C<0>. You can check whether a scalar is a JSON boolean by using the C<JSON::PP::is_bool> function.

=item null

A JSON null atom becomes C<undef> in Perl.

=item shell-style comments (C<< # I<text> >>)

As a nonstandard extension to the JSON syntax that is enabled by the C<relaxed> setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

=item tagged values (C<< (I<tag>)I<value> >>).

Another nonstandard extension to the JSON syntax, enabled with the C<allow_tags> setting, are tagged values. In this implementation, the I<tag> must be a perl package/class name encoded as a JSON string, and the I<value> must be a JSON array encoding optional constructor arguments.

See L<OBJECT SERIALISATION>, below, for details.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl
value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. JSON::PP can optionally sort the hash keys (determined by the I<canonical> flag and/or I<sort_by> property), so the same data structure will serialise to the same JSON text (given same settings and version of JSON::PP), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::PP::false> and C<JSON::PP::true> to improve

readability.

```
  to_json [\0, JSON::PP::true]      # yields [false,true]
```

=item
JSON::PP::true, JSON::PP::false

These special values become JSON true and JSON false values,
respectively. You can also use C<\1> and C<\0> directly if you want.

=item JSON::PP::null

This special value becomes JSON null.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::PP>
allows various ways of handling objects. See L<OBJECT SERIALISATION>,
below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most
difficult objects to encode: JSON::PP will encode undefined scalars as
JSON C<null> values, scalars that have last been used in a string context
before encoding as JSON strings, and anything else as number value:

```
  # dump as number
  encode_json [2]                    # yields [2]
  encode_json [-3.0e17]              # yields [-3e+17]
  my $value = 5; encode_json [$value]  # yields [5]

  # used as string, so dump as string
  print $value;
  encode_json [$value]
        # yields ["5"]

  # undef becomes null
  encode_json [undef]                # yields [null]
```

You can force the type to be a JSON string by stringifying it:

```
  my $x = 3.1; # some variable containing a number
  "$x";       # stringified
  $x .= "";    # another, more awkward way to stringify
  print $x;    # perl does it for you, too, quite often
             # (but for older perls)
```

You can force the type to be a JSON number by numifying it:

```
  my $x = "3"; # some variable containing a string
  $x += 0;     # numify it, ensuring it will be dumped as a number
  $x *= 1;     # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure, ways.

Since version 2.91_01, JSON::PP uses a different number detection logic
that converts a scalar that is possible to turn into a number safely.
The new logic is slightly faster, and tends to help people who use older
perl or who want to encode complicated data structure. However, this may
results
 in a different JSON text from the one JSON::XS encodes (and
thus may break tests that compare entire JSON texts). If you do
need the previous behavior for compatibility or for finer control,
set PERL_JSON_PP_USE_B environmental variable to true before you
C<use> JSON::PP (or JSON.pm).

Note that numerical precision has the same meaning as under Perl (so
binary to decimal conversion follows the same rules as in Perl, which
can differ to other languages). Also, your perl interpreter might expose
extensions to the floating point numbers of your platform, such as
infinities or NaN's - these cannot be represented in JSON, and it is an
error to pass those in.

JSON::PP (and JSON::XS) trusts what you pass to C<encode> method
(or C<encode_json> function) is a clean, validated data structure with
values that can be represented as valid JSON values only, because it's
not from an external data source (as opposed to JSON texts you pass to
C<decode> or C<decode_json>, which JSON::PP considers tainted
 and
doesn't trust). As JSON::PP doesn't know exactly what you and consumers
of your JSON texts want the unexpected values to be (you may want to
convert them into null, or to stringify them with or without
normalisation (string representation of infinities/NaN may vary
depending on platforms), or to croak without conversion), you're advised
to do what you and your consumers need before you encode, and also not
to numify values that may start with values that look like a number
(including infinities/NaN), without validating.

=back

=head2 OBJECT SERIALISATION

As JSON cannot directly represent Perl objects, you have to choose between
a pure JSON representation (without the ability to deserialise the object
automatically again), and a nonstandard extension to the JSON syntax,

tagged values.

=head3 SERIALISATION

What happens when C<JSON::PP> encounters a Perl object depends on the C<allow_blessed>, C<convert_blessed>, C<allow_tags> and C<allow_bignum> settings, which are used in
 this order:

=over 4

=item 1. C<allow_tags> is enabled and the object has a C<FREEZE> method.

In this case, C<JSON::PP> creates a tagged JSON value, using a nonstandard extension to the JSON syntax.

This works by invoking the C<FREEZE> method on the object, with the first argument being the object to serialise, and the second argument being the constant string C<JSON> to distinguish it from other serialisers.

The C<FREEZE> method can return any number of values (i.e. zero or more). These values and the paclkage/classname of the object will then be encoded as a tagged JSON value in the following format:

 ("classname")[FREEZE return values...]

e.g.:

 ("URI")["http://www.google.com/"]
 ("MyDate")[2013,10,29]
 ("ImageData::JPEG")["Z3...VlCg=="]

For example, the hypothetical C<My::Object> C<FREEZE> method might use the objects C<type> and C<id> members to encode the object:

 sub My::Object::FREEZE {
    my ($self, $serialiser) = @_;

    ($self->{type}, $self->{id})
  }

=item 2. C<convert_blessed> is enabled and the object has a C<TO_JSON> method.

In this case, the C<TO_JSON> method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI>

objects to JSON strings when serialised. The fact that these values
originally were L<URI> objects is lost.

```
sub URI::TO_JSON {
   my ($uri) = @_;
   $uri->as_string
}
```

=item 3. C<allow_bignum> is enabled and the object is a C<Math::BigInt> or C<Math::BigFloat>.

The object will be serialised as a JSON number value.

=item 4. C<allow_blessed> is enabled.

The object will be serialised as a JSON null value.

=item 5. none of the above

If none of the settings are enabled or the respective methods are missing,
C<JSON::PP> throws an exception.

=back

=head3 DESERIALISATION

For deserialisation there are only two cases to consider:
 either
nonstandard tagging was used, in which case C<allow_tags> decides,
or objects cannot be automatically be deserialised, in which
case you can use postprocessing or the C<filter_json_object> or
C<filter_json_single_key_object> callbacks to get some real objects our of
your JSON.

This section only considers the tagged value case: a tagged JSON object
is encountered during decoding and C<allow_tags> is disabled, a parse
error will result (as if tagged values were not part of the grammar).

If C<allow_tags> is enabled, C<JSON::PP> will look up the C<THAW> method
of the package/classname used during serialisation (it will not attempt
to load the package as a Perl module). If there is no such method, the
decoding will fail with an error.

Otherwise, the C<THAW> method is invoked with the classname as first
argument, the constant string C<JSON> as second argument, and all the
values from the JSON array (the values originally returned by the
C<FREEZE> method) as remaining arguments.

The

method must then return the object. While technically you can return
any Perl scalar, you might have to enable the C<allow_nonref> setting to
make that work in all cases, so better return an actual blessed reference.

As an example, let's implement a C<THAW> function that regenerates the
C<My::Object> from the C<FREEZE> example earlier:

```
sub My::Object::THAW {
   my ($class, $serialiser, $type, $id) = @_;

   $class->new (type => $type, id => $id)
}
```

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify
encodings or codesets - C<utf8>, C<latin1> and C<ascii>. There seems to be
some confusion on what these do, so here is a short comparison:

C<utf8> controls whether the JSON text created by C<encode> (and expected
by C<decode>) is UTF-8 encoded or not, while C<latin1> and C<ascii> only
control whether C<encode> escapes character values outside their respective
codeset range. Neither
of these flags conflict with each other, although
some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to
C<encode> and C<decode>, that is, texts encoded with any combination of
these flag values will be correctly decoded when the same flags are used
- in general, if you use different flag settings while encoding vs. when
decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is
simply an abstract set of character-codepoint pairs, while an encoding
takes those codepoint numbers and I<encodes> them, in our case into
octets. Unicode is (among other things) a codeset, UTF-8 is an encoding,
and ISO-8859-1 (= latin 1) and ASCII are both codesets I<and> encodings at
the same time, which can be confusing.

=over 4

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate
and expect Unicode strings, that is, characters with high

ordinal Unicode
values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag is enabled, C<encode>/C<decode> will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The
C<utf8> flag therefore switches between two modes: disabled means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

=item C<latin1> or C<ascii> flags enabled

With C<latin1> (or C<ascii>) enabled, C<encode> will escape characters with ordinal values > 255 (> 127 with C<ascii>) and encode the remaining characters as specified by the C<utf8> flag.

If C<utf8> is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If C<utf8> is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using C<\uXXXX> then before.

Note that ISO-8859-1-I<encoded> strings are not compatible with UTF-8 encoding, while
ASCII-encoded strings are. That is because the ISO-8859-1
encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 I<codeset> being a subset of Unicode), while ASCII is.

Surprisingly, C<decode> will ignore these flags and so treat all input
values as governed by the C<utf8> flag. If it is disabled, this allows you
to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of
Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither C<latin1> nor C<ascii> are incompatible with the C<utf8> flag -
they only govern when the JSON output engine escapes a character or not.

The main use for C<latin1> is to relatively efficiently store binary data
as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for C<ascii> is to force the output to not contain characters
with values > 127, which means you can interpret the resulting string
as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and
8-bit-encoding,
 and still get the same data structure back. This is useful
when your channel for JSON transfer is not 8-bit clean or the encoding
might be mangled in between (e.g. in mail), and works because ASCII is a
proper subset of most 8-bit and multibyte encodings in use in the world.

=back

=head1 BUGS

Please report bugs on a specific behavior of this module to RT or GitHub
issues (preferred):

L<https://github.com/makamaka/JSON-PP/issues>

L<https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON-PP>

As for new features and requests to change common behaviors, please
ask the author of JSON::XS (Marc Lehmann, E<lt>schmorp[at]schmorp.deE<gt>)
first, by email (important!), to keep compatibility among JSON.pm backends.

Generally speaking, if you need something special for you, you are advised
to create a new module, maybe based on L<JSON::Tiny>, which is smaller and
written in a much cleaner way than this module.

=head1 SEE ALSO

The F<json_pp> command line utility for quick experiments.

L<JSON::XS>,
 L<Cpanel::JSON::XS>, and L<JSON::Tiny> for faster alternatives.
L<JSON> and L<JSON::MaybeXS> for easy migration.

L<JSON::backportPP::Compat5005> and L<JSON::backportPP::Compat5006> for older perl users.

RFC4627 (L<http://www.ietf.org/rfc/rfc4627.txt>)

RFC7159 (L<http://www.ietf.org/rfc/rfc7159.txt>)

RFC8259 (L<http://www.ietf.org/rfc/rfc8259.txt>)

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=head1 COPYRIGHT AND LICENSE

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Most of the documentation is taken from JSON::XS by Marc Lehmann

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it under the same terms as Perl itself.

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/lib/JSON/backportPP.pm
No license file was found, but licenses were detected in source scan.

```
use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;

local $/;
```

```
my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;


printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );


print "-----------------------------------\n";
print "->decode()\n";
print "-----------------------------------\n";

$result = timethese( -$wanttime,
  {
    'JSON::PP' => sub { $pp->decode( $json ) },
    'JSON::XS' => sub { $xs->decode( $json ) },
  },
  'none'
);
cmpthese( $result );

print "-----------------------------------\n";


__END__

=pod

=head1 SYNOPSYS

 bench_decode.pl json-file
 # or
 bench_decode.pl json-file
 minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> decoding benchmark.

=head1 AUTHOR

makamaka

=head1 LISENCE

This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.
```

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/eg/bench_decode.pl
No license file was found, but licenses were detected in source scan.

=head1 NAME

JSON::PP::Boolean - dummy module providing JSON::PP::Boolean

=head1 SYNOPSIS

do not "use" yourself

=head1 DESCRIPTION

This module exists only to provide overload resolution for Storable and similar modules. See
L<JSON::PP> for more info about this class.

=head1 AUTHOR

This idea is from L<JSON::XS::Boolean> written by Marc Lehmann <schmorp[at]schmorp.de>

=head1 LICENSE

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it under the same terms as Perl itself.

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/lib/JSON/backportPP/Boolean.pm
No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP5005 - Helper module in using JSON::PP in Perl 5.005

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

=head1 COPYRIGHT AND LICENSE

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it under the same terms as Perl itself.

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/lib/JSON/backportPP/Compat5005.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

=head1 SYNOPSIS

use JSON; # imports encode_json, decode_json, to_json and from_json.

simple and fast interfaces (expect/generate UTF-8)

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

OO-interface

$json = JSON->new->allow_nonref;

$json_text   = $json->encode($perl_scalar);
$perl_scalar = $json->decode($json_text);

$pretty_printed = $json->pretty->encode($perl_scalar); # pretty-printing

=head1 VERSION

  4.02

=head1 DESCRIPTION

This module is a thin wrapper for L<JSON::XS>-compatible modules with a few
additional features. All the backend modules convert a Perl data structure
to a JSON text and vice versa. This module uses L<JSON::XS> by default,
and when JSON::XS is not available, falls back on L<JSON::PP>, which is
in the Perl core since

5.14. If JSON::PP is not available either, this
module then falls back on JSON::backportPP (which is actually JSON::PP
in a different .pm file) bundled in the same distribution as this module.
You can also explicitly specify to use L<Cpanel::JSON::XS>, a fork of
JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between them,
including extra features that other modules don't support, but as long as you
use only common features (most important ones are described below), migration
from backend to backend should be reasonably easy. For details, see each
backend module you use.

=head1 CHOOSING BACKEND

This module respects an environmental variable called C<PERL_JSON_BACKEND>
when it decides a backend module to use. If this environmental variable is
not set, it tries to load JSON::XS, and if JSON::XS is not available, it
falls back on JSON::PP, and then JSON::backportPP if JSON::PP is not available
either.

If you always don't want it to fall back on pure
perl modules, set the
variable like this (C<export> may be C<setenv>, C<set> and the likes,
depending on your environment):

```
> export PERL_JSON_BACKEND=JSON::XS
```

If you prefer Cpanel::JSON::XS to JSON::XS, then:

```
> export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::PP
```

You may also want to set this variable at the top of your test files, in order
not to be bothered with incompatibilities between backends (you need to wrap
this in C<BEGIN>, and set before actually C<use>-ing JSON module, as it decides
its backend as soon as it's loaded):

```
BEGIN { $ENV{PERL_JSON_BACKEND}='JSON::backportPP'; }
use JSON;
```

=head1 USING OPTIONAL FEATURES

There are a few options you can set when you C<use> this module.
These historical options are only kept for backward compatibility,
and should not be used in a new application.

=over

=item -support_by_pp

```
 BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

 use JSON -support_by_pp;

 my $json = JSON->new;
 # escape_slash is for
JSON::PP only.
 $json->allow_nonref->escape_slash->encode("/");
```

With this option, this module loads its pure perl backend along with its XS backend (if available), and lets the XS backend to watch if you set a flag only JSON::PP supports. When you do, the internal JSON::XS object is replaced with a newly created JSON::PP object with the setting copied from the XS object, so that you can use JSON::PP flags (and its slower C<decode>/C<encode> methods) from then on. In other words, this is not something that allows you to hook JSON::XS to change its behavior while keeping its speed. JSON::XS and JSON::PP objects are quite different (JSON::XS object is a blessed scalar reference, while JSON::PP object is a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not to use this option and just to use JSON::PP explicitly when you need JSON::PP features.

=item -convert_blessed_universally

```
 use JSON -convert_blessed_universally;

  my $json = JSON->new->allow_nonref->convert_blessed;
 my $object = bless {foo => 'bar'}, 'Foo';
 $json->encode($object); # => {"foo":"bar"}
```

JSON::XS-compatible backend modules don't encode blessed objects by default (except for their boolean values, which are typically blessed JSON::PP::Boolean objects). If you need to encode a data structure that may contain objects, you usually need to look into the structure and replace objects with alternative non-blessed values, or enable C<convert_blessed> and provide a C<TO_JSON> method for each object's (base) class that may be found in the structure, in order to let the methods replace the objects with whatever scalar values the methods return.

If you need to serialise data structures that may contain arbitrary objects, it's probably better to use other serialisers (such as L<Sereal> or L<Storable> for example), but if you do want to use this module for that purpose, C<-convert_blessed_universally> option may help, which tweaks

C<encode> method of the backend to install
C<UNIVERSAL::TO_JSON> method (locally) before encoding, so that
all the objects that don't have their own C<TO_JSON> method can
fall back on the method in the C<UNIVERSAL> namespace. Note that you
still need to enable C<convert_blessed> flag to actually encode
objects in a data structure, and C<UNIVERSAL::TO_JSON> method
installed by this option only converts blessed hash/array references
into their unblessed clone (including private keys/values that are
not supposed to be exposed). Other blessed references will be
converted into null.

This feature is experimental and may be removed in the future.

=item -no_export

When you don't want to import functional interfaces from a module, you
usually supply C<()> to its C<use> statement.

```
use JSON (); # no functional interfaces
```

If you don't want to import functional interfaces, but you also want to
use any of the above options, add C<-no_export> to the option list.

```
# no functional interfaces,
while JSON::PP support is enabled.
use JSON -support_by_pp, -no_export;
```

=back

=head1 FUNCTIONAL INTERFACE

This section is taken from JSON::XS. C<encode_json> and C<decode_json>
are exported by default.

This module also exports C<to_json> and C<from_json> for backward
compatibility. These are slower, and may expect/generate different stuff
from what C<encode_json> and C<decode_json> do, depending on their
options. It's better just to use Object-Oriented interfaces than using
these two functions.

=head2 encode_json

```
$json_text = encode_json $perl_scalar
```

Converts the given Perl data structure to a UTF-8 encoded, binary string
(that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

```
  $json_text = JSON->new->utf8->encode($perl_scalar)
```

Except being faster.

=head2 decode_json

```
  $perl_scalar = decode_json $json_text
```

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries
to parse that as an
 UTF-8 encoded JSON text, returning the resulting
reference. Croaks on error.

This function call is functionally identical to:

```
  $perl_scalar = JSON->new->utf8->decode($json_text)
```

Except being faster.

=head2 to_json

```
  $json_text = to_json($perl_scalar[, $optional_hashref])
```

Converts the given Perl data structure to a Unicode string by default.
Croaks on error.

Basically, this function call is functionally identical to:

```
  $json_text = JSON->new->encode($perl_scalar)
```

Except being slower.

You can pass an optional hash reference to modify its behavior, but
that may change what C<to_json> expects/generates (see
C<ENCODING/CODESET FLAG NOTES> for details).

```
  $json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})
  # => JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

=head2 from_json

```
  $perl_scalar = from_json($json_text[, $optional_hashref])
```

The opposite of C<to_json>: expects a Unicode string and tries
to parse it, returning the resulting reference. Croaks on error.

Basically,

this function call is functionally identical to:

  $perl_scalar = JSON->new->decode($json_text)

You can pass an optional hash reference to modify its behavior, but
that may change what C<from_json> expects/generates (see
C<ENCODING/CODESET FLAG NOTES> for details).

  $perl_scalar = from_json($json_text, {utf8 => 1})
  # => JSON->new->utf8(1)->decode($json_text)

=head2 JSON::is_bool

  $is_boolean = JSON::is_bool($scalar)

Returns true if the passed scalar represents either JSON::true or
JSON::false, two constants that act like C<1> and C<0> respectively
and are also used to represent JSON C<true> and C<false> in Perl strings.

See L<MAPPING>, below, for more information on how JSON values are mapped to
Perl.

=head1 COMMON OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or
decoding style, within the limits of supported formats.

=head2 new

  $json = JSON->new

Creates
 a new JSON::XS-compatible backend object that can be used to de/encode JSON
strings. All boolean flags described below are by default I<disabled>
(with the exception of C<allow_nonref>, which defaults to I<enabled> since
version C<4.0>).

The mutators for flags all return the backend object again and thus calls can
be chained:

  my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
  => {"a": [1, 2]}

=head2 ascii

  $json = $json->ascii([$enable])

$enabled = $json->get_ascii

If C<$enable> is true (or missing), then the C<encode> method will not
generate characters outside the code range C<0..127> (which is ASCII). Any
Unicode characters outside that range will be escaped using either a
single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence,
as per RFC4627. The resulting encoded JSON text can be treated as a native
Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string,
or any other superset of ASCII.

If C<$enable> is false,
 then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags. This results
in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be
transmitted over a 7-bit channel, as the encoded JSON texts will not
contain any 8 bit characters.

 JSON->new->ascii(1)->encode([chr 0x10401])
 => ["\ud801\udc01"]

=head2 latin1

$json = $json->latin1([$enable])

$enabled = $json->get_latin1

If C<$enable> is true (or missing), then the C<encode> method will encode
the resulting JSON text as latin1 (or iso-8859-1), escaping any characters
outside the code range C<0..255>. The resulting string can be treated as a
latin1-encoded JSON text or a native Unicode string. The C<decode> method
will not be affected in any way by this flag, as C<decode> by default
expects Unicode, which is a strict superset of latin1.

If C<$enable>
 is false, then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON
text, as most octets will not be escaped, resulting in a smaller encoded
size. The disadvantage is that the resulting JSON text is encoded
in latin1 (and must correctly be treated as such when storing and

transferring), a rare encoding for JSON. It is therefore most useful when
you want to store data structures known to contain binary data efficiently
in files or databases, not when talking to other JSON encoders/decoders.

```
 JSON->new->latin1->encode (["\x{89}\x{abc}"]
 => ["\x{89}\\u0abc"]    # (perl syntax, U+abc escaped, U+89 not)
```

=head2 utf8

```
   $json = $json->utf8([$enable])

   $enabled = $json->get_utf8
```

If C<$enable> is true (or missing), then the C<encode> method will encode
the JSON result into UTF-8,
 as required by many protocols, while the
C<decode> method expects to be handled an UTF-8-encoded string. Please
note that UTF-8-encoded strings do not contain any characters outside the
range C<0..255>, they are thus useful for bytewise/binary I/O. In future
versions, enabling this option might enable autodetection of the UTF-16
and UTF-32 encoding families, as described in RFC4627.

If C<$enable> is false, then the C<encode> method will return the JSON
string as a (non-encoded) Unicode string, while C<decode> expects thus a
Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs
to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```
 use Encode;
 $jsontext = encode "UTF-16BE", JSON->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
 use Encode;
 $object = JSON->new->decode (decode "UTF-32LE", $jsontext);
```

=head2 pretty

```
   $json =
 $json->pretty([$enable])
```

This enables (or disables) all of the C<indent>, C<space_before> and
C<space_after> (and in the future possibly more) flags in one call to
generate the most readable (or most compact) form possible.

=head2 indent

  $json = $json->indent([$enable])

  $enabled = $json->get_indent

If C<$enable> is true (or missing), then the C<encode> method will use a multiline
format as output, putting every array member or object/hash key-value pair
into its own line, indenting them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the
resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

=head2 space_before

  $json = $json->space_before([$enable])

  $enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space before the C<:> separating keys from values in JSON objects.

If C<$enable> is false,
 then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts. You will also
most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

  {"key" :"value"}

=head2 space_after

  $json = $json->space_after([$enable])

  $enabled = $json->get_space_after

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space after the C<:> separating keys from values in JSON objects
and extra whitespace after the C<,> separating key-value pairs and array
members.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

```
  {"key": "value"}
```

=head2 relaxed

```
   $json = $json->relaxed([$enable])

   $enabled = $json->get_relaxed
```

If C<$enable> is true (or missing), then
 C<decode> will accept some
extensions to normal JSON syntax (see below). C<encode> will not be
affected in any way. I<Be aware that this option makes you accept invalid
JSON texts as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration files,
resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This
can be annoying if you write JSON texts manually and want to be able to
quickly append elements, so this extension accepts comma at the end of
such items not just between them:

```
 [
    1,
    2, <- this comma not normally allowed
 ]
 {
    "k1": "v1",
    "k2": "v2", <- this comma not normally allowed
 }
```

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are

additionally
allowed. They are terminated by the first carriage-return or line-feed
character, after which more white-space and comments are allowed.

```
[
   1, # this comment not allowed in JSON
     # neither this one...
]
```

=back

=head2 canonical

```
  $json = $json->canonical([$enable])

  $enabled = $json->get_canonical
```

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects
by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value
pairs in the order Perl stores them (which will likely change between runs
of the same script, and can change even within the same run from 5.18
onwards).

This option is useful if you want the same data structure to be encoded as
the same JSON text (given the same overall settings). If it is disabled,
the same hash might be encoded differently even if contains the same data,
as key-value pairs have no inherent ordering in Perl.

This
setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

=head2 allow_nonref

```
  $json = $json->allow_nonref([$enable])

  $enabled = $json->get_allow_nonref
```

Unlike other boolean options, this option is enabled by default beginning
with version C<4.0>.

If C<$enable> is true (or missing), then the C<encode> method can convert a
non-reference into its corresponding string, number or null JSON value,
which is an extension to RFC4627. Likewise, C<decode> will accept those JSON
values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't
passed an arrayref or hashref, as JSON texts must either be an object
or array. Likewise, C<decode> will croak if given something that is not a
JSON object or array.

Example, encode a Perl scalar as JSON value with enabled C<allow_nonref>,
resulting in an invalid JSON text:

 JSON->new->allow_nonref->encode ("Hello, World!")
 => "Hello, World!"

=head2
 allow_unknown

  $json = $json->allow_unknown ([$enable])

  $enabled = $json->get_allow_unknown

If C<$enable> is true (or missing), then C<encode> will I<not> throw an
exception when it encounters values it cannot represent in JSON (for
example, filehandles) but instead will encode a JSON C<null> value. Note
that blessed objects are not included here and are handled separately by
c<allow_blessed>.

If C<$enable> is false (the default), then C<encode> will throw an
exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to
leave it off unless you know your communications partner.

=head2 allow_blessed

  $json = $json->allow_blessed([$enable])

  $enabled = $json->get_allow_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then the C<encode> method will not
barf when it encounters a blessed reference that it cannot convert
otherwise. Instead, a JSON
 C<null> value is encoded instead of the object.

If C<$enable> is false (the default), then C<encode> will throw an
exception when it encounters a blessed object that it cannot convert
otherwise.

This setting has no effect on C<decode>.

=head2 convert_blessed

  $json = $json->convert_blessed([$enable])

  $enabled = $json->get_convert_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a
blessed object, will check for the availability of the C<TO_JSON> method
on the object's class. If found, it will be called in scalar context and
the resulting scalar will be encoded instead of the object.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON>
returns other blessed objects, those will be handled in the same
way. C<TO_JSON> must take care of not causing an endless recursion cycle
(== crash) in this case. The name of C<TO_JSON> was chosen because other
methods called by the Perl core (== not by
 the user of the object) are
usually in upper case letters and to avoid collisions with any C<to_json>
function or method.

If C<$enable> is false (the default), then C<encode> will not consider
this type of conversion.

This setting has no effect on C<decode>.

=head2 allow_tags (since version 3.0)

  $json = $json->allow_tags([$enable])

  $enabled = $json->get_allow_tags

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a
blessed object, will check for the availability of the C<FREEZE> method on
the object's class. If found, it will be used to serialise the object into
a nonstandard tagged JSON value (that JSON decoders cannot decode).

It also causes C<decode> to parse such tagged JSON values and deserialise
them via a call to the C<THAW> method.

If C<$enable> is false (the default), then C<encode> will not consider
this type of conversion, and tagged JSON values will cause a parse error
in C<decode>, as if tags were

not part of the grammar.

=head2 boolean_values (since version 4.0)

  $json->boolean_values([$false, $true])

  ($false, $true) = $json->get_boolean_values

By default, JSON booleans will be decoded as overloaded
C<$JSON::false> and C<$JSON::true> objects.

With this method you can specify your own boolean values for decoding -
on decode, JSON C<false> will be decoded as a copy of C<$false>, and JSON
C<true> will be decoded as C<$true> ("copy" here is the same thing as
assigning a value to another variable, i.e. C<$copy = $false>).

This is useful when you want to pass a decoded data structure directly
to other serialisers like YAML, Data::MessagePack and so on.

Note that this works only when you C<decode>. You can set incompatible
boolean objects (like L<boolean>), but when you C<encode> a data structure
with such boolean objects, you still need to enable C<convert_blessed>
(and add a C<TO_JSON> method if necessary).

Calling this method without any arguments will reset the
 booleans
to their default values.

C<get_boolean_values> will return both C<$false> and C<$true> values, or
the empty list when they are set to the default.

=head2 filter_json_object

  $json = $json->filter_json_object([$coderef])

When C<$coderef> is specified, it will be called from C<decode> each
time it decodes a JSON object. The only argument is a reference to
the newly-created hash. If the code references returns a single scalar
(which need not be a reference), this value (or rather a copy of it) is
inserted into the deserialised data structure. If it returns an empty
list (NOTE: I<not> C<undef>, which is a valid scalar), the original
deserialised hash will be inserted. This setting can slow down decoding
considerably.

When C<$coderef> is omitted or undefined, any existing callback will
be removed and C<decode> will not change the deserialised hash in any
way.

Example, convert all JSON objects into the integer 5:

```
 my $js = JSON->new->filter_json_object(sub { 5 });
 #
returns [5]
 $js->decode('[{}]');
 # returns 5
 $js->decode('{"a":1, "b":2}');
```

=head2 filter_json_single_key_object

```
  $json = $json->filter_json_single_key_object($key [=> $coderef])
```

Works remotely similar to C<filter_json_object>, but is only called for
JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via
C<filter_json_object>, if any. It gets passed the single value in the JSON
object. If it returns a single value, it will be inserted into the data
structure. If it returns nothing (not even C<undef> but the empty list),
the callback from C<filter_json_object> will be called next, as if no
single-key callback were specified.

If C<$coderef> is omitted or undefined, the corresponding callback will be
disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the C<filter_json_object>
one, decoding speed will not usually suffer as much. Therefore, single-key
objects make excellent
 targets to serialise Perl objects into, especially
as single-key JSON objects are as close to the type-tagged value concept
as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not
support this in any way, so you need to make sure your data never looks
like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or
C<$__dollars_are_rarely_used__$> or C<}ugly_brace_placement>, or even
things like C<__class_md5sum(classname)__>, to reduce the risk of clashing
with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >>
into the corresponding C<< $WIDGET{<id>} >> object:

```
 # return whatever is in $WIDGET{5}:
 JSON
    ->new
    ->filter_json_single_key_object (__widget__ => sub {
        $WIDGET{ $_[0] }
```

```
      })
   ->decode ('{"__widget__": 5')

 # this can be used with a TO_JSON method in some "widget" class
 # for serialisation to json:
 sub WidgetBase::TO_JSON {
   my ($self)
= @_;

   unless ($self->{id}) {
     $self->{id} = ..get..some..id..;
     $WIDGET{$self->{id}} = $self;
   }

   { __widget__ => $self->{id} }
 }
```

=head2 max_depth

```
  $json = $json->max_depth([$maximum_nesting_depth])

  $max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default C<512>) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of C<{> or C<[> characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

See L<JSON::XS/SECURITY
CONSIDERATIONS> for more info on why this is useful.

=head2 max_size

```
  $json = $json->max_size([$maximum_string_size])

  $max_size = $json->get_max_size
```

Set the maximum length a JSON text may have (in bytes) where decoding is
being attempted. The default is C<0>, meaning no limit. When C<decode>
is called on a string that is longer then this many bytes, it will not
attempt to decode the string but throw an exception. This setting has no
effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when
C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 encode

  $json_text = $json->encode($perl_scalar)

Converts the given Perl value or data structure to its JSON
representation. Croaks on error.

=head2 decode

  $perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it,
returning the resulting simple scalar or reference.
 Croaks on error.

=head2 decode_prefix

  ($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception
when there is trailing garbage after the first JSON object, it will
silently stop parsing there and return the number of characters consumed
so far.

This is useful if your JSON texts are not delimited by an outer protocol
and you need to know where the JSON text ends.

 JSON->new->decode_prefix ("[1] the tail")
 => ([1], 3)

=head1 ADDITIONAL METHODS

The following methods are for this module only.

=head2 backend

  $backend = $json->backend

Since 2.92, C<backend> method returns an abstract backend module used currently,
which should be JSON::Backend::XS (which inherits JSON::XS or Cpanel::JSON::XS),
or JSON::Backend::PP (which inherits JSON::PP), not to monkey-patch the actual
backend module globally.

If you need to know what is used actually, use C<isa>, instead of string comparison.

=head2
 is_xs

  $boolean = $json->is_xs

Returns true if the backend inherits JSON::XS or Cpanel::JSON::XS.

=head2 is_pp

  $boolean = $json->is_pp

Returns true if the backend inherits JSON::PP.

=head2 property

  $settings = $json->property()

Returns a reference to a hash that holds all the common flag settings.

  $json = $json->property('utf8' => 1)
  $value = $json->property('utf8') # 1

You can use this to get/set a value of a particular flag.

=head2 boolean

  $boolean_object = JSON->boolean($scalar)

Returns $JSON::true if $scalar contains a true value, $JSON::false otherwise.
You can use this as a full-qualified function (C<JSON::boolean($scalar)>).

=head1 INCREMENTAL PARSING

This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON
texts. While this module always has to keep both JSON text and resulting
Perl data structure in memory at one time, it does allow you to parse a
JSON stream incrementally. It does so by

accumulating text until it has
a full JSON object, which it then can decode. This process is similar to
using C<decode_prefix> to see if a full JSON object is available, but
is much more efficient (and can be implemented with a minimum of method
calls).

This module will only attempt to parse the JSON text once it is sure it
has enough text to get a decisive result, using a very simple but
truly incremental parser. This means that it sometimes won't stop as
early as the full parser, for example, it doesn't detect mismatched
parentheses. The only thing it guarantees is that it starts decoding as
soon as a syntactically valid JSON text has been seen. This means you need
to set resource limits (e.g. C<max_size>) to ensure the parser will stop
parsing in the presence if syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

  $json->incr_parse([$string]) # void context

  $obj_or_undef = $json->incr_parse([$string]) # scalar context

  @obj_or_empty = $json->incr_parse([$string]) # list context

This is the central parsing function. It can both append new text and
extract objects from the stream accumulated so far (both of these
functions are optional).

If C<$string> is given, then this string is appended to the already
existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply
return without doing anything further. This can be used to add more text
in as many chunks as you want.

If the method is called in scalar context, then it will try to extract
exactly I<one> JSON object. If that is successful, it will return this
object, otherwise it will return C<undef>. If there is a parse error,
this method will croak just as C<decode> would do (one can then use
C<incr_skip> to skip the erroneous part). This is the most common way of
using the method.

And finally, in list context, it will try to extract as many objects
from the stream as it can find and
 return them, or the empty list
otherwise. For this to work, there must be no separators (other than
whitespace) between the JSON objects or arrays, instead they must be

concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```
  my @objs = JSON->new->incr_parse ("[5][7][1,2]");
```

=head2 incr_text

```
  $lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That
 means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

=head2 incr_skip

```
  $json->incr_skip
```

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to C<incr_reset> is that only text until the parse error occurred is removed.

=head2 incr_reset

```
  $json->incr_reset
```

This completely resets the incremental parser, that is, after this call,

it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON
objects and want to
ignore any trailing data, which means you have to reset the parser after
each successful decode.

=head1 MAPPING

Most of this section is also taken from JSON::XS.

This section describes how the backend modules map Perl values to JSON values and
vice versa. These mappings are designed to "do the right thing" in most
circumstances automatically, preserving round-tripping characteristics
(what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions,
lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl>
refers to the abstract Perl language itself.

=head2 JSON -> PERL

=over 4

=item object

A JSON object becomes a reference to a hash in Perl. No ordering of object
keys is preserved (JSON does not preserver object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON
are
represented by the same codepoints in the Perl string, so no manual
decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or
string scalar in perl, depending on its range and any fractional parts. On
the Perl level, there is no difference between those as Perl handles all
the conversion details, but an integer may take slightly less memory and
might represent more values exactly than floating point numbers.

If the number consists of digits only, this module will try to represent
it as an integer value. If that fails, it will try to represent it as
a numeric (floating point) value if that is possible without loss of
precision. Otherwise it will preserve the number as a string value (in
which case you lose roundtripping ability, as the JSON number will be
re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be
represented as numeric (floating point) values, possibly at a loss of
precision
 (in which case you might lose perfect roundtripping ability, but
the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot
represent most decimal fractions exactly, and when converting from and to
floating point, this module only guarantees precision up to but not including
the least significant bit.

=item true, false

These JSON atoms become C<JSON::true> and C<JSON::false>,
respectively. They are overloaded to act almost exactly like the numbers
C<1> and C<0>. You can check whether a scalar is a JSON boolean by using
the C<JSON::is_bool> function.

=item null

A JSON null atom becomes C<undef> in Perl.

=item shell-style comments (C<< # I<text> >>)

As a nonstandard extension to the JSON syntax that is enabled by the
C<relaxed> setting, shell-style comments are allowed. They can start
anywhere outside strings and go till the end of the line.

=item tagged values (C<< (I<tag>)I<value> >>).

Another nonstandard
 extension to the JSON syntax, enabled with the
C<allow_tags> setting, are tagged values. In this implementation, the
I<tag> must be a perl package/class name encoded as a JSON string, and the
I<value> must be a JSON array encoding optional constructor arguments.

See L<OBJECT SERIALISATION>, below, for details.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a
truly typeless language, so we can only guess which JSON type is meant by
a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent
ordering in hash keys (or JSON objects), they will usually be encoded
in a pseudo-random order. This module can optionally sort the hash keys
(determined by the I<canonical> flag), so the same data structure will
serialise to the same JSON text (given same settings and version of
the same backend), but this incurs a runtime overhead and is only rarely useful,
e.g. when you want to compare some
 JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an
exception to be thrown, except for references to the integers C<0> and
C<1>, which get turned into C<false> and C<true> atoms in JSON. You can
also use C<JSON::false> and C<JSON::true> to improve readability.

  encode_json [\0,JSON::true]   # yields [false,true]

=item JSON::true, JSON::false, JSON::null

These special values become JSON true and JSON false values,
respectively. You can also use C<\1> and C<\0> directly if you want.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::XS>
allows various ways of handling objects. See L<OBJECT SERIALISATION>,
below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most
difficult objects to encode: this module will encode undefined scalars as
JSON

C<null> values, scalars that have last been used in a string context
before encoding as JSON strings, and anything else as number value:

```
 # dump as number
 encode_json [2]                    # yields [2]
 encode_json [-3.0e17]              # yields [-3e+17]
 my $value = 5; encode_json [$value]  # yields [5]

 # used as string, so dump as string
 print $value;
 encode_json [$value]               # yields ["5"]

 # undef becomes null
 encode_json [undef]                # yields [null]
```

You can force the type to be a string by stringifying it:

```
 my $x = 3.1; # some variable containing a number
 "$x";       # stringified
 $x .= "";    # another, more awkward way to stringify
 print $x;    # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
 my $x = "3"; # some variable containing a string
 $x += 0;     # numify it, ensuring it will be dumped as a number
 $x *= 1;     # same thing, the choice is yours.
```

You
can not currently force the type in other, less obscure, ways. Tell me
if you need this capability (but don't forget to explain why it's needed
:).

Since version 2.91_01, JSON::PP uses a different number detection logic
that converts a scalar that is possible to turn into a number safely.
The new logic is slightly faster, and tends to help people who use older
perl or who want to encode complicated data structure. However, this may
results in a different JSON text from the one JSON::XS encodes (and
thus may break tests that compare entire JSON texts). If you do
need the previous behavior for better compatibility or for finer control,
set PERL_JSON_PP_USE_B environmental variable to true before you
C<use> JSON.

Note that numerical precision has the same meaning as under Perl (so
binary to decimal conversion follows the same rules as in Perl, which
can differ to other languages). Also, your perl interpreter might expose
extensions to the floating point numbers of your platform,

such as
infinities or NaN's - these cannot be represented in JSON, and it is an
error to pass those in.

JSON.pm backend modules trust what you pass to C<encode> method
(or C<encode_json> function) is a clean, validated data structure with
values that can be represented as valid JSON values only, because it's
not from an external data source (as opposed to JSON texts you pass to
C<decode> or C<decode_json>, which JSON backends consider tainted and
don't trust). As JSON backends don't know exactly what you and consumers
of your JSON texts want the unexpected values to be (you may want to
convert them into null, or to stringify them with or without
normalisation (string representation of infinities/NaN may vary
depending on platforms), or to croak without conversion), you're advised
to do what you and your consumers need before you encode, and also not
to numify values that may start with values that look like a number
(including infinities/NaN), without validating.

=back

=head2 OBJECT
SERIALISATION

As JSON cannot directly represent Perl objects, you have to choose between
a pure JSON representation (without the ability to deserialise the object
automatically again), and a nonstandard extension to the JSON syntax,
tagged values.

=head3 SERIALISATION

What happens when this module encounters a Perl object depends on the
C<allow_blessed>, C<convert_blessed> and C<allow_tags> settings, which
are used in this order:

=over 4

=item 1. C<allow_tags> is enabled and the object has a C<FREEZE> method.

In this case, C<JSON> creates a tagged JSON value, using a nonstandard
extension to the JSON syntax.

This works by invoking the C<FREEZE> method on the object, with the first
argument being the object to serialise, and the second argument being the
constant string C<JSON> to distinguish it from other serialisers.

The C<FREEZE> method can return any number of values (i.e. zero or
more). These values and the paclkage/classname of the object will then be
encoded as a tagged

JSON value in the following format:

("classname")[FREEZE return values...]

e.g.:

("URI")["http://www.google.com/"]
("MyDate")[2013,10,29]
("ImageData::JPEG")["Z3...VlCg=="]

For example, the hypothetical C<My::Object> C<FREEZE> method might use the
objects C<type> and C<id> members to encode the object:

```
sub My::Object::FREEZE {
   my ($self, $serialiser) = @_;

   ($self->{type}, $self->{id})
}
```

=item 2. C<convert_blessed> is enabled and the object has a C<TO_JSON> method.

In this case, the C<TO_JSON> method of the object is invoked in scalar
context. It must return a single scalar that can be directly encoded into
JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI>
objects to JSON strings when serialised. The fact that these values
originally were L<URI> objects is lost.

```
sub URI::TO_JSON {
   my ($uri) = @_;
   $uri->as_string
}
```

=item 3. C<allow_blessed> is enabled.

The
object will be serialised as a JSON null value.

=item 4. none of the above

If none of the settings are enabled or the respective methods are missing,
this module throws an exception.

=back

=head3 DESERIALISATION

For deserialisation there are only two cases to consider: either
nonstandard tagging was used, in which case C<allow_tags> decides,
or objects cannot be automatically be deserialised, in which
case you can use postprocessing or the C<filter_json_object> or
C<filter_json_single_key_object> callbacks to get some real objects our of
your JSON.

This section only considers the tagged value case: a tagged JSON object
is encountered during decoding and C<allow_tags> is disabled, a parse
error will result (as if tagged values were not part of the grammar).

If C<allow_tags> is enabled, this module will look up the C<THAW> method
of the package/classname used during serialisation (it will not attempt
to load the package as a Perl module). If there is no such method, the
decoding
 will fail with an error.

Otherwise, the C<THAW> method is invoked with the classname as first
argument, the constant string C<JSON> as second argument, and all the
values from the JSON array (the values originally returned by the
C<FREEZE> method) as remaining arguments.

The method must then return the object. While technically you can return
any Perl scalar, you might have to enable the C<allow_nonref> setting to
make that work in all cases, so better return an actual blessed reference.

As an example, let's implement a C<THAW> function that regenerates the
C<My::Object> from the C<FREEZE> example earlier:

```
 sub My::Object::THAW {
    my ($class, $serialiser, $type, $id) = @_;

    $class->new (type => $type, id => $id)
 }
```

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify
encodings or codesets - C<utf8>, C<latin1> and C<ascii>. There seems to be
some confusion on what these do, so
 here is a short comparison:

C<utf8> controls whether the JSON text created by C<encode> (and expected
by C<decode>) is UTF-8 encoded or not, while C<latin1> and C<ascii> only
control whether C<encode> escapes character values outside their respective

codeset range. Neither of these flags conflict with each other, although
some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to
C<encode> and C<decode>, that is, texts encoded with any combination of
these flag values will be correctly decoded when the same flags are used
- in general, if you use different flag settings while encoding vs. when
decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is
simply an abstract set of character-codepoint pairs, while an encoding
takes those codepoint numbers and I<encodes> them, in our case into
octets. Unicode is (among other things) a codeset, UTF-8 is an encoding,
and ISO-8859-1
 (= latin 1) and ASCII are both codesets I<and> encodings at
the same time, which can be confusing.

=over 4

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate
and expect Unicode strings, that is, characters with high ordinal Unicode
values (> 255) will be encoded as such characters, and likewise such
characters are decoded as-is, no changes to them will be done, except
"(re-)interpreting" them as Unicode codepoints or Unicode characters,
respectively (to Perl, these are the same thing in strings unless you do
funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you
want to have UTF-16 encoded JSON texts) or when some other layer does
the encoding for you (for example, when printing to a terminal using a
filehandle that transparently encodes to UTF-8 you certainly do NOT want
to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag
 is enabled, C<encode>/C<decode> will encode all
characters using the corresponding UTF-8 multi-byte sequence, and will
expect your input strings to be encoded as UTF-8, that is, no "character"
of the input string must have any value > 255, as UTF-8 does not allow
that.

The C<utf8> flag therefore switches between two modes: disabled means you
will get a Unicode string in Perl, enabled means you get an UTF-8 encoded
octet/binary string in Perl.

=item C<latin1> or C<ascii> flags enabled

With C<latin1> (or C<ascii>) enabled, C<encode> will escape characters with ordinal values > 255 (> 127 with C<ascii>) and encode the remaining characters as specified by the C<utf8> flag.

If C<utf8> is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII
 string in Perl).

If C<utf8> is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using C<\uXXXX> then before.

Note that ISO-8859-1-I<encoded> strings are not compatible with UTF-8 encoding, while ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 I<codeset> being a subset of Unicode), while ASCII is.

Surprisingly, C<decode> will ignore these flags and so treat all input values as governed by the C<utf8> flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither C<latin1> nor C<ascii> are incompatible with the C<utf8> flag - they only govern when the JSON output engine escapes a character or not.

The main use for C<latin1> is to relatively efficiently store binary data as JSON, at the expense of breaking
 compatibility with most JSON decoders.

The main use for C<ascii> is to force the output to not contain characters with values > 127, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

=back

=head1 BACKWARD INCOMPATIBILITY

Since version 2.90, stringification (and string comparison) for C<JSON::true> and C<JSON::false> has not been overloaded. It shouldn't

matter as long as you treat them as boolean values, but a code that
expects they are stringified as "true" or "false" doesn't work as
you have expected any more.

```
  if (JSON::true eq 'true') {  # now fails

  print "The result is $JSON::true now."; # => The result is 1
now.
```

And now these boolean values don't inherit JSON::Boolean, either.
When you need to test a value is a JSON boolean value or not, use
C<JSON::is_bool> function, instead of testing the value inherits
a particular boolean class or not.

=head1 BUGS

Please report bugs on backend selection and additional features
this module provides to RT or GitHub issues for this module:

L<https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON>

L<https://github.com/makamaka/JSON/issues>

As for bugs on a specific behavior, please report to the author
of the backend module you are using.

As for new features and requests to change common behaviors, please
ask the author of JSON::XS (Marc Lehmann, E<lt>schmorp[at]schmorp.deE<gt>)
first, by email (important!), to keep compatibility among JSON.pm
backends.

=head1 SEE ALSO

L<JSON::XS>, L<Cpanel::JSON::XS>, L<JSON::PP> for backends.

L<JSON::MaybeXS>, an alternative that prefers Cpanel::JSON::XS.

C<RFC4627>(L<http://www.ietf.org/rfc/rfc4627.txt>)

RFC7159
 (L<http://www.ietf.org/rfc/rfc7159.txt>)

RFC8259 (L<http://www.ietf.org/rfc/rfc8259.txt>)

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JSON::XS was written by Marc Lehmann E<lt>schmorp[at]schmorp.deE<gt>

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1.204 cscope 15.9

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1.206 gpt-fdisk 1.0.8

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

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DRuntime: Runtime Library for the D Programming Language
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1.214 python3-certifi 2021.10.8

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file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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1.215 python3-cryptography 36.0.2

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1.216 libdbd-sqlite-perl 1.68

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1.217 glibc-locale 2.35

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if the work is a derivative of the Library, you may
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@item

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@enumerate a
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@page
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1.219 mtools 4.0.38

1.219.1 Available under license :

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1.222 python3-cython 0.29.28

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1.223 python3-pyhamcrest 2.0.3

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1.224 dpdk-module 22.11.0

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1.227 python3-importlib-metadata 4.11.3

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1.228 python3-smmap 5.0.0

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1.229 libatomic-ops 7.6.14

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1.230 linux-libc-headers 5.16

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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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1.231 python3-click 8.1.2

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[metadata]
name = click
version = attr: click.__version__
url = https://palletsprojects.com/p/click/
project_urls =
Donate = https://palletsprojects.com/donate
Documentation = https://click.palletsprojects.com/
Changes = https://click.palletsprojects.com/changes/
Source Code = https://github.com/pallets/click/

```
 Issue Tracker = https://github.com/pallets/click/issues/
 Twitter = https://twitter.com/PalletsTeam
 Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = Composable command line interface toolkit
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
 Development Status :: 5 - Production/Stable
 Intended Audience :: Developers
 License :: OSI Approved :: BSD License
 Operating System :: OS
 Independent
 Programming Language :: Python

[options]
packages = find:
package_dir = = src
include_package_data = True
python_requires = >= 3.7

[options.packages.find]
where = src

[tool:pytest]
testpaths = tests
filterwarnings =
 error

[coverage:run]
branch = True
source =
 click
 tests

[coverage:paths]
source =
 src
 */site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
```

```
 E203
 E501
 E722
 W503
max-line-length = 80
per-file-ignores =
 src/click/__init__.py: F401

[mypy]
files = src/click
python_version = 3.7
show_error_codes = True
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
check_untyped_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-colorama.*]
ignore_missing_imports = True

[mypy-importlib_metadata.*]
ignore_missing_imports
 = True

[egg_info]
tag_build =
tag_date = 0
```

Found in path(s):
* /click-8-1-2-1-tar-gz/click-8.1.2/setup.cfg

1.232 lib32-gcc-runtime 11.4.0

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

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DRuntime: Runtime Library for the D Programming Language
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1.234 python3-gcovr 5.1

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.

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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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'# New ports collection makefile for: python25\n' Comment

'# Date created: 3 July 2003\n' Comment

'# Whom: Hye-Shik Chang <perky@FreeBSD.org>\n' Comment

'#\n'   Comment

'# $FreeBSD: ports/lang/python25/Makefile,v 1.145 2007/10/03 23:22:04 edwin Exp $\n' Comment

'\n'   Text

'PORTNAME'   Name.Variable

'=' Operator
'\t' Text
'python25' Text
'\n' Text

'PORTVERSION' Name.Variable
'=' Operator
'\t' Text
'2' Literal.Number
'.5.1' Text
'\n' Text

'CATEGORIES' Name.Variable
'=' Operator
'\t' Text
'lang' Text
' ' Text
'python' Text
' ' Text
'ipv6' Text
'\n' Text

'MASTER_SITES' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PYTHON_MASTER_SITES' Name.Variable
'}' Literal.String.Interpol
'\n' Text

'MASTER_SITE_SUBDIR' Name.Variable
'='
  Operator
'\t' Text
'${' Literal.String.Interpol
'PYTHON_MASTER_SITE_SUBDIR' Name.Variable
'}' Literal.String.Interpol
'\n' Text

'DISTFILES' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PYTHON_DISTFILE' Name.Variable
'}' Literal.String.Interpol
'\n' Text

'\n' Text

'MAINTAINER' Name.Variable
'=' Operator
'\t' Text
'python@FreeBSD.org' Text
'\n' Text

'COMMENT' Name.Variable
'?=' Operator
'\t' Text
'An' Text
' ' Text
'interpreted' Text
' ' Text
'object-oriented' Text
' ' Text
'programming' Text
' ' Text
'language' Text
'\n' Text

'\n' Text

'DIST_SUBDIR' Name.Variable
'=' Operator
'\t' Text
'python' Text
'\n' Text

'WRKSRC' Name.Variable
'=' Operator
'\t\t' Text
'${' Literal.String.Interpol
'PYTHON_WRKSRC'
 Name.Variable
'}' Literal.String.Interpol
'/portbld.static' Text
'\n' Text

'PATCH_WRKSRC' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'\n' Text

'GNU_CONFIGURE' Name.Variable

'=' Operator
'\t' Text
'yes' Text
'\n' Text

'CONFIGURE_TARGET' Name.Variable
'=' Operator
'\t' Text
'--build' Text
'=' Operator
'${' Literal.String.Interpol
'MACHINE_ARCH' Name.Variable
'}' Literal.String.Interpol
'-portbld-freebsd' Text
'${' Literal.String.Interpol
'OSREL' Name.Variable
'}' Literal.String.Interpol
'\n' Text

'CONFIGURE_SCRIPT' Name.Variable
'=' Operator
'\t' Text
'../configure' Text
' ' Text
'# must be relative\n' Comment.Single

'CONFIGURE_ENV' Name.Variable
'=' Operator
'\t'
  Text
'OPT' Name.Variable
'=' Operator
'' Literal.String.Double
'${' Literal.String.Interpol
'CFLAGS' Name.Variable
'}' Literal.String.Interpol
'' Literal.String.Double
' ' Text
'SVNVERSION' Name.Variable
'=' Operator
'"echo freebsd"' Literal.String.Double
'\n' Text

'MAKE_ENV' Name.Variable
'=' Operator
'\t' Text
'VPATH' Name.Variable
'=' Operator

```
""          Literal.String.Double
'${'        Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
""          Literal.String.Double
'\n'        Text

'INSTALLS_SHLIB' Name.Variable
'='         Operator
'\t'        Text
'yes'       Text
'\n'        Text

'INSTALL_TARGET' Name.Variable
'='         Operator
'\t'        Text
'altinstall'  Text
'\n'        Text

'MAN1'      Name.Variable
'='         Operator
'\t\t'      Text
'${'
  Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'         Literal.String.Interpol
'.1'        Text
'\n'        Text

'\n'        Text

'USE_PYTHON'  Name.Variable
'='         Operator
'\t'        Text
'yes'       Text
'\n'        Text

'PYTHON_VERSION' Name.Variable
'='         Operator
'\t'        Text
'python2.5'   Text
'\n'        Text

'PYTHON_NO_DEPENDS' Name.Variable
'='         Operator
'\t'        Text
'yes'       Text
'\n'        Text
```

```
'\n'          Text

'SHARED_WRKSRC' Name.Variable
'='           Operator
'\t'          Text
'${'          Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/portbld.shared' Text
'\n'          Text

'PLIST'       Name.Variable
'='           Operator
'\t\t'        Text
'${'          Literal.String.Interpol
'WRKDIR'      Name.Variable
'}'           Literal.String.Interpol
'/PLIST'      Text
'\n'          Text

'PLIST_TEMPLATE' Name.Variable
'?='          Operator
'${'
        Literal.String.Interpol
'PKGDIR'      Name.Variable
'}'           Literal.String.Interpol
'/pkg-plist'  Text
'\n'          Text

'PLIST_SUB'   Name.Variable
'='           Operator
'\t'          Text
'PYVER'       Name.Variable
'='           Operator
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'           Punctuation
'S'           Name.Variable
'/python//'   Punctuation
'}'           Literal.String.Interpol
' '           Text
'\\\n'        Literal.String.Escape

'\t\t'        Text
'PYVER_WITHPAT' Name.Variable
'='           Operator
'${'          Literal.String.Interpol
```

'PORTVERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/.c/c/' Punctuation
'}' Literal.String.Interpol
'\n' Text

'DEMODIR' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/share/examples/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION'
Name.Variable
'}' Literal.String.Interpol
'\n' Text

'TOOLSDIR' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/share/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'\n' Text

'\n' Text

'BIN_SCRIPTS' Name.Variable
'=' Operator
'\t' Text
'idle' Text
' ' Text
'pydoc' Text
' ' Text
'python' Text
' ' Text
'python-shared' Text
' ' Text
'smtpd.py' Text
' ' Text
'python-config' Text

```
' '         Text
'\\\n'      Literal.String.Escape

'\t\t'      Text
'python-shared-config' Text
'\n'        Text

'BINLINKS_SUB' Name.Variable
'='         Operator
'\t'        Text
'-e'        Text
' '         Text
"'s,smtpd,smtpd${PYTHON_VER},'" Literal.String.Single
'
 '          Text
'\\\n'      Literal.String.Escape

'\t\t'      Text
'-e'        Text
' '         Text
"'s,(idle|pydoc|python-shared|python),\\1${PYTHON_VER},'" Literal.String.Single
'\n\n'      Text

'OPTIONS'    Name.Variable
'='         Operator
'\t'        Text
'THREADS'    Text
' '         Text
"'Enable thread support'" Literal.String.Double
' '         Text
'on'         Text
' '         Text
'\\\n'      Literal.String.Escape

'\t\t'      Text
'HUGE_STACK_SIZE' Text
' '         Text
"'Use a larger thread stack'" Literal.String.Double
' '         Text
'off'        Text
' '         Text
'\\\n'      Literal.String.Escape

'\t\t'      Text
'UCS4'       Text
' '         Text
"'Use UCS4 for unicode support'" Literal.String.Double
' '         Text
```

```
'on'          Text
' '          Text
'\\\n'       Literal.String.Escape

'\t\t'       Text
'PYMALLOC'    Text
' '          Text
"'Use python\'s internal malloc"' Literal.String.Double
'
 '          Text
'on'          Text
' '          Text
'\\\n'       Literal.String.Escape

'\t\t'       Text
'IPV6'        Text
' '          Text
"'Enable IPv6 support"' Literal.String.Double
' '          Text
'on'          Text
' '          Text
'\\\n'       Literal.String.Escape

'\t\t'       Text
'FPECTL'      Text
' '          Text
"'Enable floating point exception handling"' Literal.String.Double
' '          Text
'off'         Text
'\n\n'       Text

'.include <bsd.port.pre.mk>\n' Comment.Preproc

'\n'         Text

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'MLINKS'      Name.Variable
'='          Operator
'\t\t'       Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'.1'         Text
' '          Text
'python.1'    Text
'\n'         Text
```

'PLIST_SUB'   Name.Variable
'+='   Operator
'\t'   Text
'IF_DEFAULT' Name.Variable
'='   Operator
'"'"'
      Literal.String.Double
'\n'   Text

'.else\n'   Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='   Operator
'\t'   Text
'IF_DEFAULT' Name.Variable
'='   Operator
'"@comment "' Literal.String.Double
'\n'   Text

'.endif\n'   Comment.Preproc

'\n'   Text

'# workaround for a bug in base curses.h.\n' Comment

'CFLAGS'   Name.Variable
'+='   Operator
'\t'   Text
'-D__wchar_t' Text
'='   Operator
'wchar_t'   Text
'\n'   Text

'\n'   Text

'.if !defined(WITHOUT_THREADS)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='   Operator
'\t'   Text
'--with-threads' Text
'\n'   Text

'CFLAGS'   Name.Variable
'+='   Operator
'\t\t'   Text
'${'   Literal.String.Interpol
'PTHREAD_CFLAGS' Name.Variable

'}' Literal.String.Interpol
'\n' Text

'.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CFLAGS' Name.Variable
'+=' Operator
'\t\t'
  Text
'-DTHREAD_STACK_SIZE' Text
'=' Operator
'0x20000' Text
'\n' Text

'.else\n' Comment.Preproc

'CFLAGS' Name.Variable
'+=' Operator
'\t\t' Text
'-DTHREAD_STACK_SIZE' Text
'=' Operator
'0x100000' Text
'\n' Text

'.endif # defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+=' Operator
'\t\t' Text
'LDFLAGS' Name.Variable
'=' Operator
'' Literal.String.Double
'${' Literal.String.Interpol
'PTHREAD_LIBS' Name.Variable
'}' Literal.String.Interpol
' ' Literal.String.Double
'${' Literal.String.Interpol
'LDFLAGS' Name.Variable
'}' Literal.String.Interpol
'' Literal.String.Double
'\n' Text

'.else\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'\t' Text
'--without-threads' Text

'\n' Text

'.if defined(LDFLAGS)\n' Comment.Preproc

'CONFIGURE_ENV'
 Name.Variable
'+=' Operator
'\t\t' Text
'LDFLAGS' Name.Variable
'=' Operator
'' Literal.String.Double
'${' Literal.String.Interpol
'LDFLAGS' Name.Variable
'}' Literal.String.Interpol
'' Literal.String.Double
'\n' Text

'.endif # defined(LDFLAGS)\n' Comment.Preproc

'.endif # !defined(WITHOUT_THREADS)\n' Comment.Preproc

'\n' Text

'.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'\t' Text
'--enable-unicode' Text
'=' Operator
'ucs4' Text
'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'.if defined(WITHOUT_PYMALLOC)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
' ' Text
'--without-pymalloc' Text
'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'.if ${ARCH} == i386\n' Comment.Preproc

'PLIST_SUB'
  Name.Variable
'+=' Operator
'\t' Text
'X86_ONLY' Name.Variable
'=' Operator
'"' Literal.String.Double
'\n' Text

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text
'X86_ONLY' Name.Variable
'=' Operator
'"@comment "' Literal.String.Double
'\n' Text

'.endif\n' Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text
'32BIT_ONLY' Name.Variable
'=' Operator
'"@comment "' Literal.String.Double
'\n' Text

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text
'32BIT_ONLY' Name.Variable
'=' Operator
'"' Literal.String.Double
'\n' Text

'.endif\n' Comment.Preproc

'.if ${ARCH} == sparc64\n' Comment.Preproc

'CFLAGS' Name.Variable
'+='
  Operator
' ' Text
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'=' Operator
'900' Literal.Number
'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text
'NO_NIS' Name.Variable
'=' Operator
'"@comment " Literal.String.Double
'\n' Text

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text
'NO_NIS' Name.Variable
'=' Operator
'""' Literal.String.Double
'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'.if !defined(WITHOUT_IPV6)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
' ' Text
'--enable-ipv6' Text
'\n' Text

'.else\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable

'+=' Operator
' ' Text
'--disable-ipv6'
 Text
'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'.if defined(WITH_FPECTL)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
' ' Text
'--with-fpectl' Text
'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'.if ${OSVERSION} >= 700000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
' ' Text
'plat-freebsd5' Text
' ' Text
'plat-freebsd6' Text
'\n' Text

'.elif ${OSVERSION} >= 600000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
' ' Text
'plat-freebsd5' Text
' ' Text
'plat-freebsd7' Text
'\n' Text

'.else\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator

```
'plat-freebsd4' Text
' '         Text
'plat-freebsd6' Text
' '         Text
'plat-freebsd7' Text
'\n'        Text

'.endif\n'   Comment.Preproc

'\n'        Text

'pre-patch'
  Name.Function
':'         Operator
'\n'        Text

'\t'        Text
'${'        Literal.String.Interpol
'MKDIR'     Name.Variable
'}'         Literal.String.Interpol
' '         Text
'${'        Literal.String.Interpol
'WRKSRC'    Name.Variable
'}'         Literal.String.Interpol
' '         Text
'${'        Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/Modules'  Text
'\n\t'      Text
'${'        Literal.String.Interpol
'SED'       Name.Variable
'}'         Literal.String.Interpol
' '         Text
'-e'        Text
' '         Text
"'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
' '         Text
'\\\n'      Literal.String.Escape

'\t\t'      Text
'${'        Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/Tools/scripts/pydoc' Text
' '         Text
'>'         Text
' '         Text
```

'${' Literal.String.Interpol
'WRKDIR'
    Name.Variable
'}' Literal.String.Interpol
'/pydoc2.5' Text
'\n\t' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
' ' Text
'-e' Text
' ' Text
"'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
' ' Text
'\\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Tools/scripts/idle' Text
' ' Text
'>' Text
' ' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/idle2.5' Text
'\n\t' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
' ' Text
'-e' Text
' ' Text
"'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
' ' Text
'\\\n'
    Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib/smtpd.py' Text
' ' Text
'>' Text
' ' Text

'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/smtpd2.5.py' Text
'\n\t' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
' ' Text
'-e' Text
' ' Text
'\\\n' Literal.String.Escape

'\t\t' Text
"'s,/usr/doc/python-docs-,${PREFIX}/share/doc/python,g'" Literal.String.Single
' ' Text
'\\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib/pydoc.py' Text
'\n\t' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
'
 ' Text
'-e' Text
' ' Text
'\\\n' Literal.String.Escape

'\t\t' Text
'\'s|^\\(*prefixes = .*\\)\\]$$|\\1, "${X11BASE}"]|g\" Literal.String.Single
' ' Text
'\\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib/site.py' Text
'\n\t' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
' ' Text

```
'-e'          Text
' '           Text
'\\\n'        Literal.String.Escape

'\t\t'        Text
"'s|^\t\\(..ASDLGEN.*\\)$$|\t${TRUE}|g'" Literal.String.Single
' '           Text
'\\\n'        Literal.String.Escape

'\t\t'        Text
'${'          Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t'      Text
'${'          Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'           Literal.String.Interpol
'
 '           Text
'-e'          Text
' '           Text
'\\\n'        Literal.String.Escape

'\t\t'        Text
"'s|*\\(..INSTALL_SCRIPT.*\\)python-config$$|#port \\1|'" Literal.String.Single
' '           Text
'\\\n'        Literal.String.Escape

'\t\t'        Text
'${'          Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t'      Text
'${'          Literal.String.Interpol
'SED'         Name.Variable
'}'           Literal.String.Interpol
' '           Text
'-e'          Text
' '           Text
"'s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION}|'" Literal.String.Single
' '           Text
'\\\n'        Literal.String.Escape

'\t\t'        Text
'${'          Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
```

'}' Literal.String.Interpol
'/Misc/python-config.in' Text
' ' Text
'>' Text
' ' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}'
  Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'-config' Text
'\n\t' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
' ' Text
'-e' Text
' ' Text
"'s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}|'" Literal.String.Single
' ' Text
'\\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Misc/python-config.in' Text
' ' Text
'>' Text
' ' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/thon/thon-shared/' Punctuation
'}'
  Literal.String.Interpol
'-config' Text
'\n\n' Text

'.if defined(WITH_FPECTL) && ${ARCH} == i386\n' Comment.Preproc

```
'\t'          Text
'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
' '           Text
'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'           Literal.String.Interpol
'/Modules'    Text
'\n\t'        Text
'${'          Literal.String.Interpol
'ECHO'        Name.Variable
'}'           Literal.String.Interpol
' '           Text
'"fpectl fpectlmodule.c"' Literal.String.Double
' '           Text
'>>'          Text
' '           Text
'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'           Literal.String.Interpol
'/Modules/Setup.dist' Text
'\n'          Text

'.endif\n'    Comment.Preproc

'\n'          Text

'post-configure' Name.Function
':'           Operator
'\n'          Text

'\t'          Text
'${'          Literal.String.Interpol
'TAR'         Name.Variable
'}'
          Literal.String.Interpol
' '           Text
'-C'          Text
' '           Text
'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'           Literal.String.Interpol
' '           Text
'-cf'         Text
' '           Text
'-'           Text
```

```
' '         Text
'.'         Text
' '         Text
'|'         Punctuation
' '         Text
'${'        Literal.String.Interpol
'TAR'       Name.Variable
'}'         Literal.String.Interpol
' '         Text
'-C'        Text
' '         Text
'${'        Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
' '         Text
'-xf'       Text
' '         Text
'-'         Text
'\n\t'      Text
'${'        Literal.String.Interpol
'LN'        Name.Variable
'}'         Literal.String.Interpol
' '         Text
'-sf'       Text
' '         Text
'${'        Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/Lib'
      Text
' '         Text
'${'        Literal.String.Interpol
'WRKSRC'    Name.Variable
'}'         Literal.String.Interpol
'/Lib'      Text
'\n\t'      Text
'${'        Literal.String.Interpol
'SED'       Name.Variable
'}'         Literal.String.Interpol
' '         Text
'-e'        Text
' '         Text
"'s,^\\(LDLIBRARY=\\).*$$,\\1libpython$$(VERSION).so,'" Literal.String.Single
' '         Text
'\\\n'      Literal.String.Escape

'\t\t'      Text
'-e'        Text
```

```
' '         Text
"'s,^\\(BLDLIBRARY=\\).*$$,\\1-L. -lpython$$(VERSION),'" Literal.String.Single
' '         Text
'\\\n'      Literal.String.Escape

'\t\t'      Text
'-e'        Text
' '         Text
"'s,^\\(CFLAGSFORSHARED=\\).*$$,\\1$$(CCSHARED),'" Literal.String.Single
' '         Text
'\\\n'      Literal.String.Escape

'\t\t'      Text
'-e'        Text
' '         Text
"'s,^\\(Makefile Modules/config.c:.*\\)Makefile.pre,\\1,'" Literal.String.Single
'
 '         Text
'\\\n'      Literal.String.Escape

'\t\t'      Text
'-e'        Text
' '         Text
"'s,^\\(.(BUILDPYTHON)\\: .*\\).(LIBRARY),\\1,'" Literal.String.Single
' '         Text
'\\\n'      Literal.String.Escape

'\t\t'      Text
'-e'        Text
' '         Text
"'s,^\\(.(BUILDPYTHON):.*\\).(LIBRARY),\\1,'" Literal.String.Single
' '         Text
'\\\n'      Literal.String.Escape

'\t\t'      Text
'${'        Literal.String.Interpol
'WRKSRC'    Name.Variable
'}'         Literal.String.Interpol
'/Makefile' Text
' '         Text
'>'         Text
' '         Text
'${'        Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/Makefile' Text
'\n\n'      Text
```

```
'pre-build'   Name.Function
':'           Operator
'\n'          Text

'\t'          Text
'cd'          Name.Builtin
' '           Text
'${'          Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
';'
            Punctuation
' '           Text
'\\\n'        Literal.String.Escape

'\t'          Text
'${'          Literal.String.Interpol
'SETENV'      Name.Variable
'}'           Literal.String.Interpol
' '           Text
'${'          Literal.String.Interpol
'MAKE_ENV'    Name.Variable
'}'           Literal.String.Interpol
' '           Text
'${'          Literal.String.Interpol
'MAKE'        Name.Variable
'}'           Literal.String.Interpol
' '           Text
'lib'         Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'.so'         Text
' '           Text
'python'      Text
';'           Punctuation
' '           Text
'\\\n'        Literal.String.Escape

'\t'          Text
'${'          Literal.String.Interpol
'LN'          Name.Variable
'}'           Literal.String.Interpol
' '           Text
'-f'          Text
' '           Text
'lib'         Text
'${'          Literal.String.Interpol
```

'PYTHON_VERSION'
 Name.Variable
'}' Literal.String.Interpol
'.so' Text
' ' Text
'lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so.1' Text
';' Punctuation
' ' Text
'\\\n' Literal.String.Escape

'\t' Text
'${' Literal.String.Interpol
'LN' Name.Variable
'}' Literal.String.Interpol
' ' Text
'-f' Text
' ' Text
'python' Text
' ' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/thon/thon-shared/' Punctuation
'}' Literal.String.Interpol
'\n\n' Text

'pre-su-install' Name.Function
':' Operator
'\n' Text

'.for platform in ${PLATFORMS}\n' Comment.Preproc

'\t' Text
'${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
'
 ' Text
'${' Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}' Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol

'platform'   Name.Variable
'}'   Literal.String.Interpol
'\n'   Text

'.for file in IN.py regen\n' Comment.Preproc

'\t'   Text
'${'   Literal.String.Interpol
'INSTALL_DATA' Name.Variable
'}'   Literal.String.Interpol
' '   Text
'${'   Literal.String.Interpol
'WRKSRC'   Name.Variable
'}'   Literal.String.Interpol
'/Lib/'   Text
'${'   Literal.String.Interpol
'platform'   Name.Variable
'}'   Literal.String.Interpol
'/'   Text
'${'   Literal.String.Interpol
'file'   Name.Variable
'}'   Literal.String.Interpol
' '   Text
'\\\n'   Literal.String.Escape

'\t\t'   Text
'${'   Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'   Literal.String.Interpol
'/'
          Text
'${'   Literal.String.Interpol
'platform'   Name.Variable
'}'   Literal.String.Interpol
'/'   Text
'\n'   Text

'.endfor\n'   Comment.Preproc

'.endfor\n'   Comment.Preproc

'\n'   Text

'pre-install' Name.Function
':'   Operator
'\n'   Text

'\t'   Text

```
'${'         Literal.String.Interpol
'CAT'        Name.Variable
'}'          Literal.String.Interpol
' '          Text
'${'         Literal.String.Interpol
'PLIST_TEMPLATE' Name.Variable
'}'          Literal.String.Interpol
' '          Text
'|'          Punctuation
' '          Text
'${'         Literal.String.Interpol
'AWK'        Name.Variable
'}'          Literal.String.Interpol
' '          Text
'\'{ print $$0; } \\\n\t/LIBDIR.*\\.py$$/ && !/\\/bad/ { print $$0 "o"; print $$0 "c"; }\" Literal.String.Single
'\t'         Text
'>'          Text
' '          Text
'${'         Literal.String.Interpol
'PLIST'      Name.Variable
'}'
    Literal.String.Interpol
'\n\n'       Text

"\t@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\n" Comment

'\t'         Text
'('          Operator
'['          Operator
' '          Text
'-f'         Text
' '          Text
'${'         Literal.String.Interpol
'WRKSRC'     Name.Variable
'}'          Literal.String.Interpol
'/.without_own_sha' Text
' '          Text
']'          Operator
' '          Text
'&&'         Operator
' '          Text
'\\\n'       Literal.String.Escape

'\t\t'       Text
'${'         Literal.String.Interpol
'GREP'       Name.Variable
'}'          Literal.String.Interpol
' '          Text
```

```
'-v'          Text
' '           Text
'"lib-dynload/_sha"' Literal.String.Single
' '           Text
'${'          Literal.String.Interpol
'PLIST'       Name.Variable
'}'           Literal.String.Interpol
' '           Text
'>'           Text
' '           Text
'${'          Literal.String.Interpol
'PLIST'       Name.Variable
'}'
            Literal.String.Interpol
'.tmp'        Text
' '           Text
'&&'          Operator
' '           Text
'\\\n'        Literal.String.Escape

'\t\t'        Text
'${'          Literal.String.Interpol
'CAT'         Name.Variable
'}'           Literal.String.Interpol
' '           Text
'${'          Literal.String.Interpol
'PLIST'       Name.Variable
'}'           Literal.String.Interpol
'.tmp'        Text
' '           Text
'>'           Text
' '           Text
'${'          Literal.String.Interpol
'PLIST'       Name.Variable
'}'           Literal.String.Interpol
')'           Operator
' '           Text
'||'          Operator
' '           Text
'${'          Literal.String.Interpol
'TRUE'        Name.Variable
'}'           Literal.String.Interpol
'\n\n'        Text

'post-install' Name.Function
':'           Operator
'\n'          Text
```

'\t@# install config providers\n' Comment

'\t' Text
'${' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'
Literal.String.Interpol
' ' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'-config' Text
' ' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
'\n\t' Text
'${' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}' Literal.String.Interpol
' ' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/thon/thon-shared/' Punctuation
'}' Literal.String.Interpol
'-config' Text
' ' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}'
Literal.String.Interpol
'/bin' Text
'\n\n' Text

'\t@# shared version of executable and library\n' Comment

'\t' Text

'${' Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}' Literal.String.Interpol
' ' Text
'${' Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so.1' Text
' ' Text
'\\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
'\n\t' Text
'cd' Name.Builtin
' ' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
';' Punctuation
' ' Text
'${' Literal.String.Interpol
'LN'
  Name.Variable
'}' Literal.String.Interpol
' ' Text
'-sf' Text
' ' Text
'lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so.1' Text
' ' Text
'\\\n' Literal.String.Escape

'\t\t' Text
'lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable

```
'}'          Literal.String.Interpol
'.so'        Text
'\n\t'       Text
'${'         Literal.String.Interpol
'LN'          Name.Variable
'}'          Literal.String.Interpol
' '          Text
'-sf'        Text
' '          Text
'${'         Literal.String.Interpol
'PREFIX'     Name.Variable
'}'          Literal.String.Interpol
'/lib/lib'   Text
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'.so'        Text
' '          Text
'${'         Literal.String.Interpol
'PYTHONPREFIX_LIBDIR'
 Name.Variable
'}'          Literal.String.Interpol
'/config'    Text
'\n\t'       Text
'${'         Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}'          Literal.String.Interpol
' '          Text
'\\\n'       Literal.String.Escape

'\t\t'       Text
'${'         Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'          Punctuation
'S'          Name.Variable
'/thon/thon-shared/' Punctuation
'}'          Literal.String.Interpol
' '          Text
'\\\n'       Literal.String.Escape

'\t\t'       Text
'${'         Literal.String.Interpol
'PREFIX'     Name.Variable
'}'          Literal.String.Interpol
```

```
'/bin'        Text
'\n\n'        Text

'\t@# additional files installing by ports\n' Comment

'\t'          Text
'${'          Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'           Literal.String.Interpol
' '
      Text
'${'          Literal.String.Interpol
'WRKDIR'      Name.Variable
'}'           Literal.String.Interpol
'/pydoc2.5'   Text
' '           Text
'${'          Literal.String.Interpol
'WRKDIR'      Name.Variable
'}'           Literal.String.Interpol
'/idle2.5'    Text
' '           Text
'\\\n'        Literal.String.Escape

'\t\t'        Text
'${'          Literal.String.Interpol
'WRKDIR'      Name.Variable
'}'           Literal.String.Interpol
'/smtpd2.5.py' Text
' '           Text
'${'          Literal.String.Interpol
'PREFIX'      Name.Variable
'}'           Literal.String.Interpol
'/bin'        Text
'\n\t'        Text
'@'           Text
'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
' '           Text
'${'          Literal.String.Interpol
'MANPREFIX'   Name.Variable
'}'           Literal.String.Interpol
'/man/man1'   Text
'\n\t'        Text
'${'          Literal.String.Interpol
'INSTALL_MAN' Name.Variable
'}'
```

```
 Literal.String.Interpol
' '          Text
'${'         Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Misc/python.man' Text
' '          Text
'\\\n'       Literal.String.Escape

'\t\t'       Text
'${'         Literal.String.Interpol
'MANPREFIX'   Name.Variable
'}'          Literal.String.Interpol
'/man/man1/'  Text
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'.1'         Text
'\n\n'       Text

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'\t'         Text
'for'        Keyword
' '          Text
'f'          Text
' '          Text
'in'         Keyword
' '          Text
'${'         Literal.String.Interpol
'BIN_SCRIPTS' Name.Variable
'}'          Literal.String.Interpol
';'          Punctuation
' '          Text
'do'         Keyword
' '          Text
'\\\n'       Literal.String.Escape

'\t\t'       Text
'TARGET'      Name.Variable
'='
          Operator
'`'          Literal.String.Backtick
'${'         Literal.String.Interpol
'ECHO_CMD'    Name.Variable
'}'          Literal.String.Interpol
' '          Text
'$$'         Name.Variable
```

```
'f'          Text
' '          Text
'|'          Punctuation
' '          Text
'${'         Literal.String.Interpol
'SED'        Name.Variable
'}'          Literal.String.Interpol
' '          Text
'-E'         Text
' '          Text
'${'         Literal.String.Interpol
'BINLINKS_SUB' Name.Variable
'}'          Literal.String.Interpol
'`'          Literal.String.Backtick
';'          Punctuation
' '          Text
'\\\n'       Literal.String.Escape

'\t\t'       Text
'cd'         Name.Builtin
' '          Text
'${'         Literal.String.Interpol
'PREFIX'     Name.Variable
'}'          Literal.String.Interpol
'/bin'       Text
' '          Text
'&&'         Operator
' '          Text
'${'         Literal.String.Interpol
'LN'         Name.Variable
'}'
         Literal.String.Interpol
' '          Text
'-f'         Text
' '          Text
'$$'         Name.Variable
'TARGET'     Text
' '          Text
'$$'         Name.Variable
'f'          Text
';'          Punctuation
' '          Text
'\\\n'       Literal.String.Escape

'\t'         Text
'done'       Keyword
'\n'         Text
```

```
'.endif\n'    Comment.Preproc

'\n'          Text

'.if !defined(NOPORTDOCS)\n' Comment.Preproc

'\t'          Text
'@'           Text
'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
' '           Text
'${'          Literal.String.Interpol
'TOOLSDIR'    Name.Variable
'}'           Literal.String.Interpol
'\n\t'        Text
'@cd'         Text
' '           Text
'${'          Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
';'           Punctuation
' '           Text
'${'          Literal.String.Interpol
'TAR'         Name.Variable
'}'           Literal.String.Interpol
'
 '           Text
'-cf'         Text
' '           Text
'-'           Text
' '           Text
'Tools'       Text
' '           Text
'|'           Punctuation
' '           Text
'\\\n'        Literal.String.Escape

'\t\t'        Text
'('           Operator
'cd'          Name.Builtin
' '           Text
'${'          Literal.String.Interpol
'TOOLSDIR'    Name.Variable
'}'           Literal.String.Interpol
';'           Punctuation
' '           Text
'${'          Literal.String.Interpol
```

```
'TAR'        Name.Variable
'}'          Literal.String.Interpol
' '          Text
'-xf'        Text
' '          Text
'-'          Text
')'          Operator
'\n\t'       Text
'@'          Text
'${'         Literal.String.Interpol
'MKDIR'      Name.Variable
'}'          Literal.String.Interpol
' '          Text
'${'         Literal.String.Interpol
'DEMODIR'    Name.Variable
'}'          Literal.String.Interpol
'\n\t'       Text
'@cd'        Text
' '          Text
'${'
        Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Demo'      Text
';'          Punctuation
' '          Text
'${'         Literal.String.Interpol
'TAR'        Name.Variable
'}'          Literal.String.Interpol
' '          Text
'-cf'        Text
' '          Text
'-'          Text
' '          Text
'*'          Text
' '          Text
'|'          Punctuation
' '          Text
'\\\n'       Literal.String.Escape

'\t\t'       Text
'('          Operator
'cd'         Name.Builtin
' '          Text
'${'         Literal.String.Interpol
'DEMODIR'    Name.Variable
'}'          Literal.String.Interpol
';'          Punctuation
```

```
' '         Text
'${'        Literal.String.Interpol
'TAR'       Name.Variable
'}'         Literal.String.Interpol
' '         Text
'-xf'       Text
' '         Text
'-'         Text
')'         Operator
'\n'        Text

'.endif\n'   Comment.Preproc

'\n\t'      Text
'@'
        Text
'${'        Literal.String.Interpol
'CAT'       Name.Variable
'}'         Literal.String.Interpol
' '         Text
'${'        Literal.String.Interpol
'PKGMESSAGE'  Name.Variable
'}'         Literal.String.Interpol
'\n\n'      Text

'.include <bsd.port.post.mk>\n' Comment.Preproc
```

1.240 libcxx 14.0.6

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```
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1.241 python3-pyparsing 3.0.7

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1.243 python3-coverage 6.3.2

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Other contributions, including writing code, updating docs, and submitting
useful bug reports, have been made by:

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1.244 python3-babel 2.9.1

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1.245 python3-zipp 3.7.0

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1.247 python3-pytz 2022.1

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1.248 gnu-efi 3.0.14

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*
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/**
 EFI Shell protocol as defined in the UEFI Shell Specification 2.2.

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 This file is based on MdePkg/Include/Protocol/Shell.h from EDK2
 Ported to gnu-efi by Jiaqing Zhao <jiaqing.zhao@intel.com>
**/

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*/
 .text
 .align 4

 .globl _start
_start:
 subq $8, %rsp
 pushq %rcx
 pushq %rdx

0:
 lea ImageBase(%rip), %rdi
 lea _DYNAMIC(%rip), %rsi

 popq
 %rcx
 popq %rdx
 pushq %rcx
 pushq %rdx
 call _relocate

 popq %rdi
 popq %rsi
```

```
 call efi_main
 addq $8, %rsp

.exit:
  ret

 // hand-craft a dummy .reloc section so EFI knows it's a relocatable executable:

 .data
dummy: .long 0

#define IMAGE_REL_ABSOLUTE 0
 .section .reloc, "a"
label1:
 .long dummy-label1    // Page RVA
 .long 12     // Block Size (2*4+2*2), must be aligned by 32 Bits
 .word (IMAGE_REL_ABSOLUTE<<12) +  0  // reloc for dummy
 .word (IMAGE_REL_ABSOLUTE<<12) +  0  // reloc for dummy
```

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*/
 .text
 .arm
 .globl setjmp
 .type setjmp, %function
setjmp:
 mov r3, r13
 stmia r0, {r3-r12,r14}
 eor r0, r0, r0
 bx lr

 .globl longjmp
 .type longjmp, %function
longjmp:
 ldmia r0, {r3-r12,r14}
```

Found in path(s):
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/lib/arm/setjmp.S
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/* reloc_ia64.S - position independent IA-64 ELF shared object relocator
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*/

/*
* This is written in assembly because the entire code needs to be position
* independent. Note that the compiler does not generate code that's position
* independent by itself because it relies
 on the global offset table being
* relocated.
*/

```
 .text
 .psr abi64
 .psr lsb
 .lsb

/*
* This constant determines how many R_IA64_FPTR64LSB relocations we
* can deal with.  If you get EFI_BUFFER_TOO_SMALL errors, you may
* need to increase this number.
*/
#define MAX_FUNCTION_DESCRIPTORS 750

#define ST_VALUE_OFF 8  /* offset of st_value in elf sym */

#define EFI_SUCCESS  0
#define EFI_LOAD_ERROR  1
#define EFI_BUFFER_TOO_SMALL 5

#define DT_NULL  0  /* Marks end of dynamic section */
#define DT_RELA  7  /* Address of Rela relocs */
#define DT_RELASZ 8  /* Total size of Rela relocs */
#define DT_RELAENT 9  /* Size of one Rela reloc */
#define DT_SYMTAB 6  /* Address of symbol table */
#define DT_SYMENT 11  /* Size of one symbol table entry */

#define R_IA64_NONE  0
#define R_IA64_REL64MSB  0x6e
#define R_IA64_REL64LSB  0x6f
#define R_IA64_DIR64MSB  0x26
#define R_IA64_DIR64LSB  0x27
#define R_IA64_FPTR64MSB 0x46
#define R_IA64_FPTR64LSB 0x47

#define ldbase in0 /* load address
 (address of .text) */
#define dyn in1 /* address of _DYNAMIC */

#define d_tag r16
#define d_val r17
#define rela r18
#define relasz r19
#define relaent r20
#define addr r21
#define r_info r22
#define r_offset r23
#define r_addend r24
#define r_type r25
#define r_sym r25 /* alias of r_type ! */
```

```
#define fptr r26
#define fptr_limit r27
#define symtab f8
#define syment f9
#define ftmp f10

#define target r16
#define val r17

#define NLOC 0

#define Pnull  p6
#define Prela  p7
#define Prelasz  p8
#define Prelaent p9
#define Psymtab  p10
#define Psyment  p11

#define Pnone  p6
#define Prel  p7
#define Pfptr  p8

#define Pmore  p6

#define Poom  p6 /* out-of-memory */

 .global _relocate
 .proc _relocate
_relocate:
 alloc r2=ar.pfs,2,0,0,0
 movl fptr = @gprel(fptr_mem_base)
 ;;
 add fptr = fptr, gp
 movl fptr_limit = @gprel(fptr_mem_limit)
 ;;
 add fptr_limit = fptr_limit, gp

search_dynamic:
 ld8 d_tag = [dyn],8
 ;;
 ld8 d_val = [dyn],8
 cmp.eq Pnull,p0 = DT_NULL,d_tag
(Pnull) br.cond.sptk.few
 apply_relocs
 cmp.eq Prela,p0 = DT_RELA,d_tag
 cmp.eq Prelasz,p0 = DT_RELASZ,d_tag
 cmp.eq Psymtab,p0 = DT_SYMTAB,d_tag
 cmp.eq Psyment,p0 = DT_SYMENT,d_tag
```

```
 cmp.eq Prelaent,p0 = DT_RELAENT,d_tag
 ;;
(Prela) add rela = d_val, ldbase
(Prelasz) mov relasz = d_val
(Prelaent) mov relaent = d_val
(Psymtab) add val = d_val, ldbase
 ;;
(Psyment) setf.sig syment = d_val
 ;;
(Psymtab) setf.sig symtab = val
 br.sptk.few search_dynamic

apply_loop:
 ld8 r_offset = [rela]
 add addr = 8,rela
 sub relasz = relasz,relaent
 ;;

 ld8 r_info = [addr],8
 ;;
 ld8 r_addend = [addr]
 add target = ldbase, r_offset

 add rela = rela,relaent
 extr.u r_type = r_info, 0, 32
 ;;
 cmp.eq Pnone,p0 = R_IA64_NONE,r_type
 cmp.eq Prel,p0 = R_IA64_REL64LSB,r_type
 cmp.eq Pfptr,p0 = R_IA64_FPTR64LSB,r_type
(Prel) br.cond.sptk.few apply_REL64
 ;;
 cmp.eq Prel,p0 = R_IA64_DIR64LSB,r_type // treat DIR64 just like REL64

(Pnone) br.cond.sptk.few apply_relocs
(Prel) br.cond.sptk.few apply_REL64
(Pfptr) br.cond.sptk.few
 apply_FPTR64

 mov r8 = EFI_LOAD_ERROR
 br.ret.sptk.few rp

apply_relocs:
 cmp.ltu Pmore,p0=0,relasz
(Pmore) br.cond.sptk.few apply_loop

 mov r8 = EFI_SUCCESS
 br.ret.sptk.few rp
```

```
apply_REL64:
 ld8 val = [target]
 ;;
 add val = val,ldbase
 ;;
 st8 [target] = val
 br.cond.sptk.few apply_relocs

 // FPTR relocs are a bit more interesting: we need to lookup
 // the symbol's value in symtab, allocate 16 bytes of memory,
 // store the value in [target] in the first and the gp in the
 // second dword.
apply_FPTR64:
 st8 [target] = fptr
 extr.u r_sym = r_info,32,32
 add target = 8,fptr
 ;;

 setf.sig ftmp = r_sym
 mov r8=EFI_BUFFER_TOO_SMALL
 ;;
 cmp.geu Poom,p0 = fptr,fptr_limit

 xma.lu ftmp = ftmp,syment,symtab
(Poom) br.ret.sptk.few rp
 ;;
 getf.sig addr = ftmp
 st8 [target] = gp
 ;;
 add addr = ST_VALUE_OFF, addr
 ;;
 ld8 val = [addr]
 ;;
 add val = val,ldbase
 ;;
 st8 [fptr] = val,16
 br.cond.sptk.few apply_relocs

 .endp _relocate

 .data
 .align 16
fptr_mem_base:
 .space  MAX_FUNCTION_DESCRIPTORS*16
fptr_mem_limit:
```

Found

in path(s):
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/gnuefi/reloc_ia64.S
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#

%.efi: %.so
 $(OBJCOPY) -j .text -j .sdata -j .data -j .dynamic -j .dynsym -j .rel \
     -j .rela -j .rel.* -j .rela.* -j .rel* -j .rela* \
     -j .reloc $(FORMAT) $*.so $@

%.efi.debug:
 %.so
 $(OBJCOPY) -j .debug_info -j .debug_abbrev -j .debug_aranges \
  -j .debug_line -j .debug_str -j .debug_ranges \
  -j .note.gnu.build-id \
  $(FORMAT) $*.so $@

%.so: %.o
 $(LD) $(LDFLAGS) $^ -o $@ $(LOADLIBES)
```

```
%.o: %.c
 $(CC) $(INCDIR) $(CFLAGS) $(CPPFLAGS) -c $< -o $@

%.s: %.c
 $(CC) $(INCDIR) $(CFLAGS) $(CPPFLAGS) -S $< -o $@

%.i: %.c
 $(CC) $(INCDIR) $(CFLAGS) $(CPPFLAGS) -E $< -o $@

%.o: %.S
 $(CC) $(INCDIR) $(CFLAGS) $(CPPFLAGS) -c $< -o $@

%.s: %.S
 $(CC) $(INCDIR) $(CFLAGS) $(CPPFLAGS) -E $< -o $@
```

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```
/*
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*/
```

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```
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```

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* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/lib/arm/math.c
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/lib/aarch64/initplat.c
*
/gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/lib/mips64el/initplat.c
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/lib/mips64el/math.c
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/lib/arm/initplat.c
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* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/lib/Makefile.orig
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/gnuefi/Makefile
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```
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```

```
TOPDIR := $(shell if [ "$$PWD" != "" ]; then echo $$PWD; else pwd; fi)

#
# Variables below overridable from command-line:
#   make VARNAME=value
 ...
#

#
# Where to install the package. GNU-EFI will create and access
# lib and include under the root
#
INSTALLROOT  := /
PREFIX       := /usr/local
LIBDIR       := $(PREFIX)/lib
INSTALL      := install

# Compilation tools
HOSTCC       := $(prefix)gcc
CC           := $(prefix)$(CROSS_COMPILE)gcc
AS           := $(prefix)$(CROSS_COMPILE)as
LD           := $(prefix)$(CROSS_COMPILE)ld
AR           := $(prefix)$(CROSS_COMPILE)ar
RANLIB       := $(prefix)$(CROSS_COMPILE)ranlib
OBJCOPY      := $(prefix)$(CROSS_COMPILE)objcopy


# Host/target identification
OS           := $(shell uname -s)
HOSTARCH     ?= $(shell $(HOSTCC) -dumpmachine | cut -f1 -d- | sed -e s,i[3456789]86,ia32, -e
's,armv[67].*,arm,' )
ARCH         ?= $(shell $(HOSTCC) -dumpmachine | cut -f1 -d- | sed -e s,i[3456789]86,ia32, -e 's,armv[67].*,arm,' )

# Get ARCH from the compiler if cross compiling
ifneq ($(CROSS_COMPILE),)
 override ARCH := $(shell $(CC) -dumpmachine | cut -f1 -d-| sed -e s,i[3456789]86,ia32, -e 's,armv[67].*,arm,'
 )
endif

# FreeBSD (and possibly others) reports amd64 instead of x86_64
ifeq ($(ARCH),amd64)
 override ARCH := x86_64
endif

#
# Where to build the package
#
OBJDIR       := $(TOPDIR)/$(ARCH)
```

```
#
# Variables below derived from variables above
#

# Arch-specific compilation flags
CPPFLAGS += -DCONFIG_$(ARCH)

CFLAGS += -Wno-error=pragmas

ifeq ($(ARCH),ia64)
 CFLAGS += -mfixed-range=f32-f127
endif

ifeq ($(ARCH),ia32)
 CFLAGS += -mno-mmx -mno-sse
 ifeq ($(HOSTARCH),x86_64)
   ARCH3264 = -m32
 endif
endif

ifeq ($(ARCH),x86_64)
 GCCVERSION   := $(shell $(CC) -dumpversion | cut -f1 -d.)
 GCCMINOR     := $(shell $(CC) -dumpversion | cut -f2 -d.)
 USING_CLANG  := $(shell $(CC) -v 2>&1 | grep -q 'clang version' && echo clang)

 # Rely on GCC MS ABI support?
 GCCNEWENOUGH := $(shell ( [ $(GCCVERSION) -gt "4" ]          \
                     || ( [ $(GCCVERSION) -eq "4" ]      \
                         && [ $(GCCMINOR) -ge "7" ] ) ) \

             && echo 1)
 ifeq ($(GCCNEWENOUGH),1)
   CPPFLAGS += -DGNU_EFI_USE_MS_ABI -maccumulate-outgoing-args --std=c11
 else ifeq ($(USING_CLANG),clang)
   CPPFLAGS += -DGNU_EFI_USE_MS_ABI --std=c11
 endif

 CFLAGS += -mno-red-zone
 ifeq ($(HOSTARCH),ia32)
   ARCH3264 = -m64
 endif
endif

ifneq (,$(filter $(ARCH),ia32 x86_64))
 # Disable AVX, if the compiler supports that.
 CC_CAN_DISABLE_AVX=$(shell $(CC) -Werror -c -o /dev/null -xc -mno-avx - </dev/null >/dev/null 2>&1 &&
echo 1)
```

```
 ifeq ($(CC_CAN_DISABLE_AVX), 1)
   CFLAGS += -mno-avx
 endif
endif

ifeq ($(ARCH),mips64el)
 CFLAGS += -march=mips64r2
 ARCH3264 = -mabi=64
endif

#
# Set HAVE_EFI_OBJCOPY if objcopy understands --target efi-[app|bsdrv|rtdrv],
# otherwise we need to compose the PE/COFF header using the assembler
#
ifneq ($(ARCH),aarch64)
ifneq ($(ARCH),arm)
ifneq ($(ARCH),mips64el)
ifneq ($(ARCH),riscv64)
export HAVE_EFI_OBJCOPY=y
endif
endif
endif
endif

ifneq ($(ARCH),arm)
export LIBGCC=$(shell $(CC)
 $(ARCH3264) -print-libgcc-file-name)
endif

ifeq ($(ARCH),arm)
CFLAGS += -marm
endif

# Generic compilation flags
INCDIR  += -I$(SRCDIR) -I$(TOPDIR)/inc -I$(TOPDIR)/inc/$(ARCH) \
        -I$(TOPDIR)/inc/protocol

# Only enable -fpic for non MinGW compilers (unneeded on MinGW)
GCCMACHINE := $(shell $(CC) -dumpmachine)
ifneq (mingw32,$(findstring mingw32, $(GCCMACHINE)))
 CFLAGS += -fpic
endif

ifeq (FreeBSD, $(findstring FreeBSD, $(OS)))
CFLAGS  += $(ARCH3264) -g -O2 -Wall -Wextra -Werror \
        -fshort-wchar -fno-strict-aliasing \
        -ffreestanding -fno-stack-protector
else
```

```
CFLAGS  += $(ARCH3264) -g -O2 -Wall -Wextra -Werror \
        -fshort-wchar -fno-strict-aliasing \
    -ffreestanding -fno-stack-protector -fno-stack-check \
        -fno-stack-check \
        $(if $(findstring gcc,$(CC)),-fno-merge-all-constants,)
endif

ARFLAGS := rDv
ASFLAGS += $(ARCH3264)
LDFLAGS += -nostdlib --warn-common --no-undefined --fatal-warnings \
    --build-id=sha1
```

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* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/Make.defaults
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* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/gnuefi/reloc_mips64el.c
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```
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```

Found in path(s):
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/lib/ia32/setjmp.S
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/lib/aarch64/setjmp.S
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/lib/mips64el/setjmp.S
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```
/*
* crt0-efi-mips64el.S - PE/COFF header for MIPS64 EFI applications
*
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* GNU General Public License as published by the Free Software Foundation;
* either version 2 of the License, or (at your option) any later version.
*/

 .section .text.head

 /*
  * Magic "MZ" signature for PE/COFF
  */
 .globl ImageBase
```

```
ImageBase:
 .ascii "MZ"
 .skip 58    //
 'MZ' + pad + offset == 64
 .long pe_header - ImageBase  // Offset to the PE header.
pe_header:
 .ascii "PE"
 .short  0
coff_header:
 .short 0x166    // MIPS little endian
 .short 2    // nr_sections
 .long 0     // TimeDateStamp
 .long 0    // PointerToSymbolTable
 .long 0    // NumberOfSymbols
 .short section_table - optional_header // SizeOfOptionalHeader
 .short 0x206    // Characteristics.
     // IMAGE_FILE_DEBUG_STRIPPED |
     // IMAGE_FILE_EXECUTABLE_IMAGE |
     // IMAGE_FILE_LINE_NUMS_STRIPPED
optional_header:
 .short 0x20b    // PE32+ format
 .byte 0x02    // MajorLinkerVersion
 .byte 0x14    // MinorLinkerVersion
 .long _edata - _start   // SizeOfCode
 .long 0    // SizeOfInitializedData
 .long 0    // SizeOfUninitializedData
 .long _start - ImageBase  // AddressOfEntryPoint
 .long _start - ImageBase  // BaseOfCode

extra_header_fields:
 .quad 0    // ImageBase
 .long 0x20    // SectionAlignment
 .long 0x8    // FileAlignment
 .short 0    //
 MajorOperatingSystemVersion
 .short 0    // MinorOperatingSystemVersion
 .short 0    // MajorImageVersion
 .short 0    // MinorImageVersion
 .short 0    // MajorSubsystemVersion
 .short 0    // MinorSubsystemVersion
 .long 0    // Win32VersionValue

 .long _edata - ImageBase  // SizeOfImage

 // Everything before the kernel image is considered part of the header
 .long _start - ImageBase  // SizeOfHeaders
 .long 0    // CheckSum
 .short EFI_SUBSYSTEM   // Subsystem
```

```
 .short 0    // DllCharacteristics
 .quad 0    // SizeOfStackReserve
 .quad 0    // SizeOfStackCommit
 .quad 0    // SizeOfHeapReserve
 .quad 0    // SizeOfHeapCommit
 .long 0    // LoaderFlags
 .long 0x6    // NumberOfRvaAndSizes

 .quad 0    // ExportTable
 .quad 0    // ImportTable
 .quad 0    // ResourceTable
 .quad 0    // ExceptionTable
 .quad 0    // CertificationTable
 .quad 0    // BaseRelocationTable

 // Section table
section_table:

 /*
  * The EFI application loader requires a relocation section

 * because EFI applications must be relocatable.  This is a
  * dummy section as far as we are concerned.
  */
 .ascii ".reloc"
 .byte 0
 .byte 0   // end of 0 padding of section name
 .long 0
 .long 0
 .long 0   // SizeOfRawData
 .long 0   // PointerToRawData
 .long 0   // PointerToRelocations
 .long 0   // PointerToLineNumbers
 .short 0   // NumberOfRelocations
 .short 0   // NumberOfLineNumbers
 .long 0x42100040  // Characteristics (section flags)


 .ascii ".text"
 .byte 0
 .byte 0
 .byte 0          // end of 0 padding of section name
 .long _edata - _start  // VirtualSize
 .long _start - ImageBase // VirtualAddress
 .long _edata - _start  // SizeOfRawData
 .long _start - ImageBase // PointerToRawData

 .long 0  // PointerToRelocations (0 for executables)
```

```
.long 0  // PointerToLineNumbers (0 for executables)
.short 0  // NumberOfRelocations  (0 for executables)
.short 0  // NumberOfLineNumbers  (0 for executables)
.long 0xe0500020 // Characteristics (section flags)

.set  push
.set  noreorder
.align  4

.globl _start
.ent _start
.type _start,
@function
_start:
daddiu  $sp, -32
sd  $ra, ($sp)

// Get pc & gp
.align  3
bal  1f
sd  $gp, 8($sp)
_pc:
.dword  _gp
.dword  _DYNAMIC
.dword  _relocate
1:
// pc in ra
ld  $gp, ($ra)
dli  $t0, _pc
dsubu  $gp, $t0
daddu  $gp, $ra

sd  $a0, 16($sp)
sd  $a1, 24($sp)

// a2: ImageHandle
move  $a2, $a0
// a3: SystemTable
move  $a3, $a1
// a0: ImageBase
dli  $t1, ImageBase - _pc
daddu  $a0, $ra, $t1
// a1: DynamicSection
ld  $t1, 8($ra)
dsubu  $t1, $t0
daddu  $a1, $ra, $t1
// call _relocate
ld  $t1, 16($ra)
```

```
 dsubu  $t1, $t0
 daddu  $t9, $ra, $t1
 jalr  $t9
 nop
 bnez  $v0, 1b
 nop

 // a0: ImageHandle
 ld  $a0, 16($sp)
 // call efi_main
 dla  $t9, efi_main
 jalr  $t9
 // a1: SystemTable
 ld  $a1, 24($sp)

1:
 ld  $gp, 8($sp)
 ld  $ra, ($sp)
 jr  $ra
 daddiu  $sp, 32
 .end  _start

 .set  pop
```

Found in path(s):
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/gnuefi/crt0-efi-mips64el.S
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```
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available
* under the terms and conditions of the BSD License which accompanies
this
* distribution.  The full text of the license may be found at
* http://opensource.org/licenses/bsd-license.php.
*
* THE PROGRAM IS DISTRIBUTED UNDER THE BSD LICENSE ON AN "AS IS"
BASIS,
* WITHOUT WARRANTIES OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESS OR
* IMPLIED.
*/
 .text
 .globl setjmp
 .type setjmp, @function
setjmp:
 alloc loc0 = ar.pfs, 1, 2, 1, 0
 ;;
```

```
mov r14 = ar.unat
mov r15 = ar.bsp
add r10 = 0x10*20, in0
;;
stf.spill.nta [in0] = f2, 0x10
st8.spill.nta [r10] = r4, 8
mov  r21 = b1
;;
stf.spill.nta [in0] = f3, 0x10
st8.spill.nta [r10] = r5, 8
mov  r22 = b2
;;
stf.spill.nta [in0] = f4, 0x10
st8.spill.nta [r10] = r6, 8
mov  r23 = b3
;;
stf.spill.nta [in0]
= f5, 0x10
st8.spill.nta [r10] = r7, 8
mov  r24 = b4
;;
stf.spill.nta [in0] = f16, 0x10
st8.spill.nta [r10] = sp, 8
mov  r25 = b5
;;
stf.spill.nta [in0] = f17, 0x10
st8.nta  [r10] = loc1, 8
mov  r16 = pr
;;
stf.spill.nta [in0] = f18, 0x10
st8.nta  [r10] = r21, 8
mov  r17 = ar.lc
;;
stf.spill.nta [in0] = f19, 0x10
st8.nta  [r10] = r22, 8
;;
stf.spill.nta [in0] = f20, 0x10
st8.nta  [r10] = r23, 8
;;
stf.spill.nta [in0] = f21, 0x10
st8.nta  [r10] = r24, 8
;;
stf.spill.nta [in0] = f22, 0x10
st8.nta  [r10] = r25, 8
;;
stf.spill.nta [in0] = f23, 0x10
mov  r18 = ar.unat
;;
```

```
 stf.spill.nta [in0] = f24, 0x10
 st8.nta  [r10] = r14, 8
 ;;
 stf.spill.nta [in0] = f25, 0x10
 st8.nta  [r10] = r18, 8
 ;;
 stf.spill.nta [in0] = f26, 0x10
 st8.nta  [r10] = loc0, 8
 ;;
 stf.spill.nta [in0] = f27, 0x10
 st8.nta  [r10] = r15, 8
 mov  r8 = 0
 ;;
 stf.spill.nta [in0] = f28, 0x10
 mov  r19 = ar.fpsr
 ;;
 stf.spill.nta [in0] = f29, 0x10
 st8.nta  [r10] = r16, 8
 mov  ar.pfs
 = loc0
 ;;
 stf.spill.nta [in0] = f30, 0x10
 st8.nta  [r10] = r17, 8
 mov  b0 = loc1
 ;;
 stf.spill.nta [in0] = f31, 0x10
 st8.nta  [r10] = r19
 ;;
 mov  ar.unat = r14
 br.ret.sptk b0
 ;;

 .globl longjmp
 .type longjmp, @function
 .regstk 2, 0, 0, 0
longjmp:
 add  r10 = 0x10*20 + 8*14, in0
 movl  r2  = ~((((1<<14) - 1) << 16) | 3)
 ;;
 ld8.nt1  r14 = [r10], -8*2
 mov  r15 = ar.bspstore
 ;;
 ld8.nt1  r17 = [r10], -8
 mov  r16 = ar.rsc
 cmp.leu  p6  = r14, r15
 ;;
 ld8.nt1  r18 = [r10], -8
 ld8.nt1  r25 = [r10], -8
```

```
 and  r2  = r16, r2
 ;;
 ldf.fill.nt1 f2  = [in0], 0x10
 ld8.nt1  r24 = [r10], -8
 mov  b5  = r25
 ;;
 mov  ar.rsc = r2
 ld8.nt1  r23 = [r10], -8
 mov  b4 = r24
 ;;
 ldf.fill.nt1 f3 = [in0], 0x10
 mov  ar.unat = r17
(p6) br.spnt.many _skip_flushrs
 ;;
 flushrs
 mov  r15 = ar.bsp
 ;;
_skip_flushrs:
 mov  r31 = ar.rnat
 loadrs
 ;;
 ldf.fill.nt1 f4  = [in0], 0x10
 ld8.nt1  r22 = [r10], -8
 dep  r2  = -1, r14, 3, 6
 ;;
 ldf.fill.nt1 f5  = [in0], 0x10
 ld8.nt1  r21 = [r10],
 -8
 cmp.ltu  p6  = r2, r15
 ;;
 ld8.nt1  r20 = [r10], -0x10
(p6) ld8.nta  r31 = [r2]
 mov  b3  = r23
 ;;
 ldf.fill.nt1 f16 = [in0], 0x10
 ld8.fill.nt1 r7  = [r10], -8
 mov  b2  = r22
 ;;
 ldf.fill.nt1 f17 = [in0], 0x10
 ld8.fill.nt1 r6  = [r10], -8
 mov  b1  = r21
 ;;
 ldf.fill.nt1 f18 = [in0], 0x10
 ld8.fill.nt1 r5  = [r10], -8
 mov  b0  = r20
 ;;
 ldf.fill.nt1 f19 = [in0], 0x10
 ld8.fill.nt1 r4  = [r10], 8*13
```

```
;;
ldf.fill.nt1 f20 = [in0], 0x10
ld8.nt1  r19 = [r10], 0x10
;;
ldf.fill.nt1 f21 = [in0], 0x10
ld8.nt1  r26 = [r10], 8
mov  ar.pfs = r19
;;
ldf.fill.nt1 f22 = [in0], 0x10
ld8.nt1  r27 = [r10], 8
mov  pr  = r26, -1
;;
ldf.fill.nt1 f23 = [in0], 0x10
ld8.nt1  r28 = [r10], -17*8 - 0x10
mov  ar.lc = r27
;;
ldf.fill.nt1 f24 = [in0], 0x10
ldf.fill.nt1 f25 = [in0], 0x10
mov  r8  = in1
;;
ldf.fill.nt1 f26 = [in0], 0x10
ldf.fill.nt1 f31 = [r10], -0x10
;;
ldf.fill.nt1 f27 = [in0], 0x10
ldf.fill.nt1 f30 = [r10], -0x10
;;
ldf.fill.nt1 f28 = [in0]
ldf.fill.nt1 f29
= [r10], 0x10*3 + 8*4
;;
ld8.fill.nt1 sp  = [r10]
mov  ar.unat = r18
;;
mov  ar.bspstore = r14
mov  ar.rnat = r31
;;
invala
mov  ar.rsc = r16
br.ret.sptk b0
```

Found in path(s):
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/lib/ia64/setjmp.S
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```
/** @file
 SHELL_INTERFACE_PROTOCOL from EDK shell (no spec).

 Shell Interface - additional information (over image_info) provided
```

to an application started by the shell.

ConIo provides a file-style interface to the console.

The shell interface's and data (including ConIo) are only valid during
the applications Entry Point. Once the application returns from it's
entry point the data is freed by the invoking shell.

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**/

Found
in path(s):
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/inc/efishellintf.h
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/*
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*/

Found in path(s):
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/inc/aarch64/efibind.h
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/inc/riscv64/efibind.h
* /gnu-efi-3-0-14-tar-bz2/gnu-efi-3.0.14/inc/arm/efibind.h
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Building EFI Applications Using the GNU Toolchain

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23 September 1999

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Last update: 04/09/2007

* Introduction

This document has two parts: the first part describes how to develop
EFI applications for IA-64,x86 and x86_64 using the GNU toolchain and the EFI
development environment contained in this directory. The second part
describes some of the more subtle aspects of how this development
environment works.

* Part 1: Developing EFI Applications

** Prerequisites:

To develop x86 and x86_64 EFI applications, the following tools are needed:

- gcc-3.0 or newer (gcc 2.7.2 is NOT sufficient!)
  As of gnu-efi-3.0b, the Redhat 8.0 toolchain is known to work,
  but the Redhat 9.0 toolchain
is not currently supported.

- A version of "objcopy" that supports EFI applications. To
  check if your version includes EFI support, issue the
  command:

  objcopy --help

  Verify that the line "supported targets" contains the string
  "efi-app-ia32" and "efi-app-x86_64" and that the "-j" option
  accepts wildcards. The binutils release binutils-2.24
  supports Intel64 EFI and accepts wildcard section names.

- For debugging purposes, it's useful to have a version of
  "objdump" that supports EFI applications as well. This

allows inspect and disassemble EFI binaries.

To develop IA-64 EFI applications, the following tools are needed:

- A version of gcc newer than July 30th 1999 (older versions had problems with generating position independent code). As of gnu-efi-3.0b, gcc-3.1 is known to work well.

- A version of "objcopy" that supports EFI applications. To check if your version includes EFI support, issue the command:

objcopy --help

Verify that the line "supported targets" contains the string "efi-app-ia64" and that the "-j" option accepts wildcards.

- For debugging purposes, it's useful to have a version of "objdump" that supports EFI applications as well. This allows inspect and disassemble EFI binaries.

** Directory Structure

This EFI development environment contains the following subdirectories:

inc: This directory contains the EFI-related include files. The files are taken from Intel's EFI source distribution, except that various fixes were applied to make it compile with the GNU toolchain.

lib: This directory contains the source code for Intel's EFI library. Again, the files are taken from Intel's EFI source distribution, with changes to make them compile with the GNU toolchain.

gnuefi: This directory contains the glue necessary to convert ELF64 binaries to EFI binaries. Various runtime code bits, such as a self-relocator are included as well. This code has been contributed by the Hewlett-Packard Company and is distributed under the GNU GPL.

apps: This directory contains a few simple EFI test apps.

** Setup

It is necessary to edit the Makefile in the directory containing this
README file before EFI applications can be built. Specifically, you
should verify that macros CC, AS, LD, AR, RANLIB, and OBJCOPY point to
the appropriate compiler, assembler, linker, ar, and ranlib binaries,
respectively.

If you're working in a cross-development environment, be sure to set
macro ARCH to the desired target architecture ("ia32" for x86, "x86_64" for
x86_64 and "ia64" for IA-64). For convenience, this can also be done from
the make command line (e.g., "make ARCH=ia64").

** Building

To build the sample EFI applications provided in subdirectory "apps",
simply invoke "make" in the toplevel directory (the directory
containing this README file). This should build lib/libefi.a and
gnuefi/libgnuefi.a first and then all the EFI applications such as a
apps/t6.efi.

** Running

Just
 copy the EFI application (e.g., apps/t6.efi) to the EFI
filesystem, boot EFI, and then select "Invoke EFI application" to run
the application you want to test. Alternatively, you can invoke the
Intel-provided "nshell" application and then invoke your test binary
via the command line interface that "nshell" provides.

** Writing Your Own EFI Application

Suppose you have your own EFI application in a file called
"apps/myefiapp.c". To get this application built by the GNU EFI build
environment, simply add "myefiapp.efi" to macro TARGETS in
apps/Makefile. Once this is done, invoke "make" in the top level
directory. This should result in EFI application apps/myefiapp.efi,
ready for execution.

The GNU EFI build environment allows to write EFI applications as
described in Intel's EFI documentation, except for two differences:

- The EFI application's entry point is always called "efi_main". The
  declaration of this routine is:

   EFI_STATUS efi_main (EFI_HANDLE image,

EFI_SYSTEM_TABLE *systab);

- UNICODE string literals must be written as W2U(L"Sample String")
  instead of just L"Sample String". The W2U() macro is defined in
  <efilib.h>. This header file also declares the function W2UCpy()
  which allows to convert a wide string into a UNICODE string and
  store the result in a programmer-supplied buffer.

- Calls to EFI services should be made via uefi_call_wrapper(). This
  ensures appropriate parameter passing for the architecture.

* Part 2: Inner Workings

WARNING: This part contains all the gory detail of how the GNU EFI
toolchain works. Normal users do not have to worry about such
details. Reading this part incurs a definite risk of inducing severe
headaches or other maladies.

The basic idea behind the GNU EFI build environment is to use the GNU
toolchain to build a normal ELF binary that, at the end, is converted
to an EFI binary. EFI binaries are really just PE32+ binaries. PE
stands for "Portable Executable" and is the object
file format
Microsoft is using on its Windows platforms. PE is basically the COFF
object file format with an MS-DOS2.0 compatible header slapped on in
front of it. The "32" in PE32+ stands for 32 bits, meaning that PE32
is a 32-bit object file format. The plus in "PE32+" indicates that
this format has been hacked to allow loading a 4GB binary anywhere in
a 64-bit address space (unlike ELF64, however, this is not a full
64-bit object file format because the entire binary cannot span more
than 4GB of address space). EFI binaries are plain PE32+ binaries
except that the "subsystem id" differs from normal Windows binaries.
There are two flavors of EFI binaries: "applications" and "drivers"
and each has there own subsystem id and are identical otherwise. At
present, the GNU EFI build environment supports the building of EFI
applications only, though it would be trivial to generate drivers, as
the only difference is the subsystem id. For more details on PE32+,
see the spec at

http://msdn.microsoft.com/library/specs/msdn_pecoff.htm.

In
theory, converting a suitable ELF64 binary to PE32+ is easy and
could be accomplished with the "objcopy" utility by specifying option
--target=efi-app-ia32 (x86) or --target=efi-app-ia64 (IA-64). But
life never is that easy, so here some complicating factors:

(1) COFF sections are very different from ELF sections.

ELF binaries distinguish between program headers and sections.
The program headers describe the memory segments that need to
be loaded/initialized, whereas the sections describe what
constitutes those segments. In COFF (and therefore PE32+) no
such distinction is made. Thus, COFF sections need to be page
aligned and have a size that is a multiple of the page size
(4KB for EFI), whereas ELF allows sections at arbitrary
addresses and with arbitrary sizes.

(2) EFI binaries should be relocatable.

Since EFI binaries are executed in physical mode, EFI cannot
guarantee that a given binary can be loaded at
its preferred
address. EFI does _try_ to load a binary at it's preferred
address, but if it can't do so, it will load it at another
address and then relocate the binary using the contents of the
.reloc section.

(3) On IA-64, the EFI entry point needs to point to a function
descriptor, not to the code address of the entry point.

(4) The EFI specification assumes that wide characters use UNICODE
encoding.

ANSI C does not specify the size or encoding that a wide
character uses. These choices are "implementation defined".
On most UNIX systems, the GNU toolchain uses a wchar_t that is
4 bytes in size. The encoding used for such characters is
(mostly) UCS4.

In the following sections, we address how the GNU EFI build
environment addresses each of these issues.

** (1) Accommodating COFF Sections

In order to satisfy the COFF constraint of page-sized and page-aligned
sections, the GNU EFI build environment uses the special linker script
in gnuefi/elf_$(ARCH)_efi.lds
where $(ARCH) is the target architecture
("ia32" for x86, "x86_64" for x86_64 and "ia64" for IA-64).
This script is set up to create only eight COFF section, each page aligned
and page sized.These eight sections are used to group together the much
greater number of sections that are typically present in ELF object files.
Specifically:

.hash (and/or .gnu.hash)
Collects the ELF .hash info (this section _must_ be the first
section in order to build a shared object file; the section is
not actually loaded or used at runtime).

GNU binutils provides a mechanism to generate different hash info
via --hash-style=<sysv|gnu|both> option. In this case output
shared object will contain .hash section, .gnu.hash section or
both. In order to generate correct output linker script preserves
both types of hash sections.

.text
Collects all sections containing executable code.

.data
Collects read-only and read-write data, literal string data,
global offset tables, the uninitialized data
segment (bss) and
various other sections containing data.

The reason read-only data is placed here instead of the in
.text is to make it possible to disassemble the .text section
without getting garbage due to read-only data. Besides, since
EFI binaries execute in physical mode, differences in page
protection do not matter.

The reason the uninitialized data is placed in this section is
that the EFI loader appears to be unable to handle sections
that are allocated but not loaded from the binary.

.dynamic, .dynsym, .rela, .rel, .reloc
These sections contains the dynamic information necessary to
self-relocate the binary (see below).

A couple of more points worth noting about the linker script:

o On IA-64, the global pointer symbol (__gp) needs to be placed such
that the _entire_ EFI binary can be addressed using the signed
22-bit offset that the "addl" instruction affords. Specifically,
this means that __gp should be placed at ImageBase + 0x200000.
Strictly
speaking, only a couple of symbols need to be addressable
in this fashion, so with some care it should be possible to build
binaries much larger than 4MB. To get a list of symbols that need
to be addressable in this fashion, grep the assembly files in
directory gnuefi for the string "@gprel".

o The link address (ImageBase) of the binary is (arbitrarily) set to
  zero. This could be set to something larger to increase the chance
  of EFI being able to load the binary without requiring relocation.
  However, a start address of 0 makes debugging a wee bit easier
  (great for those of us who can add, but not subtract... ;-).

o The relocation related sections (.dynamic, .rel, .rela, .reloc)
  cannot be placed inside .data because some tools in the GNU
  toolchain rely on the existence of these sections.

o Some sections in the ELF binary intentionally get dropped when
  building the EFI binary. Particularly noteworthy are the dynamic
  relocation sections for
 the .plabel and .reloc sections. It would
  be _wrong_ to include these sections in the EFI binary because it
  would result in .reloc and .plabel being relocated twice (once by
  the EFI loader and once by the self-relocator; see below for a
  description of the latter). Specifically, only the sections
  mentioned with the -j option in the final "objcopy" command are
  retained in the EFI binary (see Make.rules).

** (2) Building Relocatable Binaries

ELF binaries are normally linked for a fixed load address and are thus
not relocatable. The only kind of ELF object that is relocatable are
shared objects ("shared libraries"). However, even those objects are
usually not completely position independent and therefore require
runtime relocation by the dynamic loader. For example, IA-64 binaries
normally require relocation of the global offset table.

The approach to building relocatable binaries in the GNU EFI build
environment is to:

(a) build an ELF shared object

(b) link
 it together with a self-relocator that takes care of
    applying the dynamic relocations that may be present in the
    ELF shared object

(c) convert the resulting image to an EFI binary

The self-relocator is of course architecture dependent. The x86
version can be found in gnuefi/reloc_ia32.c, the x86_64 version
can be found in gnuefi/reloc_x86_64.c and the IA-64 version can be
found in gnuefi/reloc_ia64.S.

The self-relocator operates as follows: the startup code invokes it
right after EFI has handed off control to the EFI binary at symbol
"_start". Upon activation, the self-relocator searches the .dynamic
section (whose starting address is given by symbol _DYNAMIC) for the
dynamic relocation information, which can be found in the DT_REL,
DT_RELSZ, and DT_RELENT entries of the dynamic table (DT_RELA,
DT_RELASZ, and DT_RELAENT in the case of rela relocations, as is the
case for IA-64). The dynamic relocation information points to the ELF
relocation table. Once this table is
found, the self-relocator walks
through it, applying each relocation one by one. Since the EFI
binaries are fully resolved shared objects, only a subset of all
possible relocations need to be supported. Specifically, on x86 only
the R_386_RELATIVE relocation is needed. On IA-64, the relocations
R_IA64_DIR64LSB, R_IA64_REL64LSB, and R_IA64_FPTR64LSB are needed.
Note that the R_IA64_FPTR64LSB relocation requires access to the
dynamic symbol table. This is why the .dynsym section is included in
the EFI binary. Another complication is that this relocation requires
memory to hold the function descriptors (aka "procedure labels" or
"plabels"). Each function descriptor uses 16 bytes of memory. The
IA-64 self-relocator currently reserves a static memory area that can
hold 100 of these descriptors. If the self-relocator runs out of
space, it causes the EFI binary to fail with error code 5
(EFI_BUFFER_TOO_SMALL). When this happens, the manifest constant
MAX_FUNCTION_DESCRIPTORS in gnuefi/reloc_ia64.S
should be increased
and the application recompiled. An easy way to count the number of
function descriptors required by an EFI application is to run the
command:

```
objdump --dynamic-reloc example.so | fgrep FPTR64 | wc -l
```

assuming "example" is the name of the desired EFI application.

** (3) Creating the Function Descriptor for the IA-64 EFI Binaries

As mentioned above, the IA-64 PE32+ format assumes that the entry
point of the binary is a function descriptor. A function descriptors
consists of two double words: the first one is the code entry point
and the second is the global pointer that should be loaded before
calling the entry point. Since the ELF toolchain doesn't know how to
generate a function descriptor for the entry point, the startup code
in gnuefi/crt0-efi-ia64.S crafts one manually by with the code:

```
        .section .plabel, "a"
_start_plabel:
        data8   _start
```

data8 __gp

this places the procedure label for entry point _start in
a section
called ".plabel". Now, the only problem is that _start and __gp need
to be relocated _before_ EFI hands control over to the EFI binary.
Fortunately, PE32+ defines a section called ".reloc" that can achieve
this. Thus, in addition to manually crafting the function descriptor,
the startup code also crafts a ".reloc" section that has will cause
the EFI loader to relocate the function descriptor before handing over
control to the EFI binary (again, see the PECOFF spec mentioned above
for details).

A final question may be why .plabel and .reloc need to go in their own
COFF sections. The answer is simply: we need to be able to discard
the relocation entries that are generated for these sections. By
placing them in these sections, the relocations end up in sections
".rela.plabel" and ".rela.reloc" which makes it easy to filter them
out in the filter script. Also, the ".reloc" section needs to be in
its own section so that the objcopy program can recognize it and can
create the
correct directory entries in the PE32+ binary.

** (4) Convenient and Portable Generation of UNICODE String Literals

As of gnu-efi-3.0, we make use (and somewhat abuse) the gcc option
that forces wide characters (WCHAR_T) to use short integers (2 bytes)
instead of integers (4 bytes). This way we match the Unicode character
size. By abuse, we mean that we rely on the fact that the regular ASCII
characters are encoded the same way between (short) wide characters
and Unicode and basically only use the first byte. This allows us
to just use them interchangeably.

The gcc option to force short wide characters is : -fshort-wchar

* * * The End * * *

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1.250 python3-pycryptodome 3.14.1

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~~~~~~

Previously, the copyright and/or licensing status of the Python
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Differences from the previous manual pages release are listed in
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For further information, visit http://www.kernel.org/doc/man-pages/

POSIX PAGES
This package used to contains a copy of the POSIX 1003.1-2003
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THE PAGES
These pages are most of the section 2, 3, 4, 5, 7 man pages
for Linux. A few pages are provided in sections 1 and 8 for commands
that are not documented in other packages, and there are a few pages
in sections 5 and 8 for the timezone utilities.

[The timezone pages were taken from
ftp://elsie.nci.nih.gov/pub/tzcode2001a.tar.gz.]
[The section 3 man pages for the db routines have been taken from
ftp://ftp.terra.net/pub/sleepycat/db.1.86.tar.gz.]
[The rpc man pages were taken from the 4.4BSD-Lite
CDROM.]

Here is a breakdown of what this distribution contains:

Section 1 = user commands (intro, plus a few other pages)
Section 2 = system calls
Section 3 = libc calls
Section 4 = devices (e.g., hd, sd)
Section 5 = file formats and configuration files (e.g., wtmp, /etc/passwd)
Section 6 = games (intro only)
Section 7 = overviews, conventions, macro packages, etc.
Section 8 = system administration (intro, plus a few other pages)

This package contains no, or very few, section 1, 6, and 8 man pages

because these should be distributed with the binaries they are written for. Sometimes Section 9 is used for man pages describing parts of the kernel.

Note that only Section 2 is rather complete, but Section 3 contains several hundred man pages. If you want to write some man pages, or suggest improvements to existing pages, please visit http://www.kernel.org/doc/man-pages/ .

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* /man-pages-5-13-tar-gz/man-pages-5.13/man2/_exit.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/close.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/pthread_attr_setguardsize.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/ulimit.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/pthread_attr_setschedpolicy.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/getline.3
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* /man-pages-5-13-tar-gz/man-pages-5.13/man2/open.2

* /man-pages-5-13-tar-gz/man-pages-5.13/man2/timer_getoverrun.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/rewinddir.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man7/rtld-audit.7
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/tanh.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/getgid.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/atof.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/mprotect.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/memset.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/reboot.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/pthread_attr_setdetachstate.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/getgrent.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/mq_send.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/sched_getcpu.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/sem_close.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/getnetent.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/umask.2
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* /man-pages-5-13-tar-gz/man-pages-5.13/man3/malloc_trim.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/tempnam.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/membarrier.2
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* /man-pages-5-13-tar-gz/man-pages-5.13/man3/pthread_exit.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/putpwent.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/makecontext.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/pthread_join.3
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* /man-pages-5-13-tar-gz/man-pages-5.13/man2/getpagesize.2
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* /man-pages-5-13-tar-gz/man-pages-5.13/man3/mallinfo.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/ecvt_r.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/personality.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/recvmmsg.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/alloc_hugepages.2
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* /man-pages-5-13-tar-gz/man-pages-5.13/man3/pthread_mutexattr_getpshared.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/asinh.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/pthread_attr_setinheritsched.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/gsignal.3
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* /man-pages-5-13-tar-gz/man-pages-5.13/man2/process_madvise.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/semop.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/clock.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/sin.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/fopencookie.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/intro.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/ftok.3

* /man-pages-5-13-tar-gz/man-pages-5.13/man7/pipe.7
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* /man-pages-5-13-tar-gz/man-pages-5.13/man3/logb.3
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* /man-pages-5-13-tar-gz/man-pages-5.13/man2/vmsplice.2
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* /man-pages-5-13-tar-gz/man-pages-5.13/man2/idle.2
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* /man-pages-5-13-tar-gz/man-pages-5.13/man2/unlink.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/pthread_kill.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/bcopy.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/difftime.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/pthread_cleanup_push.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/puts.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/fpurge.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/fpathconf.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/msgget.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/process_vm_readv.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/execve.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/matherr.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/gcvt.3
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* /man-pages-5-13-tar-gz/man-pages-5.13/man3/inet_net_pton.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/sem_post.3
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/man-pages-5-13-tar-gz/man-pages-5.13/man7/time_namespaces.7
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/clock_nanosleep.2
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* /man-pages-5-13-tar-gz/man-pages-5.13/man3/ldexp.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/mq_notify.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/realpath.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/sigpending.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/unlocked_stdio.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/rand.3

* /man-pages-5-13-tar-gz/man-pages-5.13/man3/putenv.3
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* /man-pages-5-13-tar-gz/man-pages-5.13/man2/shmctl.2
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* /man-pages-5-13-tar-gz/man-pages-5.13/man2/getrlimit.2
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* /man-pages-5-13-tar-gz/man-pages-5.13/man7/pkeys.7

* /man-pages-5-13-tar-gz/man-pages-5.13/man3/telldir.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/cosh.3
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* /man-pages-5-13-tar-gz/man-pages-5.13/man2/msync.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man2/ioctl_iflags.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/pthread_create.3
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* /man-pages-5-13-tar-gz/man-pages-5.13/man4/mouse.4
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/timeradd.3
*
 /man-pages-5-13-tar-gz/man-pages-5.13/man3/tmpnam.3
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* /man-pages-5-13-tar-gz/man-pages-5.13/man3/basename.3
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 /man-pages-5-13-tar-gz/man-pages-5.13/man2/chdir.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/pthread_setaffinity_np.3
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.b'\\" %%%LICENSE_END'
.b'\\"'
.b'\\" This document is based on the perf_event.h header file, the'
.b'\\" tools/perf/design.txt file, and a lot of bitter experience.'
.b'\\"'
.b'\\" commit a21b0b354d4ac39be691f51c53562e2c24443d9e'
.b'\\" commit ac9721f3f54b27a16c7e1afb2481e7ee95a70318'
.b'\\" commit e5d1367f17ba6a6fed5fd8b74e4d5720923e0c25'
.b'\\" commit 24f1e32c60c45c89a997c73395b69c8af6f0a84e'
.b'\\" commit 2e80a82a49c4c7eca4e35734380f28298ba5db19'
.b'\\" commit 65074d43fc77bcae32776724b7fa2696923c78e4'
.b'\\" commit e12f03d7031a977356e3d7b75a68c2185ff8d155'
.b'\\" commit 33ea4b24277b06dbc55d7f5772a46f029600255e'
.b'\\" commit cb5d76999029ae7a517cb07dfa732c1b5a934fc2'
.b'\\" this was added much later when PERF_ATTR_SIZE_VER2 happened'
.b'\\" but the actual attr_size had increased in 2.6.33'
.b'\\" commit cb5d76999029ae7a517cb07dfa732c1b5a934fc2'
.b'\\" commit 1659d129ed014b715b0b2120e6fd929bdd33ed03'
.b'\\"
commit 60e2364e60e86e81bc6377f49779779e6120977f'
.b'\\" commit 1a5941312414c71dece6717da9a0fa1303127afa'
.b'\\" commit f287d332ce835f77a4f5077d2c0ef1e3f9ea42d2'
.b'\\" commit 8f62242246351b5a4bc0c1f00c0c7003edea128a'
.b'\\" commit 8f62242246351b5a4bc0c1f00c0c7003edea128a'
.b'\\" commit c37e17497e01fc0f5d2d6feb5723b210b3ab8890'
.b'\\" commit e49a5bd38159dfb1928fd25b173bc9de4bbadb21'
.b'\\" commit f7d7986060b2890fc26db6ab5203efbd33aa2497'
.b'\\" commit f7d7986060b2890fc26db6ab5203efbd33aa2497'
.b'\\" commit fa0097ee690693006ab1aea6c01ad3c851b65c77'
.b'\\" commit 89d6c0b5bdbb1927775584dcf532d98b3efe1477'
.b'\\" commit bce38cd53e5ddba9cb6d708c4ef3d04a4016ec7e'
.b'\\" commit 4018994f3d8785275ef0e7391b75c3462c029e56'
.b'\\" commit c5ebcedb566ef17bda7b02686e0d658a7bb42ee7'
.b'\\" commit c3feedf2aaf9ac8bad6f19f5d21e4ee0b4b87e9c'
.b'\\" commit d6be9ad6c960f43800a6f118932bc8a5a4eadcd1'
.b'\\" commit ff3d527cebc1fa3707c617bfe9e74f53fcfb0955'
.b'\\" commit
fdfbbd07e91f8fe387140776f3fd94605f0c89e5'
.b'\\" commit 60e2364e60e86e81bc6377f49779779e6120977f'
.b'\\" commit fc7ce9c74c3ad232b084d80148654f926d01ece7'
.b'\\" commit 96aaab686505c449e24d76e76507290dcc30e008'
.b'\\" commit 82b897782d10fcc4930c9d4a15b175348fdd2871'
.b'\\" commit ab608344bcbde4f55ec4cd911b686b0ce3eae076'
.b'\\" commit 3af9e859281bda7eb7c20b51879cf43aa788ac2e'
.b'\\" commit c980d1091810df13f21aabbce545fd98f545bbf7'
.b'\\" commit a240f76165e6255384d4bdb8139895fac7988799'
.b'\\" commit a240f76165e6255384d4bdb8139895fac7988799'

.b'\\" commit d077526485d5c9b12fe85d0b2b3b7041e6bc5f91'
.b'\\" commit d077526485d5c9b12fe85d0b2b3b7041e6bc5f91'
.b'\\" commit 13d7a2410fa637f450a29ecb515ac318ee40c741'
.b'\\" This is tricky; was committed during 3.12 development'
.b'\\" but right before release was disabled.'
.b'\\" So while you could select mmap2 starting with 3.12'
.b'\\" it did not work until 3.16'
.b'\\" commit a5a5ba72843dd05f991184d6cb9a4471acce1005'
.b'\\" commit 82b897782d10fcc4930c9d4a15b175348fdd2871'
.b'\\"
commit 34f439278cef7b1177f8ce24f9fc81dfc6221d3b'
.b'\\" commit 45ac1403f564f411c6a383a2448688ba8dd705a4'
.b'\\" commit 9ecda41acb971ebd07c8fb35faf24005c0baea12'
.b'\\" commit e422267322cd319e2695a535e47c5b1feeac45eb'
.b'\\" commit 76193a94522f1d4edf2447a536f3f796ce56343b'
.b'\\" commit 6ee52e2a3fe4ea35520720736e6791df1fb67106'
.b'\\" commit ab43762ef010967e4ccd53627f70a2eecbeafefb'
.b'\\" commit 96aaab686505c449e24d76e76507290dcc30e008'
.b'\\" commit e17d43b93e544f5016c0251d2074c15568d5d963'
.b'\\" commit f506b3dc0ec454a16d40cab9ee5d75435b39dc50'
.b'\\" commit 24f1e32c60c45c89a997c73395b69c8af6f0a84e'
.b'\\" commit 24f1e32c60c45c89a997c73395b69c8af6f0a84e'
.b'\\" commit a7e3ed1e470116c9d12c2f778431a481a6be8ab6'
.b'\\" commit 24f1e32c60c45c89a997c73395b69c8af6f0a84e'
.b'\\" commit a7e3ed1e470116c9d12c2f778431a481a6be8ab6'
.b'\\" commit bce38cd53e5ddba9cb6d708c4ef3d04a4016ec7e'
.b'\\" commit c229bf9dc179d2023e185c0f705bdf68484c1e73'
.b'\\" commit c9fdfa14c3792c0160849c484e83aa57afd80ccc'
.b'\\"
commit bac52139f0b7ab31330e98fd87fc5a2664951050'
.b'\\" commit 135c5612c460f89657c4698fe2ea753f6f667963'
.b'\\" commit 135c5612c460f89657c4698fe2ea753f6f667963'
.b'\\" commit 135c5612c460f89657c4698fe2ea753f6f667963'
.b'\\" commit 2c44b1936bb3b135a3fac8b3493394d42e51cf70'
.b'\\" commit 4018994f3d8785275ef0e7391b75c3462c029e56'
.b'\\" commit c5ebcedb566ef17bda7b02686e0d658a7bb42ee7'
.b'\\" commit 34f439278cef7b1177f8ce24f9fc81dfc6221d3b'
.b'\\" commit 1a5941312414c71dece6717da9a0fa1303127afa'
.b'\\" commit 97c79a38cd454602645f0470ffb444b3b75ce574'
.b'\\" commit c7206205d00ab375839bd6c7ddb247d600693c09'
.b'\\" commit fa7315871046b9a4c48627905691dbde57e51033'
.b'\\" commit fa7315871046b9a4c48627905691dbde57e51033'
.b'\\" commit fa7315871046b9a4c48627905691dbde57e51033'
.b'\\" commit fa7315871046b9a4c48627905691dbde57e51033'
.b'\\" commit fa7315871046b9a4c48627905691dbde57e51033'
.b'\\" commit fa7315871046b9a4c48627905691dbde57e51033'
.b'\\" commit

e8c6deac69629c0cb97c3d3272f8631ef17f8f0f'
.b'\\" commit e8c6deac69629c0cb97c3d3272f8631ef17f8f0f'
.b'\\" commit 45bfb2e50471abbbfd83d40d28c986078b0d24ff'
.b'\\" commit 39447b386c846bbf1c56f6403c5282837486200f'
.b'\\" commit 39447b386c846bbf1c56f6403c5282837486200f'
.b'\\" commit 2fe85427e3bf65d791700d065132772fc26e4d75'
.b'\\" commit 82b897782d10fcc4930c9d4a15b175348fdd2871'
.b'\\" commit 45ac1403f564f411c6a383a2448688ba8dd705a4'
.b'\\" commit 1676b8a077c352085d52578fb4f29350b58b6e74'
.b'\\" commit 930e6fcd2bcce9bcd9d4aa7e755678d33f3fe6f4'
.b'\\" commit 135c5612c460f89657c4698fe2ea753f6f667963'
.b'\\" commit 135c5612c460f89657c4698fe2ea753f6f667963'
.b'\\" commit 71ef3c6b9d4665ee7afbbe4c208a98917dcfc32f'
.b'\\" commit 68db7e98c3a6ebe7284b6cf14906ed7c55f3f7f0'
.b'\\" commit 2023a0d2829e521fe6ad6b9907f3f90bfbf57142'
.b'\\" ec0d7729bbaed4b9d2d3fada693278e13a3d1368'
.b'\\" f38b0dbb491a6987e198aa6b428db8692a6480f8'
.b'\\" commit 45ac1403f564f411c6a383a2448688ba8dd705a4'
.b'\\" commit 45ac1403f564f411c6a383a2448688ba8dd705a4'
.b'\\"
commit e422267322cd319e2695a535e47c5b1feeac45eb'
.b'\\" commit 76193a94522f1d4edf2447a536f3f796ce56343b'
.b'\\" commit 6ee52e2a3fe4ea35520720736e6791df1fb67106'
.b'\\" commit 96aaab686505c449e24d76e76507290dcc30e008'
.b'\\" commit e17d43b93e544f5016c0251d2074c15568d5d963'
.b'\\" See https://lkml.org/lkml/2011/5/24/337'
.b'\\" commit 179033b3e064d2cd3f5f9945e76b0a0f0fbf4883'
.b'\\" commit c7206205d00ab375839bd6c7ddb247d600693c09'
.b'\\" 7911d3f7af14a614617e38245fedf98a724e46a9'
.b'\\" commit 3581fe0ef37ce12ac7a4f74831168352ae848edc'
.b'\\" commit bad7192b842c83e580747ca57104dd51fe08c223'
.b'\\" commit ad0cf3478de8677f720ee06393b3147819568d6a'
.b'\\" commit 6fb2915df7f0747d9044da9dbff5b46dc2e20830'
.b'\\" commit cf4957f17f2a89984915ea808876d9c82225b862'
.b'\\" commit 2541517c32be2531e0da59dfd7efc1ce844644f5'
.b'\\" commit 86e7972f690c1017fd086cdfe53d8524e68c661c'
.b'\\" commit 32ff77e8cc9e66cc4fb38098f64fd54cc8f54573'
.b'\\" commit f371b304f12e31fe30207c41ca7754564e0ea4dc'
.b'\\"'
.b'\\"
default changed in commit 0161028b7c8aebef64194d3d73e43bc3b53b5c66'
.b'\\" Introduced in c5dfd78eb79851e278b7973031b9ca363da87a7e'
.b'\\" commit abe43400579d5de0078c2d3a760e6598e183f871'
.b'\\" commit 0c9d42ed4cee2aa1dfc3a260b741baae8615744f'
.b'\\" a66734297f78707ce39d756b656bfae861d53f62'
.b'\\" 7911d3f7af14a614617e38245fedf98a724e46a9'
.b'\\" commit 641cc938815dfd09f8fa1ec72deb814f0938ac33'
.b'\\" commit 641cc938815dfd09f8fa1ec72deb814f0938ac33'

.b'\\" commit 314d9f63f385096580e9e2a06eaa0745d92fe4ac'
.b'\\" bed5b25ad9c8a2f5d735ef0bc746ec870c01c1b0'
.b'\\" commit aa2bc1ade59003a379ffc485d6da2d92ea3370a6'
.b'\\" 97c79a38cd454602645f0470ffb444b3b75ce574'
.b'\\" commit a4e95fc2cbb31d70a65beffeaf8773f881328c34'
.b'\\" commit 0793a61d4df8daeac6492dbf8d2f3e5713caae5e'
.b'\\" commit cdd6c482c9ff9c55475ee7392ec8f672eddb7be6'
.b'\\" commit ba0a6c9f6fceed11c6a99e8326f0477fe383e6b5'
.b'\\" commit b690081d4d3f6a23541493f1682835c3cd5c54a1'
.b'\\" FIXME
 . cannot find a kernel commit for this one'
.b'\\" commit 45e16a6834b6af098702e5ea6c9a40de42ff77d8'
.b'\\" commit 38b435b16c36b0d863efcf3f07b34a6fac9873fd'
.b'\\" commit 050735b08ca8a016bbace4445fa025b88fee770b'
.b'\\" commit 4ec8363dfc1451f8c8f86825731fe712798ada02'
.b'\\" commit 724b6daa13e100067c30cfc4d1ad06629609dc4e'
.b'\\" commit fa7315871046b9a4c48627905691dbde57e51033'
.b'\\" commit f287d332ce835f77a4f5077d2c0ef1e3f9ea42d2'

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.b'\\" 2007-12-14 mtk Added Reiserfs, XFS, JFS.'
.b'\\"'
.b'\\" commit: 6af9f7bf3c399e0ab1eee048e13572c6d4e15fe9'

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.b'\\" and again on 960413 and 980804 and 981223.'
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.b'\\" Applied correction by Christian Ehrhardt - aeb, 990712'
.b'\\" Modified 2002-04-23 by Michael Kerrisk <mtk.manpages@gmail.com>'
.b'\\"\tAdded
 note on F_SETFL and O_DIRECT'
.b'\\"\tComplete rewrite + expansion of material on file locking'
.b'\\"\tIncorporated description of F_NOTIFY, drawing on'
.b'\\"\t\tStephen Rothwell\\'s notes in Documentation/dnotify.txt.'
.b'\\"\tAdded description of F_SETLEASE and F_GETLEASE'
.b'\\" Corrected and polished, aeb, 020527.'
.b'\\" Modified 2004-03-03 by Michael Kerrisk <mtk.manpages@gmail.com>'
.b'\\"     Modified description of file leases: fixed some errors of detail'
.b'\\"     Replaced the term "lease contestant" by "lease breaker"'
.b'\\" Modified, 27 May 2004, Michael Kerrisk <mtk.manpages@gmail.com>'
.b'\\"     Added notes on capability requirements'
.b'\\" Modified 2004-12-08, added O_NOATIME after note from Martin Pool'
.b'\\" 2004-12-10, mtk, noted F_GETOWN bug after suggestion from aeb.'
.b'\\" 2005-04-08 Jamie Lokier <jamie@shareable.org>, mtk'
.b'\\"\tDescribed behavior of F_SETOWN/F_SETSIG in'
.b'\\"\tmultithreaded processes, and generally cleaned'
.b'\\"\tup the discussion of
 F_SETOWN.'
.b'\\" 2005-05-20, Johannes Nicolai <johannes.nicolai@hpi.uni-potsdam.de>,'
.b'\\"\tmtk: Noted F_SETOWN bug for socket file descriptor in Linux 2.4'
.b'\\"\tand earlier.  Added text on permissions required to send signal.'
.b'\\" 2009-09-30, Michael Kerrisk'
.b'\\"     Note obsolete F_SETOWN behavior with threads.'
.b'\\"     Document F_SETOWN_EX and F_GETOWN_EX'
.b'\\" 2010-06-17, Michael Kerrisk'
.b'\\"\tDocument F_SETPIPE_SZ and F_GETPIPE_SZ.'
.b'\\" 2014-07-08, David Herrmann <dh.herrmann@gmail.com>'
.b'\\"     Document F_ADD_SEALS and F_GET_SEALS'
.b'\\" 2017-06-26, Jens Axboe <axboe@kernel.dk>'
.b'\\"     Document F_{GET,SET}_RW_HINT and F_{GET,SET}_FILE_RW_HINT'
.b'\\"'
.b'\\" or'
.b'\\" .BR creat (2),'
.b'\\" (Additional file descriptors referring to the same file'
.b'\\" may have been obtained by calls to'
.b'\\" .BR open "(2), " dup "(2), " dup2 "(2), or " fcntl ().)'
.b'\\" FIXME . Review progress into POSIX'
.b'\\" http://austingroupbugs.net/view.php?id=768'
```

```
.b'\\"
 commit 57b65325fe34ec4c917bc4e555144b4a94d9e1f7'
.b'\\"'
.b'\\"'
.b'\\" commit ef1820f9be27b6ad158f433ab38002ab8131db4d'
.b'\\"'
.b'\\" The following appears to be rubbish.  It doesn\'t seem to'
.b'\\" be true according to the kernel source, and I can write'
.b'\\" a program that gets a terminal-generated SIGIO even though'
.b'\\" it is not the foreground process group of the terminal.'
.b'\\" -- MTK, 8 Apr 05'
.b'\\"'
.b'\\" If the file descriptor'
.b'\\" .I fd'
.b'\\" refers to a terminal device, then SIGIO'
.b'\\" signals are sent to the foreground process group of the terminal.'
.b'\\" The relevant place in the (2.6) kernel source is the'
.b'\\" \'switch\' in fs/fcntl.c::send_sigio_to_task() -- MTK, Apr 2005'
.b'\\" send_sigurg()/send_sigurg_to_task() bypasses'
.b'\\" kill_fasync()/send_sigio()/send_sigio_to_task()'
.b'\\" to directly call send_group_sig_info()'
.b'\\"\t-- MTK, Apr 2005 (kernel 2.6.11)'
.b'\\"'
.b'\\" The following was true only up until 2.6.11:'
.b'\\"'
.b'\\"
 Additionally, passing a nonzero value to'
.b'\\" .B F_SETSIG'
.b'\\" changes the signal recipient from a whole process to a specific thread'
.b'\\" within a process.'
.b'\\" See the description of'
.b'\\" .B F_SETOWN'
.b'\\" for more details.'
.b'\\" See fs/fcntl.c::send_sigio_to_task() (2.4/2.6) sources -- MTK, Apr 05'
.b'\\" The following became true in kernel 2.6.10:'
.b'\\" See the man-pages-2.09 Changelog for further info.'
.b'\\" The following does seem a poor API-design choice...'
.b'\\"'
.b'\\" One or more other seals are typically used with F_SEAL_WRITE'
.b'\\" because, given a file with the F_SEAL_WRITE seal set, then,'
.b'\\" while it would no longer be possible to (say) write zeros into'
.b'\\" the last 100 bytes of a file, it would still be possible'
.b'\\" to (say) shrink the file by 100 bytes using ftruncate(), and'
.b'\\" then increase the file size by 100 bytes, which would have'
.b'\\" the effect of replacing the last hundred bytes by zeros.'
.b'\\"'
.b'\\"'
.b'\\"
```

```
 .BR _BSD_SOURCE ,'
.b'\\" or'
.b'\\" .PP'
.b'\\" SVr4 documents additional EIO, ENOLINK and EOVERFLOW error conditions.'
.b'\\" FIXME . Once glibc adds support, add a note about FTM requirements'
.b'\\"'
.b'\\"'
.b'\\" e.g., Solaris 8 documents this field in fcntl(2), and Irix 6.5'
.b'\\" documents it in fcntl(5).  mtk, May 2007'
.b'\\" Also, FreeBSD documents it (Apr 2014).'
.b'\\"'
.b'\\" Neil Brown: With NFSv3 the failure mode is the reverse.  If'
.b'\\"     the server loses contact with a client then any lock stays in place'
.b'\\"     indefinitely ("why can\'t I read my mail"... I remember it well).'
.b'\\"'
.b'\\"'
.b'\\" Jeff Layton:'
.b'\\"     Note that this is not a firm timeout. The server runs a job'
.b'\\"     periodically to clean out expired stateful objects, and it\'s likely'
.b'\\"     that there is some time (maybe even up to another whole lease period)'
.b'\\"     between when the timeout expires and the job actually runs. If the'
.b'\\"     client gets a RENEW in there
 within that window, its lease will be'
.b'\\"     renewed and its state preserved.'
.b'\\"'
.b'\\" commit ef1820f9be27b6ad158f433ab38002ab8131db4d'
.b'\\" commit f6de7a39c181dfb8a2c534661a53c73afb3081cd'
.b'\\" FIXME . According to POSIX.1-2001, O_SYNC should also be modifiable'
.b'\\" via fcntl(2), but currently Linux does not permit this'
.b'\\" See http://bugzilla.kernel.org/show_bug.cgi?id=5994'
.b'\\" glibc source: sysdeps/unix/sysv/linux/i386/sysdep.h'
.b'\\" mtk, Dec 04: some limited testing on alpha and ia64 seems to'
.b'\\" indicate that ANY negative PGID value will cause F_GETOWN'
.b'\\" to misinterpret the return as an error. Some other architectures'
.b'\\" seem to have the same range check as i386.'
.b'\\"'
.b'\\"'
.b'\\" http://marc.info/?l=linux-kernel&m=119013491707153&w=2'
.b'\\"'
.b'\\" Reconfirmed by Jeff Layton'
.b'\\"     From: Jeff Layton <jlayton <at> redhat.com>'
.b'\\"     Subject: Re: Status of fcntl() mandatory locking'
.b'\\"     Newsgroups: gmane.linux.file-systems'
.b'\\"
    Date: 2014-04-28 10:07:57 GMT'
.b'\\"     http://thread.gmane.org/gmane.linux.file-systems/84481/focus=84518'
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 /man-pages-5-13-tar-gz/man-pages-5.13/man2/ioctl_tty.2
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/cabs.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/nan.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/putgrent.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/catanh.3

* /man-pages-5-13-tar-gz/man-pages-5.13/man3/isgreater.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man7/complex.7
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/casin.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/gamma.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/malloc_hook.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/fmax.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/fpclassify.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/fdim.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/clog2.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/fma.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/remquo.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/sincos.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/significand.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/creal.3
*
/man-pages-5-13-tar-gz/man-pages-5.13/man3/envz_add.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man1/time.1
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```
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.b'\\" and Copyright (C) 2002-2008,2017 Michael Kerrisk <mtk.manpages@gmail.com>'
.b'\\" with networking additions from Alan Cox (A.Cox@swansea.ac.uk)'
.b'\\" and scsi additions from Michael Neuffer (neuffer@mail.uni-mainz.de)'
.b'\\" and sysctl additions from Andries Brouwer (aeb@cwi.nl)'
.b'\\" and System V IPC (as well as various other) additions from'
.b'\\" Michael Kerrisk <mtk.manpages@gmail.com>'
.b'\\"'
.b'\\" %%%LICENSE_START(GPLv2+_DOC_FULL)'
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 output of any'
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.b'\\" License along with this manual; if not, see'
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.b'\\" %%%LICENSE_END'
.b'\\"'
.b'\\" Modified 1995-05-17 by faith@cs.unc.edu'
.b'\\" Minor changes by aeb and Marty Leisner (leisner@sdsp.mc.xerox.com).'
.b'\\" Modified 1996-04-13, 1996-07-22 by aeb@cwi.nl'
.b'\\" Modified 2001-12-16 by rwhron@earthlink.net'
.b'\\" Modified 2002-07-13 by jbelton@shaw.ca'
.b'\\" Modified 2002-07-22, 2003-05-27, 2004-04-06, 2004-05-25'
.b'\\"    by Michael Kerrisk <mtk.manpages@gmail.com>'
.b'\\" 2004-11-17,
 mtk -- updated notes on /proc/loadavg'
.b'\\" 2004-12-01, mtk, rtsig-max and rtsig-nr went away in 2.6.8'
.b'\\" 2004-12-14, mtk, updated \'statm\', and fixed error in order of list'
.b'\\" 2005-05-12, mtk, updated \'stat\"
.b'\\" 2005-07-13, mtk, added /proc/sys/fs/mqueue/*'
.b'\\" 2005-09-16, mtk, Added /proc/sys/fs/suid_dumpable'
.b'\\" 2005-09-19, mtk, added /proc/zoneinfo'
```

```
.b'\\" 2005-03-01, mtk, moved /proc/sys/fs/mqueue/* material to mq_overview.7.'
.b'\\" 2008-06-05, mtk, Added /proc/[pid]/oom_score, /proc/[pid]/oom_adj,'
.b'\\"     /proc/[pid]/limits, /proc/[pid]/mountinfo, /proc/[pid]/mountstats,'
.b'\\"     and /proc/[pid]/fdinfo/*.'
.b'\\" 2008-06-19, mtk, Documented /proc/[pid]/status.'
.b'\\" 2008-07-15, mtk, added /proc/config.gz'
.b'\\"'
.b'\\" FIXME cross check against Documentation/filesystems/proc.txt'
.b'\\" to see what information could be imported from that file'
.b'\\" into this file.'
.b'\\"'
.b'\\"'
.b'\\" commit 0499680a42141d86417a8fbaa8c8db806bea1201'
.b'\\"
 As an additional bonus, since'
.b'\\" .IR /proc/[pid]/cmdline'
.b'\\" is inaccessible for other users,'
.b'\\" poorly written programs passing sensitive information via'
.b'\\" program arguments are now protected against local eavesdroppers.'
.b'\\" commit 0499680a42141d86417a8fbaa8c8db806bea1201'
.b'\\"'
.b'\\"'
.b'\\" commit 68eb94f16227336a5773b83ecfa8290f1d6b78ce'
.b'\\" https://lwn.net/Articles/28222/'
.b'\\" From:    Stephen Smalley <sds@epoch.ncsc.mil>'
.b'\\" To:\t     LKML and others'
.b'\\" Subject: [RFC][PATCH] Process Attribute API for Security Modules'
.b'\\" Date:    08 Apr 2003 16:17:52 -0400'
.b'\\"'
.b'\\"\thttp://www.nsa.gov/research/_files/selinux/papers/module/x362.shtml'
.b'\\"'
.b'\\" commit 4eb582cf1fbd7b9e5f466e3718a59c957e75254e'
.b'\\" commit b68101a1e8f0263dbc7b8375d2a7c57c6216fb76'
.b'\\" commit d410fa4ef99112386de5f218dd7df7b4fca910b4'
.b'\\" commit 42c3e03ef6b298813557cdb997bd6db619cd65a2'
.b'\\" commit 5091faa449ee0b7d73bc296a93bca9540fc51d0a'
.b'\\"
 Precisely: Linux 2.6.0-test7'
.b'\\" commit b813e931b4c8235bb42e301096ea97dbdee3e8fe (2.6.22)'
.b'\\" commit 398499d5f3613c47f2143b8c54a04efb5d7a6da9 (2.6.32)'
.b'\\" commit 040fa02077de01c7e08fa75be6125e4ca5636011 (3.11)'
.b'\\"'
.b'\\"       "Clears page referenced bits shown in smaps output"'
.b'\\"       write-only, writable only by the owner of the process'
.b'\\" Internally: CLEAR_REFS_ALL'
.b'\\" Internally: CLEAR_REFS_ANON'
.b'\\" Internally: CLEAR_REFS_MAPPED'
.b'\\" Internally: CLEAR_REFS_SOFT_DIRTY'
```

```
.b'\\" Internally: CLEAR_REFS_MM_HIWATER_RSS'
.b'\\" In 2.3.26, this also used to be true if the process was swapped out.'
.b'\\" commit 4614a696bd1c3a9af3a08f0e5874830a85b889d4'
.b'\\" and/proc/[pid]/task/[tid]/cpuset'
.b'\\" The following was still true as at kernel 2.6.13'
.b'\\" The following was still true as at kernel 2.6.13'
.b'\\"The following was still true as at kernel 2.6.13'
.b'\\" The following is not true in my tests (MTK):'
.b'\\" Note that this will not work for'
.b'\\"
 programs that seek on their files, as the files in the fd directory'
.b'\\" are not seekable.'
.b'\\" commit 1117f72ea0217ba0cc19f05adbbd8b9a397f5ab7'
.b'\\" commit 49d063cb353265c3af701bab215ac438ca7df36d'
.b'\\" commit cbac5542d48127b546a23d816380a7926eee1c25'
.b'\\" commit 138d22b58696c506799f8de759804083ff9effae'
.b'\\" commit 138d22b58696c506799f8de759804083ff9effae'
.b'\\" commit af9c4957cf212ad9cf0bee34c95cb11de5426e85'
.b'\\" commit 7c3ab7381e79dfc7db14a67c6f4f3285664e1ec2'
.b'\\" commit 3036e7b490bf7878c6dae952eec5fb87b1106589'
.b'\\" FIXME Describe /proc/[pid]/loginuid'
.b'\\"       Added in 2.6.11; updating requires CAP_AUDIT_CONTROL'
.b'\\"       CONFIG_AUDITSYSCALL'
.b'\\" commit 640708a2cff7f81e246243b0073c66e6ece7e53e'
.b'\\" commit bdb4d100afe9818aebd1d98ced575c5ef143456c'
.b'\\" commit b76437579d1344b612cf1851ae610c636cec7db0 (added)'
.b'\\" commit 65376df582174ffcec9e6471bf5b0dd79ba05e4a (removed)'
.b'\\" This info adapted from Documentation/filesystems/proc.txt'
.b'\\"
 commit 2d4d4864ac08caff5c204a752bd004eed4f08760'
.b'\\" Miklos Szeredi, Nov 2017: The hidden one is the initramfs, I believe'
.b'\\" mtk: In the initial mount namespace, this hidden ID has the value 0'
.b'\\" See commit 6b4e306aa3dc94a0545eb9279475b1ab6209a31f'
.b'\\" See mm/oom_kill.c::badness() in pre 2.6.36 sources'
.b'\\" See mm/oom_kill.c::oom_badness() after 2.6.36'
.b'\\" commit a63d83f427fbce97a6cea0db2e64b0eb8435cd10'
.b'\\" See mm/oom_kill.c::badness() in pre 2.6.36 sources'
.b'\\" See mm/oom_kill.c::oom_badness() after 2.6.36'
.b'\\" commit a63d83f427fbce97a6cea0db2e64b0eb8435cd10'
.b'\\" More precisely, if it has CAP_SYS_ADMIN or (pre 2.6.36) CAP_SYS_RESOURCE'
.b'\\" More precisely, if it has CAP_SYS_RAWIO'
.b'\\" Text taken from 3.7 Documentation/filesystems/proc.txt'
.b'\\" Not quite true; see commit 541c237c0923f567c9c4cabb8a81635baadc713f'
.b'\\" commit 77bb499bb60f4b79cca7d139c8041662860fcf87'
.b'\\" commit 83b4b0bb635eee2b8e075062e4e008d1bc110ed7'
.b'\\"
 commit 478307230810d7e2a753ed220db9066dfdf88718'
.b'\\" The following was still true as at kernel 2.6.13'
```

```
.b'\\"       commit f76d207a66c3a53defea67e7d36c3eb1b7d6d61d'
.b'\\" FIXME Describe /proc/[pid]/sessionid'
.b'\\"\t  commit 1e0bd7550ea9cf474b1ad4c6ff5729a507f75fdc'
.b'\\"       CONFIG_AUDITSYSCALL'
.b'\\"       Added in 2.6.25; read-only; only readable by real UID'
.b'\\"'
.b'\\" FIXME Describe /proc/[pid]/sched'
.b'\\"       Added in 2.6.23'
.b'\\"       CONFIG_SCHED_DEBUG, and additional fields if CONFIG_SCHEDSTATS'
.b'\\"       Displays various scheduling parameters'
.b'\\"       This file can be written, to reset stats'
.b'\\"       The set of fields exposed by this file have changed'
.b'\\"\t  significantly over time.'
.b'\\"       commit 43ae34cb4cd650d1eb4460a8253a8e747ba052ac'
.b'\\"'
.b'\\" FIXME Describe /proc/[pid]/schedstats and'
.b'\\"       /proc/[pid]/task/[tid]/schedstats'
.b'\\"       Added in 2.6.9'
.b'\\"       CONFIG_SCHEDSTATS'
.b'\\" 2ec220e27f5040aec1e88901c1b6ea3d135787ad'
.b'\\"
 commit 44d90df6b757c59651ddd55f1a84f28132b50d29'
.b'\\" commit 44d90df6b757c59651ddd55f1a84f28132b50d29'
.b'\\" commit 74e37200de8e9c4e09b70c21c3f13c2071e77457'
.b'\\" commit 44d90df6b757c59651ddd55f1a84f28132b50d29'
.b'\\" commit 74e37200de8e9c4e09b70c21c3f13c2071e77457'
.b'\\" commit 44d90df6b757c59651ddd55f1a84f28132b50d29'
.b'\\" commit 74e37200de8e9c4e09b70c21c3f13c2071e77457'
.b'\\" commit f2530dc71cf0822f90bb63ea4600caaef33a66bb'
.b'\\" commit 74e37200de8e9c4e09b70c21c3f13c2071e77457'
.b'\\" This field and following, up to and including wchan added 0.99.1'
.b'\\" And back in kernel 1.2 days things were different again.'
.b'\\" Back in kernel 1.2 days things were different.'
.b'\\" .TP'
.b'\\" \\fIcounter\\fP %ld'
.b'\\" The current maximum size in jiffies of the process\'s next timeslice,'
.b'\\" or what is currently left of its current timeslice, if it is the'
.b'\\" currently running process.'
.b'\\" .TP'
.b'\\" \\fItimeout\\fP %u'
.b'\\" The time in jiffies
 of the process\'s next timeout.'
.b'\\" timeout was removed sometime around 2.1/2.2'
.b'\\" nswap was added in 2.0'
.b'\\" cnswap was added in 2.0'
.b'\\" commit b3f7f573a20081910e34e99cbc91831f4f02f1ff'
.b'\\" commit b3f7f573a20081910e34e99cbc91831f4f02f1ff'
.b'\\" commit b3f7f573a20081910e34e99cbc91831f4f02f1ff'
```

.b'\\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'
.b'\\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'
.b'\\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'
.b'\\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'
.b'\\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'
.b'\\" (not including libs; broken, includes data segment)'
.b'\\" (including libs; broken, includes library text)'
.b'\\" See SPLIT_RSS_COUNTING in the kernel.'
.b'\\" Inaccuracy is bounded by TASK_RSS_EVENTS_THRESH.'
.b'\\" commit e4bc33245124db69b74a6d853ac76c2976f472d5'
.b'\\" commit bc3e53f682d93df677dbd5006a404722b3adfe18'
.b'\\" commit bf9683d6990589390b5178dafe8fd06808869293'
.b'\\" commit
bf9683d6990589390b5178dafe8fd06808869293'
.b'\\" commit bf9683d6990589390b5178dafe8fd06808869293'
.b'\\" commit dc6c9a35b66b520cf67e05d8ca60ebecad3b0479'
.b'\\" commit b084d4353ff99d824d3bc5a5c2c22c70b1fba722'
.b'\\" commit 5d317b2b6536592a9b51fe65faed43d65ca9158e'
.b'\\" commit c643401218be0f4ab3522e0c0a63016596d6e9ca'
.b'\\" commit af884cd4a5ae62fcf5e321fecf0ec1014730353d'
.b'\\" commit 2f4b3bf6b2318cfaa177ec5a802f4d8d6afbd816'
.b'\\" commit fae1fa0fc6cca8beee3ab8ed71d54f9a78fa3f64'
.b'\\" commit ebcb67341fee34061430f3367f2e507e52ee051b'
.b'\\" Precisely: Linux 2.6.0-test6'
.b'\\" in particular: "children" :/'
.b'\\" The following was still true as at kernel 2.6.13'
.b'\\" commit 818411616baf46ceba0cff6f05af3a9b294734f7'
.b'\\" see comments in get_children_pid() in fs/proc/array.c'
.b'\\" commit 2e13ba54a2682eea24918b87ad3edf70c2cf085b'
.b'\\" commit 5ed67f05f66c41e39880a6d61358438a25f9fee5'
.b'\\" commit 48f6a7a511ef8823fdff39afee0320092d43a8a0'
.b'\\" commit da8b44d5a9f8bf26da637b7336508ca534d6b319'
.b'\\"
commit 5de23d435e88996b1efe0e2cebe242074ce67c9e'
.b'\\" commit 7abbaf94049914f074306d960b0f968ffe52e59f'
.b'\\" commit 3b72c814a8e8cd638e1ba0da4dfce501e9dff5af'
.b'\\" FIXME Much more needs to be said about /proc/fs'
.b'\\"'
.b'\\" commit 80ae2fdceba8313b0433f899bdd9c6c463291a17'
.b'\\" KPF_BALLOON: commit 09316c09dde33aae14f34489d9e3d243ec0d5938'
.b'\\" KPF_ZERO_PAGE: commit 56873f43abdcd574b25105867a990f067747b2f4'
.b'\\" KPF_IDLE: commit f074a8f49eb87cde95ac9d040ad5e7ea4f029738'
.b'\\" commit ad3bdefe877afb47480418fdb05ecd42842de65e'
.b'\\" commit e07a4b9217d1e97d2f3a62b6b070efdc61212110'
.b'\\" commit 9d5b86ac13c573795525ecac6ed2db39ab23e2a8'
.b'\\" commit d67fd44f697dff293d7cdc29af929241b669affe'
.b'\\" It looks like this only ever did something back in 1.0 days'
.b'\\" commit a5ad88ce8c7fae7ddc72ee49a11a75aa837788e0'

.b'\\" commit a5ad88ce8c7fae7ddc72ee49a11a75aa837788e0'
.b'\\" commit 7225e75144b9718cbbe1820d9c011c809d5773fd'
.b'\\" commit e9720acd728a46cb40daa52c99a979f7c4ff195c'
.b'\\"
 .TP'
.b'\\" .I /proc/net/ipx'
.b'\\" No information.'
.b'\\" .TP'
.b'\\" .I /proc/net/ipx_route'
.b'\\" No information.'
.b'\\" .TP'
.b'\\" .I /proc/net/route'
.b'\\" No information, but looks similar to'
.b'\\" .BR route (8).'
.b'\\" FIXME Document /proc/sched_debug (since Linux 2.6.23)'
.b'\\" See also /proc/[pid]/sched'
.b'\\" 1024 on Alpha and ia64'
.b'\\" FIXME . Actually, the following info about the /proc/stat \'cpu\' field'
.b'\\"   does not seem to be quite right (at least in 2.6.12 or 3.6):'
.b'\\"   the idle time in /proc/uptime does not quite match this value'
.b'\\" See kernel commit 9c240d757658a3ae9968dd309e674c61f07c7f48'
.b'\\" Precisely: Linux 2.6.0-test4'
.b'\\" Precisely: Linux 2.6.0-test4'
.b'\\" See Changelog entry for 5e84cfde51cf303d368fcb48f22059f37b3872de'
.b'\\" commit ce0e7b28fb75cb003cfc8d0238613aaf1c55e797'
.b'\\" FIXME . The following is not the full picture for the \'intr\' of'
.b'\\"   /proc/stat on 2.6:'
.b'\\"
 commit d3d64df21d3d0de675a0d3ffa7c10514f3644b30'
.b'\\" On some systems, it is not present.'
.b'\\" looks like this is unused in kernels 2.2 to 2.6'
.b'\\" looks like this is unused in kernels 2.2 to 2.6'
.b'\\" This can be slightly more than'
.b'\\" .I inode\\-max'
.b'\\" because Linux allocates them one page full at a time.'
.b'\\" commit d29216842a85c7970c536108e093963f02714498'
.b'\\" commit 9cfe015aa424b3c003baba3841a60dd9b5ad319b'
.b'\\" commit 800179c9b8a1e796e441674776d11cd4c05d61d7'
.b'\\" commit 800179c9b8a1e796e441674776d11cd4c05d61d7'
.b'\\" The following is based on text from Documentation/sysctl/kernel.txt'
.b'\\" In kernel source: SUID_DUMP_DISABLE'
.b'\\" In kernel source: SUID_DUMP_USER'
.b'\\" In kernel source: SUID_DUMP_ROOT'
.b'\\" 9520628e8ceb69fa9a4aee6b57f22675d9e1b709'
.b'\\" 54b501992dd2a839e94e76aa392c392b55080ce8'
.b'\\" commit 9eefe520c814f6f62c5d36a2ddcd3fb99dfdb30e (introduces feature)'
.b'\\" commit 0050ee059f7fc86b1df2527aaa14ed5dc72f9973 (rendered

redundant)'
.b'\\" FIXME Must document the 3.19 \'msgmni\' changes.'
.b'\\" commit 620f6e8e855d6d447688a5f67a4e176944a084e8'
.b'\\" Removed in commit 87f504e5c78b910b0c1d6ffb89bc95e492322c84 (tglx/history.git)'
.b'\\" removed in commit 1b483a6a7b2998e9c98ad985d7494b9b725bd228, before 2.6.28'
.b'\\" 455cd5ab305c90ffc422dd2e0fb634730942b257'
.b'\\" commit 411f05f123cbd7f8aa1edcae86970755a6e2a9d9'
.b'\\" commit 620f6e8e855d6d447688a5f67a4e176944a084e8'
.b'\\" 3d43321b7015387cfebbe26436d0e9d299162ea1'
.b'\\" From Documentation/sysctl/kernel.txt'
.b'\\" Prior to 2.6.10, pid_max could also be raised above 32768 on 32-bit'
.b'\\" platforms, but this broke /proc/[pid]'
.b'\\" See http://marc.theaimsgroup.com/?l=linux-kernel&m=109513010926152&w=2'
.b'\\" FIXME Document /proc/sys/kernel/pty/reserve'
.b'\\"   New in Linux 3.3'
.b'\\"   commit e9aba5158a80098447ff207a452a3418ae7ee386'
.b'\\" Some further details can be found in Documentation/sysctl/kernel.txt'
.b'\\" commit c1d171a002942ea2d93b4fbd0c9583c56fce0772'
.b'\\"
commit 9d85025b0418163fae079c9ba8f8445212de8568'
.b'\\" commit 5091faa449ee0b7d73bc296a93bca9540fc51d0a'
.b'\\" commit 8e5f1ad116df6b0de65eac458d5e7c318d1c05af'
.b'\\" commit b34a6b1da371ed8af1221459a18c67970f7e3d53'
.b'\\" See also Documentation/sysctl/kernel.txt'
.b'\\" commit f88083005ab319abba5d0b2e4e997558245493c8'
.b'\\" commit 2ca9bb456ada8bcbdc8f77f8fc78207653bbaa92'
.b'\\" commit f4aacea2f5d1a5f7e3154e967d70cf3f711bcd61'
.b'\\" commit 24fe831c17ab8149413874f2fd4e5c8a41fcd294'
.b'\\" FIXME .'
.b'\\"   With /proc/sys/kernel/sysctl_writes_strict==1, writes at an'
.b'\\"   offset other than 0 do not generate an error. Instead, the'
.b'\\"   write() succeeds, but the file is left unmodified.'
.b'\\"   This is surprising. The behavior may change in the future.'
.b'\\"   See thread.gmane.org/gmane.linux.man/9197'
.b'\\"\t\tFrom: Michael Kerrisk (man-pages <mtk.manpages@...>'
.b'\\"\t\tSubject: sysctl_writes_strict documentation + an oddity?'
.b'\\"\t\tNewsgroups:
gmane.linux.man, gmane.linux.kernel'
.b'\\"\t\tDate: 2015-05-09 08:54:11 GMT'
.b'\\" commit 9d85025b0418163fae079c9ba8f8445212de8568'
.b'\\" The following is based on Documentation/sysctl/kernel.txt'
.b'\\" commit 230633d109e35b0a24277498e773edeb79b4a331'
.b'\\" commit 4eeab4f5580d11bffedc697684b91b0bca0d5009'
.b'\\" The following is from Documentation/filesystems/proc.txt'
.b'\\" The following is based on the text in Documentation/sysctl/vm.txt'
.b'\\" The following is based on the text in Documentation/sysctl/vm.txt'
.b'\\" The following is from Documentation/sysctl/vm.txt'
.b'\\" The following is from Documentation/sysctl/vm.txt'

.b'\\" commit 49f0ce5f92321cdcf741e35f385669a421013cb7'
.b'\\" The following is adapted from Documentation/sysctl/vm.txt'
.b'\\" The following is from Documentation/sysctl/vm.txt'
.b'\\" commit c9b1d0981fcce3d9976d7b7a56e4e0503bc610dd'
.b'\\" cefdca0a86be517bc390fc4541e3674b8e7803b0'
.b'\\" commit 9d85025b0418163fae079c9ba8f8445212de8568'
.b'\\"
commit 0097875bd41528922fb3bb5f348c53f17e00e2fd'
.b'\\" commit 289f480af87e45f7a6de6ba9b4c061c2e259fe98'
.b'\\" commit 82f67cd9fca8c8762c15ba7ed0d5747588c1e221'
.b'\\"\tDate: Fri Feb 16 01:28:13 2007 -0800'
.b'\\" Text largely derived from Documentation/timers/timer_stats.txt'
.b'\\" removed in commit dfb4357da6ddbdf57d583ba64361c9d792b0e0b1'
.b'\\"   Date: Wed Feb 8 11:26:59 2017 -0800'
.b'\\" commit c5c061b8f9726bc2c25e19dec227933a13d1e6b7 deferrable timers'
.b'\\" FIXME 2.6.13 seems to have /proc/vmcore implemented; document this'
.b'\\" \tSee Documentation/kdump/kdump.txt'
.b'\\"\tcommit 666bfddbe8b8fd4fd44617d6c55193d5ac7edb29'
.b'\\" \tNeeds CONFIG_VMCORE'
.b'\\"'
.b'\\" FIXME We need explanations for each of the following fields...'
.b'\\" commit d23ad42324cc4378132e51f2fc5c9ba6cbe75182'
.b'\\" commit 81c0a2bb515fd4daae8cab64352877480792b515'
.b'\\" commit 4f98a2fee8acdb4ac84545df98cccecfd130f8db'
.b'\\" commit 4f98a2fee8acdb4ac84545df98cccecfd130f8db'
.b'\\"
commit 4f98a2fee8acdb4ac84545df98cccecfd130f8db'
.b'\\" commit 4f98a2fee8acdb4ac84545df98cccecfd130f8db'
.b'\\" commit 7b854121eb3e5ba0241882ff939e2c485228c9c5'
.b'\\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b'\\" commit f3dbd34460ff54962d3e3244b6bcb7f5295356e6'
.b'\\" commit 347ce434d57da80fd5809c0c836f206a50999c26'
.b'\\" commit 972d1a7b140569084439a81265a0f15b74e924e0'
.b'\\" Linux 2.6.0 had nr_slab'
.b'\\" commit 972d1a7b140569084439a81265a0f15b74e924e0'
.b'\\" commit c6a7f5728a1db45d30df55a01adc130b4ab0327c'
.b'\\" commit edfbe2b0038723e5699ab22695ccd62b5542a5c1'
.b'\\" commit e129b5c23c2b471d47f1c5d2b8b193fc2034af43'
.b'\\" commit 49ea7eb65e7c5060807fb9312b1ad4c3eab82e2c'
.b'\\" commit fc3ba692a4d19019387c5acaea63131f9eab05dd'
.b'\\" commit a731286de62294b63d8ceb3c5914ac52cc17e690'
.b'\\" commit a731286de62294b63d8ceb3c5914ac52cc17e690'
.b'\\" commit 4b02108ac1b3354a22b0d83c684797692efdc395'
.b'\\" commit ea941f0e2a8c02ae876cd73deb4e1557248f258c'
.b'\\" commit ea941f0e2a8c02ae876cd73deb4e1557248f258c'
.b'\\"
commit 0d5d823ab4e608ec7b52ac4410de4cb74bbe0edd'
.b'\\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'

.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_NUMA .'
.b'\\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_NUMA .'
.b'\\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_NUMA .'
.b'\\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_NUMA .'
.b'\\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_NUMA .'
.b'\\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_NUMA .'
.b'\\" commit a528910e12ec7ee203095eb1711468a66b9b60b0'
.b'\\" Present only if the kernel
was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit a528910e12ec7ee203095eb1711468a66b9b60b0'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 449dd6984d0e47643c04c807f609dd56d48d5bcc'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit d1ce749a0db12202b711d1aba1d29e823034648d'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 79da826aee6a10902ef411bc65864bd02102fa83'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 79da826aee6a10902ef411bc65864bd02102fa83'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\"
Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Linux 2.6.0 had pgalloc'

```
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_HIGHMEM .'
.b'\\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR
 CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Linux 2.6.0 had pgrefill'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_HIGHMEM .'
.b'\\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b'\\" Present only if the kernel
 was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Formerly there were'
.b'\\"     pgsteal_high'
.b'\\"     pgsteal_normal'
.b'\\"     pgsteal_dma32'
.b'\\"     pgsteal_dma'
.b'\\" These were split out into pgsteal_kswapd* and pgsteal_direct*'
.b'\\" in commit 904249aa68010c8e223263c922fcbb840a3f42e4'
```

```
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Linux 2.6.0 had pgsteal'
.b'\\" Present only if the kernel was configured with'
.b'\\" .\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\"
 and'
.b'\\" .BR CONFIG_HIGHMEM .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_HIGHMEM .'
.b'\\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Linux 2.6.0 had pgscan'
.b'\\" Present only if the kernel was
 configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
```

.b'\\" .BR CONFIG_HIGHMEM .'
.b'\\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\"
 and'
.b'\\" .BR CONFIG_HIGHMEM .'
.b'\\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 68243e76ee343d63c6cf76978588a885951e2818'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 24cf72518c79cdcda486ed26074ff8151291cf65'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit bb3ab596832b920c703d1aea1ce76d69c0f71fb7'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit bb3ab596832b920c703d1aea1ce76d69c0f71fb7'
.b'\\"
 Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 5509a5d27b971a90b940e148ca9ca53312e4fa7a'
.b'\\" Present only if the kernel was configured with'

```
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 5509a5d27b971a90b940e148ca9ca53312e4fa7a'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 03c5a6e16322c997bf8f264851bfa3f532ad515f'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA_BALANCING .'
.b'\\" commit 72403b4a0fbdf433c1fe0127e49864658f6f6468'
.b'\\" Present only if the kernel was configured
 with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA_BALANCING .'
.b'\\" commit 03c5a6e16322c997bf8f264851bfa3f532ad515f'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA_BALANCING .'
.b'\\" commit 03c5a6e16322c997bf8f264851bfa3f532ad515f'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA_BALANCING .'
.b'\\" commit 03c5a6e16322c997bf8f264851bfa3f532ad515f'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA_BALANCING'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA_BALANCING .'
.b'\\" commit 5647bc293ab15f66a7b1cda850c5e9d162a6c7c2'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_MIGRATION .'
.b'\\" commit 5647bc293ab15f66a7b1cda850c5e9d162a6c7c2'
.b'\\" Present only
 if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_MIGRATION .'
.b'\\" commit 397487db696cae0b026a474a5cd66f4e372995e6'
.b'\\" Linux 3.8 dropped compact_blocks_moved, compact_pages_moved, and'
.b'\\"          compact_pagemigrate_failed'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
```

.b'\\" and'
.b'\\" .BR CONFIG_COMPACTION .'
.b'\\" commit 397487db696cae0b026a474a5cd66f4e372995e6'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_COMPACTION .'
.b'\\" commit 397487db696cae0b026a474a5cd66f4e372995e6'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_COMPACTION .'
.b'\\" commit 56de7263fcf3eb10c8dcdf8d59a9cec831795f3f'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_COMPACTION .'
.b'\\"
commit 56de7263fcf3eb10c8dcdf8d59a9cec831795f3f'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_COMPACTION .'
.b'\\" commit 56de7263fcf3eb10c8dcdf8d59a9cec831795f3f'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_COMPACTION .'
.b'\\" commit 3b1163006332302117b1b2acf226d4014ff46525'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_HUGETLB_PAGE .'
.b'\\" commit 3b1163006332302117b1b2acf226d4014ff46525'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_HUGETLB_PAGE .'
.b'\\" commit bbfd28eee9fbd73e780b19beb3dc562befbb94fa'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit bbfd28eee9fbd73e780b19beb3dc562befbb94fa'
.b'\\" Present only if
the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit bbfd28eee9fbd73e780b19beb3dc562befbb94fa'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'

```
.b'\\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Linux 3.7 removed unevictable_pgs_mlockfreed'
.b'\\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\"
 and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b'\\" Present only if the kernel was configured with'
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.b'\\" and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit d8a8e1f0da3d29d7268b3300c96a059d63901b76'
.b'\\" Present only if the kernel was configured with'
.b'\\"
 .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit d8a8e1f0da3d29d7268b3300c96a059d63901b76'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
```

```
.b'\\" and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit 09316c09dde33aae14f34489d9e3d243ec0d5938'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_MEMORY_BALLOON .'
.b'\\" commit 09316c09dde33aae14f34489d9e3d243ec0d5938'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_MEMORY_BALLOON .'
.b'\\" commit 09316c09dde33aae14f34489d9e3d243ec0d5938'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS ,'
.b'\\" .BR CONFIG_MEMORY_BALLOON ,'
.b'\\" and'
.b'\\" .BR CONFIG_BALLOON_COMPACTION .'
.b'\\" commit 9824cf9753ecbe8f5b47aa9b2f218207defea211'
.b'\\" Present only if the
 kernel was configured with'
.b'\\" .BR CONFIG_DEBUG_TLBFLUSH'
.b'\\" and'
.b'\\" .BR CONFIG_SMP .'
.b'\\" commit 9824cf9753ecbe8f5b47aa9b2f218207defea211'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_DEBUG_TLBFLUSH'
.b'\\" and'
.b'\\" .BR CONFIG_SMP .'
.b'\\" commit 9824cf9753ecbe8f5b47aa9b2f218207defea211'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_DEBUG_TLBFLUSH .'
.b'\\" commit 9824cf9753ecbe8f5b47aa9b2f218207defea211'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_DEBUG_TLBFLUSH .'
.b'\\" commit 4f115147ff802267d0aa41e361c5aa5bd933d896'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_DEBUG_VM_VMACACHE .'
.b'\\" commit 4f115147ff802267d0aa41e361c5aa5bd933d896'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_DEBUG_VM_VMACACHE .'
.b'\\" commit f5f302e21257ebb0c074bbafc37606c26d28cc3d'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR
 CONFIG_DEBUG_VM_VMACACHE .'
.b'\\" FIXME more should be said about /proc/zoneinfo'
.b'\\" .SH ACKNOWLEDGEMENTS'
.b'\\" The material on /proc/sys/fs and /proc/sys/kernel is closely based on'
```

.b'\\" kernel source documentation files written by Rik van Riel.'

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* /man-pages-5-13-tar-gz/man-pages-5.13/man3/getsubopt.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man3/backtrace.3
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* /man-pages-5-13-tar-gz/man-pages-5.13/man3/__ppc_yield.3
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* /man-pages-5-13-tar-gz/man-pages-5.13/man2/ioctl_fat.2
*
/man-pages-5-13-tar-gz/man-pages-5.13/man3/if_nametoindex.3
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========== Changes in man-pages-2.00 ==========

Released: 2004-12-16

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The following people contributed notes, ideas, or patches that have
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Apologies if I missed anyone!

Global changes

Various pages
  Fabian Kreutz
    Many math pages had their synopses compressed, as per suggestion
    from Fabian Kreutz.

Various pages
  Fabian Kreutz / aeb
    Many minor content and formatting bug fixes were made to the math
    pages, following suggestions from Fabian Kreutz (who recently
    translated many of the 1.70 math pages into German) and
    Andries Brouwer.

Various pages
  mtk

For consistency, all instances of "super-user" were changed
to the more common "superuser".

Various pages
Vasya Pupkin / mtk
After a note from Vasya Pupkin, I added <errno.h> to the SYNOPSIS
of several Section 2 pages using the _syscallN() macros.

In addition:
-- erroneous semicolons at the end of _syscallN() were removed
on various pages.

--
types such as "uint" in syscallN() declarations were changed
to "unsigned int", etc.

-- various other minor breakages in the synopses were fixed.

The affected pages are:

getdents.2
gettid.2
llseek.2
mmap2.2
modify_ldt.2
pivot_root.2
quotactl.2
readdir.2
sysctl.2
syslog.2
tkill.2

Typographical or grammatical errors have been corrected in several
other places.

Changes to individual pages
---

bind.2
Florian Weimer
Added 'const' to declaration of 'my_addr' in prototype.
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=239762.

fcntl.2
Martin Pool
Added O_NOATIME to list of flags that can be changed via F_SETFL.
mtk/aeb
Noted F_GETOWN bug after suggestion from aeb.

See also:
http://marc.theaimsgroup.com/?l=linux-kernel&m=108380640603164&w=2

getrlimit.2
mtk
Material on getrusage.2 has been separated out into its own page.
Rewrote discussion on RLIMIT_MEMLOCK to incorporate kernel
2.6.9 changes.
Added note on RLIMIT_CPU error in older kernels.
Added RLIMIT_SIGPENDING.
Also made a few other minor changes.

getrusage.2
mtk
This page is new(ish) -- it was created by splitting
getrlimit.2.

Repaired note on SIGCHLD behavior to note that the
POSIX non-conformance has been fixed in 2.6.9.

kill.2
Modified after suggestion from Emmanuel Colbus
Changed wording of sentence under NOTES describing
when signals can be sent to init(1).

mlock.2
munlock.2
mlockall.2
munlockall.2
These have been consolidated into a single mlock.2 page.
In the process, much duplication was eliminated
and new information was added about RLIMIT_MEMLOCK
and the changes
in memory locking in kernel 2.6.9,

mmap.2
mtk
Added cross-ref to setrlimit(2) concerning memory locking limits.
Eric Estievenart
Note that MAP_FIXED replaces existing mappings

msgctl.2
mtk
Substantial language and formatting clean-ups.
Added msqid_ds and ipc_perm structure definitions.

msgget.2
mtk

Substantial language and formatting clean-ups.
Added notes on /proc files.

msgop.2
mtk
Substantial language and formatting clean-ups.
Added notes on /proc files.

open.2
Martin Pool
Added O_NOATIME (new in Linux 2.6.8)
mtk
Reordered list of 'flags' description alphabetically

personality.2
2004-11-03 applied patch from Martin Schulze

semctl.2
mtk
Substantial language and formatting clean-ups.
Rewrote semun text.
Added semid_ds and ipc_perm structure definitions.

semget.2
mtk
Substantial language and formatting clean-ups.
Added
notes on /proc files.
Rewrote BUGS note about semget()'s failure to initialize
semaphore values.

semop.2
mtk
Substantial language and formatting clean-ups.
Added notes on /proc files.

shmctl.2
mtk
Substantial language and formatting clean-ups.
Updated shmid_ds structure definitions.
Added information on SHM_DEST and SHM_LOCKED flags.
Noted that CAP_IPC_LOCK is not required for SHM_UNLOCK
since kernel 2.6.9.
Added notes on 2.6.9 RLIMIT_MEMLOCK changes.
Added RLIMIT_SIGPENDING (new in Linux 2.6.8)

shmget.2
mtk

Substantial language and formatting clean-ups.
Added notes on /proc files.

shmop.2
mtk
Substantial language and formatting clean-ups.
Changed wording and placement of sentence regarding attachment
of segments marked for destruction.

sigaction.2
mtk
Added mention of SIGCONT under SA_NOCLDSTOP.
Added SA_NOCLDWAIT.
Updated discussion for POSIX.1-2001 and SIGCHLD and sa_flags.
Noted that CLD_CONTINUED is supported since Linux 2.6.9.
Added SI_TKILL (new in Linux 2.4.19).
Other minor changes.

signal.2
mtk
Removed text on ignoring SIGCHLD; replaced with pointer
to sigaction.2.

sigwaitinfo.2
After bug report from Andrey Kiselev
Fixed prototype: "timeout" --> "*timeout"
as per: http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=222145

stat.2
Enrico Zini
Added text to clarify that S_IS*() macros should be applied to
st_mode field.
as per: http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=249698

swapon.2
After Debian bug report from Anand Kumria
Added "no swap space signature" to EINVAL error.
mtk
Added EINVAL error for swapoff() ("not currently a swap area").
Added EBUSY error for swapon().
A few formatting fixes.

times.2
mtk
In Linux 2.6, the return value
of times changed; it is no
longer time since boot, but rather:

boot_time + 2^32 / HZ - 300

Repaired note on SIGCHLD behavior to note that the
POSIX non-conformance has been fixed in 2.6.9.
Some formatting fixes.

undocumented.2
After bug report from Johannes Berg
Changed
.TH UNIMPLEMENTED
to:
.TH UNDOCUMENTED
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=220741

wait.2
mtk
Added waitid(2).
Added WCONTINUED and WIFCONTINUED (new in 2.6.10).
Added text on SA_NOCLDSTOP.
Updated discussion of SA_NOCLDWAIT to reflect 2.6 behavior.
Much other text rewritten.

wait4.2
mtk
Rewrote this page, removing much duplicated information,
and replacing with pointers to wait.2.
Luis Javier Merino Morán / mtk
CONFORMING TO said "SVr4, POSIX". Changed to "4.3BSD"

waitid.2
mtk
New link to wait.2

assert.3

After bug report from Branden Robinson
The assert() failure message goes to stderr not stdout.
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=284814

ctime.3
mtk
Noted that 0 in tm_mday is interpreted to mean the last day
of the preceding month.

getnameinfo.3
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=229618
getnameinfo() does not set errno, it returns a non-zero
value indicating the error.

mtk
added EAI_OVERFLOW error

killpg.3
mtk
Minor changes to SEE ALSO and CONFORMING TO.

lseek64.3
aeb
New page by Andries Brouwer

tzset.3
Richard Kreckel
Change "NULL" to "empty" when talking about the value of TZ.
http://sources.redhat.com/bugzilla/show_bug.cgi?id=601

printf.3
After bug report from Jan Kuznik
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=205736
Fixed bad realloc() use in snprintf() example

realpath.3
mtk
Added discussion
of resolved_path == NULL.

random.4
After bug report from John V. Belmonte
Updated init and quit scripts to reflect kernel 2.4/2.6 reality
(Scripts taken from drivers/char/random.c)
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=247779

proc.5
mtk
Updated description of /proc/loadavg to include
nr_running(), nr_threads, last_pid.

rtsig-max and rtsig-nr went away in 2.6.8

updated statm, and fixed error in order of list

boot.7
applied patch from Martin Schulze

capabilities.7
mtk
Added O_NOATIME for CAP_FOWNER

netdevice.7
  Karel Kulhavy and AEB
    Formatting fix after note from Karel Kulhavy and AEB, plus a
    few wording fixes.

signal.7
  mtk
    /proc/sys/kernel/rtsig-* were superseded by RLIMIT_SIGPENDING
    in kernel 2.6.8.

tcp.7
  mtk/aeb
    Updated details of interaction of TCP_CORK and TCP_NODELAY.

========== Changes in man-pages-2.01 ==========

Released:
 2004-12-20

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes
----

accept.2
close.2
send.2
setsid.2
socket.2
closedir.3
initgroups.3
mkstemp.3

opendir.3
readdir.3
telldir.3
  Matthew Dempsky, mtk
    triggered by http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=283179
    The wording describing how errno is set was fixed up in these pages.

Typographical or grammatical errors have been corrected in several
other places.

Changes to individual pages
---

sendfile.2
   mtk
    Adjusted descriptions of argument file types to be closer to
    2.6 reality.
    Wording and formatting changes.

ctan.3
ctanh.3
  Tony Crawford
    As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=270817
    Formulae on the pages should be T = S / C not T = C / S.

errno.3
  Martin Schulze, mtk
    Removed errno declaration from prototype, added notes
    on historical need for this declaration.
    http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=174175

aio_return.3
  as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=224953
    Changed erroneous "aio_return(2)" to "aio_return(3)".

posix_openpt.3
  mtk
    New by mtk

ptsname.3
  mtk
    Added description of ptsname_r().
    Added ERRORS.

ptsname_r.3
  mtk
    New link to ptsname.3.

shm_open.3
  Matthew Gregan
    add <fcntl.h> to synopsis
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=271243

strcasecmp.3
  Marek
 Habersack
      .SH "CONFORMING TO"
      -BSD 4.4
      +BSD 4.4, SUSv3
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=234443

strfry.3
  Joshua Kwan
    Added _GNU_SOURCE to prototype
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=213538

strftime.3
  Cartsen Hey
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=276248

    Changed range for "%S" from 0..61 to 0..60.

    SUSv3 says 0..60. I think the manual page probably says
    0..61, because that's what SUSv2 said.
    (Some other implementations' man pages also say 0..61 --
    e.g., Solaris 8 & 9, Tru64 5.1B; FreeBSD 5.1 says 0..60.)

    The glibc manual currently says 0..60.

    Given that SUSv3 says 0..60, I've changed the
    manual page to also say this:

      -The second as a decimal number (range 00 to 61).
      +The second as a decimal number (range 00 to 60).
      +(The range is up to 60 to allow
 for occasional leap seconds.)

sysconf.3
  Johannes Berg
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=226974
    -.BR POSIX2_FORT_RUN " - " _SC_2_FORT_DEV
    +.BR POSIX2_FORT_DEV " - " _SC_2_FORT_DEV

system.3
  Pedro Zorzenon
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=242638

Noted use of _XOPEN_SOURCE to get macros from <stdlib.h>
for wait(2).

mtk
Changed name of argument from 'string' to 'command' (like POSIX).

Noted that glibc does nowadays explicitly check for the existence
of the shell if 'command' is NULL, rather than the older behavior
of assuming the shell exists and always returning 1 if
'command' is NULL.

Other wording and formatting clean-ups.

undocumented.3
Remove some functions names that *are* documented.

========== Changes in man-pages-2.02 ==========

Released: 2005-04-14

Contributors

The following people
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Apologies if I missed anyone!

Global changes
---

ctime.3
tzselect.8
zdump.8
zic.8
  Martin (Joey) Schulze
    Removed SEE ALSO reference to nonexistent newctime(3).
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=236884

Typographical
 or grammatical errors have been corrected in several
other places.

Changes to individual pages
---

clone.2
  mtk
    Noted the PID caching behavior of NPTL's getpid()
    wrapper under BUGS.

    Added futex(2), set_thread_area(2), set_tid_address(2),
    tkill(2) under SEE ALSO.

epoll_ctl.2
epoll_create.2
  Marko Kohtala / mtk
    Improved various error descriptions.

epoll_wait.2
  David Lloyd / Mike Frysinger, Marko Kohtala
    Added EINTR to errors.

fcntl.2
  Jamie Lokier / mtk
    Improved discussion of F_SETOWN and F_SETSIG with respect to
    multi-threaded programs.
    Generally cleaned up the discussion of F_SETOWN.

    Updated CONFORMING TO to note that F_GETOWN and F_SETOWN are
    now in POSIX.

link.2
  mtk
    Noted discrepancy between Linux and POSIX.1 when oldpath

is a symbolic link.
See: http://bugs.linuxbase.org/show_bug.cgi?id=367
and: http://www.opengroup.org/austin/mailarchives/ag/msg08152.html

Michael Haardt / mtk
Clarified EXDEV error description: it isn't possible to link
across mount points, even if the mount points refer to the same
file system.

mincore.2
mtk, after note from Gordon Jin
Updated ERRORS.

pipe.2
As per message from Serguei Leontiev
Removed SVr2, AT&T, and BSD from CONFORMING TO, since
a pipe on those systems is actually bidirectional.
(Pipes are implemented as STREAMS on the former, and
sockets on the latter.)

posix_fadvise.2
mtk
Noted kernel version where posix_fadvise() appeared and
noted bug in handling of 'len' in kernels < 2.6.6.

rename.2
Michael Haardt
Clarified EXDEV error description: it isn't possible to rename
a file across mount points, even if the mount points refer to
the same file system.

semop.2
mtk
Noted kernel version numbers for semtimedop().

setitimer.2
Matthias Lang, mtk
Noted MAX_SEC_IN_JIFFIES ceiling.
Added note about treatment of out-of-range tv_usec values.

sigqueue.2
Johan Walles, Martin (Joey) Schulze
Added sigqueue.2 to SEE ALSO.

times.2
mtk
Added notes on non-standard behavior: Linux allows 'buf' to
be NULL, but POSIX.1 doesn't specify this and it's non-portable.

uselib.2
  Andries Brouwer
    Improved DESCRIPTION; clarified distinction between
    EACCES and ENOEXEC.

bcopy.3
  Heikki Orsila
    bcopy() handles overlapping case, but memcpy() does not,
    so for consistency memmove() should be also mentioned.

getmntent_r.3
  Martin (Joey) Schulze
    New link to man3/getmntent.3.

memcpy.3
  Small wording change after suggestion from Sasa Stevanovic.

strcasestr.3
  mtk
    Created as link to strstr.3.

strftime.3
  mtk
    Noted that SUSv2 allowed a range of 00 to 61 for %S specifier.

strstr.3
  mtk
    Added description
 of strcasestr().

random.4
  aeb
    Improved description of read from /dev/urandom.

st.4
  Kai Makisara
    Substantial updates.

man.7
  Martin Schulze
  Branden Robinson
  Colin Watson
    Mention the .URL macro more verbosely.

========== Changes in man-pages-2.03 ==========

Released: 2005-06-02

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Ross Boylan <RossBoylan@stanfordalumni.org>
Vincent Fourmond <vincent.fourmond@9online.fr>

Apologies if I missed anyone!

Global changes
---

console.4
console_ioctl.4
mouse.4
tty.4
vcs.4
  Pavel Heimlich
    Change `ttys(4)' to `ttyS(4)'.

Typographical
 or grammatical errors have been corrected in several
places.

Changes to individual pages
---

clone.2
  mtk
    Substantially enhanced discussion of CLONE_THREAD.

    Added CLONE_SYSVSEM, CLONE_UNTRACED, CLONE_STOPPED.

    Other minor fixes.

execve.2
  aeb
    Noted effect of ptracing when execing a set-UID program.

fcntl.2
  Johannes Nicolai / mtk
    Noted F_SETOWN bug for socket file descriptor in Linux 2.4
    and earlier.

    Added text on permissions required to send signal to owner.

flock.2
  mtk
    Noted that lock conversions are not atomic.

getrusage.2
  mtk
    ru_nswap has never contained useful information.
    Kernel 2.6.6 clarified that with a patch
    ("[PATCH] eliminate nswap and cnswap"). See also:
    http://www.ussg.iu.edu/hypermail/linux/kernel/0404.1/0720.html

kill.2
  mtk
    Clarified wording of the 'pid == -1' case.

mount.2
  mtk

  Added MNT_EXPIRE, plus a few other tidy-ups.

sched_setaffinity.2
  mtk
    Added text to note that sched_setaffinity() will migrate the
    affected process to one of the specified CPUs if necessary.

    Added a NOTE to point out that the affinity mask is actually a
    per-thread attribute that can be adjusted independently for
    each thread in a thread group.

shmctl.2
  mtk
    Noted aberrant Linux behavior with respect to new attaches to a
    segment that has already been marked for deletion.

    Noted changes in permissions required for SHM_LOCK/SHM_UNLOCK.

wait.2
  mtk
    Noted that the __W* flags can't be used with waitid().

confstr.3
  mtk
    Added _CS_GNU_LIBC_VERSION and _CS_GNU_LIBPTHREAD_VERSION.

hosts.5
  Ross Boylan / Martin Schulze
    various changes as per
    http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=304242

proc.5
  mtk
    Minor changes to discussion of /proc/PID/stat signal fields.
     Added 'rt_priority' and 'policy' to /proc/PID/stat.

capabilities.7
  mtk
    1,$s/inherited/inheritable/g

regex.7
  Vincent Fourmond / Joey (Martin) Schulze
    Removed discussion of `[[:<:]]' and `[[:>:]]' since they do
    not seem to be in the glibc implementation.
    As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=295666

tzselect.8
  Joey (Martin) Schulze / Klaus Ethgen
    The default zoneinfo directory is now /usr/share/zoneinfo.
    (was: /usr/local/etc/zoneinfo)
    As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=267471

========== Changes in man-pages-2.04 ==========

Released: 2005-06-21

Contributors

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been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes

Various pages
  mtk
    For consistency across pages:

      1,$s/nonzero/non-zero/g

Typographical or grammatical errors have been corrected in several
places.

New pages
---

pthreads.7
  mtk
    An overview of the Linux implementations of POSIX threads.

Changes to individual pages

_exit.2
  mtk
    Various
 minor changes.

epoll_ctl.2
  Mike Furr
    BUGS: In kernels < 2.6.9, EPOLL_CTL_DEL required a non-NULL

'event', even though this argument is ignored.
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=306517

flock.2
mtk / Kevin Ryde
Clarified semantics of relationship between flock() locks
and open file entries and file descriptors.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=291121

getitimer.2
Olivier Croquette, Thierry Excoffier
Noted the existence of the short sleep bug (up to 1 jiffy).

getrlimit.2
mtk
RLIMIT_RSS only has affect "in 2.4.x", not "in 2.4 and later".

getrusage.2
Geoff Clare
Since Linux 2.6, the ru_nvcsw and ru_nivcsw fields are used.

nice.2
mtk / Guido Trotter
Rewrote description of return value.
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=296183

open.2
Walter Harms
O_DIRECT needs _GNU_SOURCE.
mtk
O_ASYNC works
for pipes and FIFOs in Linux 2.6.
Various minor fixes.

atexit.3
mtk
Various minor changes.

exit.3
mtk
Various minor changes.

getopt.3
mtk / Philipp Spitzer
Fix description of return value.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=308359

hsearch.3

mtk
Changed (char *) to (void *) in example.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=313607

log1p.3
Justin Pryzby
Make log(3) SEE ALSO log1p(3),
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=309578

makecontext.3
Tanaka Akira
Fix description of RETURN VALUE for makecontext(),
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=311800

on_exit.3
mtk
Various minor changes.

rand.3
kabloom
Small fix to a code example,
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=194842

realpath.3
mtk / Thomas Hood
When specifying resolved_path as NULL,
realpath()
will (still) only allocate up to PATH_MAX bytes.
Plus other minor changes.
See also http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=239424

rcmd.3
Dave Love
The required header file for these functions on Linux is <netdb.h>,
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=311680

scanf.3
Olivier Guilyardi
Arg for %p is a pointer to _a pointer to_ void,
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=263109

stdin.3
Vincent Lefevre
freopen() can change the descriptors associated with
stdin/stdout/stderr, as per
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=295859

strerror.3

Baurjan Ismagulov
strerror_r(3) requires #define _XOPEN_SOURCE 600,
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=290880

sysconf.3
Peter Cordes / mtk
Fix typo: "_SC_2_DEV" should be "_SC_2_C_DEV".

proc.5
mtk
Added pointers under /proc/sys/net
to tcp.7 and ip.7.

ip.7
mtk
Various wording and formatting fixes.
Reordered /proc/sys/net/ipv4/ip_* file descriptions alphabetically.

tcp.7
Dieter Brueggemann / mtk
Fixes to the discussion of SIOCATMARK and tcp_stdurg.
mtk
Various wording and formatting fixes.
Incorporated some new /proc/sys/net/ipv4/tcp_* file descriptions
from the 2.6.12 source file Documentation/networking/ip-sysctl.txt.

========== Changes in man-pages-2.05 ==========

Released: 2005-06-27

Contributors

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Apologies if I missed

anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places. (Special thanks to A Costa.)

Changes to individual pages

_exit.2
  mtk / aeb
    Reversed 2.04 introduction of the term "process termination
    function".

close.2
  mtk
    Clarified what type of lock close() affects.
    Minor formatting changes.

dup.2
  mtk
    Consistent use of terms "open file description",
    "file status flags", and "file descriptor flags".
    Removed mention of lock sharing -- it was not accurate.
    Minor formatting fixes.

fcntl.2
  mtk
    Consistent use of terms "open file description",
    "file status flags", and "file descriptor flags".
    Some rewriting of discussion of file descriptor flags
    Under F_DUPFD, replaced some text duplicated in dup.2
    with a cross ref to dup.2
    Minor wording and formatting fixes.

fpclassify.3
  mtk /
 Martin (Joey) Schulze / Bas Zoetekouw
    The return value of isinf() changed in glibc 2.02
    to differentiate positive and negative infinity.
    See: http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=285765

getgid.2
getuid.2
  Delian Krustev

Remove confusing text describing real and effective IDs.
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=285852

getitimer.2
mtk
The short sleep bug (up to 1 jiffy) that was newly noted in
man-pages-2.04 has just been fixed in 2.6.12.

getpriority.2
mtk
Changed range documented in main text from -20..20 to -20..19.
Noted that the range is -20..20 on some systems.

open.2
mtk / aeb
Clarification of term "open file description" along with
explanation of what information it maintains.
Other wording improvements.
Various minor wording changes.

atexit.3
mtk / aeb
Reversed 2.04 introduction of the term "process termination
function".
mtk
Noted use of atexit() for establishing function to be invoked on
shared library unload.
Noted that atexit()-registered functions are not invoked on
abnormal termination.
Formatting fixes.

exit.3
mtk / aeb
Reversed 2.04 introduction of the term "process termination
function".
mtk
Minor rewording and formatting changes.

getloadavg.3
mtk
Added #define _BSD_SOURCE to prototype.

log2.3
Martin (Joey) Schulze
Add ERANGE error.

readdir.3
mtk

Added definition of Linux dirent structure.
Some formatting cleanups.

strtod.3
Dora Anna Volgyesi / mtk
strtold() and strtof() need _ISOC99_SOURCE or _XOPEN_SOURCE=600
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=246668

tdestroy.3
mtk
New link to tsearch.3.

tsearch.3
mtk
Added tdestroy to .TH line.

mem.4
mtk
Change "chown root:mem /dev/mem" to
"chown root:kmem /dev/mem".

null.4
mtk
Change "chown root:mem /dev/null /dev/zero" to
"chown root:root /dev/null /dev/zero".

vcs.4
Dan Jacobson / Martin (Joey) Schulze
Replaced "selection(1)" by "gpm(8)" under SEE ALSO
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=253515

signal.7
Ove Kaaven
SA_SIGACTION should be SA_SIGINFO
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=305369

urn.7
mtk
New link to uri.7

========== Changes in man-pages-2.06 ==========

Released: 2005-07-15

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Steven Murdoch <Steven.Murdoch@cl.cam.ac.uk>
Walter Harms <walter.harms@informatik.uni-oldenburg.de>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

Many uses of hyphens and dashes were corrected.

New pages
---

canonicalize_file_name.3
  Walter Harms / mtk

Removed Pages
---

sstk.2
  mtk
    AFAIK, this system call has never actually done anything (other
    than be a stub) on any Unix.

Changes to individual pages
---

accept.2

mtk
Various wording and formatting fixes.

bind.2
mtk
Minor formatting changes

clone.2
mtk
Various minor wording improvements; some formatting fixes

connect.2
mtk
Various wording and formatting
fixes.

epoll_create.2
Bhavesh P Davda
s/positive/non-negative/ [for file descriptor]

getrlimit.2
mtk
Documented RLIMIT_MSGQUEUE limit.
RLIMIT_RSS ceased to have any effect in 2.4 in kernel 2.4.30.
(It already didn't have any effect in 2.2.x and 2.6.x.)
s/MADVISE_WILLNEED/MADV_WILLNEED/

listen.2
mtk
Removed historic comment on BSD backlog ceiling.
Minor wording and formatting changes.

semop.2
mtk
Added BUG: in some circumstances, a process that is
waiting for a semaphore to become zero is not woken
up when the value does actually reach zero.
http://marc.theaimsgroup.com/?l=linux-kernel&m=110260821123863&w=2
http://marc.theaimsgroup.com/?l=linux-kernel&m=110261701025794&w=2

socket.2
mtk
Various minor wording improvements

umask.2
mtk
Added mkdir(2) to discussion, made term "file mode creation
mask" clearer.

Various, mostly
small, wording changes

errno.3
Martin Pool
Change description for ESTALE
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=237344

fgetgrent.3
getgrent.3
getgrent_r.3
David Lloyd
Added SEE ALSO putgrent(3)
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=211336

getgrent.3
getgrnam.3
getpwent.3
getpwnam.3
Lars Wirzenius / mtk
Replace mention of /etc/{passwd,group} by references to
"passwd/group database", and LDAP and NIS.
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=316117
mtk
Miscellaneous wording improvements
Consistent DESCRIPTION and ERRORS wording across these pages.

getnameinfo.3
mtk
Relocate misplaced text describing gai_strerror().

getnetent.3
Petter Reinholdtsen
s/endservent/endnetent/
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=316517

getspnam.3
Lars Wirzenius / mtk
Replace mention of /etc/shadow by references
to
"shadow password database", and LDAP and NIS.
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=316117
mtk, Claus Weber
Miscellaneous wording improvements
Consistent DESCRIPTION wording vis-a-vis getpwnam.3 etc.

hsearch.3
Frederik Deweerdt

Fix hsearch_r() prototype

scanf.3
Justin Pryzby / mtk
Fix description of RETURN VALUE
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=317037
mtk
various parts substantially rewritten; added description of
%n$ form; various text incorporated from the GNU C library
documentation ((C) The Free Software Foundation).

shm_open.3
mtk
Modified details of how user and group ownership of a new
object are set.
Various minor wording and formatting cleanups.

elf.5
Mike Frysinger
tweaked the short description to include definition of 'ELF'
add ELFOSABI_NONE to the ELFOSABI_ list
tweak/add
more machines to EM_ list for ehdr->e_machine
fix indenting to be consistent
tweak the display of the ELF_ST_* macros
document the Elf_Dyn structure

proc.5
mtk
Updated discussion of /proc/stat.
Added text on the /proc/sys/fs/mqueue/* files.

ip.7
Steven Murdoch
Change protocol in UDP prototype.
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=182635

tcp.7
Dov Murik
The first sentence under NOTES about SO_KEEPALIVE and SIGPIPE
makes no grammatical sense (and possibly also no technical sense).
It has been removed.

========== Changes in man-pages-2.07 ==========

Released: 2005-07-19

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Andries Brouwer <Andries.Brouwer@cwi.nl>
Mike Frysinger <vapier@gentoo.org>

Apologies if I missed anyone!

Global changes

Various
 pages
  mtk
    The terms "set-user-ID" and "set-group-ID" are now used
    consistently (no abbreviations) across all manual pages.

Various pages
  mtk
    Consistent use of "saved set-user-ID" and "saved set-group-ID"
    (no more "saved user ID", "saved effective UID",
    saved group ID", etc.)

Various pages
  mtk
    Global fixes in textual descriptions:

      uid --> UID
      gid --> GID
      pid --> PID
      id --> ID

Various pages
  mtk
    Consistent use of st_atime, st_ctime, st_mtime, with
    explanatory text, instead of atime/ctime/mtime.

Various pages
  mtk
    Classical BSD versions are now always named x.yBSD (formerly
    there was a mix of x.yBSD and BSD x.y).

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages
---

setresuid.2
  mtk
    Some rewording.

stat.2
  Mike Frysinger
    Improve description
 of st_dev and st_rdev.
  mtk
    Various wording and formatting improvements.

truncate.2
  mtk
    Some formatting fixes

========== Changes in man-pages-2.08 ==========

Released: 2005-09-21

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes

Various pages
  mtk
    RFC references are now always written as "RFC\ nnn"
    (not "RFC nnn" or "RFCnnn").

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages
---

du.1
  Mike Frysinger
    To get an effect like "-h", BLOCKSIZE must start with "human",
    not "HUMAN".

time.1
  Mike Frysinger
    s/standard output/standard error/

clone.2
  Paul Brook / mtk
    Fix small error in description of CLONE_PARENT_SETTID

connect.2
  Heikki Orsila
    Add EINTR error
    See http://lkml.org/lkml/2005/7/12/254

getpriority.2
  mtk
    Expanded discussion of relationship between user and kernel
    representations of the
nice value.

    Added discussion of RLIMIT_NICE and a cross reference to

getrlimit.2 under the description of the EACCES error.

Noted 2.6.12 change in credentials checking for setpriority().

getrlimit.2
  mtk
    Added description of RLIMIT_RTPRIO

    Added description of RLIMIT_NICE

mmap.2
  mtk
    Noted bug in MAP_POPULATE for kernels before 2.6.7.

mremap.2
  mtk
    Added _GNU_SOURCE to prototype.
    Rewrote description of MREMAP_MAYMOVE.
    Rewrote description of EAGAIN error.
    Added discussion of resizing of memory locks.
    Added entries to SEE ALSO.
    Some formatting fixes.

msgctl.2
  mtk
    Added IPC_INFO, MSG_INFO, MSG_STAT descriptions.

nanosleep.2
  Baurzhan Ismagulov
    Add to prototype: define _POSIX_C_SOURCE 199309
    As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=314435

nice.2
  mtk
    Added sentence noting that range of the nice value is described

 in getpriority.2.
    Added cross-reference to setrlimit(2) for discussion on
    RLIMIT_NICE.

outb.2
  David N. Welton / Justin Pryzby / mtk
    Clarified the order of value and port arguments;
    As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=263756

pause.2
  mtk
    Added SEE ALSO for sigsuspend.2

Some formatting fixes.

poll.2
Tommy Pettersson
nfds should be prototyped as nfds_t
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=322934

mtk
Some wording and formatting improvements.

prctl.2
mtk
Since kernel 2.6.13 PR_SET_DUMPABLE can also have the value 2.

rand.3
Hrvoje Niksic / mtk
Remove misleading text describing FreeBSD's sranddev() function.
As per debian bug 328629

readv.2
mtk / Walter harms
Added LINUX NOTES on trickery performed by glibc when
vector size exceeds IOV_MAX.

Formatting clean-ups.

remap_file_pages.2
mtk
Added
text to note that start and size are both rounded downward.

sched_setparam.2
mtk
Modified discussion of privileges; added pointer to
sched_setscheduler.2 for a discussion of privileges and
resource limits.

sched_setscheduler.2
mtk
Modified discussion of privileges; added discussion of RLIMIT_RTPRIO.

semctl.2
mtk
Added IPC_INFO, SEM_INFO, SEM_STAT descriptions.

shmctl.2
mtk
Added IPC_INFO, SHM_INFO, SHM_STAT descriptions.

sigaction.2
  mtk
    Split sigpending(), sigprocmask(), and sigsuspend() out
    into separate new pages.

    Other minor changes

  mtk
    NOTES: described SA_NODEFER / sa_mask bug which was present in
        all kernels up to and including 2.6.13.
    See http://marc.theaimsgroup.com/?l=linux-kernel&m=112360948603171&w=2
    and http://marc.theaimsgroup.com/?l=linux-kernel&m=112362164911432&w=2
    List: linux-kernel
    Subject: Signal handling
 possibly wrong
    From: Bodo Stroesser
    Date: 2005-08-09 17:44:06

signal.2
  mtk
    Updated SEE ALSO to reflect splitting of sigaction.2 into
    sigaction.2, sigsuspend.2, sigpending.2, sigprocmask.2

sigpending.2
  mtk
    New page created by splitting out from sigaction.2
    Changed CONFORMING TO.

sigprocmask.2
  mtk
    New page created by splitting out from sigaction.2
    Added text on effect of NULL for 'set' argument.
    Added text noting effect of ignoring SIGBUS, SIGFPE, SIGILL,
        and SIGSEGV.
    Noted that sigprocmask() can't be used in multithreaded process.
    Fixed EINVAL error diagnostic.
    Changed CONFORMING TO.

sigsuspend.2
  mtk
    New page created by splitting out from sigaction.2
    Added NOTES on usage.
    Added new text to DESCRIPTION.
    Changed CONFORMING TO.

stat.2
  Mike Frysinger

Improve st_blocks description.

carg.3
Ramiro
Aceves / aeb
Change:
One has carg(z) = atan(creal(z) / cimag(z))
to:
One has tan(carg(z)) = cimag(z) / creal(z)

As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=326720

cmsg.3
mtk
s/SOL_TCP/IPPROTO_TCP/ (POSIX standard name)

dlopen.3
Alain Portal
s/-nostartupfiles/-nostartfiles/

getaddrinfo.3
mtk
Nowadays (since 2.3.4) glibc only sets the first ai_canonname
field if AI_CANONNAME was specified (the current behavior
is all that SUSv3 requires).

1,$s/PF_/AF_/g

Added descriptions of AI_ALL, AI_ADDRCONFIG, AI_V4MAPPED,
and AI_NUMERICSERV.

Some wording and formatting fixes.

getpwnam.3
Bernhard R. Link / mtk
Add NOTES text describing relationship of pw_dir and HOME and
pointing out that applications should preferentially inspect HOME.

inet.3
Mike Frysinger
Mention "little endian" and "big endian".

Added note about octal and hex interpretation of
numbers-and-dots notation.

rpc.3
mtk / Ludovic Courtes
Commented out references to rpc_secure(3) -- we don't currently

have such a page in the man-pages set.
In response to http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=325115

setenv.3
mtk
glibc 2.3.4 fixed the "name contains '='" bug.

strnlen.3
Mike Frysinger
Added "#define _GNU_SOURCE" to prototype.

initrd.4
Norbert Buchmuller / mtk
Added text noting that the use or real-root-dev for changing
the root device is obsolete, in favor of pivot root.
(However, the page still needs to be rewritten to actually
describe the pivot_root method...)
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=323621

proc.5
mtk
Improve text describing /proc/sys/fs/mqueue/* files.

Describe /proc/sys/fs/suid_dumpable (new in 2.6.13).

Added placeholder mention
of /proc/zoneinfo (new in 2.6.13).
More needs to be said about this file.

Repaired earlier cut and paste mistake which resulted
in part of the text of this page being duplicated.

utmp.5
Mike Frysinger
Added text on biarch details for ut_session and ut_tv.

capabilities.7
mtk
Added CAP_AUDIT_CONTROL and CAP_AUDIT_WRITE.

ip.7
mtk / Andrew Pimlott
Add a couple of words to make it clear that port is a 16-bit number.
Reformat long source lines (no text changed).

s/SOL_IP/IPPROTO_IP/ (POSIX standard name)

Hasso Tepper

Fix discussion of IPC_RECVTTL / IP_TTL.

signal.7
  mtk
    Updated SEE ALSO to reflect splitting of sigaction.2 into
    sigaction.2, sigsuspend.2, sigpending.2, sigprocmask.2.

socket.7
  mtk
    Clarified details of use of SO_PEERCRED.

tcp.7
  mtk
    s/SOL_TCP/IPPROTO_TCP/ (POSIX standard name)
    s/SOL_IP/IPPROTO_IP/ (POSIX
 standard name)

udp.7
  mtk
    Added description of UDP_CORK socket option.

    s/SOL_UDP/IPPROTO_UDP/ (POSIX standard name)
    s/SOL_IP/IPPROTO_IP/ (POSIX standard name)

========== Changes in man-pages-2.09 ==========

Released: 2005-10-13

Contributors

The following people contributed notes, ideas, or patches that have
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Tomas Pospisek <tpo_deb@sourcepole.ch>
Trond Myklebust <trond.myklebust@fys.uio.no>

Apologies if I missed anyone!

Global changes
---

ptsname.3
getpt.3

unlockpt.3
openpty.3
posix_openpt.3
grantpt.3
pts.4
tty_ioctl.4
  mtk
    Added SEE ALSO for new pty.7 page.

Typographical or grammatical errors have been corrected in several
places.

New pages
----

pty.7
  mtk
    Overview of Unix 98 and
 BSD pseudo-terminals.

Changes to individual pages
----

ldd.1
  mtk
    Remove "-V" option (fix from Fedora man-pages-2.07-7).

fcntl.2
  Peter Chubb / Trond Myklebust / mtk
    Since kernel 2.6.10, a read lease can only be placed on a
    file descriptor that is opened read-only.
    See the following LKML thread of Aug 2005
    ("fcntl(F GETLEASE) semantics??"):
    http://marc.theaimsgroup.com/?l=linux-kernel&m=112371777712197&w=2
    http://marc.theaimsgroup.com/?l=linux-kernel&m=112374818213000&w=2
    http://marc.theaimsgroup.com/?l=linux-kernel&m=112376335305284&w=2
    http://marc.theaimsgroup.com/?l=linux-kernel&m=112377294030092&w=2

mprotect.2
  mtk
    Add new text to ENOMEM error.

mremap.2
  mtk
    Added description of MREMAP_FIXED and 'new_address' argument
    under NOTES.

Revised text of EINVAL error.

read.2
  Samuel Thibault / mtk
    read() can fail with EINVAL when using
 O_DIRECT
  mtk
    Added open(2) to SEE ALSO.

shmget.2
  mtk
    s/int/size_t/ for type of 'size' argument (fix from
    Fedora man-pages-2.07-7).

write.2
  Samuel Thibault / mtk
    write() can fail with EINVAL when using O_DIRECT

atanh.3
  mtk
    Fix: s/acosh/atanh/ (fix from Fedora man-pages-2.07-7).

fopen.3
  mtk
    Improved "a+" description (fix from Fedora man-pages-2.07-7).

getrpcent.3
  mtk
    s/getrpcent/setrpcent/ (fix from Fedora man-pages-2.07-7).

stdio.3
  mtk / Justin Pryzby
    Removed references to fropen() and fwopen(), which are
    BSDisms that don't appear in glibc.
    As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=331174

strftime.3
  mtk
    Typo fix: %Ry ==> %Ey [SUSv3 mentions...] (fix from
    Fedora man-pages-2.07-7).

nsswitch.conf.5
  mtk
    s/network/networks/ (fix from Fedora man-pages-2.07-7).

proc.5
  mtk
    Added description of /proc/sys/vm/legacy_va_layout.

socket.7
  mtk
    Update description of SO_RCVLOWAT and SO_SNDLOWAT.
    (fix derived from Fedora man-pages-2.07-7).

========== Changes in man-pages-2.10 ==========

Released: 2005-10-19

Global changes

The changes in this release consist *solely* of formatting fixes, with
the aim bringing greater consistency to the manual pages according to
the following rules:

-- Function name references should *always* be followed by
  parentheses, "()" (possibly containing a manual page section
  number).

-- The parentheses following a function name should *not* be
  formatted. Thus, for example, instead of:

      .B name()

  one should write:

      .BR name ()

Much of the change was automated using two scripts:
add_parens_for_own_funcs.sh and unformat_parens.sh.
For the (possible) benefit of downstream manual page maintainers and
translators, I have placed these scripts in a new subdirectory 'scripts'.

NOTE THE FOLLOWING POINTS WELL:

--
 These scripts provide a computer-assisted solution to the above
  two goals. However, they are not perfect, and their output should
  be scanned by a human. (To see what changes the two scripts
  would make, without making them, use the "-n" command line option.)

-- The scripts do not fix all instances that violate the above rules:
  some manual fixes are required. Two further scripts are provided
  to help find remaining instances of function names without
  following "()": find_dots_no_parens.sh and find_slashes_no_parens.sh.

The following changes were made:

-- add_parens_for_own_funcs.sh was applied to the pages in Sections
  2 and 3.

-- unformat_parens.sh was applied to pages in Sections 2, 3, 4, and 7
  (the only sections where such changes were required).

-- further changes (not so very many) were performed by hand.
  (found places to fix with the assistance of find_dots_no_parens.sh
  and find_slashes_no_parens.sh).

========== Changes in man-pages-2.11
 ==========

Released: 2005-10-24

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Alain PORTAL <aportal@univ-montp2.fr>

Apologies if I missed anyone!

Global changes

Various pages
  mtk
    Most instances of the constant "NULL" are not formatted (bolded) in
    man pages, but a few are. For consistency, formatting on "NULL" has
    been removed where it occurred.

    Many minor formatting fixes were made.

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages
---

getrlimit.2

mtk
Added EINVAL error for rlim_cur > rlim_max when calling setrlimit().

path_resolution.2
mtk
Repaired discussion of capabilities and file system UID, which
mistakenly had involved exec() in the discussion.

prctl.2
mtk
Removed text saying there
is no library interface. There
is nowadays.

mkfifo.3
mtk
Minor change to RETURN VALUE text.

sk98lin.4
Alain Portal
Formatting fixes.

capabilities.7
mtk
Minor changes.

========== Changes in man-pages-2.12 ==========

Released: 2005-10-31

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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herbert <herbert@gondor.apana.org.au>
Martin Landers <martin.landers@treibgut.net>
Michael Benedict <benedict@starbak.net>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages
---

mlock.2
  mtk
    Reworded text around PAGESIZE, noting also that
    sysconf(_SC_PAGESIZE)
 can be used.

path_resolution.2
  mtk / aeb
    Removed words "as well" (added in 2.11) from the phrase
    "and it gets these last five capabilities if its fsuid is 0 as well"
    since there are (unusual) situations in which fsuid can be 0 while
    the effective UID is not.

    Reworked (cut down) discussion of capabilities, moving part of
    it into capabilities.7

setresuid.2
  mtk
    Add text to note that setresuid() always modifies the file
    system UID, and setresgid() likewise always modifies the file
    system GID.

shmget.2
  mtk
    Added (brief) description of SHM_HUGETLB.

sigaltstack.2
  mtk / Martin Landers
    Noted that ss_sp is automatically aligned by the kernel.

byteorder.3
  Brian M. Carlson / herbert
    Change <netinet/in.h> to <arpa/inet.h> in prototype; add text
    explaining that some systems need the former header.
    As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=265244

capabilities.7
   mtk
    Reworked part of the discussion of exec() and capabilities.
    Added sub-section "Effect of User ID Changes on Capabilities".

Reworked discussion of CAP_SYS_ADMIN and file-max.

========== Changes in man-pages-2.13 ==========

Released: 2005-11-03

This release consists entirely of formatting and typographical fixes.

Global changes

Typographical or grammatical errors have been corrected in several
places.

Various pages
  mtk
    Function and page cross references that were italicized were
    made bold (which is how the majority of function and page
    cross references were already done).

Various pages
  mtk
    Instances of things like "NULL-terminated string" were changed to
    "null-terminated string".

Various pages
  mtk
    Pathnames, structures, arguments, and <header-files> that were
    bold were changed to italics.

Various pages
  mtk
    Instances
 of the constant "NULL" that were bold-faced were made
    unformatted (which is how most instances of "NULL" were already
    formatted.)

========== Changes in man-pages-2.14 ==========

Released: 2005-11-17

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

New pages
---

rexec.3
  mtk / Justin Pryzby
    This page is taken as is from the FreeBSD 5.4 distribution.
    (Not checked against Linux reality, but likely things are
    the same.)
    See also http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=336875

Changes
 to individual pages
---

arch_prctl.2
  mtk
    Updated discussion about lack of prototype in glibc.

execve.2
  mtk
    Improved description of E2BIG error: it relates to the sum
    of the bytes in both environment and argument list.

fcntl.2
  mtk
    Clarified parts of the discussion of file leases,
    noting effect of open(O_NONBLOCK), interruption
    by signal handler, or termination by signal in
    lease breaker. In response to
    http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=339037

stat.2

mtk / Stefan Brüns
Added LINUX NOTES describing nanosecond timestamps.

frexp.3
Volker Reichelt / mtk
Fixed to point out that frexp() returns a number whose
absolute value is >= 0.5 and < 1. Amended the example
program to demonstrate this.

open.2
mtk / Avery Pennarun
Add EWOULDBLOCK error for file leases.

In response to
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=339037

putenv.3
mtk
Although the glibc implementation returns -1 on error (and some
other man pages (e.g., the BSDs) also document that value for
error returns), SUSv3 merely says "non-zero" (and this is
what manual pages on many implementations also say).

posix_memalign.3
mtk
Formerly, the page said that all systems declare memalign() in
<malloc.h>. In fact, many declare it in <stdlib.h>.

strtok.3
mtk
Almost a complete rewrite after Angelo pointed out
that the existing page was deficient.

sd.4
Martin Schulze
Remove SEE ALSO for nonexistent scsi.4.

proc.5
mtk
Updated discussion of /proc/sys/kernel/pid_max.

signal.7
mtk
Added pthreads.7 to SEE ALSO.

ld.so.8
mtk
Fix typo: s/LD_DEBUG_OUTPUT/LD_PROFILE_OUTPUT/

========== Changes in man-pages-2.15 ==========

Released:
 2005-11-30

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Senthil Kumar <senthilkumar_sen@hotpop.com>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

New pages
---

sigvec.3 -- for details, see below.

sigset.3 -- for details, see below.

Changes to individual pages
---

kill.2
  mtk
    Added text describing the 2.6.[0-7] EPERM bug that occurred
    when sending signals to a process group.

sigaction.2
  mtk
    Noted that si_signo is unused on Linux.

sigpending.2
  mtk
    Added BUGS noting wrapper function problem that existed

in glibc versions <= 2.2.1.

sigpause.2
  mtk
    Moved to section 3; see also sigpause.3 below.

sigsetops.3
   mtk
    Added a GLIBC NOTES section describing sigisemptyset(),
    sigandset(), and sigorset().

sigvec.2
sigblock.2
  mtk
    These pages have been deleted, and replaced by a new sigvec.3
    man page that more fully describes the BSD signal API.

siggetmask.2
sigmask.2
sigsetmask.2
  mtk
    These links to the now-deleted sigblock.2 have been also been
    deleted. They are replaced by corresponding links in Section 3:
    sigmask.3, sigsetmask.3, siggetmask.3.

sigvec.3
  mtk
    This new page is provides a fuller description of the
    BSD signal API than was provided in the now-deleted sigvec.2
    and sigblock.2.

sigblock.3
siggetmask.3
sigmask.3
sigsetmask.3
  mtk
    Created as links to sigvec.3.

sigpause.3
  mtk
    Moved here from Section 2.

    Some minor wording fixes; clarified System V origins of
    X/Open flavor of this function.

sigset.3
  mtk
    New page describing the System

V signal API: sigset(), sighold(),
sigrelse(), sigignore().

strftime.3
James Vega
Add further text clarifying that %+ specifier is not supported in
glibc2.
mtk
Added GLIBC NOTES section describing optional 'flag' and 'width'
components of conversion specifiers.
Some wording changes to bring terminology closer to SUSv3.
Added an example program.

vm86old.2
mtk / aeb
Add as new link to vm86.2.

intro.7
mtk
Added a few words to reflect the fact that several of the section
7 pages provide overviews of various topics.

signal.7
mtk
Added some SEE ALSO entries.

socket.7
Senthil Kumar / mtk
Added text noting that select()/poll() do not respect SO_RCVLOWAT.

udp.7
Malcolm Scott
s/tcp_socket/udp_socket/ in example
Fixes http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=340927

========== Changes in man-pages-2.16 ==========

Released:
2005-12-02

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Urs Thuermann <urs@isnogud.escape.de>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages

HOWTOHELP
  Urs Thuermann
    Added instructions for finding maintainer in Debian package.

poll.2
  mtk
    Added NOTES about INFTIM constant provided on some other
    implementations.

shmop.2
  Alan Stern
    The -1 error return of shmat() should be cast "(void *)".

strftime.3
  aeb
    Remove junk text (actually intended as source code comment
    in page).

ip.7
  Urs Thuermann
    Fix a typo: s/SOCK_RAW/SOCK_PACKET/

packet.7
  Urs Thuermann
    Clarification: s%SOCK_PACKET%PF_INET/SOCK_PACKET%

==========
 Changes in man-pages-2.17 ==========

Released: 2005-12-13

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Justin Pryzby <justinpryzby@users.sourceforge.net>
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Urs Thuermann <urs@isnogud.escape.de>
Walter Harms <walter.harms@informatik.uni-oldenburg.de>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

New pages
---

fmemopen.3
  Walter Harms / mtk
    New documentation for the glibc-specific fmemopen() and
    open_memstream(). Based on glibc info page.

pipe.7
  mtk (with prompting and suggestions for improvements by
  Michael Haardt)
    New page providing overview of pipes and FIFOs.

Changes to individual pages

HOWTOHELP
  mtk
    Added notes on how to
 write example programs for manual pages.

fork.2
  mtk
    Added pointers to examples of fork() in wait.2 and pipe.2.

pipe.2
  mtk

Added an example program.
Added SEE ALSO for new pipe.7 page.

wait.2
mtk
Added example program demonstrating use of fork() and waitpid().

carg.3
Justin Pryzby
Delete line that should have been deleted when applying
2.08 fix for this page.

getaddrinfo.3
mtk
Rearranged EAI_* list alphabetically.

inet.3
mtk
Added GLIBC NOTES describing feature test macros required
to expose declaration of inet_aton().

open_memstream.3
mtk
New link to new fmemopen.3.

fifo.4
mtk
Added SEE ALSO for new pipe.7 page.

environ.5
mtk
Removed BROWSER, since it seems not in fact to be common.

socket.7
Urs Thuermann
Added documentation of SO_TIMESTAMP.

tcp.7
mtk
Noted 200 millisecond ceiling imposed on TCP_CORK.

udp.7
mtk

Rearranged options into something approximating alphabetical order.

========== Changes in man-pages-2.18 ==========

Released: 2005-12-15

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Mike Frysinger <vapier@gentoo.org>
Stefan Puiu <stefanpuiuro@yahoo.com>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages
---

bind.2
  mtk
    Added mention of AF_INET6 address family.
    Added discussion of sockaddr structure and an example in the
    Unix domain.

recv.2
  mtk
    Put 'flags' list in alphabetical order.

send.2
  mtk
    Added cross-reference from discussion
 of MSG_MORE to UDP_CORK
    in udp(7).

    Put 'flags' list in alphabetical order.

err.3
  mtk

Added CONFORMING TO section noting that these are
non-standard BSDisms.

errno.3
Justin Pryzby
Added SEE ALSO for err.3.
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=306867

gethostbyname.3
Martin (Joey) Schulze / mtk
Added references to nsswitch.conf(5); remove cross references
to resolv+(8).
See also http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=308397

perror.3
Justin Pryzby
Added SEE ALSO for err.3 .
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=306867

resolver.3
mtk / Martin (Joey) Schulze
Remove cross references to resolv+(8); add cross references to
resolv.conf(5).
See also http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=214892

Added SEE ALSO entry for resolver(5);
see http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=251122

strerror.3
mtk / Stefan Puiu
Rewrote and extended the discussion of the two flavors of
strerror_r(), and added some additional information on
strerror().
Justin Pryzby
Added SEE ALSO for err.3, as per
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=306867

elf.5
Mike Frysinger
Fix three typos in identifier names.

operator.7
Karsten Sperling
The + operator should be in the list of unary operators.

raw.7
mtk

Small wording changes around discussion of SO_BSDCOMPAT.
Fixed a couple of wording errors elsewhere.
Reformatted some long lines.

socket.7
  mtk, after a note by Stefan Puiu
Updated discussion of SO_BSDCOMPAT.

Reformatted some long lines.

Noted the Linux-specific feature whereby setsockopt() doubles
the value given for SO_SNDBUF and SO_RCVBUF.

Noted kernel-imposed minimum values for SO_SNDBUF and SO_RCVBUF.

udp.7
  mtk, after a note by
 Stefan Puiu
Updated discussion of SO_BSDCOMPAT.

unix.7
  mtk
Added new (UN)SUPPORTED FEATURES section in which it is noted
that Unix domain sockets do not support MSG_OOB or MSG_MORE.

Noted details of SO_SNBUF and SO_RCVBUF support for
Unix domain sockets.

========== Changes in man-pages-2.19 ==========

Released: 2005-12-23

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Stefan Puiu <stefanpuiuro@yahoo.com>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages

HOWTOHELP
  mtk
    Minor changes.

bind.2
  Stefan Puiu / mtk
    Remove text under EINVAL error: "This may change in the
 future:
    see linux/unix/sock.c for details." This behavior has been
    unchanged for a long time, and seems unlikely to change.

    Add EADDRINUSE to errors.

send.2
  aeb
    Add cmsg(3) to SEE ALSO.

fopen.3
  Walter Harms / mtk
    Added description of 'x' mode character (exclusive open).

pipe.7
  mtk / aeb
    Some wording changes to description of pipes.

========== Changes in man-pages-2.20 ==========

Released: 2006-01-03

Global changes

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages
---

sigaltstack.2
  mtk
    Added some text to explain the usual scenario in which
    sigaltstack() is employed.

getloadavg.3
  mtk
    Noted that this function is available since glibc 2.2.

strcpy.3
  mtk
    s/nulls/null bytes/

capabilities.7
  mtk
    Noted that capability bounding set appeared with kernel 2.2.11.

arp.7
icmp.7
ip.7
ipv6.7
netdevice.7
packet.7
raw.7
rtnetlink.7
socket.7
tcp.7
unix.7
udp.7
   mtk
    The only changes to these pages have been for formatting:
      -- Structure definitions were changed to K&R style
      -- Some long source lines were broken to fit into ~70
        character lines.
    No changes were made to the content of these pages (yet...).

========== Changes in man-pages-2.21 ==========

Released: 2006-01-16

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Senthil Kumar <senthilkumar_sen@hotpop.com>
Stefan Puiu <stefanpuiuro@yahoo.com>

Apologies if I missed anyone!

Global changes
---

dd.1 cp.1
truncate.2 gethostname.2 lseek.2 listxattr.2 readlink.2
sysfs.2 stat.2 ustat.2 uname.2 getdomainname.2
argz_add.3
asprintf.3 confstr.3 bstring.3 bzero.3 dlopen.3 fwide.3
gethostbyname.3 getline.3 getlogin.3 getnameinfo.3 getpass.3 hsearch.3
perror.3 printf.3 readdir.3 scanf.3 stpcpy.3 strdup.3 strfmon.3
strftime.3 string.3 strptime.3 sysconf.3 termios.3 ttyname.3
dsp56k.4 tty_ioctl.4
elf.5 proc.5 termcap.5
charsets.7 unix.7
mtk
Various pages use inconsistent terms for 'null byte' (which
is the C99/SUSv3 term for the '\0' character).

To rectify this the following changes were made in the above
pages:

Replace 'zero byte' with 'null byte'.
Replace 'null character' with 'null byte'.
Replace 'nulls' with 'null bytes'.
Replace 'NUL-terminated' by 'null-terminated'.
Replace 'NUL' by 'null byte'.
Replace 'terminating NUL' by 'terminating null byte'.
Replace 'final NUL' by 'terminating null byte'.
Replace 'NUL character' by 'null byte'.

Various pages
mtk
Replace "SysV"/"SYSV" by "System V".

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages
---

capget.2
  mtk
    Noted bug that could wrongly cause EPERM in unprivileged
    capset() with 'pid' field == getpid().

epoll_ctl.2
  mtk
    Noted that EPOLLONESHOT was added in 2.6.2.

gethostname.2
  mtk
    Added GLIBC NOTES describing operation of glibc's
    gethostname() wrapper function.

mmap.2
  mtk / Mike Frysinger
    Clarify relationship between mmap2(2) and mmap64(3).
  mtk
    A few other small rewordings.

mmap64.3
  Mike Frysinger
    New link to mmap.2.

open.2
  mtk
    Added BUG noting that O_ASYNC can't be enabled via
    open(): fcntl() must be used for this purpose.

recv.2
  Stefan Puiu
    Relocate misplaced discussion of MSG_DONTWAIT.

dlopen.3
  mtk
    Rewrote discussion of dlopen() 'flag' argument;
    added descriptions
 of RTLD_NOLOAD, RTLD_DELETE,
    and RTLD_DEEPBIND.

    Noted use of atexit() to register a function that is
    automatically called when a library is unloaded.

fmemopen.3
  mtk
    Rewrote substantial parts of the page, and relicensed under GPL.

fseeko.3
  Mike Frysinger
    Add RETURN VALUE section.

getopt.3
  mtk
    Noted historical use of <stdio.h> to declare getopt().

qsort.3
  mtk / Falk Hueffner
    Clarify how strcmp() should be used as the 'compar'
    function by providing an example.
    As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=348072

proc.5
  mtk
    Noted that /proc/mounts is pollable since kernel 2.6.15.

    Documented /proc/PID/task.

    Noted that the contents of /proc/PID/{cwd,exe,fd,root,task}
    are not available if the main thread has terminated.

  Senthil Kumar
    Add pointer to random(4) for description of files under
    /proc/sys/kernel/random.

udp.7
   Stefan Puiu / mtk
    Small rewording of discussion of SO_BSDCOMPAT
    (add cross-ref to socket(7)).

========== Changes in man-pages-2.22 ==========

Released: 2006-02-02

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Walter Harms <walter.harms@informatik.uni-oldenburg.de>

Global changes

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages
---

mmap.2
  aeb / mtk
    Noted that portable applications should specify fd as -1
    when using MAP_ANONYMOUS.
    Some rewriting of description of MAP_ANONYMOUS.

rt_sigreturn.2
   Thorsten Kukuk
    New link to sigreturn.2.

rt_sigsuspend.2
  mtk
    New link to sigsuspend.2.

waitid.2
  mtk
    Noted that waitid() does not set infop->si_uid field on
    most other implementations.

getopt.3
  Walter harms / mtk
    Make clear that when calling getopt_long() and there are no
    short options, then 'optstring' should be "", not NULL.

openpty.3
  Thomas Hood / mtk
    In glibc 2.0.92, openpty() was modified to preferably open
    Unix 98 ptys instead of BSD ptys.

qsort.3
  mtk
    Small rewording under EXAMPLES.

strtol.3

strtoul.3
  Stefan Puiu
    s/string must begin/string may begin/

proc.5
  mtk
    Documented inotify files under /proc/sys/fs/inotify:
    max_queued_events, max_user_instances, and max_user_watches.

========== Changes in man-pages-2.23 ==========

Released: 2006-02-10

Contributors

The following people contributed notes, ideas, or
 patches that have
been incorporated in changes in this release:

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Robert Love <rlove@rlove.org>
Samuel Thibault <samuel.thibault@ens-lyon.org>
Urs Thuermann <urs@isnogud.escape.de>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

New pages
----

inotify_init.2
inotify_add_watch.2
inotify_rm_watch.2

Robert Love, with some additions by mtk.
New pages describing the inotify API.

mbind.2
get_mempolicy.2
set_mempolicy.2
Andi Kleen, with additional work by mtk
New pages describing the NUMA memory allocation policy API.
Drawn from the set at ftp://ftp.suse.com/pub/people/ak/numa.

rtc.4
Urs Thuermann, with additional work by mtk
New page describing the real-time clock driver.

inotify.7
mtk
Overview of the inotify API.

Changes to individual pages
---

clone.2
Andi Kleen
On x86, clone() should not be called through vsyscall,
but directly through "int $0x80".

fcntl.2
mtk
Small wording changes.

Added cross-ref to inotify.7 under the description of dnotify.

kill.2
mtk / Britton Leo Kerin
Small wording change under NOTES to clarify
what happens when a process sends a signal to itself.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=350236

mlock.2
mtk / Matthias Andree
Added BUGS txt on interaction between MCL_FUTURE and
RLIMIT_MEMLOCK.
See the following LKML thread:
http://marc.theaimsgroup.com/?l=linux-kernel&m=113801392825023&w=2
"Rationale for RLIMIT_MEMLOCK"

msgop.2
mtk / Samuel

Thibault
Rewrote declaration of 'msgp' to be "void *" in response
to http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=350884
Various other wording fixes.

open.2
mtk
Clarify distinction between "file creation flags" and
"file status flags".

read.2
Justin Pryzby
Add SEE ALSO for pread(2).
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=351873

sched_setaffinity.2
mtk
Major rewrite.

select.2
mtk
Added return types to prototypes for FD_SET(), FD_CLR(),
FD_ZERO, and FD_ISSET().
Other minor wording changes.

read.2
mtk
Add SEE ALSO for pwrite(2).
(Analogous with read.2 change above.)

errno.3
Kurt Wall / mtk
Add Linux specific errors to this page.

localeconv.3
mtk
Added cross-ref to locale.7 for 'struct lconv' defn.
Other minor wording changes.
Martin (Joey) Schulze
Added SEE ALSO refs for nl_langinfo.3

As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=351831

scanf.3
mtk / Justin Pryzby
Minor formatting & wording fixes.

setlocale.3

Martin (Joey) Schulze
Added SEE ALSO refs for nl_langinfo.3
As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=351831

proc.5
mtk
Migrated description of inotify files to the new inotify.7 page.

ascii.7
Dan Jacobson / mtk
Add text describing characters 001 to 037.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=342173

locale.7
mtk
Minor wording and formatting changes.

========== Changes in man-pages-2.24 ==========

Released: 2006-02-17

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Mike Frysinger <vapier@gentoo.org>
Samuel Thibault <samuel.thibault@ens-lyon.org>

Apologies
if I missed anyone!

New pages
---

get_kernel_syms.2
create_module.2
delete_module.2
init_module.2
query_module.2
FSF / mtk (with assistance of Luc Van Oostenryck)
man-pages finally gets pages for these system calls, several
of which are obsolete in Linux 2.6.

Took the old GPLed pages dated 1996 and made a number of
clean-ups and minor additions.

Global changes
---

various pages
  mtk
    Change "file name" to "filename"
    Change "path name" to "pathname"

stpncpy.3
strstr.3
strcmp.3
toupper.3
strlen.3
stpcpy.3
puts.3
strdup.3
strtok.3
isalpha.3
strspn.3
gets.3
strpbrk.3
  mtk after a suggestion from Samuel Thibault
    Added SEE ALSO pointers to wide character equivalent functions
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=351996

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages
---

clone.2
  mtk

   Remove duplicate CLONE_STOPPED text.
    Commented out crufty text describing EINVAL error
    for the now obsolete CLONE_DETACHED flag.
    Under CLONE_SIGHAND, noted that 'flags' must also include
    CLONE_VM if CLONE_SIGHAND is specified.

fcntl.2
  mtk
    Under ERRORS: Separate out EAGAIN error for locking mmaped files.

inotify_add_watch.2
  mtk
    Minor wording fix.

msgop.2
  mtk
    Documented the EAGAIN error for msgrcv().

fnmatch.3
  Mike Frysinger / mtk
    Expand explanation of FNM_PATHNAME.

lockf.3
  Joerg Habenicht / mtk
    Fix up discussion of EAGAIN/EACCESS errors.

========== Changes in man-pages-2.25 ==========

Released: 2006-03-02

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Michael
 Haardt <michael@moria.de>
Michael Wronksi <michal.wronski@gmail.com>

Apologies if I missed anyone!

New pages
---

mq_close.3
mq_getattr.3
mq_notify.3
mq_open.3
mq_receive.3
mq_send.3
mq_unlink.3

mtk
New pages describing POSIX message queue API.

posix_fallocate.3
mtk, after a suggestion by James Peach
New page describing posix_fallocate().

mq_overview.7
mtk
New page giving overview of the POSIX message queue API.

Changes to individual pages
---

lseek.2
Michael Haardt
Add a case to the EINVAL error text.
mtk
Various minor wording fixes
Added SEE ALSO referring to new posix_fallocate.3.

posix_fadvise.2
mtk
Added "#define _XOPEN_SOURCE 600" to prototype.
Added SEE ALSO referring to new posix_fallocate.3.

proc.5
mtk
Migrated information on POSIX message queues to new mqueue.7 page.

inotify.7
Marten von Gagern
Fix thinko: s/assuming a
non-blocking/assuming a blocking/

========== Changes in man-pages-2.26 ==========

Released: 2006-03-21

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Steve Beattie <sbeattie@suse.de>
Walter Harms <walter.harms@informatik.uni-oldenburg.de>

Apologies if I missed anyone!

Global changes
---

clone.2
getdents.2
gettid.2
llseek.2
mmap2.2
modify_ldt.2
pivot_root.2
quotactl.2
readdir.2
sysctl.2
syslog.2
tkill.2
  mtk, aeb, Steve Beattie
      Added comment in SYNOPSIS to note that syscall(2)
 may be
      preferable over _syscallN (see intro(2)).

Various minor formatting changes were done on a range of
pages in Section 7. (No content was changed.)

New pages
---

openat.2
  mtk
      New page describing openat(2), added in kernel 2.6.16,
      and some notes on rationale for the at*(2) system calls.

mbind.2
  Andi Kleen, Christoph Lameter, mtk
      Added MPOL_MF_MOVE and MPOL_MF_MOVE_ALL descriptions,

from numactl-0.9.2 man page.
Plus a few other smaller fixes.

fexecve.3
mtk
New page describing fexecve(3).

futimes.3
mtk
New page describing futimes(3).

Changes to individual pages
---

execve.2
mtk
Added SEE ALSO pointing to new fexecve.3.

intro.2
mtk, aeb, Steve Beattie
Added some notes on syscall(2) versus _syscall.

msgctl.2
msgget.2
msgop.2
mtk
Added SEE ALSO pointing to mq_overview.7.

open.2
mtk
Added SEE ALSO pointing to new
openat.2.

Split out part of the RETURN VALUE text into separate
NOTES section.

Modified wording referring to raw(8) to
indicate that this interface is deprecated.

poll.2
mtk
Added discussion of ppoll(2), which is new in 2.6.16.

ppoll.2
mtk
New link to poll.2.

recvmsg.2

sendmsg.2
  mtk / Paul Brook
    Added text to note that although POSIX says msg_controllen
    should be socklen_t, glibc actually uses size_t.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=356502
    and the associated glibc bug report.
    http://sourceware.org/bugzilla/show_bug.cgi?id=2448
  mtk
    Various formatting fixes.

select.2
  mtk
    Updated to reflect the fact that pselect() has been implemented
    in the kernel in 2.6.16; various other minor wording changes.

    pselect() prototype needs "#define _XOPEN_SOURCE 600".

tempnam.3
  Justin Pryzby
    Clean up description of EEXIST error.
     http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=357893

unlink.2
  mtk
    Added a little extra text to clarify EISDIR vs EPERM.

utime.2
  mtk
    Added new SEE ALSO entry pointing to new futimes.3 page.

exec.3
  mtk
    Added SEE ALSO pointing to new fexecve.3.

shm_unlink.3
  mtk
    New link to shm_open.3 (should have been made when page
    was originally written).

swab.3
  Walter Harms
    Add needed "#define _XOPEN_SOURCE".

undocumented.3
  mtk
    Updated to remove a few function names that are now documented.

capabilities.7

mtk
Various changes to bring this page closer to
current kernel versions.

inotify.7
mtk
Noted that glibc 2.4 is required to get glibc support
for inotify.

mq_overview.7
mtk
Some rewording and added a few words about System V
message queues.

netlink.7
Hasso Tepper
Substantial updates to various parts of this page.
mtk, Alain Portal
Minor fixes

pthreads.7
mtk
Updated to reflect that the NPTL limitation that only the main
thread could call setsid() and setpgid() was removed in 2.6.16.

raw.7
Hasso Tepper
Removed text implying that only in kernel 2.2 does IP_HDRINCL
prevent datagrams from being fragmented.

socket.7
mtk
Documented SO_SNDBUFFORCE and SO_RCVBUFFORCE socket options,
new in 2.6.14.

Placed socket options in alphabetical order.

========== Changes in man-pages-2.27 ==========

Released: 2006-03-24

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Stefan Puiu <stefanpuiuro@yahoo.com>

Apologies if I missed anyone!

Global changes
---

man7/*
  mtk
    Various minor formatting changes were done on a range of
    pages in Section 7. (No content was changed.)

New pages
---

unshare.2
  mtk, with reference to documentation by Janak Desai
    New page describing unshare(2), added in kernel 2.6.16.

Changes to individual pages
---

clone.2
fork.2
vfork.2
  mtk
    Added SEE ALSO pointing to new unshare.2.

mbind.2
  Christoph Lameter
    MPOL_MF_MOVE_ALL requires CAP_SYS_NICE not CAP_SYS_RESOURCE.

mremap.2
  mtk
    Clarified the description of MREMAP_FIXED and restructured

the text to reflect the fact that this flag is exposed
by glibc since version 2.4.

ptrace.2
Chuck Ebbert, with assistance from Daniel Jacobowitz,
Paolo (Blaisorblade) Giarrusso,
and Charles P. Wright;
after a suggestion from Heiko Carstens.
Document the following ptrace requests:
PTRACE_SETOPTIONS (2.4.6)
plus associated flags:
PTRACE_O_TRACESYSGOOD (2.4.6)
PTRACE_O_TRACEFORK (2.5.46)
PTRACE_O_TRACEVFORK (2.5.46)
PTRACE_O_TRACECLONE (2.5.46)
PTRACE_O_TRACEEXEC (2.5.46)
PTRACE_O_TRACEVFORKDONE (2.5.60)
PTRACE_O_TRACEEXIT (2.5.60)
PTRACE_SETSIGINFO (2.3.99-pre6)
PTRACE_GETSIGINFO (2.3.99-pre6)
PTRACE_GETEVENTMSG (2.5.46)
PTRACE_SYSEMU (since Linux 2.6.14)
PTRACE_SYSEMU_SINGLESTEP (since Linux 2.6.14)

sched_get_priority_max.2
sched_setscheduler.2
sched_setparam.2
mtk, Ingo Molnar
Modified to document SCHED_BATCH policy, new in kernel 2.6.16.

Text describing SCHED_BATCH was added to sched_setscheduler.2,

and was drawn in part from Ingo Molnar's description in the
mail message containing the patch that implemented this policy.

Various other minor rewordings and formatting fixes.

proc.5
mtk, using text from Documentation/filesystems/proc.txt
Document /proc/sys/vm/drop_caches, new in kernel 2.6.16.
mtk, using information from ChangeLog-2.6.14.
Document /proc/PID/smaps, new in kernel 2.6.14.

capabilities.7
mtk
Noted affect of CAP_SYS_NICE for mbind(MPOL_MF_MOVE_ALL).

pthreads.7

mtk
Kernel 2.6.16 eliminated buggy behavior with respect to
the alternate signal stack.

========== Changes in man-pages-2.28 ==========

Released: 2006-03-31

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Aleksandr Blokhin <sass@altlinux.ru>
Greg Johnson <gjohnson@lanl.gov>

Apologies if I missed anyone!

New pages
---

sem_post.3
sem_getvalue.3
sem_close.3
sem_open.3
sem_destroy.3
sem_wait.3
sem_unlink.3
sem_init.3
sem_overview.7
mtk
New pages describing the POSIX semaphores API.

These pages supersede and provide a superset of the information
in the glibc (3thr) "semaphores(3)" manual page.

Changes to individual pages
---

ppoll.2
Aleksandr Blokhin
Fix broken link.

ptrace.2

mtk
Wrapped long lines (no content changes).

semctl.2
semget.2
semop.2
mtk
Add SEE ALSO pointing to the new sem_overview.7 page.

elf.5
Greg Johnson
Removed SEE ALSO reference to nonexistent core(5).

========== Changes in man-pages-2.29 ==========

Released: 2006-04-06

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes
---

getrlimit.2
prctl.2
sigaction.2
elf.5
signal.7
mtk
Added SEE ALSO entry referring to new core.5 page.

New pages
---

mkdirat.2

  mtk
    New page describing mkdirat(2), new in 2.6.16.

mknodat.2
  mtk
    New page describing mknodat(2), new in 2.6.16.

core.5
  mtk
    New page describing core dump files.

mkfifoat.3
  mtk
    New page describing mkfifoat(3).

Changes to individual pages
---

accept.2
getpeername.2
getsockname.2
  Michael Haardt / mtk
    Document EINVAL error for 'len' argument < 0.

fcntl.2
  mtk
    Expanded discussion of mandatory locking.

getrlimit.2
  mtk
    Added BUGS text on 2.6.x handling of RLIMIT_CPU limit
    of zero seconds. See
    http://marc.theaimsgroup.com/?l=linux-kernel&m=112256338703880&w=2

mkdir.2
  mtk
    Added SEE ALSO entry referring to new mkdirat.2.

mknod.2
   mtk
    Added SEE ALSO entry referring to new mknodat.2.

open.2
  mtk / Roberto Jimenoca
    Clarified discussion of file types affected by O_NONBLOCK.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=360243

openat.2
  mtk
    Rewrote NOTES describing rationale for openat().
    Various other minor changes.

recv.2
  Stefan Puiu
    Removed a misleading cross-ref to socket.2.

shmop.2
  mtk
    Since 2.6.17-rc1, shmdt() gives the error EINVAL in a further
    circumstance: if shmaddr is not aligned on a page boundary.

unshare.2
  mtk
    Remove text saying that specifying invalid flags "is likely
    to cause compatibility problems" since the kernel now
    (2.6.17-rc1) contains an explicit check for invalid bits
    with a consequent EINVAL error.

mkfifo.3
  mtk
    Added SEE ALSO entry referring to new mkfifoat.3.

proc.5
  mtk
    Information on core_pattern and core_uses_pid has
    been
 migrated to the new core.5 page.

ip.7
  Stefan Puiu
    Removed paragraph referring to obsolete ipchains / ipfw(4).

sem_overview.7
  mtk
    Add SEE ALSO entry referring to pthreads.7.

========== Changes in man-pages-2.30 ==========

Released: 2006-04-17

Contributors

The following people contributed notes, ideas, or patches that have

been incorporated in changes in this release:

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Karel Kulhavy <clock@twibright.com>
Stefan Puiu <stefanpuiuro@yahoo.com>

Apologies if I missed anyone!

New pages
---

linkat.2
  mtk
    New page describing linkat(), new in kernel 2.6.16

renameat.2
  mtk
    New page describing renameat(), new in kernel 2.6.16

symlinkat.2
  mtk
    New page describing symlinkat(), new in kernel 2.6.16

unlinkat.2
  mtk
    New page describing unlinkat(), new in kernel 2.6.16

Changes to individual pages
---

link.2
   mtk
    Added SEE ALSO entry pointing to new linkat.2 page.

openat.2
  mtk
    Added SEE ALSO entries pointing to new *at.2 pages.

rename.2
  mtk
    Added SEE ALSO entry pointing to new renameat.2 page.

rmdir.2
  mtk
    Added SEE ALSO entry pointing to new unlinkat.2 page.

symlink.2
  mtk
    Added SEE ALSO entry pointing to new symlinkat.2 page.

unlink.2
  mtk
    Added SEE ALSO entry pointing to new unlinkat.2 page.

termios.3
  mtk / Karel Kulhavy
    Document the feature test macros required to expose various flags.
  Karel Kulhavy
    Clarify 'speed' argument for cfsetispeed() text.
  Karel Kulhavy / mtk
    Note that LOBLK is not implemented on Linux.
  mtk
    Clarify arguments for cfsetspeed().
    Various formatting changes.

full.4
  Andre Lehovich
    Add a sentence describing the purpose of full(4).

core.5
  aeb / mtk
    Rework text describing circumstances in which
     core dump files are not produced.
  mtk / Stefan Puiu
    A core dump of a multithreaded process always includes the
    PID in the core filename.
  mtk / Stefan Puiu
    Eliminate some accidentally duplicated text.

========== Changes in man-pages-2.31 ==========

Released: 2006-05-02

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Ryan S. Arnold <rsa@us.ibm.com>
Ulrich Drepper <drepper@redhat.com>

Apologies if I missed anyone!

Page renamings

The following pages have been relocated into section 7, since
that is their more natural home. SEE ALSO references in various
other
 pages have been adjusted.

epoll.4
fifo.4
futex.4
complex.5
environ.5
    (many pages outside man-pages actually *expect*
    'environ' to be in Section 7.)

ipc.5
    renamed to svipc.7

".so" link files have been created to link the old file locations to the
new file locations. These links are added just to ensure that cross
references from any other (non-man-pages) pages will remain valid;
eventually these links will be removed.

New pages
---

fstatat.2
  mtk
    New page for fstatat(2), new in 2.6.16.

adjtime.3
  mtk
    New page for adjtime(3).

error.3
  Justin Pryzby / mtk

New page describing error() and error_at_line()
Fixes http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=186307

program_invocation_name.3
mtk
New page describing program_invocation_name and
program_invocation_short_name variables.

sockatmark.3
mtk
New page for sockatmark(3).

ftm.7
mtk
New page describing feature
test macros.

time.7
mtk
New page giving an overview of "time" on Linux systems.

Global changes
---

getgroups.2
wait4.2
chown.2
chdir.2
gettimeofday.2
initgroups.3
dirfd.3
mtk
Simplified wording around requirement for _BSD_SOURCE
feature test macro.

times.2
time.2
gettimeofday.2
getitimer.2
nanosleep.2
ctime.3
rtc.4
mtk
Added SEE ALSO referring to new time.7.

err.3
errno.3

perror.3
strerror.3
  Justin Pryzby / mtk
    Add SEE ALSO referring to new error.3.

getdate.3
printf.3
scanf.3
  mtk
    Added SEE ALSO entry referring to setlocale.3.

Changes to individual pages
---

accept.2
  Mark Glines
    Remove mention of SOCK_RDM from this page, since this socket
    type does not support accept()ing connections.

adjtimex.2
  mtk
    Modified text referring to adjtime(); added SEE ALSO for new
    adjtime.3 page.

fsync.2
  mtk, after a note by Karel Kulhavy
    Rewrote
 most of the DESCRIPTION, as well as some other parts
    the page, to clarify use and operation of, and rationale for,
    fsync(2) and fdatasync(2).

getitimer.2
  mtk
    Updated discussion of maximum timer value to reflect the fact
    that the default jiffy is now 4 milliseconds.

    Added text to note that current incorrect behavior of
    normalizing tv_usec >= 1000000 will be repaired in a future
    kernel; applications should be fixed now.

gettimeofday.2
  Karel Kulhavy
    Point out more explicitly that 'tz' argument should
    normally be NULL.
  mtk
    Various other minor edits and formatting fixes.

mount.2
  mtk
    Since kernel 2.6.16, MS_NOATIME and MS_NODIRATIME are settable
    on a per-mount basis.
    Detail exactly which mount flags can be changed on MS_REMOUNT.

nanosleep.2
  mtk / Karel Kulhavy
    Clarify RETURN VALUE discussion.

openat.2
  mtk
    Add SEE ALSO reference pointing
 to new fstatat.2.

program_invocation_short_name.3
  mtk
    New link to new program_invocation_name.3.

recv.2
  mtk
    Added SEE ALSO for new sockatmark.3.

rmdir.2
  Joshua Kwan / Martin (Joey) Schulze / mtk
    Correct wording of EBUSY case.
  mtk
    Add ".." case to ENOTEMPTY error

select.2
  Karel Kulhavy
    Note more clearly that fd_set arguments can be NULL.
  mtk / Karel Kulhavy
    Improve opening paragraph describing purpose of select().
  mtk
    Various other minor edits and formatting fixes.

semget.2
  mtk / Nishanth Aravamudan
    Add text to noting that the initial values of semaphores
    in a new set are indeterminate.

shmget.2
  mtk
    Add text noting that contents of newly created segment are zero
    values.

sigwaitinfo.2

mtk
Noted that all threads should block signal being waited for.

stat.2
Nishanth Aravamudan / mtk
Added NOTE that st_size is always returned as zero for most
/proc files.
mtk
Add SEE ALSO reference pointing to new fstatat.2.

syscall.2
Justin Pryzby / mtk
Remove bogus BUGS text.

utime.2
mtk
Various minor changes.

confstr.3
mtk
Rewrote RETURN VALUE discussion.
Updated CONFORMING TO.
Removed BUGS.

ctanh.3
Martin (Joey) Schulze / mtk
Fix errors in DESCRIPTION.

ctime.3
mtk
The range of tm_sec is 0..60 (not 0..61).

error_at_line.3
error_message_count.3
error_on_per_line.3
error_print_progname.3
mtk
New links to new error.3.

fmemopen.3
mtk / Ryan S. Arnold
Add text noting that explicitly controlling output buffering
may be useful to catch errors on output operations on an
fmemopen() stream.

getline.3
Justin Pryzby

Add SEE ALSO pointing to getline.3.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=364772

strtod.3
strtoul.3
mtk
Describe correct handling of errno in
order to
distinguish error from success after the call.

Added EXAMPLE section which points to strtol.3 which provides
an example of the use of the analogous strtol(3).

strtol.3
mtk / Justin Pryzby
Add an example program.
mtk
Describe correct handling or errno in order to
distinguish error from success after the call.

tmpfile.3
Reuben Thomas
DESCRIPTION does not need to say "temporary file name"
just "temporary file", since the name is in any case
unavailable to the user.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=363518
mtk
In DESCRIPTION:
Change /automatically deleted when the program terminates normally/
to /automatically deleted when the program terminates/
since deletion occurs on both normal and abnormal termination.

ip.7
Karel Kulhavy / mtk
Various wording improvements and clarifications.

signal.7
mtk / Ulrich Drepper
Add text noting that a signal's disposition is process-wide,
shared by all threads.
mtk
Add text on changing signal dispositions.
Add text on "signal mask and pending signals".
Other minor edits.

time.7
mtk
Added SEE ALSO for new adjtime.3.

ld.so.8
  Justin Pryzby
    Remove bogus duplicate line.

========== Changes in man-pages-2.32 ==========

Released: 2006-05-13

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Paul Brook <paul@nowt.org>
Pavel Heimlich <tropikhajma@seznam.cz>

Apologies if I missed anyone!

New pages
---

faccessat.2
  mtk
    New page for faccessat(2), new in 2.6.16.

fchmodat.2
  mtk
    New page for fchmodat(2),
 new in 2.6.16.

fchownat.2
  mtk
    New page for fchownat(2), new in 2.6.16.

futimesat.2
  mtk
    New page for futimesat(2), new in 2.6.16.

Changes to individual pages

---

access.2
  mtk
    Add SEE ALSO reference pointing to new faccessat.2 page.

capget.2
  mtk
    Reworded to reflect that capabilities are per-thread.

chmod.2
  mtk
    Add SEE ALSO reference pointing to new fchmodat.2 page.

chown.2
  mtk
    Add SEE ALSO reference pointing to new fchownat.2 page.

mmap.2
  mtk
    Updated discussion of MAP_NORESERVE since it is no longer
    restricted to MAP_PRIVATE mappings.
    Add reference to discussion of /proc/sys/vm/overcommit_memory
    in proc.5.

openat.2
  mtk
    Add SEE ALSO reference pointing to new faccessat.2, fchmodat.2,
    fchownat.2, futimesat.2 pages.

shmget.2
  mtk
    Document SHM_NORESERVE flag, new in 2.6.15.

truncate.2
  Paul Brook / mtk
    Expand
 text noting that ftruncate()/truncate() may fail if
    asked to extend a file beyond its current length.
    Add EPERM error.

utime.2
  mtk
    Add SEE ALSO reference pointing to new futimesat.2 page.

fopen.3
  Justin Pryzby / mtk
    Document 'm' (mmap) flag.

http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=365754
mtk
Document 'c' (notcancel) flag.

futimes.3
mtk
Add SEE ALSO reference pointing to new futimesat.2 page.

qsort.3
Johannes Weiner
Add missing "const" qualifies to cast in EXAMPLE.
mtk
Slight rewording of comments in EXAMPLE.

termios.3
Karel Kulhavy
Clarify meaning of IXANY.
Clarify relationship of MIN with VMIN and TIME with VTIME.
mtk
Noted that CIBAUD, OFDEL, and DELECHO are not implemented
on Linux.
Added explanatory paragraph for phrases "not in POSIX" and
"XSI".

capabilities.7
mtk
Reworded to reflect that capabilities
are per-thread.
Add ioprio_set() to list of operations permitted by
CAP_SYS_NICE.
Add ioprio_set() IOPRIO_CLASS_RT and IOPRIO_CLASS_IDLE
scheduling classes to list of operations permitted by
CAP_SYS_ADMIN.
Note effects of CAP_SYS_NICE for migrate_pages().

========== Changes in man-pages-2.33 ==========

Released: 2006-05-23

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Martin Osvald" <martin.osvald@gmail.com>
Stefan Puiu <stefanpuiuro@yahoo.com>

Apologies if I missed anyone!

Page renamings
---

ftm.7
  mtk / Stefan Puiu
    renamed to the more suggestive feature_test_macros.7

New pages
---

mq_getsetattr.2
  mtk
    New page briefly describing mq_getsetattr(2), the system
    call that underlies
 mq_setattr(3) and mq_getattr(3).

rpmatch.3
  Justin Pryzby / mtk
    New page for rpmatch(3).

Changes to individual pages
---

chmod.2
  mtk
    Remove mention of non-standard S_IREAD, S_IWRITE, S_IEXEC.
    POSIX does now document ELOOP.

open.2
  mtk
    Remove mention of non-standard S_IREAD, S_IWRITE, S_IEXEC.

mmap.2
  Justin Pryzby
    Add mincore(2) to SEE ALSO.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=367401

msync.2
  Justin Pryzby
    Note that EINVAL can also be caused by

flags == MS_SYNC | MS_ASYNC.

sched_setaffinity.2
  mtk
    Add CPU_ISSET, CPU_CLR, CPU_SET, CPU_ZERO to NAME section.

select.2
  mtk
    Various minor changes.

select_tut.2
  mtk
    Removed much material that is redundant with select.2.
    Various other changes.

umask.2
  mtk
    Substantial rewrite of description of 'mask'.

CPU_ISSET.3
CPU_CLR.3
CPU_SET.3
CPU_ZERO.3
  mtk

 New links to sched_setaffinity.2

FD_CLR.3
FD_ISSET.3
FD_SET.3
FD_ZERO.3
  mtk
    New links to select.2.

fts.3
  Justin Pryzby
    Add SEE also referring to ftw.3.

ftw.3
  Justin Pryzby
    Add SEE also referring to fts.3.

getline.3
  Justin Pryzby
    Various minor clarifications.

mkstemp.3
  mtk

Clarify that O_EXCL is an open(2) flag.

mq_open.3
Martin Osvald
Fix prototype declaration for 'attr'.

mq_notify.3
Martin Osvald
s/sigev_signal/sigev_signo/

mq_setattr.3
mtk
New link to mq_getattr.3.

mq_timedreceive.3
mtk
New link to mq_receive.3.

mq_timedsend.3
mtk
New link to mq_send.3.

setlocale.3
Justin Pryzby
Added SEE ALSO referring to rpmatch.3.

sigandset.3
sigisemptyset.3
sigorset.3
mtk
New links to sigsetops.3.

stdio.3
Justin Pryzby
Added SEE ALSO referring to unlocked_stdio.3
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=367667

strchr.3
Justin Pryzby
Add description of strchrnul().

strchrnul.3
mtk
New link to strchr.3.

undocumented.3
Justin Pryzby / mtk
Updated to remove some functions that don't exist, and

therefore don't need to be documented.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=367671

unlocked_stdio.3
Justin Pryzby
Added SEE ALSO referring to stdio.3
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=367667

mq_overview.7
mtk
Added section describing relationship between library
interfaces and system calls.
Added SEE ALSO referring to new mq_getsetattr.2.

feature_test_macros.7
Stefan Puiu
Fix typo: s/_POSIX_C_SOURCE/_POSIX_SOURCE/

========== Changes in man-pages-2.34 ==========

Released: 2006-06-20

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes
---

tzselect.8
zdump.8
zic.8
  mtk, Joey
    Added header comment noting that these pages are in the public
    domain.

bindresvport.3
getrpcent.3
getrpcport.3
rpc.3
xdr.3
rpc.5
  mtk, aeb, Joey
    Added following to top of these pages to clarify origin and
    license:
    .\" This page
 was taken from the 4.4BSD-Lite CDROM (BSD license)

New pages
---

ioprio_set.2
  Eduardo Madeira Fleury, with edits by mtk, and review by Jens Axboe
    New page for ioprio_get(2) and ioprio_set(2), new in 2.6.13.

offsetof.3
  Justin Pryzby / mtk
    New page describing offsetof() macro.

Changes to individual pages

_exit.2
  mtk
    Add SEE ALSO referring to exit_group.2.

acct.2
  mtk
    Add SEE ALSO referring to acct.5.

fcntl.2
  mtk

Explicitly mention term "dnotify" in discussion of F_NOTIFY.

inotify_add_watch.2
  Aristeu Sergio Rozanski Filho / mtk
    s/<inotify.h>/<sys/inotify.h>/ in prototypes.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=369960
  mtk
    Renamed argument from 'path' to 'pathname'.
    Reword introductory paragraph to clarify that
    inotify_add_watch() may also modify an existing watch item.
  mtk
    The EINVAL error can also occur if 'fd' is
 not an inotify
    file descriptor.
  mtk
    Moved BUGS section from this page to inotify.7.

inotify_init.2
  Aristeu Sergio Rozanski Filho / mtk
    s/<inotify.h>/<sys/inotify.h>/ in prototypes.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=369960

inotify_rm_watch.2
  Aristeu Sergio Rozanski Filho / mtk
    s/<inotify.h>/<sys/inotify.h>/ in prototypes.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=369960
  mtk
    The EINVAL error can also occur if 'fd' is not an inotify
    file descriptor.

ioprio_get.2
  mtk
    New link to new ioprio_set.2.

mmap.2
  mtk
    Add SEE ALSO referring to remap_file_pages.2.

mount.2
  Kenichi Okuyama
    s/MNT_FORCE/MNT_EXPIRE/ under EINVAL error.

mremap.2
  Mike Frysinger
    s/unsigned long flags/int flags/ in SYNOPSIS.

pipe.2
  mtk

Add SEE ALSO referring to popen.3.

posix_fadvise.2
mtk
Add SEE ALSO referring to readahead.2.

read.2

mtk
SEE ALSO for readv should refer to Section 2, not 3.

readahead.2
mtk
Add SEE ALSO referring to posix_fadvise.2.

send.2
Peter Eiserloh
Fix missing arguments in statement about equivalent send()
and sendto() calls.

setsid.2
mtk
Add SEE ALSO referring to tcgetsid.3.

shmctl.2
mtk
Minor wording change at start of DESCRIPTION.

stat.2
mtk
Add SEE ALSO referring to access.2.

statfs.2
mtk
Relocated "Note" about f_fsid.

write.2
mtk
SEE ALSO for writev should refer to Section 2, not 3.

__setfpucw.3
mtk, Joey
Added license statement (GPL) after consultation with
Joerg Scheurich.

assert_perror.3
Justin Pryzby
Add #define _GNU_SOURCE to prototype

difftime.3
  Joey
    Added note about time_t representation on other systems.
    Added CONFORMING TO.

ftw.3
  Justin Pryzby / mtk
    A fairly major revision...
    Document FTW_ACTIONRETVAL;
 include .SH "RETURN VALUE";
    Reorganized and rewrote much of the page
    Added an example program.

inet.3
  Marc Lehmann
    Fixed typo in NOTES.
    http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=370277

isalpha.3
  Joey
    Updated CONFORMING TO.

mktemp.3
  mtk
    Updated CONFORMING TO.

printf.3
  Walter Harms
    Add documentation of %m.

readdir.3
  mtk
    Added SEE ALSO referring to ftw.3.

re_comp.3
  mtk
    Note that these functions are obsolete in favor of regcomp(3).
  Justin Pryzby
    Add SEE ALSO referring to regcomp.3

scandir.3
  Mats Wichmann
    Reworded CONFORMING TO statement on scandir() and alphasort().

strchr.3
  Stefan Puiu
    Fix prototype for strchrnul().

strtoul.3
  Stefan Puiu
    Add text clarifying treatment of strings starting with
    minus sign.

tmpnam.3
  mtk, after comments by Justin Pryzby
    Add text noting the need to use open(O_EXCL).
  mtk

  Clarify discussion of use of free(3).
    Various other minor changes to text and formatting.

tmpfile.3
  mtk
    Updated CONFORMING TO.

tmpnam.3
  mtk, after comments by Justin Pryzby
    Add text noting the need to use open(O_EXCL).
    Updated CONFORMING TO.

undocumented.3
  mtk
    Remove offsetof(), which is now documented.

null.4
  mtk
    Added SEE ALSO referring to full.4.

console_codes.4
  Thomas Dickey
    Various improvements and corrections.

epoll.7
  mtk
    Added CONFORMING TO section mentioning FreeBSD kqueue and
    Solaris /dev/poll.

feature_test_macros.7
  mtk
    Added pointer to location of LFS specification.

futex.7
  mtk, after suggestion by Joey.
    Added license statement to page, after discussion with
    original author, bert hubert.

mtk
Reformat long lines; no content changes.

inotify.7
mtk
'path' argument renamed to 'pathname'.
A few minor rewordings.
Added BUGS section describing a couple of bugs.

ip.7
mtk
Add SEE ALSO referring to byteorder.3.

man.7
Justin Pryzby
Add SEE ALSO referring to groff_man(7).
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=369253

========== Changes in man-pages-2.35 ==========

Released: 2006-07-06

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

Global
changes

Typographical or grammatical errors have been corrected in several
places.

New pages
----

sync_file_range.2
  Andrew Morton / mtk
    New page for sync_file_range(2), new in kernel 2.6.17.

Changes to individual pages
----

adjtime.3
  mtk
    Noted BUG that occurs if 'delta' is specified as NULL.
    See http://bugzilla.kernel.org/show_bug.cgi?id=6761

bind.2
  Stefan Puiu
    Add EADDRNOTAVAIL error.
  Stefan Puiu / mtk
    Make example code more complete.

epoll_ctl.2
  mtk / Davide Libenzi
    Added EPOLLRDHUP description.
  mtk
    Added SEE ALSO referring to poll.2.

poll.2
  mtk / Davide Libenzi
    Added POLLRDHUP description.
  mtk
    The correct header file is <poll.h>, not <sys/poll.h>.
    Rewrote and reformatted various other parts.

readlink.2
  mtk
    Nowadays, readlink() returns 'ssize_t', as required in
    POSIX.1-2001.

wavelan.4
  mtk

   Added license statement.

nscd.conf.5
  Thorsten Kukuk
    Add documentation for various new fields.

passwd.5
  Horacio Rodriguez Montero
    Add explanation of 'x' character in 'password' field.
  mtk
    The proper name of "*" is "asterisk" not "star".

tcp.7
  Johan Lithander
    Update RFC reference for ECN.
  Andi Kleen
    Add sentence on "low memory" limit for tcp_mem on 32-bit systems.

========== Changes in man-pages-2.36 ==========

Released: 2006-07-11

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Kyle McMartin <kyle@mcmartin.ca>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

New pages

MAINTAINING
  mtk

  How to maintain man-pages.

TODO
  mtk
    Things that it would be nice to get done for man-pages one day.

scripts/FIXME_list.sh
  mtk
    This script, intended for use by manual page maintainers,
    displays the FIXMEs in the manual page source files.

Changes to individual pages
----

fdatasync.2
fsync.2
  mtk
    Added SEE ALSO referring to sync_file_range.2.

sendfile.2
  mtk / Jens Axboe
    Fix description of 'offset' argument to explain the case
    where 'offset' is NULL.

ferror.3
  Justin Pryzby
    Add SEE ALSO referring to fdopen.3.

intro.3
  mtk
    Removed information about Section 3 subsections -- it doesn't
    reflect current reality, and probably never has.

    Added SEE ALSO referring to intro.2.

tcp.7
  Kyle McMartin
    Correction: tcp_window_scaling is ENabled by default.

========== Changes in man-pages-2.37 ==========

Released: 2006-08-02

Contributors

The
 following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Thomas Huriaux <thomas.huriaux@gmail.com>
Ville Skyttä <ville.skytta@iki.fi>

Apologies if I missed anyone!

Global changes

Thomas Huriaux / mtk

    Various formatting problems found as a result of reviewing the
    following command were fixed.

    for a in $(wc -l man?/*.?| awk '$1 > 2 {print $2}' | grep -v total); do
      echo $a; groff -Tascii -wmac -mman $a > /dev/null;
    done 2>&1 | less

    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=378544

Typographical or grammatical errors have been corrected in several
places.

New pages
---

readlinkat.2
  mtk (after prompting from Ivana Varekova)
    New page for readlinkat(2),
 new in kernel 2.6.16.

Changes to individual pages
---

ldd.1
  Ville Skyttä
    Document "-u" option.

chdir.2
  mtk
    Noted effect of fork() and execve() on current working directory.

chroot.2

mtk
Noted effect of fork() and execve() on root directory.

epoll_ctl.2
Frank van Viegen / mtk
Fix description of EBADF error.

exevce.2
mtk
Add text noting that effective IDs are copied to
saved set-IDs during execve().
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=379297

getitimer.2
mtk
Noted effect of fork() and execve() on interval timers.

getrlimit.2
mtk
Noted effect of fork() and execve() on resource limits.

getpriority.2
mtk
Noted effect of fork() and execve().

inotify_add_watch.2
mtk
Some rewording; included text describing required file
permissions.

intro.2
mtk
Revised description of standards under CONFORMING
TO.

makecontext.3
Helmut Grohne / mtk
Point out that args following 'argc' are int.
mtk
Added an example program.
Various minor wording fixes.

mmap.2
mtk
Expand description of MAP_POPULATE.
mtk, after prompting by Dean Gaudet
Expand description MAP_NONBLOCK.
mtk

Various minor formatting fixes.

openat.2
mtk
Added SEE ALSO linking to readlinkat.2.

nanosleep.2
mtk
Noted buggy behavior in Linux 2.4 and earlier when
nanosleep() is restarted after receiving stop+SIGCONT signals.

nice.2
mtk
Very minor rewording.

readlink.2
mtk
Added SEE ALSO linking to readlinkat.2.

sched_setscheduler.2
mtk
Noted preservation of scheduling parameters across execve().

setpgid.2
mtk
Noted effect of fork() and execve() on process group ID.

setsid.2
mtk
Noted effect of fork() and execve() on session ID.

umask.2
mtk
Noted effect
of fork() and execve() on umask.

atexit.3
mtk
Noted inheritance of registrations across fork().

capabilities.7
mtk
Added material on privileges required for move_pages().
CLONE_NEWNS needs CAP_SYS_ADMIN.
keyctl(KEYCTL_CHOWN) and keyctl(KEYCTL_SETPERM) require
CAP_SYS_ADMIN.

========== Changes in man-pages-2.38 ==========

Released: 2006-08-03

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Alain Portal <aportal@univ-montp2.fr>

Apologies if I missed anyone!

Global changes

Most pages
  mtk
    There was a major reworking of the CONFORMING TO sections
    in most manual pages.

    * generally try to rationalize the names used for standards.
      The preferred names are now documented as the head words
      of the list in standards(7). For the future: there is
      probably no
need to talk about anything more than
      C89, C99, POSIX.1-2001 (or later), xBSD, and SVr4.
      (In particular, I've eliminated most references to XPG
      and SVID, replacing them with references to SUS or SVr4.)

    * eliminate discussion of errors that can occur on other
      systems. This information exists only patchily in the
      manual pages, is probably of limited use, is hard to maintain,
      and was in some cases simply wrong (and probably always was).

    * Tried to ensure that those interfaces specified in C99 or
      POSIX.1-2001 are marked as such in their manual pages.

intro.1
intro.2
intro.3
intro.4
intro.5
intro.7
feature_test_macros.7
  mtk
    Added SEE ALSO referring to new standards.7.

Various pages
  mtk
    Changed instances of "HP UX" to "HP-UX".

Various pages
  mtk
    Changed instances of "DG-UX to "DG/UX"

Typographical or grammatical errors have been corrected in several
places.

New pages
----

standards.7
   mtk
    Based on material taken from intro.2, but expanded to
    include discussion of many additional standards.

Changes to individual pages
----

bind.2
  mtk
    Minor wording change for ENOTSOCK error.

intro.2
  mtk
    Removed information on standards to new standards.7.

==================== Changes in man-pages-2.39 ====================

Released: 2006-08-05

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Alain Portal <aportal@univ-montp2.fr>

Apologies if I missed anyone!

Global changes

Various pages
  mtk
    Updated CONFORMING TO and/or standards references
    in various pages that were missed for 2.38.

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages
---

chdir.2
  mtk
    _XOPEN_SOURCE=500 also
 gets fchdir() prototype.

standards.7
  mtk
    Added a few more standards, and expand some explanations.

========== Changes in man-pages-2.40 ==========

Released: 2006-09-04

Contributors

The following people contributed notes, ideas, or patches that have
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Samuel Thibault <samuel.thibault@ens-lyon.org>
Toralf Förster <toralf.foerster@gmx.de>

Apologies if I missed anyone!

Global changes
---

faccessat.2
fchmodat.2

fchownat.2
fstatat.2
futimesat.2
linkat.2
mkdirat.2
mknodat.2
openat.2
readlinkat.2
renameat.2
symlinkat.2
  mtk (after a note by Alain Portal)
    Make naming of 'pathname' argument consistent; various
    minor rewordings.

Typographical or grammatical errors have been corrected in several
places.

Changes
 to individual pages
---

clone.2
  mtk
    Reinstate text on CLONE_DETACHED, and add a few words.

execve.2
  mtk
    Added list of process attributes that are not preserved on exec().

fork.2
  mtk, after a suggestion by Christoph Hellwig
    Greatly expanded, to describe all attributes that differ
    in parent and child.

linkat.2
  mtk
    Document AT_SYMLINK_FOLLOW (new in 2.6.18).

set_mempolicy.2
  mtk / Andi Kleen
    Memory policy is preserved across execve().

write.2
  mtk / Alain Portal
    SEE ALSO for writev should refer to Section 2, not 3.
    (i.e., really make the change that was logged in 2.34)

getcwd.3

Samuel Thibault / mtk
Fix SYNOPSIS and CONFORMING TO text for getwd() and
get_current_dir().
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=381692

proc.5
Chuck Ebbert
Document /proc/PID/auxv.

capabilities.7
Alain Portal
Restore
text accidentally deleted in 2.39.

regex.7
mtk / Alain Portal
Change references to "1003.2" to "POSIX.2".

========== Changes in man-pages-2.41 ==========

Released: 2006-10-12

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes

Typographical
 or grammatical errors have been corrected in several
places.

New pages
---

splice.2
tee.2
vmsplice.2
  Jens Axboe / Michael Kerrisk
    See also:
      http://lwn.net/Articles/118760/
      http://lwn.net/Articles/178199/
      http://lwn.net/Articles/179492/
      http://kerneltrap.org/node/6505
      http://lwn.net/Articles/179434/

Changes to individual pages
---

ldd.1
  Stefan Puiu
    Note glibc version where "ldd -u" appeared.

execve.2
  mtk
    The PR_SET_NAME setting is not preserved across an execve().

fork.2
  mtk
    Mappings marked with madvise(MADV_DONTFORK) are not inherited
    by child.

getdtablesize.2
  mtk
    Noted that sysconf(_SC_OPEN_MAX) is preferred in portable
    applications.

getpagesize.2
  mtk
    Noted that sysconf(_SC_PAGE_SIZE) is preferred in portable
    applications.
    _SC_PAGE_SIZE is available on most systems.

madvise.2
  mtk
      Document MADV_REMOVE, new in 2.6.16.
      Document MADV_DONTFORK / MADV_DOFORK, new in 2.6.16.

mount.2
  mtk / Trond Myklebust
      MNT_FORCE can cause data loss.

mmap.2
  mtk
      Added note on Linux's old (pre-2.6.12) buggy treatment of
      length==0.
  Justin Pryzby / mtk
      Added some EINVAL errors.

mremap.2
  mtk
      Remove superfluous "#include <unistd.h>" from SYNOPSIS.

msync.2
  mtk
      Added EBUSY error for case where MS_INVALIDATE is applied to
      a locked region.

posix_fadvise.2
  Andrew Morton
      Since 2.6.18, POSIX_FADV_NOREUSE is a no-op.

prctl.2
  Marcel Holtmann / mtk
      Since kernel 2.6.18, setting 2 for PR_SET_DUMPABLE is no longer
      possible.
  Guillem Jover
      Updated Linux versions where the options where introduced.
      Added PR_SET_TIMING, PR_GET_TIMING, PR_SET_NAME, PR_GET_NAME,
      PR_SET_UNALIGN, PR_GET_UNALIGN, PR_SET_FPEMU, PR_GET_FPEMU,
      PR_SET_FPEXC, PR_GET_FPEXC.
   Michael Kerrisk
      Document PR_GET_ENDIAN and PR_SET_ENDIAN.

remap_file_pages.2
  mtk
      Add "#define _GNU_SOURCE" to SYNOPSIS.

sync_file_range.2
  mtk

Noted that sync_file_range() appeared in kernel 2.6.17.

vfork.2
  mtk
    Noted interactions with fork handlers in multithreaded programs.

wait4.2
  mtk
    Added feature test macros to SYNOPSIS.

clog2.3
  mtk / aeb / Kevin Ryde
    Fix broken text in description.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=386214

clog10.3
  Kevin Ryde
    Fix broken text in description.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=386214

mq_receive.3
  Britton Leo Kerin
    Fix return type in SYNOPSIS; should be "ssize_t" not "mqd_t".
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=387551

qsort.2
  Hrvoje Niksic
    Fix wording referring to the use of strcmp() in 'compar'
    function.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=391402

sendfile.2
   mtk
    Added SEE ALSO referring to new splice.2 page.

termios.3
  mtk
    Documented IUTF8 (which was new in kernel 2.6.4).

tzset.3
  mtk
    Added some TZ examples.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=386087

proc.5
  mtk
    Added delayacct_blkio_ticks (new in 2.6.18) to /proc/PID/statm.

ip.7
  Stuart MacDonald / Andi Kleen
    Fix discussion for TCP error queue /IP_RECVERR on TCP.

pthreads.7
  mtk
    Noted effect of RLIMIT_STACK resource limit for NPTL.

socket.7
  Senthil Kumar
    Place socket options in alphabetical order.

========== Changes in man-pages-2.42 ==========

Released: 2006-11-24

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Andrew Morton <akpm@osdl.org>
Chuck Ebbert <76306.1226@compuserve.com>
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Eduard Bloch
 <blade@debian.org>
Evan Teran <eteran@alum.rit.edu>
Pavel Heimlich <tropikhajma@seznam.cz>
Petr Baudis <pasky@ucw.cz>
Randy Dunlap <rdunlap@xenotime.net>
Ulrich Drepper <drepper@redhat.com>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages
---

brk.2

Evan Teran / mtk
Add text describing behavior of the Linux brk() system call
and point out that the glibc brk() wrapper provides different
behavior.
mtk
Note that sbrk() is implemented as a library function in glibc
that calls the brk() system call.

futex.2
mtk
FUTEX_FD is scheduled for removal in June 2007.

getaddrinfo.3
getnameinfo.3
Ulrich Drepper, with edits by mtk
Add text describing Internationalized Domain Name
extensions.

open.2
mtk / Eduard Bloch
Fix description of O_LARGEFILE to mention required
feature test
macros.

ptrace.2
Chuck Ebbert
Since Linux 2.6.18, the PID of the new process is also available
for PTRACE_EVENT_VFORKDONE.

syslog.3
Doug Goldstein
Fix header file required for vsyslog() in SYNOPSIS.

wcwidth.3
Petr Baudis
Fix CONFORMING TO.

core.5
mtk
Linux 2.4.21 added core_pattern (which was already in 2.6).
Noted a few more reasons why a core dump file might not
be produced.

========== Changes in man-pages-2.43 ==========

Released: 2006-11-29

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Andi Kleen <ak@suse.de>
David Brownell <david-b@pacbell.net>
Eduard Bloch <blade@debian.org>
Egmont Koblinger <egmont@uhulinux.hu>
Reuben Thomas <rrt@sc3d.org>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

Changes
 to individual pages
---

ioperm.2
  mtk
    Clarify discussion of privilege requirements.
    Added ENOMEM to ERRORS.

open.2
  mtk / Eduard Bloch
    Clarify description of O_LARGEFILE.

crypt.3
  Egmont Koblinger
    Make description of MD5 output string less ambiguous.

strerror.3
  Reuben Thomas
    Add C99 to CONFORMING TO; see
    http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=400634

rtc.4
  David Brownell

    Update the RTC man page to reflect the new RTC class framework:

- Generalize ... it's not just for PC/AT style RTCs, and there
  may be more than one RTC per system.

- Not all RTCs expose the same feature set as PC/AT ones; most
  of these ioctls will be rejected by some RTCs.

- Be explicit about when {A,P}IE_{ON,OFF} calls are needed.

- Describe the parameter to the get/set epoch request; correct
  the description of the get/set
frequency parameter.

- Document RTC_WKALM_{RD,SET}, which don't need AIE_{ON,OFF} and
  which support longer alarm periods.

- Hey, not all system clock implementations count timer irqs any
  more now that the new RT-derived clock support is merging.

proc.5
  mtk
    s/fseek(3)/lseek(2)/ under /proc/PID/mem entry.

feature_test_macros.7
  mtk / Eduard Bloch
    The LFS spec is now at http://opengroup.org/platform/lfs.html

raw.7
udp.7
  Andi Kleen
    Describe the correct default for UDP/RAW path MTU discovery.

========== Changes in man-pages-2.44 ==========

Released: 2007-04-04

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Andre Majorel <aym-naideb@teaser.fr>
Benjamin Gilbert <bgilbert@cs.cmu.edu>
Carlo Marcelo Arenas Belon <carenas@sajinet.com.pe>
Chuck Ebbert <76306.1226@compuserve.com>
Ivana Varekova <varekova@redhat.com>

Jakub
Jelinek <jakub@redhat.com>
John Ward <jward@idealcorp.com>
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Julien Blache <jblache@debian.org>
Julien Cristau <jcristau@debian.org>
Justin Pryzby <justinpryzby@users.sourceforge.net>
Martín Ferrari <martin.ferrari@gmail.com>
Mike Frysinger <vapier@gentoo.org>
Nick Piggin <npiggin@suse.de>
Nick Pollitt <npollitt@mvista.com>
Nicolas François <nicolas.francois@centraliens.net>
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Reuben Thomas <rrt@sc3d.org>
Samuel Thibault <samuel.thibault@ens-lyon.org>
Serge E. Hallyn <serge@hallyn.com>
Thomas Huriaux <thomas.huriaux@gmail.com>
Timo Sirainen <tss@iki.fi>
Val Henson <val_henson@linux.intel.com>

Apologies if I missed anyone!

New pages
---

termio.7
  mtk, after a bit of prodding by Reuben Thomas
      A brief discussion of the old System V termio interface,
      with pointers to pages that will contain the information
      that the reader
 probably wants.

scripts/find_repeated_words.sh
  mtk
      Find consecutive duplicate words in a man page, some of
      which may be grammar errors.

Global changes

Various pages
  Justin Pryzby / mtk
      Add "#define _ATFILE_SOURCE" to SYNOPSIS in following pages:
          faccessat.2
          fchmodat.2
          fchownat.2

fstatat.2
futimesat.2
linkat.2
mkdirat.2
mknodat.2
openat.2
readlinkat.2
renameat.2
symlinkat.2
unlinkat.2
mkfifoat.3

Various pages
mtk
Various references to "getty" were changed to "mingetty", since
that is the manual page more likely to be found on current systems.

Various pages
mtk, after a suggestion by Reuben Thomas <rrt@sc3d.org>
Updated various header pages to accurately reflect which functions
are and are not part of C89. Also fixed/improved
a few other
CONFORMING TO entries.

Various pages
mtk
s/Unices/Unix systems/ on the 5 pages where it appears.

Various pages
mtk
Wrapped long source lines in the following files
getsockopt.2
mknodat.2
io_setup.2
select_tut.2
select.2
readlinkat.2
io_cancel.2
syslog.2
wcsncat.3
getipnodebyname.3
cmsg.3
wcpncpy.3
wcsrtombs.3
wcstok.3
fgetwc.3
wmemcmp.3
wcsspn.3

div.3
modf.3
stdio_ext.3
ctermid.3
des_crypt.3
wcsncmp.3
wmemchr.3
wcsstr.3
wmemcpy.3
wprintf.3
wcsnrtombs.3
termios.3
erf.3
ceil.3
lround.3
nextafter.3
wcsncpy.3
wmemset.3

getw.3
console_ioctl.4
sk98lin.4
environ.7
unix.7
time.7

Various pages
mtk
Added a SEE ALSO reference for feature_test_macros(7) to all pages where a feature test macro appears in the SYNOPSIS.

Various pages
mtk
Added SEE ALSO entry pointing to time.7
alarm.2
nanosleep.2
ualarm.3
usleep.3

Various pages
Justin Pryzby / mtk
Fixed consecutive duplicate word typos on a number of pages.

Typographical or grammatical errors have been corrected in several places. (Special thanks to Nicolas François!)

Changes to individual pages

---

access.2
  mtk
    Since 2.6.20, access() honors the MS_NOEXEC mount flag.
  Jorge Peixoto de Morais Neto / mtk
    Improve ENOENT description.

clone.2
  mtk
    Added some detail to the prototype.
    Added some notes on IA-64's clone2().

epoll_ctl.2
  mtk

    Add text to note that EPOLLRDHUP appeared in kernel 2.6.17.

faccessat.2
  Justin Pryzby
    Various fixes as per
    http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=411177
    * s/effective/real/ in description text.
    * added <fcntl.h> to synopsis.
    * various other changes.

getrlimit.2
  mtk / Fedora downstream patches; thanks to Ivana Varekova
    Added a few words to note that RLIMIT_NPROC is really a limit on
    threads.

io_cancel.2
io_destroy.2
io_getevents.2
io_setup.2
io_submit.2
  Fedora downstream patches; thanks to Ivana Varekova
    s%linux/aio.h%libaio.h% in SYNOPSIS.
    Changed return type from "long" to "int".

mbind.2
  Samuel Thibault / mtk
    Fix EINVAL description.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=411777

mincore.2
  Nick Piggin
    Kernel 2.6.21 fixes several earlier bugs in mincore().

Nick Pollitt
Remove words "of a file" -- mincore() is describing

memory residence information, not properties of a file.
mtk
Rewrote various parts to make the page clearer.

mmap.2
mtk
Rewrote and reorganized various parts to be clearer.
Taken from Fedora downstream patches; thanks to Ivana Varekova
Removed text stating that mmap() never returns 0; that's
not true.

mount.2
mtk / Val Henson
Document MS_RELATIME, new in Linux 2.6.20.

open.2
Andre Majorel / mtk
On Linux, the error returned when opening a large file on a
32-bit system is actually EFBIG, not EOVERFLOW.

posix_fadvise.2
Pádraig Brady
Fix RETURN VALUE description: returns error number of failure.

rename.2
mtk / Timo Sirainen
Various improvements to DESCRIPTION.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=416012

semop.2
mtk
If sops contains multiple operations, then these are performed
in array order. All Unix systems that I know of do this,

and some Linux applications depend on this behavior. SUSv3
made no explicit statement here, but SUSv4 will explicitly
require this behavior.
Small rewording of explanation of "atomically".

signal.2
Nicolas François
Fix incorrect argument name in DESCRIPTION.
mtk
Small wording improvement.

socket.2
  Nicolas François
    Add reference to ipv6.7 page.

socketcall.2
  Nicolas François
    Fix .TH line.

splice.2
  Benjamin Gilbert
    Fix inconsistent argument names in SYNOPSIS and DESCRIPTION.

statvfs.2
  mtk
    Small wording clarification.

symlink.2
  mtk / Nicolas François
    Removed cryptic text under CONFORMING to referring to
    "open(2) and NFS". There is no relevant text in open.2 as
    far as I (mtk) can see.

time.2
  mtk / Reuben Thomas
    Remove sentence "gettimeofday() obsoleting time() on 4.3BSD".
    This information is old, and probably no longer relevant.
    See
 http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=403888

write.2
  mtk, after an idea from a downstream Fedora patch.
    Clarified discussion of /count == 0/ case.

ptrace.2
  Chuck Ebbert
    When the parent receives an event with PTRACE_EVENT_* set,
    the child is not in the normal signal delivery path. This
    means the parent cannot do ptrace(PTRACE_CONT) with a signal
    or ptrace(PTRACE_KILL). kill() with a SIGKILL signal can be
    used instead to kill the child process after receiving one
    of these messages.

sched_setaffinity.2
  mtk
    Fix glibc version number in description of 'cpusetsize' argument.

vfork.2
  mtk

Stripped some excess/outdated text from the BUGS section.

basename.3
mtk / Jorge Peixoto de Morais Neto
Add text to clarify that the pointer returned by these
functions may be into some part of 'path'.

dlopen.3
Taken from Fedora downstream patches; thanks to Ivana Varekova
+ Carlo
Marcelo Arenas Belon
Add "#include <stdlib.h>" to example program.

fclose.3
mtk
Complete rewrite. The existing page was hard to read,
and the RETURN VALUE description seems to be wrong.

getopt.3
mtk
Added getopt() example program.
mtk
Add a few words to clarify the operation of the GNU-specific
double-colon feature, which allows options to have optional
arguments.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=352139

glob.3
Nicolas François
Fix PROTOTYPE.

inet_network.3
mtk, after an idea from a downstream Fedora patch.
Clarified description of inet_network().

log.3
Nicolas François
Fix .TH line.

log10.3
Nicolas François
Fix .TH line.

malloc.3
Nicolas François
Small rewording to mention calloc().

posix_openpt.3

Martín Ferrari
Fix return type in SYNOPSIS; as per
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=400971
Needs _XOPEN_SOURCE == 600; as per
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=400975
Julien BLACHE
s/ptsname/posix_openpt/ in RETURN VALUE

re_comp.3
Taken from Fedora downstream patches; thanks to Ivana Varekova
Add "#define _REGEX_RE_COMP" to SYNOPSIS.

regex.3
Nicolas François
Fix .TH line.

termios.3
mtk
Added .SS headers to give some structure to this page; and a small
amount of reordering.
mtk
Added a section on canonical and non-canonical mode.
mtk
Enhanced the discussion of "raw" mode for cfmakeraw().
mtk
Document CMSPAR.
mtk
Make description of PARODD a little clearer.
Reuben Thomas
Add SEE ALSO link to tty_ioctl.4
mtk
Add SEE ALSO link to console_ioctl.4

ualarm.3
mtk
Removed BSD prototype from synopsis.
Various rewordings.

usleep.3
mtk
Removed BSD prototype from synopsis.
Various rewordings.

termcap.5
Taken from Fedora downstream patches; thanks to Ivana Varekova
s/curses/ncurses/ under SEE ALSO

bootparam.7

Taken from Fedora downstream patches; thanks to Ivana Varekova
Documented "mem=nopentium".

feature_test_macros.7
mtk
The default treatment of _POSIX_C_SOURCE changed in glibc 2.4.
mtk, after a suggestion by Justin Pryzby
Added some text warning that the "__" macros that
<features.h> defines internally should never be
directly defined by programs.
mtk, based on notes by Jakub Jelinek
Document _FORTIFY_SOURCE
(See http://gcc.gnu.org/ml/gcc-patches/2004-09/msg02055.html)
mtk
Document _REENTRANT and _THREAD_SAFE.

mdoc.7
mtk / Nicolas François
Remove CONFIGURATION section, since this does not seem to be
true for Linux.

svipc.7
Nicolas François
Fix data types in associated data structures;
remove nonexistent semzcnt and semncnt
fields.

time.7
mtk
Since kernel 2.6.20, the software clock can also be 300 HZ.

========== Changes in man-pages-2.45 ==========

Released: 2007-04-05

Global changes

This release consists mainly of formatting fixes (to a large
number of pages) to achieve greater consistency across pages.
With the exception of the few individual changes noted below,
no changes were made to content.

Changes to individual pages
---

io_destroy.2

io_getevents.2
io_setup.2
io_cancel.2
io_submit.2
  mtk
    Clarified RETURN VALUE text

bindresvport.3
  mtk
    Rewrote prototype using modern C syntax.

========== Changes in man-pages-2.46 ==========

Released: 2007-04-06

Global changes

This release consists mainly of formatting fixes (to a large
number of pages) to achieve greater consistency across pages:

* Most instances of two or more consecutive blank lines in man
 page output were
 shrunk to a single line.
* A number of example programs were reformatted
 to more closely match K&R style.
* In various places (mainly code examples), the use of tabs was
 replaced by spaces

With the exception of the few individual changes noted below,
no changes were made to content.

Changes to individual pages
---

bdflush.2
  mtk
    Add <sys/kdaemon.h> header file to SYNOPSIS.

sched_rr_get_interval.2
  mtk
    Moved timespec definition from SYNOPSIS into description.

select_tut.2
  mtk
    Make SYNOPSIS match select.2.

========== Changes in man-pages-2.47 ==========

Released: 2007-05-04

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Andi Kleen <andi@firstfloor.org>
John Heffner <jheffner@psc.edu>

Apologies if I missed anyone!

Global changes

This release consists mainly of changes to source file
 layout
(wrapped long lines; stripped trailing white space; started new
sentences on new lines).

There is very little change to output formatting or content (see the
notes below).

Changes to individual pages
---

sched_rr_get_interval.2
  mtk
    Remove crufty statement that this system call is not implemented.
    The nice interval can be used to control the size of
    the round-robin quantum.
    Corrected .TH line.

ip.7
  John Heffner / mtk
    Document IP_PMTUDISC_PROBE, which will be in 2.6.22.

========== Changes in man-pages-2.48 ==========

Released: 2007-05-04

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Colin Watson <cjwatson@debian.org>
Justin Pryzby <justinpryzby@users.sourceforge.net>

Apologies if I missed anyone!

Global changes

This release consists mainly of changes to source file layout
(wrapped
 long lines; stripped trailing white space; started new
sentences on new lines).

There is very little change to output formatting or content (see the
notes below).

Various pages
  mtk
    In various places where it occurred,
    s/nonnegative/non-negative/

Various pages
  mtk
    s/wide character/wide-character/ when used attributively.

Changes to individual pages
---

man.7
  Justin Pryzby / Colin Watson / mtk
    .SH doesn't require quotes.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=411303

========== Changes in man-pages-2.49 ==========

Released: 2007-05-20

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Akihiro MOTOKI <amotoki@dd.iij4u.or.jp>
Bruno Haible <bruno@clisp.org>
Justin Pryzby <justinpryzby@users.sourceforge.net>

Apologies if I missed anyone!

New pages
---

bsd_signal.3
  mtk
    Documentation of bsd_signal().

euidaccess.3
  mtk
    Manual page for euidaccess() and eaccess().

getsubopt.3
  mtk / Justin Pryzby
    Documentation of getsubopt().

sysv_signal.3
  mtk
    Documentation of sysv_signal().

New links
---

epoll_pwait.2
  mtk
    New link to epoll_wait.2.

eaccess.3
  mtk
    New link to new euidaccess.3,

sem_timedwait.3
  mtk
    New link to sem_wait.3.

sem_trywait.3

mtk
New link to sem_wait.3.

Global changes

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages
---

access.3
mtk
Added SEE ALSO ref to new euidaccess.3 page.

epoll_wait.2
mtk
Added description of epoll_pwait(), new in kernel 2.6.19.

execve.2
mtk
Add text noting that Linux allows 'argv' and 'envp' to be NULL, but warning that this is non-standard and non-portable, and
should be avoided in portable programs.
Bug filed (http://bugzilla.kernel.org/show_bug.cgi?id=8408) to get this changed, but maybe that won't be done because it is an ABI change.
mtk
Added an example program.
mtk
Expanded the discussion of interpreter scripts and the 'optional-arg' argument of an interpreter script.
For further info, see
http://homepages.cwi.nl/~aeb/std/hashexclam-1.html
http://www.in-ulm.de/~mascheck/various/shebang/
mtk
Added text noting that FD_CLOEXEC causes record locks to be released.
mtk
Mention effect of MS_NOSUID mount(2) flag for set-user-ID programs.
mtk
Expanded description of handling of file descriptors during execve(), adding text to note that descriptors 0, 1, and 2

may be treated specially.

faccessat.3
  mtk
    Added SEE ALSO ref to new euidaccess.3 page.

mmap.2
  mtk
    Place MAP_* flags list
 in alphabetical order.

readv.2
  mtk
    A fairly substantial rewrite, which among other things
    fixes the problem reported by Kyle Sluder in
    http://bugzilla.kernel.org/show_bug.cgi?id=8399
    And added some example code.

sigaction.2
  mtk
    Added text referring to the discussion of async-signal-safe
    functions in signal(7).
    A few other minor formatting and wording changes.

signal.2
  mtk
    Moved the discussion of async-signal-safe functions to signal(7).
    Added text referring to the discussion of async-signal-safe
    functions in signal(7).
    Added SEE ALSO entries referring to new bsd_signal.3 and
    sysv_signal.3 pages.

copysign.3
  Bruno Haible
    Clarify discussion of negative zero.

getopt.3
  mtk
    Add SEE ALSO ref to new getsubopt.3.

iconv_open.3
  Bruno Haible
    Describe the glibc/libiconv //TRANSLIT and //IGNORE extensions
    for 'tocode'.

iswblank.3
  Bruno

Haible
    Update CONFORMING TO; iswblank() is in POSIX.1-2001.

inotify.7
  mtk
    Definitions for IN_DONT_FOLLOW, IN_MASK_ADD, and IN_ONLYDIR
    were added to glibc in version 2.5.

signal.7
  mtk
    Incorporated (and slightly modified) the text on
    async-signal-safe functions that was formerly in signal(2).
    Added SEE ALSO entries referring to new bsd_signal.3 and
    sysv_signal.3 pages.

========== Changes in man-pages-2.50 ==========

Released: 2007-05-21

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Andreas Halter <halter@google.com>
Laird Shaw <netocrat@dodo.com.au>
Mike Frysinger <vapier@gentoo.org>

Apologies if I missed anyone!

Removed pages (!)

Most Section 1 man pages are removed
  mtk (with help from Mike Frysinger, Laird Shaw, Andreas Halter)
    Once upon time Andries added a number of Section
1 manual pages
    to man-pages. However, since that time, those pages have not
    seen much maintenance, and are not in fact distributed in most
    distributions. Instead most distributions supply the
    coreutils versions of these pages, which are currently
    maintained. In addition, man-pages provides the 1p pages,
    which document the portable subset of functionality of these
    commands. Since the man1 pages are mostly unneeded, and
    out of date, I'm removing them. The following pages disappear:

chgrp.1
chmod.1
chown.1
cp.1
dd.1
df.1
diff.1
dir.1
dircolors.1
du.1
install.1
ln.1
ls.1
mkdir.1
mkfifo.1
mknod.1
mv.1
rm.1
rmdir.1
touch.1
vdir.1

The following Section 1 pages will
be kept:

intro.1
ldd.1
time.1

========== Changes in man-pages-2.51 ==========

Released: 2007-05-28

Global changes

Various pages
  mtk
    (Hopefully) all cross references outside a page now include a
    section number. This should permit better resulting output
    from a man2html-type conversion.

Various pages
  mtk
    Convert function formatting of the form "\fBname\fP()" to
    ".BR name ()".

Changes to individual pages
---

futimesat.2
  mtk
    s/futimes/futimesat/ in .SH NAME line.

msgop.2
  mtk
    Put "msgrcv" and "msgsnd" in .SH NAME line.

mount.2
  mtk
    Add "umount2" to .SH NAME line.

wait.2
  mtk
    Add "waitid" to .SH NAME line.

getopt.3
  mtk
    Add "getopt_long" and "getopt_long_only" in .SH NAME line.

sem_wait.3
  mtk
    Add "sem_timedwait" and "sem_trywait" to .SH NAME line.

stdarg.3
  mtk
     Add "va_start", "va_arg", "va_end", "va_copy" to .SH NAME line.

========== Changes in man-pages-2.52 ==========

Released: 2007-05-29

  "A foolish consistency is the hobgoblin of little minds, adored by
   little statesmen and philosophers and divines"

    Ralph Waldo Emerson (1803-1882)

  "But damn it, these man pages are a mess!"

Global changes

Most of the changes below are about bringing greater consistency
to manual pages, including reducing the wide range of .SH
Section headings.

Typographical or grammatical errors have been corrected in several
places.

Various pages
  mtk
    Make 'manual' component of .TH line into the string
    "Linux Programmer's Manual".
    Reason: consistency.

Various pages
  mtk
    Changed date in .TH line into form YYYY-DD-MM.
    Reason: consistency.

Various pages
  mtk
    Some .SH header lines were made into .SS lines. (One of the aims
    here is to
 reduce the number of non-standard .SH lines.)

Various pages
  mtk
    Change title .SH sections named "NOTE" to "NOTES", in some cases
    also changing the location of the section within the page.
    Reason: consistency.

Various pages
  mtk
    Commented out .SH AUTHOR sections; the right place for
    documentation authorship sections is usually comments at the
    top of the page source.

Various pages
  mtk
    Changed .SH HISTORY to .SH VERSIONS.
    Reason: in many cases, HISTORY was being used to describe
    Linux/glibc version information, as was already done for
    VERSIONS sections in other pages.

Various pages
  mtk
    Removed HISTORY section, or moved it as a subsection or paragraphs
    under another section e.g., NOTES.
    Reason: there are too many arbitrary section (.SH) names, and

a HISTORY section never was consistently used across Linux
manual pages.

Various pages
mtk
Moved
SEE ALSO section to be last section on the page
Reason: consistency -- and this is where SEE ALSO should be!

Various pages
mtk
Relocated GLIBC NOTES as subsection under NOTES
Reason: reduce number of arbitrary section (.SH) names.

Various pages
mtk
Relocated LINUX NOTES as subsection under NOTES
Reason: reduce number of arbitrary section (.SH) names.

Various pages
mtk
Renamed some "AVAILABILITY" sections to "VERSIONS".
Reason: consistency.

Various pages
mtk
Renamed some "DIAGNOSTICS" sections to "RETURN VALUE".
Reason: consistency.

getopt.3
tzselect.8
mtk
s/\.SH ENVIRONMENT VARIABLES/.SH ENVIRONMENT/
Reason: consistency.

intro.2
select.2
sysctl.2
bsearch.3
dlopen.3
envz_add.3
fmtmsg.3
getgrent_r.3
getgrouplist.3
getpwent_r.3
getutent.3
hsearch.3
rtime.3

strptime.3
tsearch.3
vcs.4
wordexp.3
  mtk
    s/return 0/exit(EXIT_FAILURE)/ in main() of function example

   program.
    Reason: consistency.

mprotect.2
select_tut.2
dlopen.3
getgrent_r.3
getopt.3
getpwent_r.3
hsearch.3
select_tut.2
tsearch.3
  mtk
    Use symbolic constants (EXIT_SUCCESS, EXIT_FAILURE) in calls
    to exit().
    Reason: consistency.

access.2
chown.2
lseek.2
open.2
read.2
utmp.5
  mtk
    Renamed RESTRICTIONS section to NOTES, or moved text in a
    RESTRICTIONS section under existing NOTES section.
    Reason: consistency, and reduce number of arbitrary section (.SH)
    names.

Changes to individual pages
----

capget.2
  mtk
    s/\.SH FURTHER INFORMATION/.SH NOTES/

dup.2
  mtk
    s/\.SH WARNING/.SH NOTES/

kill.2
  mtk
    Renamed LINUX HISTORY section to LINUX NOTES, and relocated
    within page.

select_tut.2
  mtk
    Relocated example program and made its .SH title "EXAMPLE".

sigaltstack.2
  mtk
    Move code example into its own EXAMPLE section.

sigreturn.2

 mtk
    s/\.SH WARNING/.SH NOTES/

setuid.2
  mtk
    s/\.SH "LINUX-SPECIFIC REMARKS"/.SH LINUX NOTES/

shmget.2
  mtk
    Remove section about effect of fork()/exec()/exit(); shmop.2
    contains the same text, and it only needs to be said once.

shmop.2
  mtk
    Minor rewording under DESCRIPTION.

daemon.3
  mtk
    Minor wording and formatting changes.

encrypt.3
  mtk
    Removed statement that glibc unconditionally exposes declarations
    of encrypt() and setkey(), since portable applications must
    use <unistd.h> and define _XOPEN_SOURCE to obtain the declarations
    of setkey() and encrypt(). Adjusted example program accordingly.

mkstemp.3
  mtk
    Slight rewording.

LDP.7
  mtk

Minor wording and formatting changes.

man.7
  mtk
    Substantial rewrite, revising and extending the discussion
    about desired conventions for writing pages.
    There will be further updates to this page in the
 next few
    man-pages releases.

========== Changes in man-pages-2.53 ==========

Released: 2007-05-30

  "A foolish consistency is the hobgoblin of little minds, adored by
   little statesmen and philosophers and divines"

    Ralph Waldo Emerson (1803-1882)

  "But damn it, these man pages are a mess!"

Global changes

Many many pages
  mtk
    Reordered sections to be more consistent, in some cases renaming
    sections or shifting paragraphs between sections.

man7/*
  mtk
    In various pages in this section, .SH headings were
    converted to .SS.

========== Changes in man-pages-2.54 ==========

Released: 2007-06-07

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Emmanuel Mogenet <emogenet@google.com>

Michael Berg <michaeljberg@gmail.com>

Apologies if I missed anyone!

Global changes

Various
 pages
  mtk
    Where there is an instruction in the SYNOPSIS about linking
    or compiling with a certain option, the option is now
    marked up in italics (e.g., "\fI-lm\fP").

Various pages
  mtk
    Added page numbers to page cross references.

A few pages
  mtk
    s/manpage/man page/, for consistency.

Typographical or grammatical errors have been corrected in several
places.

New pages
---

man-pages.7
  mtk
    A description of the conventions that should be followed
    when writing pages for the man-pages package.

Removed pages
---

man1/README
  mtk
    Already deleted most of the man1 pages previously, so
    this doesn't need to stay.

LDP.7
  mtk
    Removed this page since it is out of date, and the proper place
    to go for up-to-date information is http://www.tldp.org/

ksoftirq.9
  mtk
    Reason: this was the only Section 9 page, and it is old
    (Linux 2.4). The
man9 section never took off as an idea, and
    I see little point in keeping a Section 9 with just a single
    old page.

Changes to individual pages

HOWTOHELP
  mtk
    Moved some material out of here into new man-pages.7.

alloc_hugepages.2
  mtk
    Minor rewrites, eliminating some duplication, and removing
    some outdated text.

epoll_pwait.2
  Michael Berg
    Fix broken link path;
    http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=425570

fcntl.2
  mtk
    Remove misleading text about setting O_ASYNC when calling
    open(); one must use fcntl() F_SETFL for this task.

fdatasync.2
  mtk
    Converted outdated BUGS note about fdatasync() being
    equivalent to fsync() on Linux 2.2 into a NOTES note
    about this historical behavior.

futex.2
  mtk
    Small rewording to fix "fails with the error EWOULDBLOCK"
    rather than "returns EWOULDBLOCK".
    See Red Hat bug 172828.

mprotect.2
   mtk, after an observation by Emmanuel Mogenet
    A much improved example program.
  mtk
    Significant rewrites and additions to description.

mremap.2
  mtk
    Remove text about the nonexistent BSD mremap() -- too
    much information, in my opinion.

sched_yield.2
  mtk
    Added ERRORS section.

set_mempolicy.2
  mtk
    Moved text for "Versions and Library Support".

set_tid_address.2
  mtk
    Small rewording in RETURN VALUE section.

sigaction.2
  mtk
    Add EXAMPLE section with a pointer to example in mprotect.2.

sync_file_range.2
  mtk
    Fix return type in SYNOPSIS. Add RETURN VALUE section.

atexit.3
  mtk
    Small rearrangement of text under NOTES.

bindresvport.3
  mtk
    Rewrite and substantial additional text.

exec.3
  mtk
    Minor clarifications for text on execlp() and execvp(). Removed
    FILES section, since it provides no useful additional info.

fenv.3
  mtk

   Moved link instructions from NOTES to SYNOPSIS.
    Added feenableexcept, fedisableexcept, fegetexcept
    to .SH NAME list.

fputwc.3
  mtk

Added 'putwc' to .SH NAME list.

gethostbyname.3
  mtk
    s/int/socklen_t/ for type of gethostbyaddr() 'len' argument,
    and add a few more words in NOTES about the type used here.

login.3
  mtk
    Removed remark from NOTES about linking with -lutil; add
    text on that point to SYNOPSIS.

openpty.3
  mtk
    Removed redundant remark from NOTES about linking with -lutil
    since there is text on that point under SYNOPSIS.

sysconf.3
  mtk
    Added SEE ALSO referring to getconf(1).

unlocked_stdio.3
  mtk
    Revised .SH NAME section.

ascii.7
  mtk
    Minor rearrangement of order of text.

capabilities.7
  mtk
    s/exec()/execve(2)/ in various places.

complex.7
  mtk
    Changed "atan(1)" to "atan(1.0)" to prevent some versions of
    man2html(1) from
 mistaking that string as a page cross reference.

rtnetlink.7
  mtk
    Small restructuring to avoid 'cannot adjust line' from man(1).

ldconfig.8
  mtk
    Removed now very out-of-date sentence about need to link shared
    libraries with -lc.

man.7
  mtk
    Various text was moved out of this page into the new man-pages.7.

mdoc.7
  mtk
    Added SEE ALSO referring to new man-pages.7.

mdoc.samples.7
  mtk
    A few changes, hopefully done right, to eliminate some
    errors to stderr when rendering with man(1).

rtnetlink.7
  mtk
    Shorten a line in table so it fits in 80 columns.
    Minor rewording under BUGS.

tzselect.8
  mtk
    Moved EXIT STATUS section.

========== Changes in man-pages-2.55 ==========

Released: 2007-06-10

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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 Hess <joeyh@debian.org>
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Julien Cristau <jcristau@debian.org>
Justin Pryzby <justinpryzby@users.sourceforge.net>
Martin (Joey) Schulze <joey@infodrom.org>
Mike Frysinger <vapier@gentoo.org>
Serge van den Boom <svdb@stack.nl>
Ulrich Drepper <drepper@redhat.com>
Xose Vazquez Perez <xose.vazquez@gmail.com>

Apologies if I missed anyone!

Global changes
---

clone.2
getdents.2
gettid.2
ioprio_set.2
llseek.2
mmap2.2
modify_ldt.2
mq_getsetattr.2
pivot_root.2
quotactl.2
readdir.2
sysctl.2
syslog.2
tkill.2
  mtk, after a note by Mike Frysinger
    Updated to reflect the fact that the _syscallN() macros
    have gone away,

Several pages
  mtk
    Change reference to path_resolution.2 to path_resolution.7.

Typographical or grammatical errors have been corrected in several
places.

Moved pages
---

path_resolution.2 has been moved to section 7, thus path_resolution.7
  mtk
    Reason: this is an overview
 page, not one describing as
    a specific system call.

Changes to individual pages

MAINTAINING
  mtk, after a note from Xose Vazquez Perez
    Added pointer to Red Hat man-pages bugzilla.
  mtk
    Added a release philosophy note on separating out big
    formatting changes into their own release that contains minimal

content changes.

accept.2
mtk
Add new EXAMPLE section with pointer to example in bind.2.

arch_prctl.2
mtk
Added RETURN VALUE section.

bind.2
mtk
Expand example program, and move it to new EXAMPLE section.
Added text pointing to example in getaddrinfo.3.

cacheflush.2
mtk
Convert NOTES section to CONFORMING TO and note that
this call is Linux-specific.
Other minor rewordings.

connect.2
mtk
Added new EXAMPLE section pointing to example in getaddrinfo.3.

create_module.2
mtk
Add ENOSYS error.

fcntl.2
flock.2

mtk
Small rewrite of SEE ALSO text pointing to Documentation/* in
kernel source.

get_kernel_syms.2
mtk
Added ERRORS heading
Add ENOSYS error.

getdtablesize.2
mtk
Added an ERRORS section.

getsid.2
mtk
Added a RETURN VALUE section.

getpid.2
  mtk
    Added an ERRORS section (stating that the calls are
    always successful).

ioctl_list.2
  mtk
    Add SEE ALSO reference to ioctl.2.

listen.2
  mtk
    Add new EXAMPLE section with pointer to example in bind.2.

query_module.2
  Martin (Joey) Schulze
    Add ENOSYS error.

recv.2
  mtk
    Added new EXAMPLE section pointing to example in getaddrinfo.3.

sched_get_priority_max.2
sched_rr_get_interval.2
sched_setscheduler.2
sched_yield.2
  mtk
    Modified .TH line

send.2
  mtk
    Added new EXAMPLE section pointing to example in getaddrinfo.3.

set_tid_address.2
  mtk
    Added an ERRORS section (stating that the call is

    always successful).

signal.2
  mtk, after a note from Alexander Taboriskiy
    Strengthen warning against the use of signal().
    Added siginterrupt(3) to SEE ALSO list.
  mtk
    Rewrote various parts; added an ERRORS section.

socket.2
  mtk

Added new EXAMPLE section pointing to example in getaddrinfo.3.

stat.2
  mtk
    Added EXAMPLE program.

syscall.2
  mtk
    Converted to -man format; some rewrites; added an EXAMPLE.

sysctl.2
  mtk
    Improved the example program.

getnameinfo.3
  mtk
    Add text pointing to example in getaddrinfo.3.

getaddrinfo.3
  mtk
    Add example programs.
    Add getnameinfo() to SEE ALSO list.

memmove.3
  mtk / Serge van den Boom
    Clarify discussion of what happens if 'src' and 'dest' overlap.

regex.3
  Justin Pryzby
    Add grep(1) to SEE ALSO list.

sigpause.3
  mtk after a note from Ulrich Drepper
    Clarify discussion of feature test macros that are needed
 to
    expose System V and BSD versions of this function in glibc.

undocumented.3
  mtk
    Removed some functions that have been documented.

wprintf.2
  Martin (Joey) Schulze
    Remove wscanf.3 from SEE ALSO list, since that page does not exist.

utmp.5
  Joey Hess
    Removed outdated note on xdm.

See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=418009
Martin (Joey) Schulze
Removed outdated note about Debian and libc5.

bootparam.7
Martin (Joey) Schulze
Fix order of commands listed under 'init='.

hier.7
Joey Hess
Add /media, remove /dos.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=418234

inotify.7
mtk
Added text describing what happens when the buffer given to
read(2) is too small to return information about the next event,
and noting the behavior change in 2.6.21.

man-pages.7
mtk
Added text to note that ERRORS list should be in alphabetical order.

mdoc.7
mdoc.samples.7
mtk
Added SEE ALSO reference to groff_mdoc(7).

unix.7
mtk
Added EXAMPLE section with pointer to bind.2 EXAMPLE.

ld.so.8
mtk
Simplify text describing --inhibit-rpath.
mtk, after a note by John Reiser
Describe use of $ORIGIN in rpath.

========== Changes in man-pages-2.56 ==========

Released: 2007-06-11

Global changes

Many pages
mtk

Removed version numbers in .TH lines.
Reason: these were only arbitrarily updated, and so impart no
useful information. Version information goes into a
VERSIONS section nowadays, and the date in the .TH line should
be updated to reflect the date of the last (significant)
change to the page.

Typographical or grammatical errors have been corrected in several
places.

========== Changes in man-pages-2.57 ==========

Released: 2007-06-17

Contributors

The following people
contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Samuel Thibault <samuel.thibault@ens-lyon.org>

Apologies if I missed anyone!

Global changes

Many pages
mtk
Fix section numbers in page cross references.

Changes to individual pages
---

access.2
mtk
Minor wording fixes.
Small clarification of description of 'mode'.

bind.2
mtk
Small reworking of EXAMPLE program.

exit_group.2

mtk
Minor wording fixes.

exit.3
mtk
Added more detail on exit handlers.
Minor wording fixes.

ioctl.2
mtk
Remove SEE ALSO reference to nonexistent mt.4.

modify_ldt.2
Samuel Thibault / mtk
In Linux 2.6, the 'modify_ldt_ldt_s' structure was renamed
'user_desc'.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=378668
mtk
Include definition of 'user_desc' structure.
Minor rewordings.

mprotect.2
mtk
Small reworking of EXAMPLE program.

sigaction.2
mtk
Removed reference to nonexistent sigsend(2).

a64l.3
mtk
Remove SEE ALSO reference to nonexistent itoa.3.

dysize.3
mtk
Removed SEE ALSO reference to nonexistent time.3.

encrypt.3
mtk
Removed SEE ALSO reference to nonexistent fcrypt.3.

fmemopen.3
mtk
Small reworking of EXAMPLE program.

fpurge.3
mtk
Remove SEE ALSO reference to nonexistent fclean.3.

getutent.3
  mtk
    s/ttyname(0)/ttyname(STDIN_FILENO)/ in program example.

vcs.4
  mtk
    s/exit(1)/exit(EXIT_FAILURE)/

environ.7
  mtk
    Correct some section numbers in page cross references.

man-pages.7
  mtk
    Modify requirements for example programs a little.

uri.7
  mtk
    Wrapped long source lines.

========== Changes in man-pages-2.58 ==========

Released: 2007-06-24

Contributors

The following people contributed
 notes, ideas, or patches that have
been incorporated in changes in this release:

Marc Boyer <marc.boyer@enseeiht.fr>
Mike Frysinger <vapier@gentoo.org>

Apologies if I missed anyone!

Global changes

Various pages, as detailed below
  mtk
    Added or updated VERSIONS sections.

killpg.2
setuid.2

faccessat.2
fork.2
setfsuid.2
kill.2
getsid.2
wait.2
execve.2
getpid.2
setgid.2
seteuid.2
setresuid.2
setfsgid.2
access.2
initgroups.3
euidaccess.3
tcgetpgrp.3
path_resolution.7
capabilities.7
unix.7
  mtk
    Add SEE ALSO link to new credentials.7.

New pages
----

credentials.7
  mtk
    An overview of Linux process identifiers (PIDs, PPIDs,
    PGIDS, SIDs, UIDs, GIDs).

Changes to individual pages
----

bind.2
  mtk
    Added some comments to example program.

getxattr.2
  mtk
    VERSIONS: In kernel since 2.4; glibc support since 2.3.

listen.2
  mtk
    Updated discussion of somaxconn limit.

listxattr.2

mtk
VERSIONS: In kernel since 2.4; glibc support since 2.3.

posix_fadvise.2
mtk
VERSIONS: Glibc support has been provided since version 2.2.

readahead.2
mtk
Added VERSIONS section.

remap_file_pages.2
mtk
Updated VERSIONS section with text on glibc support.

removexattr.2
mtk
VERSIONS: In kernel since 2.4; glibc support since 2.3.

semop.2
mtk
Added VERSIONS section with info on semtimedop().

setxattr.2
mtk
VERSIONS: In kernel since 2.4; glibc support since 2.3.

dl_iterate_phdr.3
mtk
VERSIONS: Supported since glibc 2.2.4.

getloadavg.3
mtk
Added VERSIONS section.

posix_openpt.3
mtk
VERSIONS: Supported since glibc 2.2.1.

printf.3
mtk after a suggestion by Mike Frysinger
Add text to the introductory part of DESCRIPTION, about the
'size' argument of snprintf() and vsnprintf().

shm_open.3
mtk
Added VERSIONS section; rewrote

info about linking with -lrt.

strcat.3
  Marc Boyer
    Improve the discussion of strncat().

strcpy.3
  Marc Boyer
    Improve the discussion of strncpy().

proc.5
  mtk
    Added discussion of /proc/sys/net/core/somaxconn.

========== Changes in man-pages-2.59 ==========

Released: 2007-06-25

Global changes

Manual pages are now standardized on American spelling. See
http://en.wikipedia.org/wiki/American_and_British_English_spelling_differences
for more information on the differences. Formerly, different pages (and
sometimes even a single page!) employed American and British spelling
conventions; best to standardize on one spelling, and American English
is the standard in Computer Science.

Changes to individual pages
---

man-pages.7
  mtk
    Note that man-pages has now standardized on American spelling
    conventions.

execve.2
getxattr.2
listxattr.2
removexattr.2
setxattr.2
signal.2
syscall.2
aio_cancel.3
bindresvport.3
stdarg.3
charmap.5

bootparam.7
ipv6.7
man.7
path_resolution.7
uri.7
nscd.8
  mtk
    Corrected minor spelling/wording mistakes (i.e., changes
    independent of fixes for American spelling).

========== Changes in man-pages-2.60 ==========

Released: 2007-06-25

Global changes

Various pages
  mtk
    Wrapped lines in some files.

Various pages
  mtk
    Change "e.g. " to "e.g., ", or in some cases, "for example, ".

Various pages
  mtk
    Change "i.e. " to i.e., ", or in some cases, "that is, ".

Various pages
  mtk
    Removed AUTHORS section.

Typographical or grammatical errors have been corrected in several
places.

Changes to individual pages
---

vfork.2
  mtk
    s/w.r.t/with respect to/

man-pages.7
  mtk

Strengthened warning against use of AUTHORS section.

========== Changes in man-pages-2.61 ==========

Released:
2007-07-01

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Jeff Schroeder <jeffschroeder@computer.org>
Joey (Martin) Schulze <joey@infodrom.org>
Justin Pryzby <justinpryzby@users.sourceforge.net>
Loïc Minier <lool@dooz.org>
Michael Gehring <mg@ebfe.org>
Serge van den Boom <svdb@stack.nl>
Stefan Puiu <stefanpuiuro@yahoo.com>
Stepan Kasal <kasal@ucw.cz>

Apologies if I missed anyone!

Global changes

Various pages
  mtk
    substitute `\\0' by '\\0'.

Various pages
  mtk
    s/`'/ when the thing being quoted is a character.

accept.2
bind.2
connect.2
getsockopt.2
listen.2
socket.2

socketpair.2
  mtk after a note by Martin (Joey) Schulze
      Add NOTES paragraph noting that <sys/types.h> isn't required
 by
      POSIX.1-2001 or Linux, but was required on some implementations.

accept.2
getsockname.2
recv.2
vm86.2
send.2
getgrouplist.3
memmem.3
nsswitch.conf.5
putenv.3
wprintf.3
  mtk
      Replace form `...' with \fI...\fP where the enclosed string
      is a pathname, type name, or argument name.

A few files
  mtk
      s/process' /process's/

gets.3
qsort.3
getaddrinfo.3
rpc.3
ungetwc.3
wcsnrtombs.3
capabilities.7
  mtk
      Add section number to page cross references.

time.1
bind.2
pivot_root.2
sysctl.2
  mtk
      Reordered .SH sections.

full.4
mouse.4
random.4
sd.4
  mtk
      Made CONFIG/CONFIGURING heading ==> CONFIGURATION

time.1
console_codes.4
random.4
sk98lin.4
charmap.5
ftpusers.5
bootparam.7
charsets.7
glob.7
mq_overview.7
unicode.7
uri.7
utf-8.7
  mtk
    Reformatted headings

New pages
----

backtrace.3
  mtk, with input from Justin Pryzby and Stefan Puiu
    Documents backtrace(), backtrace_symbols(), and
    backtrace_symbols_fd().

New
 links
----

backtrace_symbols.3
backtrace_symbols_fd.3
  mtk
    Links to backtrace.3.

__clone.2
  Stepan Kasal
    Link to clone.2.

Changes to individual pages

Makefile
  Serge van den Boom
    Fix setting of 'prefix' macro.

eval.1p

Benno Schulenberg
Fix bad text (concatenated line).

chdir.2
mtk
Fixed description of EACCES error.
Added sentence defining "current working directory".
Other minor wording changes.

cfree.3
mtk
Added SEE ALSO section.

clone.2
mtk
s/clone2/__clone2/.

fdatasync.2
mtk
Minor wording changes.

fork.2
Alain Portal
Fix small wording error.

gethostid.2
Stefan Puiu / mtk
Add NOTES on what happens if gethostid() can't open /etc/hostid.

idle.2
mtk
Made NOTES text into a VERSIONS section, since that's what it
really describes.

ioperm.2
mtk
Minor wording changes.

intro.2
mtk
Rewrite to reflect the fact that the _syscallN
macros are no longer available.

io_cancel.2
mtk
Add "Link with -laio" to SYNOPSIS.

io_destroy.2

mtk
Add "Link with -laio" to SYNOPSIS.

io_getevents.2
mtk
Add "Link with -laio" to SYNOPSIS.

io_setup.2
mtk
Add "Link with -laio" to SYNOPSIS.

io_submit.2
Ivana Varekova
Fix include in SYNOPSIS.
mtk
Add "Link with -laio" to SYNOPSIS.

ipc.2
mtk
Add semtimedop() to SEE ALSO.
Note that some architectures don't have ipc(2); instead
real system calls are provided for shmctl(), semctl(), etc.

killpg.2
mtk
Minor wording changes.

listen.2
mtk
Added <sys/types.h> to SYNOPSIS.

sched_setscheduler.2
mtk
Add NOTES para about permissions required to call
sched_setscheduler() on other systems.

select.2
mtk
Noted that 'timeout' can also be changed if select()
is
interrupted by a signal.

setup.2
mtk
Remove reference to _syscall0() macro.

shmop.2
mtk

Changed text for EINVAL error.

socketcall.2
mtk
Add recvmsg() and sendmsg() to SEE ALSO.
Note that some architectures don't have socketcall(2); instead
real system calls are provided for socket(), bind(), etc.

swapon.2
Ivana Varekova / mtk
Update text for EPERM error describing the maximum number of
swap files. (From downstream Fedora patch.)

write.2
mtk
Added details about seekable files and file offset.
Noted that write() may write less than 'count' bytes, and
gave some examples of why this might occur.
Noted what happens if write() is interrupted by a signal.
Minor wording changes.

__setfpucw.3
mtk
Added a CONFORMING TO section; other minor edits.

confstr.3
mtk
Minor rewrites in code example.

ctime.3
Justin Pryzby
Make SEE ALSO
refer to timegm.3

daemon.3
mtk
Small wording change.

dl_iterate_phdr.3
Michael Gehring
Comment was missing closing "*/".

dlopen.3
mtk
Formatting changes, and minor rewordings.
mtk, after a note by Serge van den Boom
Add a comment explaining the need for the rather
strange cast of the return value of dlsym().

fpclassify.3
  mtk
    Add "isinf" to NAME section.

getgrouplist.3
  mtk
    Minor rewording.

getline.3
  mtk
    Minor rewording, and note that '*n* is ignored
    if '*lineptr' is NULL.

malloc.3
  Ivana Varekova / mtk
    Update description of MALLOC_CHECK_ to include description
    for value 3. (From downstream Fedora patch.)

netlink.3
  mtk
    Added a CONFORMING TO section; other minor edits.

openpty.3
  mtk
    Minor changes to SYNOPSIS.

program_invocation_name.3
  mtk
    Shortened page title to INVOCATION_NAME.

rtnetlink.3
  mtk
    Added a CONFORMING
 TO section; other minor edits.

scanf.3
  Florian Ernst
    Fix duplicated word "the".
    (Really fix http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=412467 !)

select_tut.3
  mtk
    Small wording change.

setnetgrent.3
  mtk
    Added a CONFORMING TO section.

sigpause.3
  mtk
    Added a CONFORMING TO section.

strftime.3
  Just Pryzby
    Small wording fix.
  mtk
    Note use of "gcc -Wno-format-y2k" to avoid the "`%c' yields only
    last 2 digits of year in some locales" warning.

strstr.3
  mtk
    Add "strcasestr" to NAME section.

syslog.3
  mtk
    Small wording change.

termios.3
  mtk
    Reformat SYNOPSIS.
    Added a CONFORMING TO section.

timegm.3
  mtk
    Small wording changes.

ulimit.3
  mtk
    Remove erroneous text saying that glibc does not provide
    <ulimit.h>; it does.

initrd.4
  mtk
    Various reformattings.

core.5
  mtk
    Added a sentence noting why core
 dumps named "core.PID" were useful
    with LinuxThreads.

bootparam.7
  mtk
    Fix capitalization in .SS headings.

epoll.7
  mtk
    Language clean ups.

feature_test_macros.7
  mtk
    Added SEE ALSO section.

mq_overview.7
  mtk
    Reformatted headings; minor rewrites.

sem_overview.7
  mtk
    Reformatted headings; minor rewrites.

socket.7
  Loïc Minier <lool@dooz.org>
    Document argument type for SO_REUSEADDR.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=255881

uri.7
  mtk
    Wrap long line in SYNOPSIS.

ldconfig.8
  mtk
    Added SEE ALSO section.

========== Changes in man-pages-2.62 ==========

Released: 2007-07-09

This release consists solely of formatting fixes. There are no changes
to content.

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Stepan Kasal <kasal@ucw.cz>

Apologies if

I missed anyone!

Global changes

Many many pages
  mtk
    Many many formatting fixes.

man[013]p/*
  Stepan Kasal
    Add section number to .TH line for POSIX pages in man[013]p.

========== Changes in man-pages-2.63 ==========

Released: 2007-07-16

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Pierre Habouzit <madcoder@debian.org>
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Apologies if I missed anyone!

Global changes
---

gettimeofday.2
madvise.2
msgctl.2
select.2
semctl.2

shmctl.2
syslog.2
stat.2
a64l.3
printf.3
termios.3
xdr.3
sd.4
  mtk
    Minor wording changes.

obsolete.2
syscall.2
unimplemented.2
  mtk
    Added SEE ALSO reference to syscalls.2.

New pages
----

sgetmask.2
  mtk
    A real man page for sgetmask(2) and ssetmask(2).
    (This page replaces a previous link of the same name, which
    linked to signal.2.)

spu_create.2
  Arnd Bergmann with additional work by Eduardo M. Fleury and mtk
    Document the PowerPC SPU spu_create() system call.
    (Originally taken from the kernel source file
    Documentation/filesystems/spufs.txt.)

spu_run.2
  Arnd Bergmann with additional work by Eduardo M. Fleury and mtk
    Document the PowerPC SPU spu_run() system call.
    (Originally taken from the kernel source file
    Documentation/filesystems/spufs.txt.)

spufs.7
  Arnd Bergmann with additional work by Eduardo M. Fleury and mtk
    Document the PowerPC SPU file system.
    (Originally taken from the kernel source file
    Documentation/filesystems/spufs.txt.)

Removed

Pages

__clone.2
  mtk
    This file was created by accident in 2.61, as a copy of clone.2.
    (it should have been a link to clone.2.)

obsolete.2
  mtk
    Details on this page are covered in syscalls.2 and in
    respective syscall man pages (stat.2, uname.2).

undocumented.2
  mtk
    This page is very out of date, and in any case difficult
    to maintain. Information about undocumented system calls
    is maintained in the HOWTOHELP file, and probably in other
    places soon.

killpg.3
  mtk
    This rather incomplete page seems unnecessary since there
    is a killpg.2.

New links
---

chown32.2
fchown32.2
getegid32.2
geteuid32.2
getgid32.2
getgroups32.2
getresgid32.2
getresuid32.2
getuid32.2
lchown32.2
setfsgid32.2
setfsuid32.2
setgid32.2
setgroups32.2
setregid32.2
setresgid32.2
setresuid32.2
setreuid32.2
setuid32.2

mtk
Added as link to corresponding page without "32".

fcntl64.2
fstat64.2
fstatat64.2
fstatfs64.2
ftruncate64.2
getdents64.2
lstat64.2
pread64.2
pwrite64.2
sendfile64.2
stat64.2
statfs64.2
truncate64.2
mtk
Added as link to corresponding page without "64".

__clone2.2
clone2.2
mtk
Links to clone.2.

ugetrlimit.2
mtk
Link to getrlimit.2.

mq_notify.2
mq_open.2
mq_timedreceive.2
mq_timedsend.2
mq_unlink.2
mtk
Added as links to corresponding section 3 pages.

fadvise64.2
fadvise64_64.2
mtk
Links to posix_fadvise.2.

rt_sigaction.2
rt_sigpending.2
rt_sigprocmask.2
rt_sigtimedwait.2
mtk
Added as link to corresponding page without "rt_" prefix.

rt_sigqueueinfo.2
  mtk
    Link to sigqueue.2.

madvise1.2
tuxcall.2
vserver.2
  mtk / Ivana Varekova
    Link to unimplemented.2.

Changes to individual pages
---

access.2
  mtk
    Fairly substantial rewrites of various parts,
    and a few additions.

chmod.2

 mtk
    Update SYNOPSIS to reflect the fact that fchmod(2) needs
    either "#define _XOPEN_SOURCE 500" or "#define _BSD_SOURCE".

chown.2
  mtk
    Update SYNOPSIS to reflect the fact that fchmod(2) and lchown(2)
    need either "#define _XOPEN_SOURCE 500" or "#define _BSD_SOURCE".
    Added an example program.

killpg.2
  mtk
    Note that killpg() is actually a library function on Linux.

mmap.2
  mtk
    Added note that glibc mmap() wrapper nowadays invokes mmap2().

mmap2.2
  Ivana Varekova / mtk
    On most platforms the unit for 'offset' is 4096 bytes, not
    the system page size.
  mtk
    Rewrote NOTES to note that glibc mmap() wrapper nowadays
    invokes this system call.
  mtk

Added an EXAMPLE program.

oldfstat.2
oldlstat.2
oldstat.2
  mtk
    Changed link to point to stat.2 (instead of obsolete.2).

olduname.2
oldolduname.2
  mtk
    Changed link to point to uname.2 (instead of obsolete.2).

sched_setaffinity.2
   Martin Röhricht
    Added _GNU_SOURCE to SYNOPSIS.

semctl.2
  mtk
    Remove reference discussion of ipc(2), since none of the
    other System V IPC pages mention ipc(2).

semop.2
  mtk
    Add an example code segment.

shmctl.2
  mtk
    Add svipc(7) to SEE ALSO list.

sigaction.2
  mtk
    Reformatted tables as lists; other minor reformattings and
    wording changes.

sigqueue.2
  mtk
    Added info on rt_sigqueueinfo(2).

sigwaitinfo.2
  mtk
    Noted that sigwaitinfo() is a library function implemented on
    top of sigtimedwait().

ssetmask.2
  mtk
    Make this link point to new sgetmask.2 instead of signal.2.

stat.2
  mtk
    Add notes on the different system call interfaces that
    have appeared over time.

syscalls.2
  mtk
    A fairly substantial rewrite of this page,
    bringing it up to date with the current
    kernel version, and listing all system calls
    in
 tabular form.

uname.2
  mtk
    Add notes on the different system call interfaces that
    have appeared over time.

unimplemented.2
  mtk
    Add vserver, madvise1 to NAME line.
    Removed SEE ALSO reference to obsolete.2.
  Ivana Varekova
    Add tuxcall to NAME line.

mktemp.3
  Patrick Mansfield
    Fix description of return value.

strcat.3
  Marc Boyer
    Minor fix to example program.

undocumented.3
  mtk
    Add section numbers to function names; remove some functions
    since they are documented.

proc.5
  mtk
    Update/correct text on /proc/malloc.
  mtk, after a note by Pierre Habouzit, and a few comments by Justin Pryzby
    Update description of /proc/PID/stat to match 2.6.21.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=417933

inotify.7
  mtk
    IN_DONT_FOLLOW and IN_ONLYDIR are only available from 2.6.15.

signal.7
  Stepan Kasal / mtk
    Note SIGRTMIN value depends on glibc.
  mtk
    Various rewrites and additions to the text in real-time signals.
    Add SEE ALSO reference to sgetmask.2.

svipc.7
  mtk
    Add ipc(2) to SEE ALSO.

========== Changes in man-pages-2.64 ==========

Released: 2007-07-27

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Aleksandr Koltsoff <czr@iki.fi>
Andries Brouwer <Andries.Brouwer@cwi.nl>
Justin Pryzby <justinpryzby@users.sourceforge.net>

Apologies if I missed anyone!

Global changes

INFINITY.3
_exit.2
a64l.3
abs.3
acct.2
acosh.3
addseverity.3
adjtime.3
asinh.3
atanh.3
atoi.3
brk.2
cbrt.3
cfree.3

chdir.2
chmod.2
chown.2
clearenv.3
clock_getres.3
clone.2
confstr.3
copysign.3
ctermid.3
ctime.3
daemon.3
dirfd.3
div.3
drand48.3
drand48_r.3
dysize.3
ecvt.3
ecvt_r.3
erf.3
euidaccess.3
exp2.3
expm1.3
fdatasync.2
ferror.3
fexecve.3
fgetgrent.3
fgetpwent.3
finite.3
flockfile.3
fopen.3
fpclassify.3
fsync.2
futimes.3
fwide.3
gamma.3
gcvt.3
getcwd.3
getdate.3
getdirentries.3
getdomainname.2
getdtablesize.2
getgrent.3
getgrent_r.3
getgrouplist.3
getgroups.2
gethostbyname.3
gethostid.2
gethostname.2

getlogin.3
getmntent.3
getpagesize.2
getpw.3
getpwent.3
getpwent_r.3
getpwnam.3
getsid.2
getspnam.3
gettimeofday.2
getumask.3
getusershell.3
gsignal.3
hypot.3
inet.3
initgroups.3
insque.3
isalpha.3
iswblank.3
j0.3
kill.2
killpg.2
lgamma.3
lockf.3
log1p.3
log2.3
logb.3
longjmp.3
lrint.3
lround.3
madvise.2
mbsnrtowcs.3
memfrob.3
mincore.2
mkdtemp.3
mknod.2
mkstemp.3
mktemp.3
nan.3
nanosleep.2
nextafter.3
nice.2
on_exit.3
perror.3
posix_memalign.3
posix_openpt.3
printf.3
profil.3

psignal.3
putenv.3
putpwent.3
qecvt.3
rand.3
random.3
rcmd.3
readahead.2
readlink.2
realpath.3
remainder.3
remquo.3
rexec.3
rint.3
round.3
rpmatch.3
scalb.3
scandir.3
scanf.3
seekdir.3
select.2
sem_wait.3
semop.2
setbuf.3
setenv.3
seteuid.2
setjmp.3
setnetgrent.3
setpgid.2
setresuid.2
setreuid.2
sigaltstack.2
siginterrupt.3
significand.3
sigqueue.2
sigvec.3
sigwaitinfo.2
sockatmark.3
stat.2
stime.2
strdup.3
strerror.3
strsep.3
strtod.3
strtok.3
strtol.3
strtoul.3
symlink.2

sync.2
syscall.2
syslog.3
tcgetsid.3
telldir.3
tempnam.3
termios.3
tgamma.3
timegm.3
toascii.3
trunc.3
truncate.2
ttyslot.3
tzset.3
ualarm.3
unlocked_stdio.3
unshare.2
usleep.3
vfork.2
vhangup.2
wait.2
wait4.2
wcscasecmp.3
wcsncasecmp.3
wcsnlen.3
wcsnrtombs.3
wcswidth.3
wordexp.3
wprintf.3
  mtk
    Added/updated feature test macro requirements for
    glibc; see feature_test_macros.7 for details.

Changes to individual pages
---

mq_notify.2
mq_open.2
mq_timedreceive.2
mq_timedsend.2
mq_unlink.2
  mtk
    Fix broken link

setpgid.2
  mtk
    Fairly substantial changes and corrections, including adding
    coverage of all of the interfaces that get/set PGIDs.

syscalls.2
  mtk / aeb
    Various rewordings; clear up some imprecisions.

lgamma.3
  mtk

 Added 'signgam' to SYNOPSIS and NAME line.

strerror.3
  mtk
    Note that the XPG version is provided since glibc 2.3.4.
    The page formerly said that the GNU-specific version
    is provided by default. That certainly isn't true
    nowadays, since _POSIX_C_SOURCE is set to 200112L by
    default, so that the XSI-compliant version is supplied
    by default.

man-pages.7
  mtk
    Added note pointing to feature_test_macros.7 for a description
    of how feature test macro requirements should be specified in
    manual pages. Various other minor fixes and changes.

feature_test_macros.7
  mtk
    Added note about how feature test macros are specified
    in manual pages.
    Many other corrections, improvements, additions, and
    details about differences across glibc versions.

========== Changes in man-pages-2.65 ==========

Released: 2007-09-17

Contributors

The following people contributed
 notes, ideas, or patches that have
been incorporated in changes in this release:

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Vincent Lefevre
<vincent@vinc17.org>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

Various pages
  mtk
    Use 'glibc' consistently to refer to GNU C library.

Various pages
  mtk
    Order errors under ERRORS alphabetically.

Various pages
  Nicolas François
    Spelling and formatting fixes, as per
    http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=439560

intro.2
select.2

fmtmsg.3
getgrent_r.3
envz_add.3
rtime.3
strptime.3
wordexp.3
  Maxime Vaudequin
    Add "#include <stdlib.h>" (to declare exit(3)) to example program.

New pages
----

timeradd.3
  mtk
    Description of timeradd(), timersub(), timerclear(),
    timerisset(), timercmp() macros for operating on
    struct timeval.

Removed pages
----

fdatasync.2
  mtk
    Somehow, over time, material on fdatasync(2) crept into
    fsync.2, and fdatasync also got added to the NAME section
     of fsync.2. All of the material in fdatasync.2 that was
    not already in fsync.2 has now been moved there, and
    the former page has been removed.
    In place of the content there, is now a link to fsync.2.

New links
----

clock_getres.2
clock_gettime.2
clock_settime.2
  mtk
    Link to man3/clock_getres.3.

fdatasync.2
  mtk
    Link to fsync.2.

fdopendir.3
  mtk

Link to opendir.3.

gethostbyaddr_r.3
Mats Wichmann
Link to gethostbyaddr.3.

timerclear.3
timercmp.3
timerisset.3
timersub.3
mtk
Links to new timeradd.3.

Changes to individual pages

Makefile
Mike Frysinger
Make the install target of man-pages respect the standard
"DESTDIR" variable as well as check the exit status of the
install command so errors aren't ignored.

get_mempolicy.2
Lee Schermerhorn
changed the "policy" parameter to "mode" through out the
descriptions
in an attempt to promote the concept that the memory
policy is a tuple consisting of a mode and optional set of nodes.

added requirement to link '-lnuma' to synopsis

rewrite portions of description for clarification.

added all errors currently returned by sys call.

removed cautionary note that use of MPOL_F_NODE|MPOL_F_ADDR
is not supported. This is no longer true.

added mmap(2) to SEE ALSO list.

getitimer.2
mtk
Since kernel 2.6.22, Linux setitimer() now conforms to POSIX.1,
giving an EINVAL error for a non-canonical tv_usec value.

gettimeofday.2
mtk

Replace discussion of timer* macros with a pointer
to new page timeradd.3.

ioctl_list.2
Nicolas George
Fixed argument type for BLKGETSIZE.

mbind.2
Lee Schermerhorn

changed the "policy" parameter to "mode" throughout the
descriptions in an attempt to promote the concept that the memory
policy is
a tuple consisting of a mode and optional set of nodes.

rewrite portions of description for clarification.

clarify interaction of policy with mmap()'d files and shared
memory regions, including SHM_HUGE regions.

defined how "empty set of nodes" specified and what this
means for MPOL_PREFERRED.

mention what happens if local/target node contains no
free memory.

clarify semantics of multiple nodes to BIND policy.
Note: subject to change. We'll fix the man pages when/if
this happens.

added all errors currently returned by sys call.

added mmap(2), shmget(2), shmat(2) to SEE ALSO list.

mmap.2
mprotect.2
François Diakhate
Add text noting that PROT_WRITE may (and on x86 does)
imply PROT_READ.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=441387

nfsservctl.2
Aleksandr Koltsoff
Fix prototype.

oldfstat.2
oldlstat.2
oldstat.2

mtk
Fix broken link

prctl.2
mtk
Update arches/kernel versions for PR_SET_UNALAIGN / PR_GET_UNALIGN.

readahead.2
mtk
Removed SEE ALSO reference to nonexistent fadvise.2.

reboot.2
mtk
Place SYNOPSIS comments inside C comments (/* ... */).

sched_setaffinity.2
Samuel Thibault
Note what thread is affected if 'pid' is specified
as 0, or as the value returned by getpid().

sched_setscheduler.2
Carsten Emde
Add text on real-time features of mainline Linux kernel.

select_tut.2
mtk
sync SYNOPSIS with select.2

set_mempolicy.2
Lee Schermerhorn

changed the "policy" parameter to "mode" throughout the
descriptions in an attempt to promote the concept that the memory
policy is a tuple consisting of a mode and optional set of nodes.

added requirement to link '-lnuma' to synopsis

rewrite portions of description for clarification.

clarify interaction of policy with mmap()'d files.

defined how "empty set of nodes" specified and what this
means for MPOL_PREFERRED.

mention what happens if local/target node contains no
free memory.

clarify semantics of multiple nodes to BIND policy.
Note: subject to change. We'll fix the man pages when/if
this happens.

added all errors currently returned by sys call.

added mmap(2) to SEE ALSO list.

sigaction.2
mtk
s/si_sign/si_errno/ in statement about which field is unused.
Ari Entlich
s/SIGILL/SIGCHLD/ for paragraph describing SIGCHLD.

stat.2
mtk
Improve text describing underlying system calls.

swapon.2
Michael Prokop
EINVAL also occurs if target path is on tmpfs or similar.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=435885

sync.2
mtk
Incorporated material from now deleted fdatasync.2.

syscall.2
mtk
Small fix in example program.

uname.2
mtk
Improve text describing underlying system calls.

utime.2
Vincent Lefevre / mtk
Clarify utimes() behaviour when 'times' is NULL.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=431480
mtk
Other minor clarifications of description of utimes().

copysign.3
Vincent Lefevre
s/sign/sign bit/ to remove ambiguity in description.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=435415

euidaccess.3

mtk
Changed NOTES to VERSIONS.

ffsl.3
mtk
Add ffsl and ffsll to NAME line.

fts.3
mtk
Removed statement that fts functions are expected to appear
soon in POSIX; it's years old and has not yet come to pass.

ftw.3
mtk / Geoff Clare
Fixes/improvements for example program.

getdate.3
mtk
Add getdate_r to NAME section.

getaddrinfo.3
mtk / Geoff Clare
Fixes/improvements for example
program.

gethostbyaddr.3
Mats Wichmann
Add documentation for gethostbyaddr_r().
Plus a few other small fixes.

gethostbyname.3
mtk
Add gethostbyname2, gethostbyname2_r, gethostbyname_r,
gethostent_r to NAME line.

getmntent.3
mtk
Fix misnamed function references.

getopt.3
Jon Burgess
Fix small error in example program.

getrpcent.3
mtk
Add setrpcent and endrpcent to NAME line.

gsignal.3

Aleksandr Koltsoff
Fix gsignal() prototype.

hsearch.3
mtk
Add hcreate_r, hdestroy_r, hsearch_r to NAME line.

inet.3
Maxime Bizon
Correct definition of "struct in_addr".

isatty.3
mtk
Minor wording fix.

isgreater.3
mtk
Add islessequal to NAME line.

lgamma.3
Vincent Lefevre
Fix CONFORMING TO section.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=417592

log1p.3
mtk
Add log1pf and log1pl to NAME line.

longjmp.3
Paul Brook
/ mtk
After a call to longjmp(), the values of modified, non-volatile
variables in the function that called setjmp() are unspecified.

makecontext.3
Aleksandr Koltsoff
Fix makecontext() prototype.

malloc.3
mtk / Tolga Dalman
Explain what happens for malloc(0), or calloc() where one of the
arguments is 0.
mtk
Added notes on malloc()'s use of sbrk() and mmap().
mtk
Add mmap(2), alloca(3) to SEE ALSO.

mq_close.3

mq_getattr.3
mq_notify.3
mq_open.3
mq_receive.3
mq_send.3
mq_unlink.3
  mtk
    Add "Link with -lrt." to SYNOPSIS.

opendir.3
  Ulrich Drepper; some edits and additional text by mtk
    Document fdopendir().

readdir.3
  mtk, after a note by Andi Kleen
    Document DT_* constants for d_type.
  Ulrich Drepper / mtk
    Rework discussion of non-standard structure fields.

sem_wait.3
  mtk
    Minor improvements to example program.

syslog.3
  mtk
    Add vsyslog to NAME
 section.

termios.3
  Nicolas François
    Fix XCASE feature test macro description.

wcsspn.3
  Aleksandr Koltsoff
    Add return type to prototype.

proc.5
  mtk
    Improve description of num_threads field under /proc/PID/stat.
  Maxime Vaudequin
    Fix path error (s%proc/sys%proc/sys/kernel%) in mentions of
    /proc/sys/ostype, /proc/sys/osrelease and proc/sys/version.
  Maxime Vaudequin
    I noticed things to correct and to clarify in subsection
    "/proc/filesystems" of proc.5:
    - clarify filesystems listing: not only FS compiled
      into the kernel, also FS kernel modules currently loaded
    - add a reference to fs(5)

- add an explanation for FS marked with "nodev"
- s/mount(1)/mount(8)/, also corrected in section "SEE ALSO"
- clarify usage by mount: the current wording may lead to
think /proc/filesystems is always used by mount when no FS
is specified. So, usage of "may" which
IMHO is more
appropriate + additional explanations
In mount(8) we can see:

If no -t option is given, or if the auto type is
specified, mount will try to guess the desired type.
If mount was compiled with the blkid library, the
guessing is done by this library. Otherwise, mount
guesses itself by probing the superblock; if that
does not turn up anything that looks familiar,
mount will try to read the file /etc/filesystems,
or, if that does not exist, /proc/filesystems.
All of the filesystem types listed there will be
tried, except for those that are labeled "nodev"
(e.g., devpts, proc and nfs). If /etc/filesystems
ends in a line with a single * only, mount will
read /proc/filesystems afterwards.

Samuel Thibault

Since linux 2.6.11, /proc/stat has an eighth value
for cpu
lines: stolen time, which is the time spent in other operating
systems when running in a virtualized environment.

arp.7

Updated BUGS text referring to jiffies; refer to time.7 instead.

credentials.7

mtk

Add words to note that file system ID is Linux specific.

hier.7

Maxime Vaudequin

This is some corrections for hier.7:
- missing period for /media and /mnt
- /mnt description is not totally correct, it is true for some
distributions but in others /mnt is used as a temporary FS
mount point, as it is specified by FHS:
http://www.pathname.com/fhs/pub/fhs-2.3.html#MNTMOUNTPOINTFORATEMPORARILYMOUNT
- s/X-Windows/X-Window/ (3 occurrences)
- section "SEE ALSO": s/mount(1)/mount(8)/

man-pages.7
man.7

mdoc.7
mdoc.samples.7
  mtk / Nicolas François
    Nowadays tmac.XXX are called XXX.tmac.

pthreads.7
  mtk
    Update text about modern threading implementations

   (NPTL vs LinuxThreads).

socket.7
  mtk, after a note by Andi Kleen
    Clarify that SO_SNDTIMEO and SO_RCVTIMEO only have effect for
    socket I/O calls; not for multiplexing system calls like
    select() and poll().

time.7
  mtk
    Add SEE ALSO reference to new timeradd.3.

========== Changes in man-pages-2.66 ==========

Released: 2007-10-01

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Maxime Vaudequin <maxime.vaudequin@gmail.com>
Ollie Wild <aaw@google.com>
Ulrich Drepper <drepper@redhat.com>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several

places.

New pages
----

fallocate.2
  David Chinner, with some
 input from Amit Amora and mtk
      Describes the fallocate() system call, new in 2.6.23.

Changes to individual pages
----

close.2
  Fredrik Noring
      Add text cautioning about use of close() in
      multithreaded programs.

execve.2
  Ollie Wild / mtk
      Add text describing limit on total size of argv + envp,
      and changes that occurred with 2.6.23.
  mtk
      Add getopt(3) to SEE ALSO list.

open.2
  mtk, Acked by Ulrich Drepper
      Added description of O_CLOEXEC (new in 2.6.23) + other
      minor fixes for O_DIRECT.

recv.2
  mtk
      Added description of MSG_CMSG_CLOEXEC (new in 2.6.23).

sysctl.2
  mtk
      Strengthened the warning against using this system call
      and note that it may disappear in a future kernel version.

rpc.3
  Mats Wichmann
      Fix type definition for 'protocol' in prototypes of pmap_set()
      and pmap_getport().

========== Changes in man-pages-2.67 ==========

Released:
 2007-10-08

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Andi Kleen <andi@firstfloor.org>
Andrew Josey <a.josey@opengroup.org>
Maxime Vaudequin <maxime.vaudequin@gmail.com>

Apologies if I missed anyone!

Global changes
---

*.1p
*.3p
  mtk, after a note by Andi Kleen and consultation with Andrew Josey.
    Add a PROLOG section:
      This manual page is part of the POSIX Programmer's Manual.
      The Linux implementation of this interface may differ
      (consult the corresponding Linux manual page for details
      of Linux behavior), or the interface may not be implemented
      on Linux.

*.0p
*.1p
*.3p
  mtk
    Some formatting fixes, mostly to get rid of unwanted
    spaces before "," in formatted output.

*
/
  mtk
    Change all occurrences of my email address in man-pages source
    to
 my new gmail address.

Many many pages
  Maxime Vaudequin
    I noticed useless use of macros with alternating formatting

(".IR" instead ".I" which suffices, ".BR" instead ".B", etc.)
because there is only one element. For example in ldconfig.8:

```
-.BR /sbin/ldconfig
+.B /sbin/ldconfig
```

This is not very important, it only makes the sources more tidy.
To find these I used:

```
egrep '^\.(B[RI]|R[IB]|I[RB]) ([^ ]+|\"[^\"]\+\")$'
```

And if you want to make these changes, you can use:

```
sed 's/^\(\.[BRI]\)[BRI]\( \([^ ]\+\|\"[^\"]\+\"\)\)$/\1\2/g'
```

========== Changes in man-pages-2.68 ==========

Released: 2007-11-19

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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 Kim <hyokyong@ppj.kr>
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Mike Frysinger <vapier@gentoo.org>
Nicolas François <nicolas.francois@centraliens.net>
Pádraig Brady <P@draigBrady.com>
Sam Varshavchik <mrsam@courier-mta.com>
Timo Juhani Lindfors <timo.lindfors@iki.fi>
Ulrich Drepper <drepper@redhat.com>

Apologies if I missed anyone!

Global changes
---

faccessat.2
fchmodat.2
fchownat.2
fstatat.2
futimesat.2
linkat.2
mkdirat.2
mknodat.2
readlinkat.2
renameat.2
symlinkat.2
mkfifoat.3
  mtk, after http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=445436
    by Timo Juhani Lindfors
    Added <fcntl.h> to SYNOPSIS.

Typographical or grammatical errors have been corrected in several places.

New pages

_syscall.2
  mtk
    Created as a new page, by taking the content specific to
    the _syscall() macros from intro(2).

Changes to individual pages

README
   mtk
    Brought up to date.

man-pages-*-Announce
  mtk
    Brought the info in here up to date.

intro.1
  mtk
    Added intro paragraph about section, plus a paragraph
    about exit status values.
    Move "user intro" text to NOTES.

get_mempolicy.2
  mtk

Reorder ERRORS sections alphabetically

intro.2
  mtk
    Pretty much a complete rewrite, covering some additional topics.
    Moved _syscallN() material to new _syscall(2) page.

mbind.2
  mtk
    Reorder ERRORS sections alphabetically

mmap.2
  Maxime Vaudequin
    Fix syntax error in example program.

prctl.2
  mtk
    Linux 2.6.22 added support on Alpha for PR_SET_UNALIGN.

ptrace.2
  Nicolas François / mtk
    s/PTRACE_POKEUSR/PTRACE_POKEUSER/
    s/PTRACE_PEEKUSR/PTRACE_PEEKUSER/

read.2
  mtk / Geoff Clare
    Add text describing timerfd EINVAL error for read(2).

set_mempolicy.2
  mtk
    Reorder ERRORS
 sections alphabetically

syscall.2
  mtk
    Added _syscall(2) and intro(2) to SEE ALSO section.

syscalls.2
  mtk
    Added fallocate(2); removed timerfd(2).

sysinfo.2
  mtk
    Removed reference to example in intro(2).

dlopen.3
  mtk
    Added "Link with -ldl." to SYNOPSIS.

getaddrinfo.3
  Ulrich Drepper / mtk
    Remove references to getipnodebyname.3 and getipnodebyaddr.3.

gethostbyname.3
  mtk / Ulrich Drepper
    Remove SEE ALSO references to getipnodebyname.3 and
    getipnodebyaddr.3.

  Pádraig Brady / mtk / Ulrich Drepper
    Point out that the functions described on this page
    are made obsolete by getaddrinfo(3) and getnameinfo(3).

getipnodebyname.3
  mtk
    Clarify that glibc does not implement these functions.

glob.3
  Ulrich Drepper / mtk
    Fix description of GLOB_ONLYDIR.
  mtk
    Added description of GLOB_TILDE_NOMATCH.
    Expanded the description of various flags.
    Various
 wording fixes..

intro.3
  mtk
    Pretty much a complete rewrite, covering some additional topics.

posix_fallocate.3
  mtk
    Add SEE ALSO referring to fallocate.2.

rpc.3
  Sam Varshavchik
    Add some arg declarations to prototypes; fix typos.

setbuf.3
  Mike Frysinger
    Fix text in BUGS section.

sigset.3
  mtk
    The sigset() bugs were fixed in glibc 2.5.
    See http://sourceware.org/bugzilla/show_bug.cgi?id=1951

intro.4
  mtk
    Minor rewrites.

st.4
  Maxime Vaudequin
    Various small corrections, formattings and modifications.

elf.5
  Mike Frysinger
    Document:
    - new p_flag: PT_GNU_STACK
    - new sections: .gnu.version .gnu.version_d .gnu.version_r
      .note.GNU-stack
    - new structures: ElfN_Verdef ElfN_Verdaux ElfN_Verneed
      ElfN_Vernaux

intro.5
  mtk
    Minor rewrites.

proc.5
  Ivana Varekova / mtk
    Add text noting that since kernel 2.6.16, /proc/slabinfo is
     only available if CONFIG_SLAB is enabled.
  Maxime Vaudequin
    Update description of /proc/pci.
  Maxime Vaudequin
    Give italic formatting to file names in proc.5.
  mtk
    The display type of the /proc/PID/stat fields changed
    %lu to %u in Linux 2.6.22:
      flags
      rt_priority
      policy

slabinfo.5
  Ivana Varekova / mtk
    Add text noting that since kernel 2.6.16, /proc/slabinfo is
    only available if CONFIG_SLAB is enabled.

intro.6
  mtk
    Minor rewrites.

bootparam.7
  Maxime Vaudequin
    Update references to files in kernel "Documentation" directory.

intro.7
  mtk
    Minor rewrites.

ipv6.7
  Andrew McDonald
    Fix description of IPV6_ROUTER_ALERT option.

standards.7
  mtk
    Note online location of C99 standard.

intro.8
  mtk
    Some rewrites, plus new paragraph on exit status values.

========== Changes in man-pages-2.69 ==========

Released:
 2007-12-03

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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J. Bruce Fields <bfields@citi.umich.edu>
David Härdeman <david@hardeman.nu>
Jeremy Kerr <jk@ozlabs.org>
Luke Browning <lukebr@linux.vnet.ibm.com>
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Mike Frysinger <vapier@gentoo.org>
Reuben Thomas <rrt@sc3d.org>
Sam Varshavchik <mrsam@courier-mta.com>

Apologies if I missed anyone!

Global changes
---

*.[013]p
  mtk
    Many whitespace clean-ups in formatted output.

mprotect.2
bind.2
mq_notify.3
makecontext.3
fmemopen.3
  David Härdeman / mtk
    Rename error handling function in example program
    (s/die/handle_error/).

Typographical or grammatical errors have been corrected in several places.

Removed
 pages

HOWTOHELP
MAINTAINING
  mtk
    The content of these files is now available in HTML format.

New links
----

cfsetspeed.3
  mtk
    Link to termios.3.

Changes to individual pages
----

time.1
  Alain Portal
    Added "Linux User's Manual" to .TH line.

_syscall.2
  aeb / mtk
    Remove outdated text about pointer blocks for syscalls that have
    more than 5 arguments.

fcntl.2
  J. Bruce Fields

Add warning that mandatory locking is unreliable.
J. Bruce Fields
Clarify details in description of file leases.
J. Bruce Fields / mtk
Minor wording edits.
J. Bruce Fields
Add F_GETLEASE under RETURN VALUE.

mmap.2
mtk
Handle errors using a custom handle_error() macro.

sched_setscheduler.2
Mats Wichmann
Add BUGS text noting that the return value from Linux
sched_setschuler() does not conform to POSIX.

spu_create.2
Jeremy Kerr
Various updates and improvements.
Luke Browning
Refinement of text describing a "gang".
mtk
Minor edits.

spu_run.2
Jeremy Kerr
Various updates and improvements.
mtk
Minor edits.

err.3
mtk
Remove HISTORY section.

fopen.3
Mike Frysinger
Document 'e' (close-on-exec) option, new in glibc 2.7.

getloadavg.3
Alain Portal / mtk
Remove HISTORY section.

printf.3
Andries E. Brouwer / mtk
Fix the discussion of stdarg macros in the description of
vprintf() description.

sem_wait.3
  mtk
    Handle errors using a custom handle_error() macro.

sigsetops.3
  Mats Wichmann
    Note that sigset_t objects must be initialized
    with sigemptyset() or sigfillset() before the other
    macros are employed.

termios.3
  mtk, after a note by Alain Portal
    Added cfsetspeed() to SYNOPSIS. Added text under CONFORMING TO
    noting that cfsetspeed() is BSD specific.

ttyslot.3
   Alain Portal
    Various references to "getty" were changed to "mingetty", since
    that is the manual page more likely to be found on current
    systems. (Completes changes that were made in man-pages-2.44.)

initrd.4
  mtk, after a note by Alain Portal
    Move "Configuration" section to top of page (like other
    section 4 pages) and make it a .SH section.

full.4
  mtk
    Re-ordered CONFIGURATION section to go before DESCRIPTION.

sk98lin.4
  Maxime Vaudequin
    Fix reference to kernel Documentation file.

elf.5
  mtk
    Renamed HISTORY section to NOTES, and removed BSD specific info.

proc.5
  Maxime Vaudequin
    Mention grub(8) in same sentence as lilo(8).
  Maxime Vaudequin
    Improve description of /proc/sys/abi and
    /proc/sys/kernel/modprobe.

utmp.5
  Alain Portal
    Various references to "getty" were changed to "mingetty", since

that is the manual page more likely to be found
on current
systems. (Completes changes that were made in man-pages-2.44.)

iso_8859-2.7
Adam Borowski
Reverse the 2.68 change applied by mtk in response to
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=445085
that replaced "Sorbian" with "Serbian".
(Sorbian is a language of 50000 people in Brandenburg.)

man-pages.7
mtk
Added CONFIGURATION to list of "standard" section names.

spufs.7
Jeremy Kerr
Various updates and improvements.
mtk
Minor edits.

tcp.7
Maxime Vaudequin
Fix reference to kernel Documentation file.

========== Changes in man-pages-2.70 ==========

Released: 2007-12-06

Global changes

Many pages
mtk
Remove section numbers for page references where the
reference refers to the page itself. (This stops man2html
producing links from a page back to itself.)

Typographical or grammatical errors have been corrected
in several places.

Changes to individual pages
---

get_mempolicy.2

mtk
Add CONFORMING TO section.

io_getevents.2
mtk
Remove redundant SEE ALSO entry.

mbind.2
mtk
Add CONFORMING TO section.

msgop.2
mtk
Remove redundant SEE ALSO entries.

sigprocmask.2
mtk
Remove redundant SEE ALSO entry.

splice.2
mtk
Remove redundant SEE ALSO entry.
Add SEE ALSO referring to vmsplice(2).

csin.3
mtk
Remove redundant SEE ALSO entry.
Add SEE ALSO referring to ccos(3).

gethostbyname.3
mtk
Add gethostbyaddr_r to NAME section.

rint.3
mtk
Remove redundant SEE ALSO entry.

sigsetops.3
mtk
Minor rewording.

epoll.7
mtk
Minor rewording.

========== Changes in man-pages-2.71 ==========

Released: 2007-12-14

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated
 in changes in this release:

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Josh Triplett <josh@freedesktop.org>
Mats Wichmann <mats.d.wichmann@intel.com>
Pascal MALAISE <malaise@magic.fr>
Sam Varshavchik <mrsam@courier-mta.com>

Apologies if I missed anyone!

Global changes
---

err.3
fts.3
getloadavg.3
queue.3
rcmd.3
rexec.3
stdin.3
elf.5
operator.7
  mtk
    Replaced the use of mdoc macros on these pages with man
    macros. The only pages in man-pages that still use
    mdoc macros are mdoc.7 and mdoc.samples.7.

Typographical or grammatical errors have been corrected in several places.

Deleted pages

TODO
  mtk
    This information is now on the website.

Changes to individual pages

Changes.old
  mtk
    Reformat various change log entries to use a consistent format.
    Expand Debian bug report numbers to be URLs.
    Other minor tidy-ups.

fcntl.2
  mtk
     Document the F_DUPFD_CLOEXEC operation, which is
    new in kernel 2.6.24.

listen.2
  Josh Triplett
    Fix incorrect path for somaxconn.

getpw.3
  Alain PORTAL
    Add ENOENT error to ERRORS.

sysconf.3
  Mats Wichmann
    Add documentation of _SC_NPROCESSORS_CONF and _SC_NPROCESSORS_ONLN.

tty.4
  John Sigler
    Add tty_ioctl(4) to SEE ALSO list.

regex.7
  Pascal MALAISE <malaise@magic.fr>
    Separate text on back references from that describing basic regexps,
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=379829.
  mtk
    Remove crufty text about word boundaries.

========== Changes in man-pages-2.72 ==========

Released: 2007-12-14

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes

Various pages
  Alain PORTAL / mtk
    Format include files consistently (".I <.*\.h>").

Various pages
  Alain PORTAL / mtk
    Format pathname in italics (.I).

dbopen.3
mpool.3
recno.3
  Alain PORTAL
    Remove brackets ([]) around error names.

console.4
tty.4
ttyS.4
issue.5
ttytype.5
utmp.5
  mtk / Maxime Vaudequin
    Some systems have mingetty(8), others have agetty(8), so both
    should be mentioned when we are talking about getty-style programs.

Typographical or grammatical errors have been corrected in several places.

Renamed pages
---

filesystems.5
  mtk / Alain PORTAL

Was previously fs.5

New links
----

argz.3
  Bert Wesarg / mtk
    Link to argz_add.3.

envz.3
  Bert Wesarg / mtk
    Link to envz_add.3.

fs.5
  mtk / Alain PORTAL
     Link to filesystems.5.

Changes to individual pages
----

readahead.2
  Rob Weryk
    Fix declaration of 'offset' in SYNOPSIS.

seteuid.2
  mtk
    s/SETGUID/SETEUID/ in .TH line.

__setfpucw.3
  mtk
    Fixed include files references / formatting.

abort.3
  mtk, after a note by Alex Tuninga
    A fairly significant rewrite to clarify operation of abort().

argz_add.3
  Bert Wesarg / mtk
    s/envz/envz_add/ in SEE ALSO.

basename.3
  mtk
    s/DIRNAME/BASENAME/ in .TH line, and swap function names
    in NAME section.

envz_add.3

Bert Wesarg / mtk
s/argz/argz_add/ in SEE ALSO.

flockfile.3
mtk
s/LOCKFILE/FLOCKFILE/ in .TH line.

getgrent_r.3
mtk
s/GETGRENT/GETGRENT_R/ in .TH line.

stdio.3
Sam Varshavchik
Reformat function list at end of page as a proper table.

ttyslot.3
Maxime Vaudequin
Revert earlier s/getty/mingetty/. This page talks about historical
behavior, and that means "getty(8)".

undocumented.3
mtk
Remove reference to "obstack stuff"; it's not clear what that is about.

console_ioctl.4
mtk
s/CONSOLE_IOCTLS/CONSOLE_IOCTL/ in .TH line.

proc.5
mtk
s/fs (5)/filesystems (5)/

man-pages.7
mtk / Alain PORTAL
Improve discussion of formatting of file names.

========== Changes in man-pages-2.73 ==========

Released: 2007-12-14

Contributors

The following people contributed notes, ideas, or patches that have

been incorporated in changes in this release:

Alain Portal <aportal@univ-montp2.fr>
Pádraig Brady <P@draigBrady.com>
Reuben Thomas <rrt@sc3d.org>

Apologies if I missed anyone!

Global changes

Various pages
  Alain PORTAL
    Formatting fixes.

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages
---

mknod.2
  mtk, after a report
 by Reuben Thomas
    Clarify use of mkfifo() versus mknod().
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=455825

fgetgrent.3
  mtk
    Small rewording.

fgetpwent.3
  mtk
    Small rewording.

rcmd.3
  mtk
    Noted feature test macro requirements.
    BUGS: noted that iruserok() is not declared in glibc headers.

filesystems.5
  mtk
    Added Reiserfs, XFS, JFS to list of file systems.

========== Changes in man-pages-2.74 ==========

Released: 2007-12-20

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Alain Portal <aportal@univ-montp2.fr>
Andrew Morton <akpm@linux-foundation.org>
David Brown <lkml@davidb.org>
Jeremy Kerr <jk@ozlabs.org>
Mats Wichmann <mats.d.wichmann@intel.com>
Sam Morris <sam@robots.org.uk>
Sam Varshavchik <mrsam@courier-mta.com>
Samuel Thibault <samuel.thibault@ens-lyon.org>

Apologies if I missed
 anyone!

Global changes

Various pages
  Alain PORTAL
    Formatting fixes.

Various pages
  mtk / Alain Portal
    s/``..."/"..."/

Various pages
  mtk
    s/epoch/Epoch/

Various pages
  mtk
    Make the standard indent for code samples, shell session
    logs, etc. to be ".in +4n".

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

_syscall.2
  mtk
    Nowadays there is _syscall6() also.

chroot.2
  mtk
    Various minor formatting changes.

epoll_wait.2
  mtk
    Fix types in structs.
    Formatting fixes.

mount.2
  mtk, after a note by Sam Morris
    Clarify that MS_NODIRATIME provides a subset of the
    functionality provided by MS_NOATIME.

sched_setaffinity.2
  mtk
    Minor rearrangement of text.

select_tut.2
  mtk
    Fix (my) typos in argument names.
    Formatting fixes.

spu_create.2
  Jeremy
 Kerr
    We can use context FDs for the dirfd argument to the *at() syscalls.

times.2
  mtk, after a note from David Brown and Andrew Morton
    http://marc.info/?l=linux-kernel&m=119447727031225&w=2
    Rework the text describing the return value to be closer
    to the requirements of POSIX.1; move Linux details
    to NOTES and add a warning not to rely on those details.
    Add a warning about the -1 to -4095 bug which results
    in a 41 second window where the glibc wrapper will wrongly
    return -1 indicating an error.
  mtk
    Remove cruft HZ text.
    Clarify text describing return value of clock(3).

getw.3
  Mats Wichmann
    CONFORMING TO: getw() and putw() were in SUSv2, but are not

in POSIX.1-2001.

hash.3
  mtk / Alain Portal
    Minor rewordings + formatting fixes.

st.4
  Alain Portal / mtk
    Many formatting fixes.
  mtk
    Place ERRORS in alphabetical order.

vcs.4
  Samuel Thibault
     Document VT_GETHIFONTMASK (new in 2.6.18) and add to example program;
    attribute/text characters are in the host byte order.
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=456437
  mtk
    Minor edits.

bootparam.7
  Alain PORTAL
    Formatting fixes.

inotify.7
  mtk
    Minor heading changes and reformattings.

man-pages.7
  mtk
    Note that code segments, structure definitions, shell session
    logs, should be indented by 4 spaces.

spufs.7
  Jeremy Kerr
    Add a little information about the differences to mbox.

========== Changes in man-pages-2.75 ==========

Released: 2008-01-08

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Alain Portal <aportal@univ-montp2.fr>
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Timo Sirainen <tss@iki.fi>
Trond Myklebust <trond.myklebust@fys.uio.no>

Apologies if I missed anyone!

Global changes

Various pages
  mtk
    (Grammatical) hyphenation was fixed in many places.

epoll_wait.2
mbind.2
spu_run.2
ecvt.3
fmtmsg.3
getnameinfo.3
rtc.4
proc.5
charsets.7
ip.7
ipv6.7
raw.7
uri.7
  Justin Pryzby / mtk
    Fix incorrect usage of "a" and "an" before following vowel /
    consonant, by reviewing the output of the following scripts:

        for a in $(wc */*.? | awk '$1 > 10 {print $4}' | gv total); do
            echo $a
            MANWIDTH=4000 man -l $a 2>/dev/null |
                egrep '(^|)an [^aeiou][a-z]'
        done | less

        for a in $(wc */*.? | awk '$1 > 10 {print $4}' | gv total); do
            echo $a

```
            MANWIDTH=4000 man -l $a 2>/dev/null
|
                    egrep '(^| )a [aeiou][a-z]'
        done| less
```

```
err.3
fts.3
queue.3
rcmd.3
rexec.3
stdin.3
elf.5
  mtk, after a note by Alain Portal
     Improve macros used in 2.71 to convert from "mdoc" to "man".

_exit.2
chroot.2
getgid.2
getpid.2
getrusage.2
getsid.2
gettid.2
getuid.2
iopl.2
kill.2
personality.2
pivot_root.2
ptrace.2
sched_setparam.2
sched_setscheduler.2
sched_yield.2
seteuid.2
setgid.2
setpgid.2
setresuid.2
setreuid.2
setuid.2
unlink.2
wait.2
openpty.3
raise.3
setlogmask.3
sleep.3
ttyslot.3
ulimit.3
tty.4
tty_ioctl.4
path_resolution.7
```

mtk
s/current process/calling process/

cacheflush.2
clone.2
fcntl.2
getitimer.2
getrlimit.2
mmap.2
mprotect.2
times.2
adjtime.3
byteorder.3
inet.3
offsetof.3
rtc.4
icmp.7
pipe.7
time.7
mtk
s/x86/i386/ since that is the name used in 'arch' directories
in the kernel source, and previously both i386 and x86 were both
used in man pages; also nowadays 'x86' is somewhat ambiguous,
since it is the name of the 'arch' directory for i386 and x86-64.

conj.3
cacos.3
cacosh.3
cabs.3
carg.3
casin.3
casinh.3
catan.3
catanh.3
ccos.3
ccosh.3
cexp.3
cimag.3
clog.3
cosh.3
creal.3
csin.3
csinh.3
ctan.3
ctanh.3
sinh.3
tanh.3
mtk

Various reformattings.

Various pages
  Alain Portal
    Formatting fixes.

mlock.2
mprotect.2
mpool.3
offsetof.3
  Alain Portal
    Format SYNOPSIS in a manner consistent with other pages.

Various pages
  mtk / Alain Portal
    Format casts so that there is a non-breaking space after the
    type, and remove unnecessary parentheses around the casted value.
    Thus, for example, the following:

        .IR "(size_t) (\-1)" .

    becomes:

        .IR "(size_t)\ \-1" .

Various pages
  mtk / Alain Portal
    Replace "-" by "\-" where a real dash is required.

Various pages
  mtk
    Make the formatting of instances of '*varname' consistent, changing
    instances such as:

         .RI * varname

    to:

        .I *varname

pciconfig_read.2
nfsservctl.2
bstring.3
cpow.3
getipnodebyname.3
getpwnam.3
getrpcent.3
lsearch.3

malloc_hook.3
mpool.3
stdin.3
strtol.3
strtoul.3
unlocked_stdio.3
regex.3
sd.4
resolv.conf.5
utmp.5
futex.7
  mtk
    Format SYNOPSIS consistently.

drand48.3
drand48_r.3
flockfile.3
erf.3
sigvec.3
timeradd.3
wprintf.3
  mtk, after a note by Alain Portal
    Standardize sentence used under "Feature Test Macro Requirements"
    when referring to all functions shown in the SYNOPSIS.

get_kernel_syms.2
getdents.2
getitimer.2
nanosleep.2
query_module.2
statvfs.2
clock_getres.3
getaddrinfo.3
getgrent.3
getipnodebyname.3
console_ioctl.4
tty_ioctl.4
rtnetlink.7
  mtk
    Indent structure definitions by +4n.

recv.2
btree.3
dbopen.3
ether_aton.3
fts.3
hash.3
mpool.3

profil.3
rcmd.3
recno.3
rpc.3
xdr.3
console_ioctl.4
ddp.7
ip.7
ipv6.7
svipc.7
  mtk
    Use C99 standard types in declarations.
      s/u_long/unsigned
 long/
      s/ulong/unsigned long/
      s/u_char/unsigned char/
      s/u_short/unsigned short/
      s/ushort/unsigned short/
      s/u_int8_t/uint8_t/
      s/u_int16_t/uint16_t/
      s/u_int32_t/uint32_t/
      s/u_int/unsigned int/

exit_group.2
fallocate.2
getdents.2
ioctl_list.2
nfsservctl.2
sched_setaffinity.2
set_tid_address.2
ustat.2
argz_add.3
confstr.3
envz_add.3
getline.3
getpwnam.3
gets.3
getw.3
inet_ntop.3
inet_pton.3
offsetof.3
console_ioctl.4
termcap.5
ascii.7
feature_test_macros.7
netlink.7
operator.7
svipc.7

mtk
Fix unbalanced .nf/.fi pairs.

chmod.2
getxattr.2
listxattr.2
lseek.2
removexattr.2
setxattr.2
stat.2
feature_test_macros.7
fpathconf.3
fopen.3

mtk
Rename argument: s/file*des/fd/ , since that is the name most
commonly used on man pages for a file descriptor argument.

bindresvport.3
des_crypt.3
getopt.3
getrpcent.3
realpath.3
rpc.3
xdr.3
mtk
Removed
.SM macros.

madvise.2
getdirentries.3
printf.3
sigvec.3
mtk
Remove extraneous .br macro before/after .SH/.SS.

_syscall.2
lookup_dcookie.2
aio_cancel.3
aio_error.3
aio_fsync.3
aio_read.3
aio_return.3
aio_write.3
canonicalize_file_name.3
envz_add.3
getgrouplist.3
getttyent.3

key_setsecret.3
mtrace.3
tcgetpgrp.3
tcgetsid.3
ttyslot.3
tty_ioctl.4
  mtk
    Remove extraneous .sp macros.

fcntl.2
outb.2
send.2
syscalls.2
getopt.3
proc.5
man-pages.7
standards.7
tcp.7
  mtk
    Remove/replace extraneous .sp macros.

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

_syscall.2
  mtk
    Nowadays there are seven macros (see 2.74 change log also).

arch_prctl.2
  mtk, Acked by Andi Kleen
    Clarify interpretation of 'addr'; plus a few other minor edits
    and updates.

bind.2
  mtk
    Minor rewrites.

close.2
  mtk
    Clarify relationship between file descriptor
 and open file
    description.

connect.2
  mtk, Acked by Andi Kleen

Since kernel 2.2, AF_UNSPEC for unconnecting a connected
socket *is* supported.

execve.2
Alain Portal
Minor rewordings.

futimesat.2
Alain Portal
Remove duplicate "#include <fcntl.h>" from SYNOPSIS.

getgid.2
mtk
Add getresgid(2) and credentials(7) to SEE ALSO.

getpagesize.2
mtk
Small rewording.

getresuid.2
mtk
Rewrote various parts.

getuid.2
mtk
Add getresuid(2) and credentials(7) to SEE ALSO.

ioctl_list.2
Alain Portal
Use proper tables for layout, and various formatting fixes.
mtk
Various formatting fixes.

listen.2
mtk
Rewrote various parts.

mbind.2
Andi Kleen / mtk / Alain Portal
Modify explanation of EINVAL 'maxnode' error.

mmap.2
mtk
Add comma to clarify meaning of a sentence.

open.2
mtk
Clarify initial description of O_EXCL.

Clarify
description of behaviors of O_CREAT | O_EXCL
for symbolic links.
Clarify text describing use of lockfiles without O_EXCL.
mtk, with input from Timo Sirainen and Trond Myklebust
O_EXCL is supported on NFSv3 and later, with Linux 2.6 and later.

pipe.2
mtk
Rename 'filedes' argument 'pipefd'.

pivot_root.2
mtk
s/cwd/current working directory/

seteuid.2
mtk
Minor changes.

setpgid.2
mtk
Add credentials(7) to SEE ALSO, and updated copyright credits,
to reflect my rewrite of a few months ago.

setsid.2
mtk
Add getsid(2) and credentials(7) to SEE ALSO.

spu_create.2
Alain Portal / mtk; acked by Jeremy Kerr
Minor formatting/wording changes.
mtk
Put EPERM in right alphabetical position in ERRORS list.

argz_add.3
mtk
Formatting fixes.

atexit.3
mtk
Minor changes to example program.

cerf.3
mtk
These functions are still not present as
at glibc 2.7.

dbopen.3

Alain Portal / mtk
Various minor spelling and formatting fixes.

envz_add.3
mtk
Formatting fixes.

fexecve.3
mtk
Fix placement of feature test macro in SYNOPSIS.

fmax.3
fmin.3
mtk
Small rewording.

getline.3
mtk
Minor changes to example program.

getrpcent.3
getrpcport.3
mtk
Use modern C prototypes in SYNOPSIS.

getutent.3
Alain Portal / mtk
Formatting fixes.

mbsnrtowcs.3
mbsrtowcs.3
mbstowcs.3
mtk
Use .IP tags to create properly formatted lists.

rpc.3
mtk
Convert function declarations to use modern C prototypes.
Add text and start of page describing header files
and types required by functions.
Reformat discussion of request under clnt_control().

xdr.3
mtk
Convert function declarations to use modern C prototypes.
Remove crufty "int empty" from xdrrec_eof() description.

console_codes.4

Phil Endecott

Relocate misplaced line:
"and if LF/NL (new line mode) is set also a carriage return;"
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=458338.

console_ioctl.4
mtk
Formatting fixes.

bootparam.7
mtk, after a note by Alan Portal
Fix reference to kernel documentation source file in the
"The Sound Driver" subsection.

man-pages.7
Alain Portal
Move CONFIGURATION description after SYNOPSIS description.
mtk / Alain Portal
Note that header files should be surrounded by angle brackets (<>).

posixoptions.7
mtk
Minor formatting and wording fixes.

rtnetlink.7
Andreas Henriksson
Fix description of RTM_F_EQUALIZE.
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=458325.

signal.7
mtk
Minor formatting and wording fixes.

socket.7
mtk
Small rewording of discussion of O_ASYNC.

spufs.7
mtk / Jeremy Kerr / Alain Portal
s/SPE/SPU/

==========
Changes in man-pages-2.76 ==========

Released: 2008-01-14

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Jeremy Kerr <jk@ozlabs.org>
Sam Varshavchik <mrsam@courier-mta.com>
Trond Myklebust <trond.myklebust@fys.uio.no>

Apologies if I missed anyone!

Global changes
---

longjmp.3
printf.3
scanf.3
setbuf.3
setjmp.3
sk98lin.4
environ.7
  mtk
    Rework/remove use of ".ad" macros.

ioctl_list.2
mlock.2
mprotect.2
mremap.2
syslog.2
cfree.3
mpool.3
offsetof.3
rpc.3
stdin.3
  mtk
    Fix unbalanced quotes in formatting macros.

ftok.3
  mtk
    s/i-node/inode/, for consistency with other pages and POSIX.1-2001.

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages
---

chown.2

 mtk
    Minor wording change.

dup.2
  mtk
    Reordered text in DESCRIPTION and added some details for dup2().

open.2
  Trond Myklebust / mtk
    Minor fix to O_EXCL changes in previous release.

gettid.2
  mtk
    Rewrote DESCRIPTION; noted that thread ID is not the same
    thing as a POSIX thread ID.

pipe.2
  mtk
    Rewrote DESCRIPTION; minor additions to EXAMPLE text.

umask.2
  mtk
    A few rewrites and additions.

strptime.3
  Carlo Marcelo Arenas Belon / mtk
    Add "#define _XOPEN_SOURCE" to example program.

initrd.4
  mtk
    Use quotes more consistently in formatting macros.

random.4
  mtk, after a report by Daniel Kahn Gilmor
    Add 2.6 details for /proc/sys/kernel/random/poolsize.
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=459232.

pthreads.7
  mtk
    Minor changes.

spufs.7

mtk / Jeremy Kerr
Define abbreviation "MSS".

========== Changes in man-pages-2.77 ==========

Released:
2008-01-31

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Thomas Huriaux <thomas.huriaux@gmail.com>
Vincent Lefevre <vincent@vinc17.org>
WANG Cong <xiyou.wangcong@gmail.com>

Apologies if I missed anyone!

Global changes
---

stdarg.3
bootparam.7
Thomas Huriaux
Fix broken use of single quotes at start of line,
as per: http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=462636

Typographical or grammatical errors have been corrected in several places.

New pages
---

remove_COLOPHON.sh
mtk
Script to remove the COLOPHON section from the man pages provided
as command-line arguments. This is useful to remove the COLOPHON
sections from all of the man pages in two different release trees
in order to do a "diff -ruN"
to see the "real" differences
between the trees.

Changes to individual pages
---

fcntl.2
  mtk
    Replace tables with .TP macros.

fork.2
  mtk
    Added discussion of directory streams.
    Removed "#include <sys/types>" from SYNOPSIS.
    Changed authorship notice.

futex.2
  mtk
    Add ENOSYS error to errors.
  Phil Endecott
    Explicitly describe return value in the event of an error.

inotify_add_watch.2
  mtk
    Minor wording changes.

splice.2
  WANG Cong
    Fix types for 2 and 4 arguments in splice prototype.

wait.2
  Phil Endecott
    Clarify description of return value for WNOHANG.

tkill.2
  mtk
    Rewrote DESCRIPTION; emphasized that tkill() is obsoleted by
    tgkill().

alloca.3
  mtk
    Change description in NAME section.
    Various rewrites and additions (including notes on longjmp() and
    SIGSEGV).
  mtk / Vincent Lefevre
    Weaken warning
 against use of alloca(), and
    point out some cases where it can be useful;
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=461100.

bootparam.7
  Pavel Heimlich
    Remove junk line.

inotify.7
  mtk
    Replace tables with .TP macros.
    s/MultiSource Synchronization/MultiSource Synchronization (MSS)/

========== Changes in man-pages-2.78 ==========

Released: 2008-02-15

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Davide Libenzi <davidel@xmailserver.org>
Greg Banks <gnb@melbourne.sgi.com>
Michael Tokarev <mjt@tls.msk.ru>
Phil Endecott <phil_vonar_endecott@chezphil.org>

Apologies if I missed anyone!

Global changes
---

sigaction.2
signal.2
sigwaitinfo.2
signal.7
  mtk
    Add SEE ALSO entry referring to new signalfd.2 page.

Typographical or grammatical errors have been corrected in several places.

New pages
---

eventfd.2
  mtk, with input and review from Davide Libenzi
    Documents the eventfd() system call, new in 2.6.22.

signalfd.2
  mtk, with input and review from Davide Libenzi
    Documents the signalfd() system call, new in 2.6.22.

Changes to individual pages
---

futex.2
  mtk / Phil Endecott
    Improve wording describing error returns.

open.2
  Greg Banks
    Greatly expand the detail on O_DIRECT.

reboot.2
  mtk / Michael Tokarev
    Fix RETURN VALUE description: in some cases reboot() does not
    return.
  mtk
    Rename the 'flag' argument to 'cmd', since that is more meaningful,
    and also what is used in the kernel source.
    Other minor wording changes.

========== Changes in man-pages-2.79 ==========

Released: 2008-03-07

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

New pages
---

timerfd_create.2
  mtk, with input and review from Davide Libenzi
    Documents the timerfd_create(), timerfd_settime(), and
    timerfd_gettime() system calls, which are new in 2.6.25.

New links
---

timerfd_gettime.2
timerfd_settime.2
  mtk
    Links to new timerfd_create.2 page.

eventfd_read.3
eventfd_write.3
   mtk
    Links to eventfd.2.

Changes to individual pages

Makefile
  aeb
    Remove code relating to man1/README, which no longer exists.

execve.2
  mtk
    Clarify detail of RLIMIT_STACK/4 limit for argv+environ.

getitimer.2
  mtk
    Added SEE ALSO entry referring to timerfd_create.2.

getrusage.2
  mtk
    Minor rewordings.

open.2
  Michael Haardt
    Move discussion of 'mode' argument under description of O_CREAT.

signalfd.2
  mtk
    Fix type for 'ssi_ptr' field.
    See http://sources.redhat.com/ml/libc-hacker/2008-01/msg00002.html.

syscalls.2
  mtk
    Add timerfd_create(), timerfd_settime(), and timerfd_gettime()
    to list.

syslog.2
  Jeremy Kerr
    Add info on command type 10.
    Add details on types 6, 7, 8, and 9.
    Minor grammar fix.
  mtk
    Update LOG_BUF_LEN details.
    Update RETURN VALUE section.
    Notes capability
 requirements under EPERM error.
    Minor fix to description of type==3 and type==4.
    Other minor edits.

ctime.3
  Walter Harms
    Note that POSIX requires localtime() to act as though tzset()
    was called, but localtime_r() does not have the same requirement.
    See also http://thread.gmane.org/gmane.comp.time.tz/2034/

getaddrinfo.3
  mtk
    Clarify discussion of NULL 'hints' argument; other minor rewrites.
  mtk / Sam Varshavchik
    Remove some duplicated text.

malloc.3

Lasse Kärkkäinen / Mike Frysinger / mtk
Clarify description of realloc() behavior for
((size == 0) && (ptr != NULL)).

posix_fallocate.3
Samuel Thibault
s/stdlib.h/fcntl.h/ in SYNOPSIS.

proc.5
Fernando Luis Vázquez Cao
Update /proc/[number]/cmdline description.
It used to be true that the command line arguments were
not accessible when the process had been swapped out.
In ancient kernels (circa
2.0.*) the problem was that the
kernel relied on get_phys_addr to access the user space buffer,
which stopped working as soon as the process was swapped out.
Recent kernels use get_user_pages for the same purpose and thus
they should not have that limitation.

epoll.7
Davide Libenzi / mtk
Clarify the somewhat unintuitive behavior that occurs if a file
descriptor in an epoll set is closed while other file descriptors
referring to the same underlying open file description remain
open.
See also http://thread.gmane.org/gmane.linux.kernel/596462/.
mtk
Clarify error that occurs if we add an epoll fd to its own set.
mtk
A few minor rewordings.
mtk, after a note by Chris Heath
Rework Q1/A1, describing what happens when adding the same
file descriptor twice to an epoll set, and when adding duplicate
file descriptors to the same epoll set.
Heikki Orsila / mtk / Davide
Libenzi
Clarify Q9/A9 to discuss packet/token-oriented files.
mtk, after comments by Davide Libenzi and Chris Heath
Added Q0/A0, making explicit that the key for items in an epoll
set is [file descriptor, open file description].
mtk, after a note by Ron Burk
Change A3, to note that when events are available,
the epoll file descriptor will indicate as being readable.
mtk
Add some further explanation to Q5/A5 about why an epoll file
descriptor cannot be passed across a Unix domain socket.

posixoptions.7
  mtk
    Add SEE ALSO entry for standards(7).

regex.7
  mtk
    Add grep(1) to SEE ALSO.
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=348552.

standards.7
  mtk
    Add SEE ALSO entry for posixoptions(7).

time.7
  mtk
    Added SEE ALSO entry referring to timerfd_create.2.

========== Changes in man-pages-2.80 ==========

Released: 2008-06-05

Contributors

The
 following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes
---

bdflush.2
inotify_add_watch.2
mprotect.2
sigprocmask.2
ctime.3
getusershell.3
setbuf.3
st.4
ip.7
packet.7
  mtk
    Replace "(il)legal" by "(not) permitted" or "(in)valid".

read.2
utime.2
filesystems.5
packet.7
  mtk
    s/time stamp/timestamp/, for consistency with majority use
    in other pages, and in POSIX.1.

madvise.2
mbind.2
mincore.2
mmap.2
mmap2.2
msync.2
remap_file_pages.2
  mtk

Change name of 'start' argument to 'addr' for consistency
with:
* other memory-related interfaces
* POSIX specification (for those interfaces in POSIX)
* Linux and glibc source code (in at least some cases)

Various
pages
mtk
s/filesystem/file system/, for consistency with majority use
in other pages, and in POSIX.1.

Various pages
mtk
s/zeroes/zeros/, for consistency with majority use
in other pages, and in POSIX.1.

abs.3
proc.5
mtk
s/builtin/built-in/, for consistency with majority use
in other pages, and in POSIX.1.

mknod.2
ftw.3
mtk
s/normal file/regular file/

Various pages
mtk
s/nonempty/non-empty/

Various pages
mtk
s/nonzero/non-zero/

Various pages
mtk
s/realtime/real-time/, for consistency with majority usage.

Various pages
mtk
s/command line/command-line/ when used attributively.

Various pages
mtk
Use "run time" when non-attributive, "run-time" when attributive.

Various pages
  mtk
      Various pages that I wrote carried a slightly modified version
      of the "verbatim" license. In the interests of minimizing
      license proliferation,
 I've reverted the modified form
      so that the license is exactly the same as on other pages
      carrying the verbatim license.

epoll_ctl.2
getitimer.2
getrlimit.2
unix.7
  mtk
      s/since kernel x.y.z/since Linux x.y.z/

wait.2
inotify.7
  mtk
      Reformat kernel version information for flags.

Typographical or grammatical errors have been corrected in several places.
(Special thanks to Nicolas François.)

New pages
----

random_r.3
  mtk, after a suggestion by aeb
      Documents random_r(3), srandom_r(3), initstate_r(3), and
      setstate_r(3), which are the reentrant equivalents of
      random(3), srandom(3), initstate(3), and setstate(3).

New links
----

lutimes.3
  mtk
      Link to futimes.3.

initstate_r.3
setstate_r.3
srandom_r.3
  mtk
      Links to random_r.3.

daylight.3
timezone.3
tzname.3
  mtk
    Links to tzset.3.

isnanf.3
isnanl.3
  mtk
    Links to finite.3.

encrypt_r.3
setkey_r.3
  mtk
    Links
 to encrypt.3.

Changes to individual pages
---

clone.2
  mtk
    Added note that CLONE_STOPPED (which no-one uses anyway) is
    now deprecated.

epoll_create.2
  mtk
    Add NOTES section pointing out that 'size' argument is unused
    since kernel 2.6.8.

epoll_ctl.2
  mtk
    Added portability note to BUGS text for EPOLL_CTL_DEL.

epoll_wait.2
  mtk
    If the 'sigmask' is NULL, then epoll_pwait() is equivalent
    to epoll_wait().

fork.2
  mtk
    NOTES: since glibc 2.3.3, the glibc NPTL fork() wrapper
    bypasses the fork() system call to invoke clone() with
    flags providing equivalent functionality.

futex.2
  mtk, after a note from Adrian Bunk

FUTEX_FD has been removed, as of kernel 2.6.26.

futimesat.2
mtk
Note that this system call is made obsolete by utimensat(2).

getgroups.2
Petter Reinholdtsen
SEE ALSO: Add getgrouplist(3).
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=479284.
mtk
NGROUPS_MAX increased in kernel 2.6.4.
SEE ALSO: Add credentials(7).
mtk
Reformat DESCRIPTION and RETURN VALUE sections to be more
consistent with man-pages style.
Add some more detail to descriptions of system calls.
Clarified what happens if caller of getgroups() is a member of
more than 'size' supplementary groups.
ERRORS: Add ENOMEM.

getpriority.2
mtk, after a note from Ingo Molnar
Add text in NOTES about the punchier effect of nice values in
kernel 2.6.23 and later.
Add Documentation/scheduler/sched-nice-design.txt to SEE ALSO list.

gettid.2
mtk
Added VERSIONS section noting that this system call first
appeared in 2.4.11.

kill.2
Marty Leisner / mtk
Add text explicitly noting that sig==0 can be used to check for
the existence of a PID or PGID.
mtk
A few minor rewordings.

mbind.2
mtk
The location of the numactl package has changed.

mmap.2
mtk
Added some .SS headings to make structure of page a little
more obvious.
mtk, with input from Nick Piggin

MAP_POPULATE supports both file and anonymous mappings.
Since 2.6.23, MAP_POPULATE supports private mappings.
Since 2.6.23, MAP_NONBLOCK causes MAP_POPULATE to be a no-op.
mtk
NOTES: Added details on mapping address that is selected by
kernel when MAP_FIXED is / isn't specified.

mount.2
mtk
The MS_REMOUNT changes in 2.4 were at 2.4.10 (not 2.4).
mtk
Minor wording change.

msgctl.2
mtk
Clarify that "unused" fields in msginfo structure are
"unused within the kernel".
msginfo.msgpool is measured in kilobytes, not bytes.
Minor rewordings in comments for msginfo structure.

msgop.2
mtk
Various minor rewordings and restructurings for clarity.
mtk, after a note from Reuben Thomas
Remove "msgop" from NAME section.

mkdir.2
mtk
Clarify meaning of "BSD group semantics".
SEE ALSO: add chown(2).

mknod.2
mtk
SEE ALSO: add chown(2) and chmod(2).

mmap.2
mtk
SEE ALSO: add mprotect(2) and shmat(2).

mprotect.2
Hamaji Shinichiro
SYNOPSIS: s/size_t *len/size_t len/

open.2
mtk
Note that O_CLOEXEC should be in the next POSIX.1 revision.
mtk
More than just ext2 supports "mount -o bsdgroups" nowadays,

so make the discussion about group ownership of new files a bit
more generic.
mtk
SEE ALSO: add chown(2) and chmod(2).

poll.2
mtk
If the 'sigmask' is NULL, then ppoll() is equivalent to poll()
with respect to signal mask manipulations.

posix_fadvise.2
mtk
s/posix_madvise (2)/posix_madvise (3)/;
(The referred-to page still doesn't exist yet, but hopefully
will do sometime soon.)

ptrace.2
Anoop, Acked by Roland
McGrath.
Re PTRACE_PEEKUSER: the offsets and data returned might not
match with the definition of struct user.
See also http://lkml.org/lkml/2008/5/8/375

recv.2
Felix Kater / mtk
Improve wording for EAGAIN error in discussion of MSG_DONTWAIT.

rmdir.2
Martin Pitt
POSIX.1 also allows EEXIST for the ENOTEMPTY error condition.
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=467552.

sched_setscheduler.2
mtk, with input from Ingo Molnar
Add description of SCHED_IDLE policy (new in 2.6.23).
Tweak description of SCHED_BATCH.
Minor rewordings.

select_tut.2
Justin Pryzby
Various wording clean-ups.

semctl.2
mtk
Clarify that "unused" fields in seminfo structure are
"unused within the kernel".
Minor rewordings in comments for seminfo structure.

semop.2
  Aurelien Gerome
    Small fix in example code.

setpgid.2
  mtk / Karsten Weiss
    Clarify description
 of setpgid() a little.

shmctl.2
  mtk
    Clarify that "unused" fields in shminfo structure are
    "unused within the kernel".
    Minor rewordings in comments for shminfo structure.

shmop.2
  mtk, after a note from Reuben Thomas
    Remove "shmop" from NAME section.

signalfd.2
  mtk
    Added BUGS text noting that before kernel 2.6.25, the ssi_int
    and ssi_ptr fields are not set.
    Added comments describing fields in signalfd_siginfo structure.
    Update field names in example program (s/signo/ssi_signo/).
    Various small fixes, and remove duplicated sentence.
    Minor edits to structure definition.

sigqueue.2
  mtk
    Added some comments to code in NOTES.

stat.2
  mtk
    Minor wording change.

symlink.2
  mtk
    SEE ALSO: add lchown(2).

sync_file_range.2
  mtk / Andrew Morton
    Remove statement that (SYNC_FILE_RANGE_WAIT_BEFORE |
    SYNC_FILE_RANGE_WRITE | SYNC_FILE_RANGE_WAIT_AFTER)
 is
    a traditional fdatasync(2) operation.
    See https://bugzilla.mozilla.org/show_bug.cgi?id=421482
    comments 129 to 131.

syscalls.2
  mtk
    This page is now up to date as at kernel 2.6.25.

syslog.2
  mtk
    Small tidy up of language relating to permissions/capabilities.

timerfd_create.2
  mtk
    Minor change to example program.
    Minor wording change.

utime.2
  Reuben Thomas
    Remove unnecessary subheading for utimes().
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=477402.
  mtk
    Change description in NAME line ("or" is not correct: these calls
    always change *both* timestamps).
    CONFORMING TO: utimes() is in POSIX.1-2001.
  mtk
    Rename 'buf' argument of utime() to 'times' (like utimes()).
    Clarify explanation of EACCES and EPERM errors.
    Remove BUGS section, since it doesn't seem to add useful
    information.
    Clarified discussion of capabilities,
 and noted that
    CAP_DAC_OVERRIDE also has a role.
    Other minor rewordings.

wait.2
  mtk, after a note by Justin Pryzby
    Add a sentence clarifying that even though the default disposition
    of SIGCHLD is "ignore", explicitly setting the disposition to
    SIG_IGN results in different treatment of zombies.

aio_cancel.3
aio_error.3
aio_fsync.3
aio_read.3
aio_return.3
aio_suspend.3
aio_write.3
  Kevin O'Gorman <kogorman@csc.calpoly.edu>
    Add "Link with -lrt" to SYNOPSIS.

backtrace.3
  Nicolas François
    s/backtrace_symbols/backtrace_symbols_fd/ in one sentence.
  mtk
    Fix bogus reference to variable 'strings': should be:
    "the array of pointers".

ctime.3
  mtk
    Add warning under NOTES that asctime(), ctime(), gmtime(), and
    localtime() may each overwrite the static object returned by any
    of the other calls.
    Other minor edits.

dlopen.3
  mtk
    Add more detail to the description
 of the fields in the
    structure returned by dladdr().

fexecve.3
  mtk
    Clean up SYNOPSIS after work by cut-and-paste-Pete:
    the necessary header file is <unistd.h> not <sys/time.h>!

futimes.3
  mtk
    Add documentation of lutimes(), which appeared in glibc 2.6.
  mtk
    Change description in NAME line ("or" is not correct: these calls
    always change *both* timestamps).
    CONFORMING TO: futimes() did not come from 4.2BSD. (It came from
    FreeBSD; see the FreeBSD man page.)

getenv.3
  mtk
    Noted that caller must not modify returned value string.
    Noted that getenv() is not reentrant: the buffer may be statically
    allocated and overwritten by later calls to getenv(), putenv(),
    setenv(), or unsetenv().
    Other minor rewrites.

getgrent.3
  Petter Reinholdtsen
    SEE ALSO: Add getgrouplist(3).
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=479284.

gethostbyname.3

mtk
Add 'h_errno' to NAME list.

getopt.3
mtk
Add 'optarg', 'optind', 'opterr', and 'optopt' to NAME section.
Add subheading for getopt_long() and getopt_long_only()
description.

getpt.3
mtk
Point out that this function should be avoided in favor of
posix_openpt().
Add ERRORS section referring to open(2).

getsubopt.3
Daniel Burr
SYNOPSIS: Fix declaration of valuep.
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=476672.

malloc.3
mtk
RETURN VALUE: Note circumstances in which successful malloc() and
calloc() can return NULL.

mq_open.3
mtk, after a note by Marty Leisner
Note that <fcntl.h> is needed for O_* constants and <sys/stat.h>
is needed for 'mode' constants.

opendir.3
mtk
Describe treatment of close-on-exec flag by opendir() and
fdopendir().

openpty.3
mtk
SEE ALSO: add ttyname(3).

raise.3
mtk / Timothy Baldwin

Clarify semantics of raise() when called from a multithreaded
program.
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=476484.
mtk
Rewrites and additions to various parts of the page.

rand.3
  Tolga Dalman / aeb / mtk
    Remove outdated warning in NOTES; encourage the use of
    random(3) instead.
  Folkert van Heusden
    Clarify wording describing range of values returned by rand().

random.3
  aeb / mtk / Tolga Dalman
    Recommend use or random_r(3) for multithreaded applications
    that need independent, reproducible sequences of random numbers.

    Move references to "The Art of Computer Programming" and
    "Numerical Recipes", formerly in rand(3), to this page.

    Add drand48(93) to SEE ALSO list.

regex.3
  Heikki Orsila
    Clarify description of 'rm_eo' field.

sem_open.3
  mtk, after a note by Marty Leisner
    Note that <fcntl.h> is needed for O_* constants and <sys/stat.h> is
     needed for 'mode' constants.

sem_post.3
  mtk
    Added pointer to example in sem_wait(3).

sem_close.3
sem_destroy.3
sem_getvalue.3
sem_init.3
sem_open.3
sem_post.3
sem_unlink.3
sem_wait.3
  mtk, after a note from Marty Leisner
    Add text to SYNOPSIS noting the need to link with "-lrt" or
    "-pthread".

setenv.3
  mtk
    setenv() copies 'name' and 'value' (contrast with putenv()).
    unsetenv() of a nonexistent variable does nothing and is
    considered successful.
    Noted that setenv() and unsetenv() need not be reentrant.

shm_open.3
  mtk, after a note by Marty Leisner
    Note that <fcntl.h> is needed for O_* constants and <sys/stat.h> is
    needed for 'mode' constants.

undocumented.3
  mtk
    initstate_r(3), setkey_r(3), setstate_r(3) are now documented.

utmp.5
  Nicolas François
    Small rewording.

resolv.conf.5
  Nicolas François
    gethostname() is in Section 2, not section 3.

ascii.7

 Stuart Brady
    Fix rendering of ' (backtick) and apostrophe (') in tables

charsets.7
  Nicolas François
    s/unicode.com/unicode.org/

credentials.7
  mtk
    NOTES: Pthreads requires that all threads share the same UIDs and
    GIDs. But the Linux kernel maintains separate UIDs and GIDs for
    every thread. NPTL does some work to ensure that credential
    changes by any thread are carried through to all POSIX threads in
    a process.
  mtk
    sysconf(_SC_NGROUPS_MAX) can be used to determine the number of
    supplementary groups that a process may belong to.
    Clarify that supplementary group IDs are specified in POSIX.1-2001.

epoll.7
  mtk, after a note from Sam Varshavchik
    For answer A2, change "not recommended" to "careful programming
    may be required".

inotify.7
  mtk
    Document SIGIO feature (new in 2.6.25) for inotify file descriptors.
  mtk

Note that select()/poll()/epoll_wait() indicate
a ready inotify
file descriptor as readable.
mtk
Document IN_ATTRIB in a little more detail.

pthreads.7
Justin Pryzby
Grammar fix, plus fix typo in script.
mtk
Add list of thread-safe functions.

standards.7
mtk
Add a section on the upcoming POSIX revision.

ld.so.8
Justin Pryzby / mtk
Various wording improvements.

========== Changes in man-pages-3.00 ==========

Released: 2008-06-12, Konolfingen

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been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes

The POSIX.1 man pages (sections 0p, 1p, 3p) have been moved out
of this package into the separate man-pages-posix package.
This made sense because those pages are seldom changed (only formatting
fixes, etc.) so that it
was unnecessary to redistribute them with each
man-pages release.

console_codes.4
random.4
dir_colors.5
proc.5
glob.7
  Stuart Brady
    s/`/\`/ for backquotes used in command substitution, for
    proper rendering in UTF-8.

Various pages
  mtk, after a note from Stuart Brady
    Using /'x'/ to denote a character (string) renders poorly in
    UTF-8, where the two ' characters render as closing single
    quotes. On the other hand, using /`x'/ renders nicely on UTF-8,
    where proper opening and closing single quotes are produced by
    groff(1), but looks ugly when rendered in ASCII. Using the
    sequence /\\aqx\\aq/ produces a reasonable rendering ('\\aq'
    is a vertical "apostrophe quote") in both UTF-8 and ASCII.
    So that change is made in a number of pages.
    See also http://www.cl.cal.ac.uk/~mgk25/ucs/quotes.html.

Various pages
  mtk
    Replace form /`string'/ by /"string"/, since the former renders
    poorly
 in ASCII.

termios.3
console_codes.4
tty_ioctl.4
termcap.5
charsets.7
  mtk
    Control character names (^X) are written boldface, without
    quotes.

printf.3
scanf.3
proc.5
glob.7
regex.7
  mtk
    Various edits to try and bring some consistency to the use of
    quotes.

Changes to individual pages

---

tty_ioctl.4
  mtk
    Small rewordings in description of packet mode.

locale.7
  mtk
    Minor formatting fixes.

========== Changes in man-pages-3.01 ==========

Released: 2008-06-25, Munich

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been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

acct.5
  mtk
    A complete rewrite of this page, now with much more detail.

hostname.7
  mtk
    A description of hostname resolution. Taken from FreeBSD 6.2,
    and lightly edited for man-pages style.

symlink.7
  mtk
    A description of symbolic links. Taken from FreeBSD 6.2, but
    heavily edited for Linux details, improved readability, and
    man-pages style.

Newly documented interfaces in existing pages
---

getrlimit.2
  mtk / Peter Zijlstra
    Add description of RLIMIT_RTTIME limit, new in 2.6.25.

mkstemp.3
  mtk
    Add description of mkostemp(), new in glibc 2.7.

core.5
  mtk, after a note by Petr Gajdos; review by Neil Horman
    Document core_pattern pipe syntax, which appeared in
    kernel 2.6.19.
    Add an example program demonstrating use of core_pattern
    pipe syntax.
  mtk
    Document /proc/PID/coredump_filter, new in kernel 2.6.23.
    Documentation was based on the text in
    Documentation/filesystems/proc.txt, plus testing, and

checking the kernel source.

proc.5
  mtk
    Document /proc/PID/oom_score, which was new in kernel 2.6.11.
    This file displays the "badness" score of the process, which
    provides the basis for OOM-killer decisions.
  mtk
    Document /proc/PID/oom_adj, which was new in kernel 2.6.11.
    This file influences the oom_score of a process.
  mtk
    Document /proc/PID/limits, which was new in 2.6.24.
    This file displays a process's resource limits.
  mtk
    Document /proc/PID/fdinfo/*, which was new in 2.6.22.
    These files display info about each descriptor opened by the
    process: the current file offset, and the file access mode +
    file status flags as set in open() or fcntl(F_SETFL).
  mtk
    Document /proc/PID/mountinfo, which was new in 2.6.26.
    This file displays information about mount points.
    Closely based on text from Documentation/filesystems/proc.txt.
  mtk
    Document /proc/PID/mountstats,
 which was new in 2.6.17.
    This file displays statistics about mount points.
  mtk
    Document /proc/PID/status.
  Samuel Thibault / mtk, review by Laurent Vivier,
          Christian Borntraeger, and Andrew P
    Document guest (virtual CPU) time field in /proc/stat.
    Document guest (virtual CPU) time fields in /proc/PID/stat.

New links
----

mkostemp.3
  mtk
    Link to mkstemp.3.

getcwd.2
  mtk
    Link to getcwd.3, which describes several interfaces, among
    them getcwd(), which is in fact a system call.

Global changes
---

sched_setaffinity.2
sched_setscheduler.2
set_mempolicy.2
mbind.2
  mtk
    SEE ALSO: Add cpuset(7).

chown.2
faccessat.2
fchmodat.2
fchownat.2
fstatat.2
getxattr.2
link.2
linkat.2
listxattr.2
open.2
readlink.2
removexattr.2
rename.2
setxattr.2
stat.2
symlink.2
symlinkat.2
unlink.2
futimes.3
remove.3
path_resolution.7
  mtk
    SEE ALSO: Add symlink(7).

intro.1
time.1
fcntl.2
gethostbyname.3
ioctl_list.2
   mtk
    Wrap source lines so that new sentence starts on new line.

addseverity.3
backtrace.3
dlopen.3
fmtmsg.3
getnameinfo.3
getpt.3

grantpt.3
makecontext.3
ptsname.3
tcgetsid.3
unlockpt.3
wordexp.3
  mtk
    Added VERSIONS section.

msgctl.2
msgget.2
semget.2
semop.2
pciconfig_read.2
basename.3
cmsg.3
ftok.3
console_ioctl.4
tzfile.5
mq_overview.7
pty.7
  mtk
    For consistency, "fix" cases where argument of .B or .I was
    on the following source line.

adjtimex.2
getrusage.2
io_getevents.2
poll.2
select.2
semop.2
sigwaitinfo.2
aio_suspend.3
clock_getres.3
mq_receive.3
mq_send.3
sem_wait.3
proc.5
  mtk
    SEE ALSO: add time(7)

Typographical or grammatical errors have been corrected in several places.
(Special thanks to Nicolas François and Alain Portal.)

Changes to individual pages
---

acct.2
  mtk
    Add a few more words to DESCRIPTION.
    NOTES: Add pointer to acct(5).

alarm.2
   Alain Portal
    s/process/calling process/ so as to say that the alarm signal is
    delivered to the calling process.

brk.2
  Yao Zhao / mtk
    Clarify discussion of return value of sbrk().
  mtk
    DESCRIPTION: Add some sentences giving an overview of these
    interfaces.
    Add note recommending use of malloc(3).
    Change name of brk() argument to the simpler 'addr'.
    Add "(void *)" cast to "-1" for error return of sbrk().
    Removed some incorrect text about "brk(0)".
    Note that SUSv2 specified the return value of sbrk().
    Added a detail on the glibc brk() wrapper.
    Remove discussions of old standards (C89 and POSIX.1-1990);
    CONFORMING TO already discusses the situation with respect
    to more recent standards.

chmod.2
  mtk
    Clarify description of chmod() and fchmod().
    Add further detail on S_ISUID, S_ISGID, and S_ISVTX permissions.
    Reformat list of permissions
 bits.

chown.2
  mtk
    Describe rules governing ownership of new files (bsdgroups
    versus sysvgroups, and the effect of the parent directory's
    set-group-ID permission bit).

chroot.2
  Alain Portal
    Clarify description a little.
    s/changes the root directory/
      changes the root directory of the calling process/

execve.2
  mtk
    Fix text that warns against use of NULL argv and envp.

Using a NULL envp does in fact seem to be portable (works
on Solaris and FreeBSD), but the Linux semantics for a NULL
argv certainly aren't consistent with other implementations.
See http://bugzilla.kernel.org/show_bug.cgi?id=8408.

getdents.2
mtk, after a note from George Spelvin
Document d_type field, present since kernel 2.6.4.
Other minor edits.

getitimer.2
mtk
Noted that POSIX.1 leaves interactions with alarm(), sleep(),
and usleep() unspecified.
Linux 2.6.16 removed the
MAX_SEC_IN_JIFFIES ceiling on timer
values.
Other minor changes.

io_cancel.2
io_destroy.2
io_getevents.2
io_setup.2
io_submit.2
mtk, after a note by Masatake YAMOTO and input from Jeff Moyer
Describe the unconventional error return provided by the
wrapper function in libaio (and contrast with behavior if
the system call is invoked via syscall(2)).
See http://thread.gmane.org/gmane.linux.ltp/4445/
Alain Portal / mtk
Re-order ERRORS and SEE ALSO entries to be alphabetical.

io_getevents.2
Alain Portal
Small wording fix.

io_submit.2
Jeff Moyer
s/AIO request blocks/AIO control blocks/

mknod.2
mtk
Note that EEXIST applies, even if the pathname is a
(possibly dangling) symbolic link.

nanosleep.2
mtk, after a report from Stephane Chazelas
Remove crufty discussion of HZ, and replace with a pointer

to time(7).
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=485636
mtk, after some discussions with Bart Van Assche and Roman Zippel
NOTES: describe CLOCK_REALTIME versus CLOCK_NANOSLEEP
See also http://thread.gmane.org/gmane.linux.kernel/696854/
"nanosleep() uses CLOCK_MONOTONIC, should be CLOCK_REALTIME?"
mtk
Replace mentions of "process' by "thread".
NOTES: describe case where clock_nanosleep() can be preferable.
Some minor rewrites.

open.2
mtk, after a note from Christoph Hellwig
NOTES: Note that access mode flags are not single bits,
and document the Linuxism "access mode 3".
See also http://thread.gmane.org/gmane.linux.kernel/653123.

readdir.2
mtk
Minor wording fixes.

recv.2
Alain Portal
Add comment to 'ee_pad' field in structure definition.

sched_setscheduler.2
mtk
Add pointer to discussion of RLIMIT_RTTIME in getrlimit.2.
mtk, after a note by Andrew Clayton
Rewrote and restructured various parts
of the page for greater
clarity.
mtk
Add more detail to the rules that are applied when an
unprivileged process with a non-zero RLIMIT_RTPRIO limit
changes policy and priority.
SEE ALSO: Add Documentation/scheduler/sched-rt-group.txt

sync_file_range.2
Pavel Machek
SYNC_FILE_RANGE_WRITE can block on writes greater than request
queue size. For some background, see
http://thread.gmane.org/gmane.linux.kernel/687713/focus=688340

syscalls.2
mtk
Added system call history back to version 1.2.
Fix typo on kernel version for pivot_root().

syslog.2
  WANG Cong
    Document ENOSYS error, which can occur if kernel was built without
    CONFIG_PRINTK.

utime.2
  Nicolas François
    Clarify description of 'times' array for utimes().

adjtime.3
  mtk
    The longstanding bug that if delta was NULL, olddelta
    didn't return the outstanding clock adjustment, is now fixed

  (since glibc 2.8 + kernel 2.6.26).
    http://sourceware.org/bugzilla/show_bug?id=2449
    http://bugzilla.kernel.org/show_bug.cgi?id=6761

dprintf.3
  mtk
    Note that these functions are included in the next POSIX revision.
    Remove editorial discussion about what the functions should have
    been named.

ftime.3
  mtk
    Rewrote various pieces, and added some details.

getaddrinfo.3
  mtk
    Improve description or 'hints' and 'res' arguments.
    Add details on numeric strings that can be specified for 'node'.
    Other fairly major restructurings and rewrites to improve
    logical structure and clarity of the page.
    SEE ALSO: Add hostname(7).

gethostbyname.3
  mtk
    DESCRIPTION: Add reference to inet_addr(3) for dotted notation.
    SEE ALSO: add inet(3).
  mtk
    Added BUGS section noting that gethostbyname() does not
    recognize hexadecimal components in dotted address strings;
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=482973

getmntent.3

mtk, after Stuart Cunningham pointed out the typo
Remove statement that LSB deprecates the functions
"endmntent(), setmntent() [sic] and setmntent()".
This doesn't seem to be true (I can't find mention of it
being deprecated in any of the LSB specs). Rather, LSB simply
doesn't specify these functions. (LSB 1.3 had a spec of
setmntent(), but not getmntent() or endmntent(), and noted
that having a spec of setmntent() was of little use without
also having a spec of getmntent().)
See also https://lists.linux-foundation.org/pipermail/lsb-discuss/2006-October/003078.html

getnameinfo.3
Tolga Dalman
Remove mention of sa_len field from example code.
That field is a BSDism not present on Linux.
mtk
Various minor changes.

inet.3
mtk / Stephane Chazelas
inet_aton() is *not* in POSIX.1.
Rewrote discussion
of why inet_addr() is disfavored.
SEE ALSO: Add getaddrinfo(3).
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=482979.
mtk, after a note by Stephane Chazelas
Describe the various address forms supported by inet_aton().
mtk
Rewrite description of inet_network().
Clarify discussion of inet_lnaof(), inet_netof(), and inet_makeaddr().
Add discussion of Classful Addressing, noting that it is obsolete.
Added an EXAMPLE program.
mtk
Relocate discussion of i386 byte order to NOTES.
Note that inet_aton() returns an address in network byte order.
SEE ALSO: Add byteorder(3) and getnameinfo(3).

inet_ntop.3
mtk
Remove unneeded header files from SYNOPSIS.
SEE ALSO: Add inet(3) and getnameinfo(3).
Make NAME line more precise.
Move errors to an ERRORS section.
Add EXAMPLE section pointing to inet_pton(3).

inet_pton.3
mtk / Stephane Chazelas
Remove

statement that inet_pton() extends inet_ntoa();
that's not really true, since inet_pton() doesn't support
all of the string forms that are supported by inet_ntoa().
SEE ALSO: Add getaddrinfo(3).
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=482987.
mtk
Describe IPv6 address formats.
Describe dotted decimal format in more detail.
Add an example program.
mtk
Remove unneeded header files from SYNOPSIS.
Make NAME line more precise.
Make description of return value more precise.
SEE ALSO: Add inet(3).

mkfifo.3
mtk
Note that EEXIST applies, even if the pathname is a
(possibly dangling) symbolic link.

mkstemp.3
mtk
Fix discussion of O_EXCL flag.
These functions may also fail for any of the errors described
in open(2).
Various other rewordings.

readdir.3
mtk
Document DT_LNK (symbolic link) for d_type field.

Reorder DT_ entries alphabetically.

remainder.3
mtk
Recommend against drem(), in favor of remainder().

scanf.3
mtk, after a note from Stephane Chazelas
Add an ERRORS section documenting at least some of the errors
that may occur for scanf().
See also http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=487254.
mtk, after a note from Stephane Chazelas; review by Stephane Chazelas
Document the GNU 'a' modifier for dynamically allocating strings.
See also http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=487254.
Document the GNU 'm' modifier for dynamically allocating strings.

strcat.3

Andreas Herrmann
s/strcat/strncat/ (a typo that changed the semantics in
DESCRIPTION).

strerror.3
mtk, after a note from Daniele Giacomini
Modify SYNOPSIS to show prototypes of both versions of strerror_r(),
and make other small clarifications of the description regarding
the two versions.

random.4
George Spelvin (taking time out from his busy Broadway schedule),
with some tweaks by Matt Mackall and mtk
Add a Usage subsection that recommends most users to use
/dev/urandom, and emphasizes parsimonious usage of
/dev/random.

locale.5
Petr Baudis <pasky@suse.cz>
LC_TIME: Describe first_weekday and first_workday.

proc.5
mtk
The various CPU time fields in /proc/stat and /proc/PID/stat
return time in clock ticks (USER_HZ, cputime_to_clock_t(),
sysconf(_SC_CLK_TCK)).
Updated, clarified and expanded the description several
fields in /proc/[number]/stat.
mtk
Clarified and expanded the description of /proc/[number]/fd.
mtk
Updated and clarified the description of /proc/[number]/statm.
mtk
Updated and clarified the description of /proc/sys/fs/dentry-state.
mtk
Many formatting, wording, and grammar fixes.

man-pages.7
mtk
Enhanced description
of VERSIONS section.

mq_overview.7
mtk
Note that Linux does not currently support ACLs for POSIX
message queues.

sem_overview.7

mtk
Note that Linux supports ACLs on POSIX named semaphores
since 2.6.19.

time.7
mtk, with some suggestions from Bart Van Assche and Thomas Gleixner
Added some details about where jiffies come into play.
Added section on high-resolution timers.
Mentioned a few other time-related interfaces at various
points in the page.
See http://thread.gmane.org/gmane.linux.kernel/697378.

unix.7
mtk, after a note by Samuel Thibault
Provide a clear description of the three types of address that
can appear in the sockaddr_un structure: pathname, unnamed,
and abstract.

========== Changes in man-pages-3.02 ==========

Released: 2008-07-02, Konolfingen

Contributors

The following people contributed notes, ideas, or patches that
have
been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

clock_nanosleep.2
mtk
A description of the clock_nanosleep() system call,
which was added in kernel 2.6.

getgrouplist.3
  mtk
    A near complete rewrite, including additional information and
    a new example program.

getutmp.3
  mtk
    Documents getutmp(3) and getutmpx(3).

gnu_get_libc_version.3
  mtk
    Documents gnu_get_libc_version(3) and gnu_get_libc_release(3).

sigwait.3
  mtk
    Documents sigwait(3).

shm_overview.7
  mtk
    An overview of the POSIX shared memory API.

Newly documented interfaces in existing pages
---

updwtmp.3
   mtk
    Document updwtmpx(3).

New links
---

getutmpx.3
  mtk
    Link to getutmp.3.

gnu_get_libc_release.3
  mtk
    Link to gnu_get_libc_version.3

updwtmpx.3
  mtk
    Link to updwtmp.3

utmpxname.3
  mtk

Link to getutent.3.

utmpx.5
  mtk
    Link to utmp.5.

Global changes

Various pages
  mtk
    s/user name/username/

Various pages
  mtk
    s/host name/hostname/

Changes to individual pages
---

fchmodat.2
  Alain Portal
    SEE ALSO: add symlink.7. (3.01 changelog wrongly said this
    had been done.)

io_setup.2
  Alain Portal
    Remove superfluous text from RETURN VALUE.

mmap.2
  mtk
    SEE ALSO: Add mmap(2), shm_overview(7).

shmget.2
shmop.2
  mtk
    SEE ALSO: add shm_overview(7).

sigreturn.2
  mtk
    Added a bit more detail on what sigreturn() actually does.

signalfd.2
sigsuspend.2
  mtk
    SEE ALSO: Add

sigwait(3).

sigwaitinfo.2
  mtk
    Describe behavior when multiple threads are blocked in
    sigwaitinfo()/sigtimedwait().
    SEE ALSO: Add sigwait(3).

dirfd.3
  mtk
    RETURN VALUE: describe return value on success.
    Add an ERRORS section documenting POSIX.1-specified errors.

getaddrinfo.3
  mtk, after a note by Stephane Chazelas
    getaddrinfo() supports specifying IPv6 scope-IDs.

getlogin.3
  mtk
    ERRORS: add ENOTTY.
    SEE ALSO: add utmp(5).

getutent.3
  WANG Cong
    utmpname() does return a value.
  mtk
    Add paragraph to start of DESCRIPTION recommending
    use of POSIX.1 "utmpx" functions.
    CONFORMING TO: mention utmpxname().
    Add an ERRORS section.
    There are no utmpx equivalents of the _r reentrant functions.
    Clarify discussion of return values.
    Add pointer to definition of utmp structure in utmp(5).
    Clarify discussion of utmpx file on other systems (versus
     Linux situation).

getutent.3
  mtk
    SEE ALSO: add getutmp(3)

inet_pton.3
  Stephane Chazelas
    Fix error in description of IPv6 presentation format:
    s/x.x.x.x.x.x.x.x/x:x:x:x:x:x:x:x/.

setbuf.3
  Reuben Thomas / mtk
    Fix confused wording for return value of setvbuf().

Fixes http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=488104.
  mtk
    Other minor rewordings.

shm_open.3
  mtk
    SEE ALSO: add shm_overview(7).

random.4
  mtk, after a note by Alain Portal
    Slight rewording to make life easier for non-native English
    speakers.

utmp.5
  mtk
    Add discussion of POSIX.1 utmpx specification.
    Provide a little more detail on fields of utmp structure.
    Added comments to macros for ut_type field.
    Correct the description of the ut_id field.
  mtk
    Consolidate duplicated information about ut_tv and ut_session
    on biarch platforms.
  mtk
    Move some text from
 CONFORMING TO to NOTES.
    Removed some crufty text.
    SEE ALSO: add login(3), logout(3), logwtmp(3).
    UT_LINESIZE is 32 (not 12).
  mtk
    SEE ALSO: add getutmp(3)

man-pages.7
  mtk
    Enhanced the discussion of font conventions.

signal.7
  mtk
    Note that the delivery order of multiple pending standard
    signals is unspecified.
    SEE ALSO: Add sigwait(3).

========== Changes in man-pages-3.03 ==========

Released: 2008-07-08, Konolfingen

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Paul Jackson <pj@sgi.com>
Sam Varshavchik <mrsam@courier-mta.com>

Apologies if I missed anyone!

New and rewritten pages
---

getcpu.2
  Andi Kleen, with some text and edits
 by mtk
    Documents the getcpu(2) system call, introduced in Linux 2.6.19.

sched_getcpu.3
  mtk
    Documents sched_getcpu(3), a wrapper for getcpu(2), provided
    since glibc 2.6.

cpuset.7
  Paul Jackson, with review and editing by mtk, and comments by
  Hidetoshi Seto and Li Zefan
    A description of the cpuset file system, the mechanism introduced
    kernel 2.6.12 for confining processes to designated processors
    and nodes. (Becomes the fourth largest page in man-pages!)

Newly documented interfaces in existing pages
---

readdir.3
  mtk
    Add documentation of readdir_r().

New links
---

updwtmpx.3

Alain Portal
Link to updwtmp.3 (3.02 changelog wrongly said this had been done).

readdir_r.3
mtk
Link to readdir.3.

Global changes
---

get_mempolicy.2
mbind.2
sched_setaffinity.2
set_mempolicy.2
mtk
SEE ALSO: Add getcpu(2).

accept.2
close.2
connect.2
dup.2
epoll_wait.2
fcntl.2
flock.2
futex.2
msgop.2
poll.2
read.2
recv.2
select.2
semop.2
send.2
sigwaitinfo.2
spu_run.2
wait.2
write.2
aio_suspend.3
mq_receive.3
mq_send.3
scanf.3
sem_wait.3
usleep.3
inotify.7
mtk
ERRORS: Added reference to signal(7) in discussion of EINTR.

Various pages

mtk

Wrapped very long source lines.

Changes to individual pages
---

accept.2

mtk

Small wording change.

io_getevents.2

mtk

ERRORS: Add EINTR error.

open.2

mtk

ERRORS: Add EINTR error.

sigaction.2

mtk

Note circumstances in which each SA_* flag is meaningful.

mtk

Describe POSIX specification, and Linux semantics for
SA_NOCLDWAIT when establishing a handler for SIGCHLD.

mtk

Add pointer under SA_RESTART to new text in signal(7)
describing system call restarting.

mtk

Other minor edits.

truncate.2

mtk

ERRORS: Added EINTR error.

A few minor rewordings.

wait.2

mtk

Remove statement that WUNTRACED and WCONTINUED only have effect
if SA_NOCLDSTOP has not been set for SIGCHLD. That's not true.

errno.3

mtk

Add a pointer to signal(7) for further explanation of EINTR.

getgrouplist.3

mtk

SEE ALSO: Add passwd(5).

readdir.3
  mtk
    Remove <sys/types.h> from SYNOPSIS; POSIX.1-2001 does not
    require it.
    Some minor rewordings.

sleep.3
  mtk
    RETURN VALUE: explicitly mention interruption by signal handler.
    SEE ALSO: add signal(7).

usleep.3
  mtk
    POSIX.1-2001 also only documents EINVAL.

group.5
  mtk
    SEE ALSO: Add getgrent(3), getgrnam(3).

passwd.5
  mtk
    SEE ALSO: Add getpwent(3), getpwnam(3).

proc.5
  mtk
    Add pointer to description of /proc/PID/cpuset in cpuset(7).

signal.7
  mtk
    Add a section describing system call restarting, and noting
    which system calls are affected
 by SA_RESTART, and which
    system calls are never restarted.
  mtk
    Describe the aberrant Linux behavior whereby a stop signal
    plus SIGCONT can interrupt some system calls, even if no
    signal handler has been established, and note the system
    calls that behave this way.
  mtk
    Note a few more architectures on which signal numbers are valid.
    SEE ALSO: added a number of pages.
  mtk
    Update async-signal-safe function list for POSIX.1-2004 (which
    adds sockatmark()).

========== Changes in man-pages-3.04 ==========

Released: 2008-07-15, Konolfingen

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

Web site
---

licenses.html
  mtk
    A page describing the preferred licenses for new pages that
    are contributed to man-pages.

New and rewritten pages
---

utimensat.2
  mtk
    New page documenting the utimensat() system call, new in 2.6.22,
    and futimens() library function.

end.3
  mtk

Documents etext, edata, and end symbols.

Newly documented interfaces in existing pages
---

memchr.3
  mtk
    Add description of rawmemchr().

proc.5
  mtk
    Document /proc/config.gz (new in kernel 2.6).
  mtk, based on text from Documentation/vm/sysctl.txt
    Document /proc/sys/vm/oom_kill_allocating_task
     (new in Linux 2.6.24).
    Document /proc/sys/vm/oom_dump_tasks
    (new in Linux 2.6.25).
    Document /proc/sys/vm/panic_on_oom
    (new in Linux 2.6.18).

New links
---

edata.3
etext.3
  mtk
    Links to end.3.

futimens.3
  mtk
    Link to new utimensat.2.

getdate_err.3
  mtk
    Link to getdate.3.

h_errno.3
  mtk
    Link to gethostbyname.3.

optarg.3
opterr.3
optind.3
optopt.3
  mtk
    Links to getopt.3.

rawmemchr.3
  mtk
    Link to memchr.3.

sys_errlist.3
sys_nerr.3
  mtk
    Links to perror.3.

Global changes

Various pages
  mtk
    s/parameter/argument/ when talking about the things given
    to a function call, for consistency with majority usage.

Various pages
  mtk
    s/UNIX/Unix/, when not used as part of a trademark,
    for consistency with majority usage in pages.

Various pages
  mtk, after a note from Alain Portal
    Put SEE ALSO entries
 into alphabetical order.

Various pages
  mtk
    Remove period at end of SEE ALSO list.

Various pages
  mtk, after a note by Alain Portal
    Even when the CONFORMING TO section is just a list of standards,
    they should be terminated by a period.

getpriority.2
MB_LEN_MAX.3
MB_CUR_MAX.3
fwide.3
mblen.3
rtime.3
st.4
proc.5
bootparam.7
man-pages.7

utf-8.7
tcp.5
  mtk / Alain Portal
    Small wording fixes -- express <=, <, >=, > in words when in
    running text.

sched_setparam.2
sched_setscheduler.2
getgrent_r.3
hash.3
  mtk
    Minor rewording w.r.t. use of the term "parameter".

Typographical or grammatical errors have been corrected in several
other places. (Many, many thanks to Alain Portal!)

Changes to individual pages
----

capget.2
  Andrew Morgan
    Update in line with addition of file capabilities and
    64-bit capability sets in kernel 2.6.2[45].

clock_nanosleep.2
  mtk
    Add "Link with -lrt"
 to SYNOPSIS.

getrusage.2
  Sripathi Kodi
    Document RUSAGE_THREAD, new in 2.6.26.
  mtk
    Improve description of RUSAGE_CHILDREN.
    Add pointer to /proc/PID/stat in proc(5).
    Other minor clean-ups.

ioprio_set.2
  Nikanth Karthikesan
    Since Linux 2.6.25, CAP_SYS_ADMIN is longer required to set
    a low priority (IOPRIO_CLASS_IDLE).

mount.2
  mtk
    Since Linux 2.6.26, MS_RDONLY honors bind mounts.

openat.2

mtk
SEE ALSO: add utimensat(3).

prctl.2
Serge Hallyn, with some edits/input from mtk
Document PR_CAPBSET_READ and PR_CAPBSET_DROP.
Erik Bosman
Document PR_GET_TSC and PR_SET_TSC.
mtk, reviewed by Andrea Arcangeli
Document PR_SET_SECCOMP and PR_GET_SECCOMP.
mtk
PR_SET_KEEPCAPS and PR_GET_KEEPCAPS operate on a per-thread
setting, not a per-process setting.
mtk
Clarify fork(2) details for PR_SET_PDEATHSIG.
mtk
Add description of PR_SET_SECUREBITS
and PR_GET_SECUREBITS,
as well as pointer to further info in capabilities(7).
mtk
PR_GET_ENDIAN returns endianness info in location pointed to by
arg2 (not as function result, as was implied by previous text).
mtk
Expand description of PR_SET_NAME and PR_GET_NAME.
mtk
RETURN VALUE: bring up to date for various options.
mtk
Various improvements in ERRORS.
mtk
Note that PR_SET_TIMING setting of PR_TIMING_TIMESTAMP is not
currently implemented.
mtk
Minor changes:
* Clarify wording for PR_GET_UNALIGN, PR_GET_FPEMU, and
PR_GET_FPEXC.
* Some reformatting of kernel version information.
* Reorder PR_GET_ENDIAN and PR_SET_ENDIAN entries.

readlinkat.2
John Brooks / mtk
Fix and reword erroneous RETURN VALUE text.

recv.2
mtk
Noted which flags appeared in Linux 2.2.

sched_setaffinity.2
mtk, after a Fedora downstream patch

Update type used for cpusetsize argument in SYNOPSIS.

select.2
  Andreas Mohr / mtk
    Clarify "zero timeout" case.
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=490868.

send.2
  mtk
    Noted which flags appeared in Linux 2.2.

sigaction.2
  mtk
    Document si_overrun and si_tid fields of siginfo structure.
    Add some text for si_trapno field.
    The si_errno field is *generally* unused.
  mtk
    Put descriptions of SA_* constants in alphabetical order.

signal.2
  mtk
    Rewrote and expanded portability discussion.
    NOTES: Show the raw prototype of signal() (without use of
    sighandler_t).

signalfd.2
  mtk
    Modify description of ssi_trapno field.

swapon.2
  mtk
    Fix two version number typos for MAX_SWAPFILES discussion:
    s/2.6.10/2.4.10/

utime.2
  mtk
     SEE ALSO: add utimensat(2), futimens(3).

dl_iterate_phdr.3
  Alain Portal
    SEE ALSO: Add elf(5).

crypt.3

  mtk, after a Fedora downstream patch
    Describe additional encryption algorithms.
    See also: https://bugzilla.redhat.com/show_bug.cgi?id=428280.

errno.3
  mtk
    Small rewrites in DESCRIPTION.

exec.3
  mtk, after a note from Alain Portal
    Small rewording.

exp10.3
  Alain Portal
    SEE ALSO: Add log10(3).

exp2.3
  Alain Portal
    Add C99 to CONFORMING TO.

fgetgrent.3
  Alain Portal
    Add references to group(5).
  mtk
    Minor rewordings.
    SEE ALSO: add fopen(3).

fgetpwent.3
  Alain Portal
    Add reference to passwd(5).
  mtk
    Minor rewordings.
    SEE ALSO: add fopen(3).

frexp.3
  Alain Portal
    Add C99 to CONFORMING TO.

futimes.3
  mtk
     SEE ALSO: remove futimesat(2); add utimensat(2).

getopt.3
  mtk
    Add details on initial value of optind, and note that it can
    be reset (to 1) to restart scanning of an argument vector.
    Add a NOTES section describing the
 glibc-specific behavior
    when optind is reset to 0 (rather than 1).
    See http://groups.google.com/group/comp.unix.programmer/browse_thread/thread/be0d0b7a07a165fb
  mtk

Note glibc extensions under CONFORMING TO.

getspnam.3
mtk
Improve comments on struct spwd.

getpw.3
Alain Portal
RETURN VALUE: note that errno is set on error.
mtk
Add EINVAL error.

insque.3
mtk / Alain Portal
Minor rewordings.

log.3
Alain Portal
Remove unnecessary sentence in ERRORS.

log10.3
mtk
SEE ALSO: Add exp10(3).

offsetof.3
Alain Portal
Small wording improvement.

pow.3
Alain Portal
Remove unnecessary sentence in ERRORS.

printf.3
mtk / Alain Portal
Many small formatting fixes.

proc.5
mtk
Remove redundant summary list of files in description of
/proc/sys/kernel.
Make kernel version for /proc/sys/kernel/panic_on_oops more precise.
Make kernel
version for /proc/sys/kernel/pid_max more precise.
Add Documentation/sysctl/vm.txt to SEE ALSO.
Other minor edits.

profil.3
mtk / Alain Portal

Small wording improvement.

rtime.3
  mtk, after a note by Alain Portal
    Clarify meaning of midnight on 1 Jan 1900/1970.
  mtk
    Remove netdate(1) and rdate(1) from SEE ALSO, since these pages
    don't seem to exist on Linux systems.

scanf.3
  Vincent Lefevre / mtk
    Clarify treatment of initial white space by %% conversion
    specification.
    as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=435648.
  mtk
    Many small formatting fixes.

stdin.3
  Alain Portal
    Rename CONSIDERATIONS section to NOTES, and relocate
    to appropriate place on page.

tmpfile.3
  mtk, after a note by Alain Portal
    Prepend "POSIX.1-2001 specifies that: " to the sentence stating
    that tmpfile() may write to stdout. (AFAICS, glibc's tmpfile()
    does
 not do this.)

ttyname.3
  Alain Portal
    Remove unnecessary sentence in ERRORS.

wcsdup.3
  Alain Portal
    Make wording more precise: the memory allocated by wcsdup(3)
    should be freed with free(3).

wordexp.3
  Alain Portal / mtk
    Move example into proper EXAMPLE section.

tty_ioctl.4
  mtk / Petr Gajdos
    The features in the "Get and Set Window Size" subsection
    require the inclusion of <sys/ioctl.h>.

capabilities.7

Serge Hallyn, plus a bit of work by mtk
Document file capabilities, per-process capability bounding set,
changed semantics for CAP_SETPCAP, and other changes in 2.6.2[45].
Add CAP_MAC_ADMIN, CAP_MAC_OVERRIDE, CAP_SETFCAP.
Various smaller fixes.
mtk, plus review by Serge Hallyn and Andrew Morgan
Add text detailing how CAP_SETPCAP (theoretically) permits -- on
pre-2.6.25 kernels, and 2.6.25 and later kernels with file
capabilities disabled -- a thread to change
the capability sets
of another thread.
Add section describing rules for programmatically adjusting
thread capability sets.
Add some words describing purpose of inheritable set.
Note existence of CONFIG_SECURITY_CAPABILITIES config option.
Describe rationale for capability bounding set.
Document securebits flags (new in 2.6.26).
Remove obsolete BUGS section.
SEE ALSO: Add getcap(8), setcap(8), and various libcap pages.
mtk
Add text noting that if we set the effective flag for one
file capability, then we must also set the effective flag for all
other capabilities where the permitted or inheritable bit is set.
mtk
Since Linux 2.6.25, CAP_SYS_ADMIN is no longer required for
ioprio_set() to set IOPRIO_CLASS_IDLE class.
mtk
Reword discussion of CAP_LINUX_IMMUTABLE to be file-system neutral.

man-pages.7
mtk
A list of standards in the CONFORMING TO
list should be
terminated by a period.
The list of pages in a SEE ALSO list should not be
terminated by a period.

tcp.7
mtk
Correct a detail for sysctl_tcp_adv_win_scale.
Formatting fixes.

========== Changes in man-pages-3.05 ==========

Released: 2008-07-23, Konolfingen

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

matherr.3
  mtk, with review by Andries Brouwer
    A description of the SVID-specified mechanism for reporting
    math exceptions.
     See http://thread.gmane.org/gmane.linux.man/266.

math_error.7
  mtk, with review and suggested input from Andries Brouwer
    A description of how math functions report errors.
    See http://thread.gmane.org/gmane.linux.man/249.

Global changes

Various pages
  mtk
    s/floating point/floating-point/ when used attributively.

Various pages
  mtk
    For consistency with majority usage:
    s/plus infinity/positive infinity/
    s/minus infinity/negative infinity/

Typographical or grammatical errors have been corrected in several
other places.

Changes to individual pages
---

brk.2
  mtk
    SEE ALSO: add end(3).

open.2
  Brian M. Carlson / mtk
    Remove ambiguity in description of support for O_EXCL on NFS.
    As per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=491791.

prctl.2
  mtk
    Place options in some semblance of alphabetical order.
    (No content or formatting
 changes were made.)

cerf.3
  mtk
    Bump version number: these functions are still missing in
    glibc 2.8.

fenv.3
  mtk
    SEE ALSO: Add math_error(7).

INFINITY.3
  mtk
    SEE ALSO: Add math_error(7).

nan.3
  mtk
    Remove unneeded "Compile with" piece in SYNOPSIS.
    SEE ALSO: Add math_error(7).

rpc.3
  mtk / Franck Jousseaume
    Fix errors introduced into a few prototypes when converting
    function declarations to use modern C prototypes in man-pages-2.75.

ipv6.7
  mtk, after a report from Uli Schlacter
    Document the IPV6_V6ONLY flag.

========== Changes in man-pages-3.06 ==========

Released: 2008-08-05, Konolfingen

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

erfc.3
  mtk
    Created after removing the erfc() material from erf.3.
    Documents the complementary error function.

y0.3
  mtk
    Created after removing the y*() material from j0.3.
    Documents the Bessel functions of the second kind.
    Included ERRORS section; noted that an exception is not
    raised on underflow, see also
    http://sources.redhat.com/bugzilla/show_bug.cgi?id=6806;
    and errno is not set on overflow, see also
    http://sources.redhat.com/bugzilla/show_bug.cgi?id=6808;
    Included BUGS section noting that errno is incorrectly
    set for pole error; see also
    http://sources.redhat.com/bugzilla/show_bug.cgi?id=6807.

scalbln.3
  mtk
    Created after removing the scalbln*() and scalbn*() material
    from scalb.3. Documents
 scalbln() and scalbn() functions.
    Included ERRORS section; noted that errno is not set; see

also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6803.

New and changed links
---

erfcf.3
erfcl.3
  mtk
    Changed these links to point to new erfc.3 page.

scalblnf.3
scalblnl.3
scalbn.3
scalbnf.3
scalbnl.3
  mtk
    Changed these links to point to new scalbln.3 page.

y0f.3
y0l.3
y1.3
y1f.3
y1l.3
yn.3
ynf.3
ynl.3
  mtk
    Changed these links to point to new y0.3 page.

Global changes

Various pages
  mtk
    s/floating point/floating-point/ when used attributively.

Typographical or grammatical errors have been corrected in several
other places.

Changes to individual pages
---

crypt.3
  mtk
    Tweak discuss text describing support for Blowfish.

ctime.3
  mtk / Gernot Tenchio
    Added some words to make clear that the string returned by
    ctime() and asctime()
 is null-terminated.

math_error.7
  Sam Varshavchik
    Reverse order of SYNOPSIS and NAME sections.
  mtk
    NOTES: Summarize the state of glibc support for exceptions
    and errno for error reporting.

Changes to individual pages (math functions)

Almost all of the changes in this release relate to math man pages.
Very many changes were made to the math pages, including:

* Fixed feature test macros (FTMs). Often, the FTM requirements
 for the "float" and "long double" versions of a math function are
 different from the requirements for the "double" version. Each math
 page now shows the correct FTM requirements for all three versions
 of the function(s) it describes. This may have required either
 a change to the existing FTM text (if the requirements for the
 "double" function were already described), or the addition of an FTM
 description to a SYNOPSIS where one was not previously present
 (typically because
 the "double" version of the function does not
 require any FTMs to be defined).
* CONFORMING TO: in many cases, POSIX.1-2001 was not mentioned.
 Where a function is specified in POSIX.1-2001, this is now noted.
 Also, statements about what other standards a function conforms to
 were generally clarified. (The wording about which functions conformed
 to C99 was previously often done as an add on sentence; now it is made
 part of the first sentence of the CONFORMING TO section, along with
 POSIX.1-2001.)
* RETURN VALUE: in many cases, pages lacked descriptions of the return
 value when the function arguments are special values such as +0, -0,
 NaN (not-a-number), +infinity, -infinity, etc. This has been fixed.
 I carried out tests on glibc 2.8 to ensure that all of these
 functions match the RETURN VALUE descriptions (and the POSIX.1-2001
 requirements).
* ERRORS: many pages lacked a clear (or indeed any) description of
 how errno is set on error and what exception

is raised for each error.
This has been fixed. The ERRORS sections are now generally headed up
as per the POSIX.1 way of doing things, describing Pole / Range /
Domain errors, as applicable.
I carried out tests on glibc 2.8 to ensure that all of these
functions match the ERRORS descriptions. Deviations from POSIX.1-2001
requirements have been filed as glibc bug reports, and noted in the
man pages. (The pages now describe the situation for ERRORS as at glibc
2.8; I may eventually try and extend the text with descriptions of
changes in older versions of glibc.)
NOTE: one point that has not been covered in any page is the
circumstances that generate inexact (FE_INEXACT) exceptions.
(The details for these exceptions are not specified in POSIX.1-2001,
and I haven't gone looking for the standards that describe the details.)

acos.3
  mtk
    SYNOPSIS: Added feature test macro requirements.
    RETURN VALUE: Added details for special argument cases.

   Rewrote ERRORS section.
    Updated CONFORMING TO.

acosh.3
  mtk
    SYNOPSIS: Fixed feature test macro requirements.
    Added RETURN VALUE section.
    Rewrote ERRORS section.
    Updated CONFORMING TO.

asin.3
  mtk
    SYNOPSIS: Added feature test macro requirements.
    RETURN VALUE: Added details for special argument cases.
    Rewrote ERRORS section.
    Updated CONFORMING TO.

asinh.3
  mtk
    SYNOPSIS: Added feature test macro requirements.
    DESCRIPTION: Some rewording.
    RETURN VALUE: Added details for special argument cases.
    Added (null) ERRORS section.
    Updated CONFORMING TO.

atan.3
  mtk
    SYNOPSIS: Added feature test macro requirements.

DESCRIPTION: Some rewording.
RETURN VALUE: Added details for special argument cases.
Added (null) ERRORS section.
Updated CONFORMING TO.

atan2.3
mtk
SYNOPSIS: Added feature test macro requirements.
DESCRIPTION:
Some rewording.
RETURN VALUE: Added details for special argument cases.
Added (null) ERRORS section.
Updated CONFORMING TO.

atanh.3
mtk
SYNOPSIS: Fixed feature test macro requirements.
Added RETURN VALUE section.
Rewrote ERRORS section.
Updated CONFORMING TO.
Added BUGS section noting that pole error sets errno to EDOM,
when it should be ERANGE instead; see also
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6759.

cbrt.3
mtk
SYNOPSIS: Fixed feature test macro requirements.
Added RETURN VALUE section.
Added (null) ERRORS section.
Updated CONFORMING TO.

ceil.3
mtk
SYNOPSIS: Added feature test macro requirements.
DESCRIPTION: Enhanced.
RETURN VALUE: Added details for special argument cases.
Rewrote ERRORS section.
Updated CONFORMING TO.
NOTES: Added some details.

copysign.3
mtk
Added RETURN
VALUE section.
Updated CONFORMING TO.

cos.3
mtk

SYNOPSIS: Added feature test macro requirements.
Rewrote RETURN VALUE section.
Added ERRORS section; noted errno is not set:
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6780.
Updated CONFORMING TO.

cosh.3
mtk
SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Added ERRORS section.
Updated CONFORMING TO.

erf.3
mtk
Removed the erfc() material (there is now a new erfc page).
Reason: the functions are logically separate; also their
return values differ, and it would have been confusing
to document them on the same page.
SYNOPSIS: Fixed feature test macro requirements.
Added RETURN VALUE section.
Added ERRORS section; noted that errno is not set; see
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6785.
Updated CONFORMING TO.

exp.3
mtk
SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Added ERRORS section; noted that errno is not set; see
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6786.
Updated CONFORMING TO.

exp10.3
mtk
SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Added ERRORS section; noted that errno is not set for underflow;
see http://sources.redhat.com/bugzilla/show_bug.cgi?id=6787.

exp2.3
mtk
Added RETURN VALUE and ERRORS sections.
Updated CONFORMING TO.

expm1.3
mtk
SYNOPSIS: Fixed feature test macro requirements.

Added RETURN VALUE section.
Added ERRORS section; noted that errno is not set for overflow;
see http://sources.redhat.com/bugzilla/show_bug.cgi?id=6788.
Updated CONFORMING TO.
Added BUGS section, describing bogus underflow exception for -large,
see http://sources.redhat.com/bugzilla/show_bug.cgi?id=6778;
and describing bogus invalid exception for certain +large,
see http://sources.redhat.com/bugzilla/show_bug.cgi?id=6814.

fabs.3
mtk
SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Updated CONFORMING TO.

fdim.3
mtk
SYNOPSIS: Added feature test macro requirements.
DESCRIPTION: Some rewording.
Added RETURN VALUE section.
Added ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6796.
Updated CONFORMING TO.

fenv.3
mtk
Make style of writing exception names consistent with other
pages and POSIX.1-2001.
Updated CONFORMING TO.

finite.3
mtk
SYNOPSIS: Fixed feature test macro requirements.

floor.3
mtk
SYNOPSIS: Added feature test macro requirements.
DESCRIPTION: Enhanced.
RETURN VALUE: Added details for special argument cases.
Rewrote ERRORS section.
Updated CONFORMING TO.

fma.3
mtk
SYNOPSIS: Added feature test macro requirements.
DESCRIPTION: Some rewording.
Added RETURN VALUE section.
Added ERRORS section; noted that errno is not set; see

also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6801.
Updated CONFORMING TO.

fmax.3
fmin.3
mtk
NAME: Make description clearer
SYNOPSIS: Added feature test macro requirements.
SYNOPSIS: Remove unneeded "Compile with" piece.
CONFORMING TO: Added POSIX.1-2001.
Added RETURN VALUE and ERRORS sections.

fmod.3
mtk
SYNOPSIS: Added feature test macro requirements.
RETURN VALUE: Added details for special argument cases.
Rewrote ERRORS section; noted that errno is not always set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6783.
Updated CONFORMING TO.

fpclassify.3
mtk
Minor wording changes.
CONFORMING TO: Added POSIX.1-2001.
SEE ALSO: Add signbit(3).

frexp.3
mtk
SYNOPSIS: Added feature test macro requirements.
Added details to RETURN VALUE section.
Added (null) ERRORS section.
CONFORMING TO: Added POSIX.1-2001.

gamma.3
mtk
SYNOPSIS: Fixed feature test macro requirements.
Added (null) RETURN VALUE section referring to tgamma(3).
Added (null) ERRORS section referring to tgamma(3).
CONFORMING TO: Rewrote.

hypot.3
mtk
SYNOPSIS: Fixed feature test macro requirements.
DESCRIPTION: note that calculation is done without causing
undue overflow or underflow.
Added RETURN VALUE section.
Added ERRORS section; noted that errno is not always set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6795.

Updated CONFORMING TO.

ilogb.3
mtk
SYNOPSIS: Added feature test macro requirements.
Rewrote RETURN VALUE
section.
Rewrote ERRORS section; noted that errno is not set, and in some
cases an exception is not raised; see also
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6794.
CONFORMING TO: Added POSIX.1-2001.

isgreater.3
mtk
NAME: Make description clearer
Improve the description of isunordered().
Added RETURN VALUE and ERRORS sections.
Formatting fixes.
A few wording improvements.

j0.3
mtk
Removed material for the y*() functions to a separate y0.3 page.
Reason: the return values and errors/exceptions differ, and it
would have been confusing to document them on the same page.
Added RETURN VALUE section.
Added ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6805.

ldexp.3
mtk
SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE and ERRORS sections.
Updated CONFORMING
TO.

lgamma.3
mtk
Note that these functions are deprecated.
SYNOPSIS: Fixed feature test macro requirements.
Added RETURN VALUE and ERRORS sections referring to lgamma(3).
Added BUGS section noting that pole error sets errno to EDOM,
when it should be ERANGE instead; see also
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6777.

log.3
mtk
SYNOPSIS: Added feature test macro requirements.

Added RETURN VALUE section.
Rewrote ERRORS section.
Updated CONFORMING TO.

log10.3
mtk
SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Rewrote ERRORS section.
Updated CONFORMING TO.

log1p.3
mtk
SYNOPSIS: Fixed feature test macro requirements.
Added RETURN VALUE section.
Added ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6792.
Updated CONFORMING
TO.

log2.3
mtk
Added RETURN VALUE section.
Rewrote ERRORS section.
Updated CONFORMING TO.

logb.3
mtk
SYNOPSIS: Fixed feature test macro requirements.
DESCRIPTION: added a little detail; some rewordings.
RETURN VALUE: Added details for special argument cases.
Rewrote ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6793.
CONFORMING TO: Added POSIX.1-2001.

lrint.3
mtk
DESCRIPTION: some rewording.
RETURN VALUE: Added details for special argument cases.
Added ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6798.
CONFORMING TO: Added POSIX.1-2001.

lround.3
mtk
RETURN VALUE: Added details for special argument cases.
Rewrote ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6797.

CONFORMING TO: Added POSIX.1-2001.

modf.3
mtk
SYNOPSIS: Added feature test macro requirements.
RETURN VALUE: Added details for special argument cases.
Added (null) ERRORS section.
CONFORMING TO: Added POSIX.1-2001.

nan.3
mtk
Small wording changes.
CONFORMING TO: Added POSIX.1-2001.

nextafter.3
mtk
SYNOPSIS: Fixed feature test macro requirements.
RETURN VALUE: Added details for special argument cases.
Added ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6799.
CONFORMING TO: Added POSIX.1-2001.

pow.3
mtk
SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Rewrote ERRORS section.
Updated CONFORMING TO.
Added BUGS section noting that pole error sets errno to EDOM,
when it should be ERANGE instead; see also
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6776.

remainder.3
mtk
SYNOPSIS: Fixed feature test macro requirements.
DESCRIPTION: added some details.
RETURN VALUE: Added details for special argument cases.
Rewrote ERRORS section; noted that errno is not always set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6783.
Updated CONFORMING TO.
Added BUGS section noting that remainder(nan(""), 0)
wrongly causes a domain error; see
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6779

remquo.3
mtk
Added RETURN VALUE section.
Added ERRORS section; noted that errno is not set; see

also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6801.
Updated CONFORMING TO.

fmax.3
fmin.3
mtk
NAME: Make description clearer
SYNOPSIS: Added feature test macro requirements.
SYNOPSIS: Remove unneeded "Compile with" piece.
CONFORMING TO: Added POSIX.1-2001.

Added RETURN VALUE and ERRORS sections.

fmod.3
mtk
SYNOPSIS: Added feature test macro requirements.
RETURN VALUE: Added details for special argument cases.
Rewrote ERRORS section; noted that errno is not always set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6783.
Updated CONFORMING TO.

fpclassify.3
CONFORMING TO: Added POSIX.1-2001.

rint.3
mtk
SYNOPSIS: Fixed feature test macro requirements.
DESCRIPTION: added some details.
RETURN VALUE: Added details for special argument cases.
ERRORS: no errors can occur (previous text was misleading).
CONFORMING TO: Added POSIX.1-2001.
NOTES: point out that lrint() may be preferred in some cases.

round.3
mtk
DESCRIPTION: added some details.
RETURN VALUE: Added details for special argument cases.
ERRORS: no errors can occur (previous text was misleading).
CONFORMING TO: Added POSIX.1-2001.
NOTES: point out that lround() may be preferred in some cases.

scalb.3
mtk
Removed the scalbn() and scalbln() material to a separate
scalbln.3 page. Reason: scalb() is obsolete; also the
exception/error conditions differ somewhat, so that it
would have been confusing to document them on the same page.
SYNOPSIS: Fixed feature test macro requirements.

DESCRIPTION: some rewrites and added details.
Added RETURN VALUE section.
Added ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6803
and http://sources.redhat.com/bugzilla/show_bug.cgi?id=6804.
CONFORMING TO: Rewrote.

signbit.3
mtk
SYNOPSIS: Added feature test macro requirements.
SYNOPSIS: Remove unneeded "Compile with" piece.
Added RETURN VALUE section.
Added (null) ERRORS section.
CONFORMING TO: Added POSIX.1-2001.

sin.3
mtk

SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Added ERRORS section; noted errno is not set:
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6781.
Updated CONFORMING TO.

sincos.3
mtk
DESCRIPTION: Added details for special argument cases.
Added (null) RETURN VALUE section.
Added ERRORS section.

sinh.3
mtk
SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Added ERRORS section.
Updated CONFORMING TO.

sqrt.3
mtk
SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Rewrote ERRORS section.
Updated CONFORMING TO.

tan.3
mtk
SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.

Added ERRORS section.
Added ERRORS section; noted errno is not set:
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6782.

Updated CONFORMING TO.

tanh.3
mtk
SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Added (null) ERRORS section.
Updated CONFORMING TO.

tgamma.3
mtk
Added RETURN VALUE section.
Rewrote ERRORS section; noted that errno is not set /
incorrectly set in some cases; see also
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6809
and http://sources.redhat.com/bugzilla/show_bug.cgi?id=6810.
CONFORMING TO: Added POSIX.1-2001.
Added NOTES section to hold text explaining origin of tgamma().

trunc.3
mtk
RETURN VALUE: small rewording.
CONFORMING TO: Added POSIX.1-2001.
Added NOTES section explaining that result may be too large
to store in an integer type.

========== Changes in man-pages-3.07 ==========

Released: 2008-08-12, Konolfingen

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Apologies if I missed anyone!

New and rewritten pages
---

move_pages.2
  Christoph Lameter, various edits and improvements by mtk
    Documentation of the move_pages() system call.
    This page was formerly
 part of the numactl package, but really
    belongs in man-pages (since it describes a kernel interface).

clock_getcpuclockid.3
  mtk
    New page documenting the clock_getcpuclockid() library function,
    available since glibc 2.2.

udplite.7
  Gerrit Renker
    Document the Linux implementation of the UDP-Lite protocol,
    new in Linux 2.6.20.

Newly documented interfaces in existing pages
---

proc.5
  Christoph Lameter, minor edits and improvements by mtk
    Documentation of the /proc/PID/numa_maps file.
    This material was formerly the numa_maps.5 page in the numactl
    package, but really belongs in man-pages (since it describes
    a kernel interface).

Global changes
---

nanosleep.2
inet_ntop.3
inet_pton.3
scanf.3
initrd.4
  mtk
    Fix mis-ordered (.SH) sections.

connect.2
socket.2
rtnetlink.3
arp.7
ddp.7
ip.7
ipv6.7
netlink.7
packet.7
raw.7
rtnetlink.7
socket.7
tcp.7
udp.7
unix.7
x25.7
  mtk
    s/PF_/AF_/ for socket family constants. Reasons: the AF_ and
    PF_ constants have always had the same values; there never has
    been a protocol family that had more than one address family,
    and POSIX.1-2001 only specifies the AF_* constants.

Typographical or grammatical errors have been corrected in several
other places.

Changes to individual pages
---

execve.2
  mtk
    The floating-point environment is reset to the default
    during an execve().

get_mempolicy.2
  Lee Schermerhorn

Misc cleanup of get_mempolicy(2):
+ mention that any mode flags will be saved with mode.
I don't bother to document mode flags here because we
already have a pointer to set_mempolicy(2) for more info
on memory policy. mode flags are discussed there.
+ remove some old, obsolete [IMO] NOTES and 'roff comments.
Lee Schermerhorn
Update the
get_mempolicy(2) man page to add in the description of
the MPOL_F_MEMS_ALLOWED flag, added in 2.6.23.
mtk
Document additional EINVAL error that occurs is MPOL_F_MEMS_ALLOWED
is specified with either MPOL_F_ADDR or MPOL_F_NODE.

getitimer.2
mtk
CONFORMING TO: POSIX.1-2008 marks getitimer() and setitimer()
obsolete.

mbind.2
Lee Schermerhorn
Fix error conditions, now that the kernel silently ignores
nodes outside the task's cpuset, as long as one valid node
remains.

Now that cpuset man page exists, we can refer to it. Remove
stale comment regarding lack thereof.
Lee Schermerhorn
Add brief discussion of mode flags.
Lee Schermerhorn
Attempt to clarify discussion of MPOL_DEFAULT.
mtk
Fix URI reference for libnuma.

mprotect.2
mtk / Maxin John
Remove EFAULT from errors. Under ENOMEM error, note that
EFAULT was the error produced in some cases
for kernels before
2.4.19.

msgctl.2
mtk, after a note from Filippo Santovito
In the ipc_perm structure definition, some fields were
incorrectly named: s/key/__key/ and s/seq/__seq/.

set_mempolicy.2
Lee Schermerhorn

Fix up the error return for nodemask containing nodes disallowed by
the process' current cpuset. Disallowed nodes are now silently ignored,
as long as the nodemask contains at least one node that is on-line,
allowed by the process' cpuset and has memory.

Now that we have a cpuset man page, we can refer to cpusets directly
in the man page text.

Lee Schermerhorn
Another attempt to rationalize description of MPOL_DEFAULT.

Since ~2.6.25, the system default memory policy is "local allocation".
MPOL_DEFAULT itself is a request to remove any non-default policy and
"fall back" to the surrounding context. Try to say that without delving
into implementation
details.

Lee Schermerhorn
Add discussion of mempolicy mode flags to set_mempolicy(2).
This adds another reason for EINVAL.

setpgid.2
mtk
CONFORMING TO: POSIX.1-2008 marks setpgrp() obsolete.

semctl.2
mtk, after a note from Filippo Santovito
In the ipc_perm structure definition, some fields were
incorrectly named: s/key/__key/ and s/seq/__seq/.

shmctl.2
Filippo Santovito / mtk
In the ipc_perm structure definition, some fields were
incorrectly named: s/key/__key/ and s/seq/__seq/.

utime.2
mtk
CONFORMING TO: POSIX.1-2008 marks utime() obsolete.
CONFORMING TO: POSIX.1-2008 removes the POSIX.1-2001 LEGACY
marking of utimes(), so mention of this point has been
removed from the page.

vfork.2
mtk
CONFORMING TO: POSIX.1-2008 removes the specification of vfork().

atan2.3
Fabian Kreutz

SEE ALSO Add carg(3).

bcmp.3
mtk
CONFORMING TO: POSIX.1-2008
removes the specification of bcmp().

bsd_signal.3
mtk
CONFORMING TO: POSIX.1-2008 removes the specification ofcw
bsd_signal().

bzero.3
mtk
CONFORMING TO: POSIX.1-2008 removes the specification of bzero().

cexp2.3
mtk
AVAILABILITY: These functions are still not in glibc
as at version 2.8.

clock_getres.3
mtk
SEE ALSO: Add clock_getcpuclockid(3).

clog2.3
mtk
AVAILABILITY: These functions are still not in glibc
as at version 2.8.

ctime.3
mtk
POSIX.1-2008 marks asctime(), asctime_r(), ctime(), and ctime_r()
as obsolete.

dprintf.3
mtk
CONFORMING TO: These functions are nowadays in POSIX.1-2008.

ecvt.3
mtk
CONFORMING TO: POSIX.1-2008 removes the specifications of
ecvt() and fcvt().

ftime.3
mtk
CONFORMING TO: POSIX.1-2008 removes the specification of ftime().

ftw.3
  mtk
    CONFORMING TO: POSIX.1-2008 marks ftw() as obsolete.

gcvt.3
   mtk
    CONFORMING TO: POSIX.1-2008 removes the specification of gcvt().

getcwd.3
  Reuben Thomas / mtk
    Clarify description of getcwd() for buf==NULL case;
    CONFORMING TO: According to POSIX.1, the behavior of getcwd()
    is unspecified for the buf==NULL case.
  mtk
    Add an introductory paragraph giving an overview of what these
    functions do.
    Fix error in description of getwd(): it does not truncate the
    pathname; rather, it gives an error if the pathname exceeds
    PATH_MAX bytes.
    Rewrote RETURN VALUE section.
    Add EINVAL ENAMETOOLONG errors for getwd().
    Various other clarifications and wording fixes.
    CONFORMING TO: POSIX.1-2001 does not define any errors for
    getwd().
    CONFORMING TO: POSIX.1-2008 removes the specification of getwd().

gethostbyname.3
  mtk
    CONFORMING TO: POSIX.1-2008 removes the specifications of
    gethostbyname(), gethostbyaddr(), and
 h_errno.

gets.3
  mtk
    CONFORMING TO: POSIX.1-2008 removes the specification of gets().

iconv.3
iconv_close.3
iconv_open.3
  mtk
    VERSIONS: These functions are available in glibc since version 2.1.

index.3
  mtk
    CONFORMING TO: POSIX.1-2008 removes the specifications of
    index() and rindex().

isalpha.3

mtk
CONFORMING TO: POSIX.1-2008 marks isalpha() as obsolete.

makecontext.3
mtk
CONFORMING TO: POSIX.1-2008 removes the specifications of
makecontext() and swapcontext().

memchr.3
mtk
VERSIONS: memrchr() since glibc 2.2; rawmemchr() since glibc 2.1.

mempcpy.3
mtk
VERSIONS: mempcpy() since glibc 2.1.

mktemp.3
mtk
CONFORMING TO: POSIX.1-2008 removes the specification of mktemp().

opendir.3
mtk
CONFORMING TO: POSIX.1-2008 specifies fdopendir().

rand.3
mtk
CONFORMING TO: POSIX.1-2008 marks rand_r() as obsolete.

siginterrupt.3
mtk
CONFORMING TO: POSIX.1-2008
marks siginterrupt() as obsolete.

sigset.3
mtk
CONFORMING TO: POSIX.1-2008 marks sighold(), sigignore(),
sigpause(), sigrelse(), and sigset() as obsolete.

strchr.3
mtk
VERSIONS: strchrnul() since glibc 2.1.1.

tempnam.3
mtk
CONFORMING TO: POSIX.1-2008 marks tempnam() as obsolete.

tmpnam.3
mtk

CONFORMING TO: POSIX.1-2008 marks tmpnam() as obsolete.

toascii.3
  mtk
    CONFORMING TO: POSIX.1-2008 marks toascii() as obsolete.

ualarm.3
  mtk
    CONFORMING TO: POSIX.1-2008 removes the specification of ualarm().

ulimit.3
  mtk
    CONFORMING TO: POSIX.1-2008 marks ulimit() as obsolete.

usleep.3
  mtk
    CONFORMING TO: POSIX.1-2008 removes the specification of usleep().

standards.7
  mtk
    Updated details for POSIX.1-2008, and noted that if
    POSIX.1-2001 is listed in the CONFORMING TO section of a man
    page, then the reader can assume that the interface is also
    specified
 in POSIX.1-2008, unless otherwise noted.

time.7
  mtk
     SEE ALSO: Add clock_getcpuclockid(3).

udp.7
  mtk
    SEE ALSO: add udplite(7).

Changes to individual pages (math functions)

Various changes here following on from the big update to the
math pages in the previous release. Test results going back
glibc 2.3.2 (so far) allowed updates to various pages to note
changes in historical behavior for error reporting by math
functions. Thanks to the following people for providing me
with test results on various distributions and glibc versions:
Alain Portal, Andries Brouwer, Fabian Kreutz, Heikki Orsila,
Khalil GHORBAL, Pavel Heimlich, Reuben Thomas, Samuel Thibault,
Soh Kam Yung, and Stephane Chazelas

cabs.3
cacos.3
cacosh.3
carg.3
casin.3
casinh.3
catan.3
catanh.3
ccos.3
ccosh.3
cexp.3
cimag.3
clog.3
clog10.3
conj.3
cpow.3
cproj.3
creal.3
csin.3
csinh.3
csqrt.3
ctan.3
ctanh.3
exp10.3
exp2.3
fdim.3
fenv.3
fma.3
fmax.3
fmin.3
log2.3
lrint.3
lround.3
nan.3
pow10.3
remquo.3
round.3
scalbln.3
sincos.3
tgamma.3
trunc.3
mtk
Added VERSIONS section noting that these functions first
appeared in glibc in version 2.1.

cosh.3
mtk
BUGS: In glibc 2.3.4 and earlier, an FE_OVERFLOW exception is not

raised when an overflow occurs.

fenv.3
  mtk / Fabian Kreuz
    Provide more detail in the description of rounding modes.
    Add text describing FLT_ROUNDS (formerly in fma.3).
    Add BUGS section pointing out the FLT_ROUNDS does not reflect
    changes by fesetround().

fma.3
  mtk
    Remove text about FLT_ROUNDS, replacing with a cross-reference
    to fenv(3).

fpclassify.3
  mtk
    CONFORMING TO: Note that the standards provide a weaker guarantee
    for the return value of isinf().

log.3
  mtk
    BUGS: In glibc 2.5 and earlier, log(nan("")) produces a bogus
    FE_INVALID exception.

lround.3
  mtk
    Add reference
 to fenv(3) for discussion of current rounding mode.

nextafter.3
  mtk
    BUGS: In glibc 2.5 and earlier these functions do not raise an
    FE_UNDERFLOW exception on underflow.

pow.3
  mtk
    BUGS: described buggy NaN return when x is negative and y is large.
    See also: http://sources.redhat.com/bugzilla/show_bug.cgi?id=3866.
    BUGS: Note the bogus FE_INVALID exception that occurred in glibc
    2.3.2 and earlier on overflow and underflow.

remainder.3
  mtk
    Add reference to fenv(3) for discussion of current rounding mode.

round.3
  mtk
    Add reference to fenv(3) for discussion of current rounding mode.

scalb.3
  mtk
    CONFORMING TO: POSIX.1-2008 removes the specification of scalb().

tgamma.3
  mtk
    BUGS: In glibc 2.3.3, tgamma(+-0) produced a domain error
    instead of a pole error.

y0.3
  mtk
    In glibc 2.3.2 and earlier, these functions do not raise an
    FE_INVALID exception for a domain
 error.

math_error.7
  mtk
    Rewrite introductory paragraph.
    Point out that a NaN is commonly returned by functions that report
    a domain error.

========== Changes in man-pages-3.08 ==========

Released: 2008-08-27, Zurich

Contributors

The following people contributed notes, ideas, or patches that have
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Vijay Kumar <vijaykumar@bravegnu.org>

Apologies if I missed anyone!

New and rewritten pages
---

getnetent_r.3

mtk
Documents getnetent_r(), getnetbyname_r(),
and getnetbyaddr_r(), the reentrant equivalents of
getnetent(), getnetbyname(), and getnetbyaddr().

getprotoent_r.3
mtk
Documents getprotoent_r(), getprotobyname_r(), and
getprotobynumber_r(),
the reentrant equivalents of
getprotoent(), getprotobyname(), and getprotobynumber().

getrpcent_r.3
mtk
Documents getrpcent_r(), getrpcbyname_r(), and
getrpcbynumber_r(), the reentrant equivalents of
getrpcent(), getrpcbyname(), and getrpcbynumber().

getservent_r.3
mtk
Documents getservent_r(), getservbyname_r(), and
getservbyport_r(), the reentrant equivalents of
getservent(), getservbyname(), and getservbyport().

numa.7
mtk
A new page giving overview details for the Linux NUMA interfaces.
Incorporates some material from mbind.2, and the description
of /proc/PID/numa_maps from proc.5.

Newly documented interfaces in existing pages
---

crypt.3
mtk
Add description of crypt_r().

New and changed links
---

crypt.3
mtk
New link to crypt.3.

getnetbyname_r.3
getnetbyaddr_r.3

mtk

New links to new getnetent_r.3.

getprotobyname_r.3
getprotobynumber_r.3
mtk
New links to new getprotoent_r.3.

getrpcbyname_r.3
getrpcbynumber_r.3
mtk
New links to new getrpcent_r.3.

getservbyname_r.3
getservbyport_r.3
mtk
New links to new getservent_r.3.

numa_maps.5
mtk
Link to new numa(7) page, which incorporates the
/proc/PID/numa_maps description.
As part of the numactl() package, the /proc/PID/numa_maps
documentation was in a numa_maps.5 page; this link
ensures that "man 5 numa_maps" still works.
(Eventually, we may want to remove this link.)

Global changes
---

get_mempolicy.2
mbind.2
move_pages.2
set_mempolicy.2
mtk
Add reference to numa(7) for information on library support.
Added a VERSIONS section.
SEE ALSO: Add numa(7).

faccessat.2
fchmodat.2
fchownat.2
fstatat.2
mkdirat.2
mknodat.2
linkat.2

openat.2
readlinkat.2
renameat.2
symlinkat.2
unlinkat.2
mkfifoat.3
psignal.3
strsignal.3
   mtk
      These interfaces are specified in POSIX.1-2008.

Changes to individual pages
----

eventfd.2
  Vijay Kumar
     When an eventfd overflows, select() indicates the file as both
     readable and writable (not as having an exceptional condition).

fcntl.2
  mtk
     F_DUPFD_CLOEXEC is specified in POSIX.1-2008.

getrlimit.2
  mtk
     NOTES: Add text mentioning the shell 'ulimit' (or 'limit')
     built-in command for setting resource limits.

gettimeofday.2
  mtk
     CONFORMING TO: POSIX.1-2008 marks gettimeofday() as obsolete.

link.2
  mtk
     Note kernel version where Linux stopped following symbolic
     links in 'oldpath'; see also http://lwn.net/Articles/294667.
     POSIX.1-2008 makes it implementation-dependent whether or not
     'oldpath' is dereferenced if it is a symbolic link.
     Add a reference to linkat(2) for an interface that allows
     precise
 control of the treatment of symbolic links.

mbind.2
  mtk
     Remove material on library support and numactl; that material
     is now in numactl.7.

mmap.2
  mtk
    Add kernel version numbers for MAP_32BIT.
    Add some details on MAP_32BIT (see http://lwn.net/Articles/294642).

move_pages.2
  mtk
    Added VERSIONS (from kernel 2.6.18) and CONFORMING TO sections.

open.2
  mtk
    O_CLOEXEC is specified in POSIX.1-2008.

socket.2
  mtk
    s/d/domain/ for name of argument.
    Add reference to socket(2) for further information on
    domain, type, and protocol arguments.

utimensat.2
  mtk
    CONFORMING TO: POSIX.1-2008 specifies utimensat() and futimens().

dirfd.3
  mtk
    CONFORMING TO: Add POSIX.1-2008; other minor changes.

exec.3
  mtk
    Small rewording: "s/returned/failed with/ [an error]".

fmemopen.3
  mtk
    Since glibc 2.7, it is possible to seek past the end of
    a stream created by open_memstream().
  Add a BUGS section
    describing the bug in earlier glibc versions.

gethostbyname.3
  mtk
    Clarify exactly which functions are obsoleted by getnameinfo()
    and getaddrinfo().

getnetent.3
  mtk
    Rephrase description in terms of a database, rather than a file.
    Note that each of the get*() functions opens a connection to
    the database if necessary.

The database connection is held open between get*() calls if
'stayopen' is non-zero (not necessarily 1).
s/zero terminated list/NULL-terminated list/
mtk
In glibc 2.2, the type of the 'net' argument for getnetbyaddr()
changed from 'long' to 'uint32_t'.
mtk
Note that the gethostbyaddr() 'net' argument is in host byte order.
mtk
RETURN VALUE: emphasize that returned pointer points to a
statically allocated structure.
SEE ALSO: add getnetent_r.3.

getprotoent.3
mtk
Rephrase description in terms
of a database, rather than a file.
Note that each of the get*() functions opens a connection to
the database if necessary.
The database connection is held open between get*() calls if
'stayopen' is non-zero (not necessarily 1).
s/zero terminated list/NULL-terminated list/
mtk
RETURN VALUE: emphasize that returned pointer points to a
statically allocated structure.
SEE ALSO: add getprotoent_r.3.

getrpcent.3
mtk
s/rpc/RPC/.
Rephrase description in terms of a database, rather than a file.
Note that each of the get*() functions opens a connection to
the database if necessary.
s/zero terminated list/NULL-terminated list/
mtk
RETURN VALUE: emphasize that returned pointer points to a
statically allocated structure.
SEE ALSO: add getrpcent_r.3.

getservent.3
mtk
Rephrase description in terms of a database, rather than a file.
Note that
each of the get*() functions opens a connection to
the database if necessary.
The database connection is held open between get*() calls if
'stayopen' is non-zero (not necessarily 1).
s/zero terminated list/NULL-terminated list/

mtk
RETURN VALUE: emphasize that returned pointer points to a
statically allocated structure.
SEE ALSO: add getservent_r.3.

mkdtemp.3
mtk
CONFORMING TO: this function is specified in POSIX.1-2008.

mq_notify.3
Venkatesh Srinivas
s/sigev_notify_function/sigev_thread_function/
as per http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=494956.

realpath.3
mtk
Relocate text for resolved_path==NULL case to DESCRIPTION.
POSIX.1-2001 leaves the resolved_path==NULL case as
implementation-defined; POSIX.1-2008 specifies the behavior
described in this man page.

sem_init.3
mtk
POSIX.1-2008 rectifies the POSIX.1-2001 omission, specifying
that zero is returned by a successful sem_init() call.

core.5
Mike Bianchi / mtk
Make the page more helpful to non-programmers by referencing
the documentation of the shell's 'ulimit' command in the
discussion of RLIMIT_CORE and RLIMIT_FSIZE.
SEE ALSO: Add bash(1).
mtk
Note that a core dump file can be used in a debugger.

proc.5
mtk
Remove /proc/PID/numa_maps material (it is now in numa(7)).

cpuset.7
mtk
SEE ALSO: Add numa(7).

inotify.7
mtk / Li Zefan
Explain bug that occurred in coalescing identical events in
kernels before 2.6.25.
(See commit 1c17d18e3775485bf1e0ce79575eb637a94494a2

"A potential bug in inotify_user.c" in the 2.6.25 Changelog.)

pthreads.7
  mtk
    Update thread-safe functions list with changes in POSIX.1-2008.
    SEE ALSO: add proc(5).

signal.7
  mtk
    Update list of async-signal-safe functions for POSIX.1-2008.

==========
Changes in man-pages-3.09 ==========

Released: 2008-09-10, Munich

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

fopencookie.3
  mtk
      Document fopencookie(3), a library function that allows
      custom implementation of a stdio stream.

networks.5
  Martin (Joey) Schulze, with a few light edits by mtk
      Documents the /etc/networks file.

Global changes

Various pages
  mtk
      s/time zone/timezone/ for consistency across pages and
      with POSIX.1.

kill.2
sigaction.2
sigpending.2
sigprocmask.2
sigsuspend.2
confstr.3
ctermid.3
ctime.3
ferror.3
flockfile.3
fopen.3
getaddrinfo.3
getgrnam.3
getnameinfo.3
getopt.3
getpwnam.3
longjmp.3
popen.3
rand.3
readdir.3
setjmp.3
sigsetops.3
sigwait.3
strtok.3
tzset.3
unlocked_stdio.3
  mtk
      Add/fix feature test macro requirements.

Changes to individual pages
---

fcntl.2
  mtk, after a note by Mike Bianchi
      More clearly and consistently describe whether
      or not the third argument to fcntl() is required,
      and what its type should be.
  mtk
      Move description of negative l_len
  from NOTES, integrating
      it into the discussion of file locking.
      Minor rewrites of the text on file locking.

getrusage.2
  Bernd Eckenfels
      SEE ALSO: Add clock(3), clock_gettime(3).
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=353475

ioctl_list.2
  mtk
      Remove old sentence about where to send updates for this page.
      Add more detail on mount options that prevent updates to atime.

sched_setscheduler.2
  Carsten Emde
      Update kernel version numbers relating to real-time support.

stat.2
  H. Peter Anvin
      Note that lstat() will generally not trigger automounter
      action, whereas stat() will.

clock.3
  Bernd Eckenfels
      SEE ALSO: Add clock_gettime(3).
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=353475

clock_getres.3
  Tolga Dalman / mtk
      Add "Link with -lrt" to SYNOPSIS; remove now redundant
      sentence mentioning librt from NOTES.

getdate.3
  mtk
      Rewrite

description of getdate_r() and integrate into main text
(rather than describing in NOTES).
Other parts rewritten for greater clarity.
Make it clearer in the main text that glibc does not implement %Z;
remove discussion of that point from NOTES.
Added an example program.

hsearch.3
mtk
Noted that table size as specified by 'nel' is immutable.
Described differences between hsearch() and hsearch_r().
Added missing pieces to RETURN VALUE.
Added a number of new entries under ERRORS.
NOTES: added some basic advice on sizing the hash table;
noted that when a table is destroyed, the caller is responsible
for freeing the buffers pointed to by 'key' and 'data' fields.
One of the BUGS was fixed in glibc 2.3.
Rewrote and clarified various other pieces.
Rename arguments for reentrant functions, using same name as
glibc headers: s/ret/retval/; s/tab/htab/.
mtk, after
a suggestion by Timothy S. Nelson
Integrate discussion of reentrant functions into main discussion
(rather than as a short paragraph at the end).

iconv.3
Bruno Haible
Describe "shift sequence" input.

ptsname.3
sukadev
Fix return type of ptsname_r() in SYNOPSIS.

readdir.3
H. Peter Anvin
s/stat(2)/lstat(2)/ when discussing d_type (since we
are talking about a case where we might be interested to
whether the file itself is a symbolic link).

sigsetops.3
Chris Head, signed-off-by: Mike Frysinger
Fix typo: s/sigdelset/sigorset/

proc.5
Mats Wichmann / mtk
s/\[number]/[pid]/ in file names for /proc/PID files.
And similar changes for task/[tid] sub-directories.
mtk / Mats Wichmann

In the description if /proc/[pid]/environ, remove reference to
lilo(8)/grub(8) since there seems to be nothing in those pages
that related to this /proc file.
Michael Schurter / mtk
Remove sentence wrongly saying that /proc/meminfo reports
info in bytes;
see http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=462969
mtk
Note that /proc/meminfo reports system-wide memory usage
statistics.
Joe Korty
Document new fields in /proc/interrupts that were added in
Linux 2.6.24.

unix.7
Marko Kreen
Since glibc 2.8, _GNU_SOURCE must be defined in order to get
the definition of the ucred structure from <sys/socket.h>.

========== Changes in man-pages-3.10 ==========

Released: 2008-09-23, Munich

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Apologies if I missed anyone!

Global changes
---

closedir.3
dirfd.3
readdir.3
rewinddir.3
scandir.3

seekdir.3
telldir.3
    mtk
      Fix 'dir' argument name: should be 'dirp'.
      POSIX.1-2008 and glibc call this argument 'dirp' (consistent
      with the fact that it is a *pointer* to a DIR structure).

Changes to individual pages
----

clone.2
  mtk, after a comment by John Reiser
      Clarify text describing getpid() caching bug for clone() wrapper.
      See also:
      http://sourceware.org/bugzilla/show_bug.cgi?id=6910
      https://bugzilla.redhat.com/show_bug.cgi?id=417521

getpid.2
  mtk, after a comment by John Reiser
      Describe getpid()'s PID caching and its consequences.

timerfd_create.2
  Sam Varshavchik
      s/it_interval/it_value/ when talking about TIMERFD_ABSTIME.

closedir.3
  George Spelvin
      Clarify closedir()'s treatment of underlying file descriptor.

tsearch.3
  André Goddard Rosa
      Fix memory leak in example program.

     Add use of tdestroy to example program.
  mtk
      Add "#define _GNU_SOURCE" to example program.

protocols.5
  mtk, after a note from Pavel Heimlich
      Remove SEE ALSO references to nonexistent Guides to Yellow Pages

services.5
  mtk
      Remove some out-of-date bugs.
  mtk, after a note from Pavel Heimlich
      Remove SEE ALSO references to nonexistent Guides to Yellow Pages
      and Bind/Hesiod docs.

mtk
Remove crufty text about use of comma instead of slash to separate port and protocol.

========== Changes in man-pages-3.11 ==========

Released: 2008-10-07, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

umount.2
Michael Kerrisk
Create a new page for umount() and umount2() by extracting existing material from mount.2 page.

New and changed links
---

umount2.2
Michael Kerrisk
Change link to point to new umount.2

The umount2() material migrated from mount.2 to umount.2

Changes to individual pages
---

execve.2
  Michael Kerrisk
    _SC_ARG_MAX is no longer necessarily constant
      POSIX.1-2001 says that the values returned by sysconf()
      are constant for the life of the process.
      But the fact that, since Linux
 2.6.23, ARG_MAX is settable
      via RLIMIT_STACK means _SC_ARG_MAX is no longer constant,
      since it can change at each execve().
  Michael Kerrisk
    Linux now imposes a floor on the ARG_MAX limit
      Starting with Linux 2.6.23, the ARG_MAX limit became
      settable via (1/4 of) RLIMIT_STACK. This broke ABI
      compatibility if RLIMIT_STACK was set such that ARG_MAX
      was < 32 pages. Document the fact that since 2.6.25
      Linux imposes a floor on ARG_MAX, so that the old limit
      of 32 pages is guaranteed.

      For some background on the changes to ARG_MAX in
      kernels 2.6.23 and 2.6.25, see:
        http://sourceware.org/bugzilla/show_bug.cgi?id=5786
        http://bugzilla.kernel.org/show_bug.cgi?id=10095
        http://thread.gmane.org/gmane.linux.kernel/646709/focus=648101,
        checked into 2.6.25 as
        commit a64e715fc74b1a7dcc5944f848acc38b2c4d4ee2.

       Also some reordering/rewording of the discussion of ARG_MAX.

fallocate.2
  Michael Kerrisk
    Note lack of glibc wrapper; caller must use syscall(2)
      Glibc doesn't (and quite probably won't) include a
      wrapper for this system call. Therefore, point out that
      potential callers will need to use syscall(2), and rewrite
      the RETURN VALUE text to show things as they would be if
      syscall() is used.

  Michael Kerrisk
    Refer reader to posix_fallocate(3) for portable interface
      Add a para to start of page that points out that this is the
      low-level, Linux-specific API, and point the reader to
      posix_fallocate(3) for the portable API.

getdents.2
readdir.3
  Michael Kerrisk
    d_type is currently only supported on ext[234]
      As at kernel 2.6.27, only ext[234] support d_type.
      On other file systems, d_type is always set to DT_UNKNOWN
 (0).

getdents.2
  Michael Kerrisk
    Add an example program
  Michael Kerrisk
    comment out linux_dirent fields with varying location
      The location of the fields after d_name varies according to
      the size of d_name. We can't properly declare them in C;
      therefore, put those fields inside a comment.
  Michael Kerrisk
    The DT_* constants are defined in <dirent.h>
  Michael Kerrisk
    Remove header files from SYNOPSIS
      None of the header files provides what is needed.
      Calls are made via syscall(2).
  Michael Kerrisk
    The programmer must define the linux_dirent structure
      Point out that this structure is not defined in glibc headers.
  Michael Kerrisk
    s/dirent/linux_dirent/
      The structure isn't currently defined in glibc headers,
      and the kernel name of the structure is 'linux_dirent' (as
      was already used in some, but not all, places in
 this page).

getrlimit.2
  Michael Kerrisk
    Reword/relocate discussion of BSD's historical RLIMIT_OFILE
      The old sentence sat on its own in an odd place, and anyway the
      modern BSDs use the name RLIMIT_NOFILE.
  Michael Kerrisk
    Refer to execve(2) for RLIMIT_STACK's effect on ARG_MAX
      Refer the reader to new text in execve(2) that describes how
      (since Linux 2.6.23) RLIMIT_STACK determines the value of ARG_MAX.

getrusage.2
  Michael Kerrisk
    Rusage measures are preserved across execve(2)

mlock.2

Maxin John
Add EAGAIN error.

move_pages.2
Nicolas François
Make a detail of EPERM error more precise

mount.2
Michael Kerrisk
Add description of per-process namespaces
Describe per-process namespaces, including discussion
of clone() and unshare CLONE_NEWNS, and /proc/PID/mounts.
Michael Kerrisk
List a few other file systems that we may see in /proc/filesystems
Add some modern file systems to that list (xfs, jfs, ext3,
reiserfs).
Michael Kerrisk
Document MS_SILENT (and MS_VERBOSE)

mount.2
umount.2
Michael Kerrisk
Split umount*() out into a separate page
The length of this page means that it's becoming difficult
to parse which info is specific to mount() versus
umount()/umount2(), so split the umount material out into
its own page.

pause.2
Michael Kerrisk
Remove mention of words "library function"
This really is a system call.

readdir.2
Michael Kerrisk
The programmer must declare the old_linux_dirent structure
Glibc does not provide a definition of this structure.
Michael Kerrisk
s/dirent/old_linux_dirent/
Nowadays, this is the name of the structure in the
kernel sources.
Michael Kerrisk
Remove words "which may change"
These words
are slightly bogus: although the interface
is obsolete, for ABI-compatibility reasons, the kernel folk
should never be changing this interface.
Michael Kerrisk

Remove header files from SYNOPSIS
glibc doesn't provide any support for readdir(2),
so remove these header files (which otherwise suggest
that glibc does provide the required pieces).

recv.2
Nicolas François
Move kernel version number to first mention to MSG_ERRQUEUE.

semop.2
Kirill A. Shutemov
Fix typo in example
(The '&' before sop in the semop() call is unneeded.)

send.2
Michael Kerrisk
Make kernel version for MSG_CONFIRM more precise
s/2.3+ only/Since Linux 2.3.15/

sigaction.2
Michael Kerrisk
Refer reader to signal(7) for an overview of signals
Explain semantics of signal disposition during fork() and execve()
Refer to signal(7) for more details on signal mask.

sigaltstack.2
Michael Kerrisk
Explain inheritance of alternate signal stack across fork(2)

sigwaitinfo.2
Michael Kerrisk
Distinguish per-thread and process-wide signals
A sentence clarifying that pending signal set is union of
per-thread and process-wide pending signal sets.

Michael Kerrisk
These interfaces have per-thread semantics
The page was previously fuzzy about whether these interfaces
have process-wide or per-thread semantics. (E.g., now the
page states that the calling *thread* (not process) is suspended
until the signal is delivered.)

sigpending.2
Michael Kerrisk
Explain effect of fork() and execve() for pending signal set
Michael Kerrisk
Explain how thread's pending signal set is defined
The pending set is the union of per-thread pending signals

and process-wide pending signals.

sigprocmask.2
Michael Kerrisk

Explain effects of fork() and execve() for signal mask

splice.2
Michael Kerrisk
Note that SPLICE_F_MOVE is a no-op since kernel 2.6.21

syscall.2
Michael Kerrisk
Add more detail about wrapper functions
Add a few more details about work generally done by wrapper functions. Note that syscall(2) performs the same steps.

tkill.2
Michael Kerrisk
EINVAL error can also occur for invalid TGID
The EINVAL error on an invalid TGID for tgkill() was not documented; this change documents it.

utimensat.2
Michael Kerrisk
POSIX.1-2008 revision will likely affect FTMs for futimens()
Make it clear that the POSIX.1 revision that is likely to affect the feature test macro requirements for futimens() is POSIX.1-2008.
Nicolas François
Make various wordings a little more precise.
The times argument point to *an array of* structures, and the

man-page should say that consistently.

wait4.2
Michael Kerrisk
wait3() is a library function layered on wait4().
On Linux wait3() is a library function implemented on top of wait4(). (Knowing this is useful when using strace(2), for example.)

atan2.3
Nicolas François
Fix error in description of range or return value
In recent changes to the man page, mtk accidentally changed the description of the return value range to -pi/2..pi/2; the correct range is -pi..pi.

cmsg.3
  Nicolas François
    Add parentheses after macro names.

ctime.3
  Michael Kerrisk
    Clarify mktime()'s use of tm_isdst
      Describe use of tm_isdst for input to mktime();
      explain how mktime() modifies this field.
      (This field is left unchanged in case of error.)

      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=500178
  Michael Kerrisk
    Clarify wording
 for ctime_r() and asctime_r() to indicate that
    the buffer must be at least 26 *bytes*.
  Michael Kerrisk
    Minor rewording of mktime() description.

floor.3
  Nicolas François
    floor.3: Fix error in description: s/smallest/largest/

hsearch.3
  André Goddard Rosa
    Call hdestroy() after using hash table created by hcreate(),
    for the sake of completeness

mq_getattr.3
  Michael Kerrisk
    mq_getattr() and mq_setattr() are layered on mq_getsetattr(2)
      mq_getattr() and mq_setattr() are library functions layered on
      top of the mq_getsetattr(2) system call.
      (This is useful info for users of strace(1).)

mq_receive.3
  Michael Kerrisk
    mq_send() is a library function layered on mq_timedreceive() syscall
       This info is useful for users of strace(1).

mq_send.3
  Michael Kerrisk
    mq_send() is a library function layered on mq_timedsend() syscall
       This info is useful for
 users of strace(1).

nextafter.3

Nicolas François
Make description more precise: s/next/largest/

readdir.3
Michael Kerrisk
SEE ALSO: add getdents(2)
Because readdir() is implemented on top of getdents(2).

realpath.3
Michael Kerrisk
Clarify that returned pathname is NULL terminated
Also clarify that null-byte is included in PATH_MAX limit.

proc.5
Michael Kerrisk
Rewrite and simplify description of /proc/mounts
Most of the relevant discussion is now under /proc/PID/mounts;
all that needs to be here is a mention of the pre-2.4.19
system-wide namespace situation, and a reference to the
discussion under /proc/PID/mounts.
Michael Kerrisk
Add description of /proc/PID/mounts
Largely cribbed from existing /proc/mounts discussion, which is
about to be rewritten.

mq_overview.7
Michael Kerrisk
Add mq_notify() to list of lib. functions
and syscalls in MQ API

signal.7
Michael Kerrisk
Improve description in NAME section
Add mention of sigaltstack(2).
Describe syscalls that synchronously wait for a signal,
Give overview of syscalls that block until a signal is caught
Add overview of interfaces for sending signals.

Michael Kerrisk
Describe semantics w.r.t. fork() and execve()
Include text describing semantics of fork() and execve() for
signal dispositions, signal mask, and pending signal set.

========== Changes in man-pages-3.12 ==========

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Stefan Puiu <stefan.puiu@gmail.com>

Apologies if I missed anyone!

New and rewritten pages
---

pthread_attr_init.3
  Michael Kerrisk
    New page for pthread_attr_init(3) and pthread_attr_destroy(3)

pthread_attr_setdetachstate.3
  Michael Kerrisk
    New page for pthread_attr_setdetachstate(3) and
    pthread_attr_getdetachstate(3)

pthread_attr_setguardsize.3
  Michael Kerrisk
    New page for pthread_attr_setguardsize(3) and
    pthread_attr_getguardsize(3)

pthread_attr_setscope.3
  Michael Kerrisk
    New page for pthread_attr_setscope(3) and pthread_attr_getscope(3)

pthread_attr_setstack.3
  Michael Kerrisk
    New page for pthread_attr_setstack(3) and pthread_attr_getstack(3)

pthread_attr_setstackaddr.3
  Michael Kerrisk
    New page for pthread_attr_setstackaddr(3)
 and
    pthread_attr_getstackaddr(3)

pthread_attr_setstacksize.3
  Michael Kerrisk
    New page for pthread_attr_setstacksize(3) and
    pthread_attr_getstacksize(3)

pthread_create.3
  Michael Kerrisk
    New page describing pthread_create(3)

pthread_detach.3
  Michael Kerrisk
    New page for pthread_detach(3)

pthread_equal.3
  Michael Kerrisk
    New page for pthread_equal(3)

pthread_exit.3
  Michael Kerrisk
    New page describing pthread_exit(3)

pthread_getattr_np.3
  Michael Kerrisk
    New page for pthread_getattr_np(3)

pthread_join.3
  Michael Kerrisk
    New page for pthread_join(3)

pthread_self.3
  Michael Kerrisk
    New page for pthread_self(3)

pthread_tryjoin_np.3
  Michael Kerrisk
    New page for pthread_tryjoin_np(3) and pthread_timedjoin_np(3)

Newly documented interfaces in existing pages
---

dup.2

Michael Kerrisk
Add description
of dup3()
dup3() was added in kernel 2.6.27.

epoll_create.2
Michael Kerrisk
Add description of new epoll_create1()
The new epoll_create1() system call appeared in Linux 2.6.27.

eventfd.2
Michael Kerrisk
Describe eventfd2() and EFD_NONBLOCK and EFD_CLOEXEC
Linux 2.6.27 added eventfd(), which supports a flags argument
that eventfd() did not provide. The flags so far implemented
are EFD_NONBLOCK and EFD_CLOEXEC,

inotify_init.2
Michael Kerrisk
Add description of inotify_init1()
The inotify_init1() system call was added in Linux 2.6.27.

pipe.2
Michael Kerrisk
Add description of new pipe2() syscall
pipe2() was added in 2.6.27. Describe the O_NONBLOCK and
O_CLOEXEC flags.

signalfd.2
Michael Kerrisk
Describe signalfd4() and SFD_NONBLOCK and SFD_CLOEXEC
Linux 2.6.27 added signalfd4(), which supports a flags argument
that signalfd() did not provide. The flags so far implemented
are SFD_NONBLOCK and SFD_CLOEXEC.

New and changed links
---

dup3.2
Michael Kerrisk
New link to dup.2
dup.2 now contains the description of the new dup3() syscall.

epoll_create1.2
Michael Kerrisk
New link to epoll_create.2
epoll_create.2 now includes a description of the new

epoll_create1() system call.

eventfd2.2
Michael Kerrisk
New link to eventfd.2
The eventfd.2 page has some details on the eventfd2() system call,
which was new in Linux 2.6.27.

inotify_init1.2
Michael Kerrisk
New link to inotify_init.2
inotify_init.2 now includes a description of the new
inotify_init1() system call.

pipe2.2
Michael Kerrisk
New link to pipe.2
pipe(2) now contains a description of the new pipe2() syscall.

pthread_attr_destroy.3
Michael
Kerrisk
New link to new pthread_attr_init.3

pthread_attr_getdetachstate.3
Michael Kerrisk
New link to new pthread_attr_setdetachstate.3

pthread_attr_getguardsize.3
Michael Kerrisk
New link to new pthread_attr_setguardsize.3

pthread_attr_getscope.3
Michael Kerrisk
New link to new pthread_attr_setscope.3

pthread_attr_getstack.3
Michael Kerrisk
New link to new pthread_attr_setstack.3

pthread_attr_getstackaddr.3
Michael Kerrisk
New link to new pthread_attr_setstackaddr.3

pthread_attr_getstacksize.3
Michael Kerrisk
New link to new pthread_attr_setstacksize.3

pthread_timedjoin_np.3
  Michael Kerrisk
    New link to new pthread_tryjoin_np.3

signalfd4.2
  Michael Kerrisk
    New link to signalfd.2
      signalfd.2 now includes text describing signalfd4() system call,
      new in Linux 2.6.27.

Global changes
---

eventfd.2, getdents.2, mprotect.2, signalfd.2, timerfd_create.2,
wait.2,
 backtrace.3, clock_getcpuclockid.3, end.3, fmemopen.3,
fopencookie.3, getdate.3, getgrouplist.3, getprotoent_r.3,
getservent_r.3, gnu_get_libc_version.3, inet.3, inet_pton.3,
makecontext.3, matherr.3, offsetof.3, pthread_attr_init.3,
pthread_create.3, pthread_getattr_np.3, sem_wait.3, strtol.3, core.5
  Michael Kerrisk
    Add ".SS Program source" to EXAMPLE
      Add ".SS Program source" to clearly distinguish shell session and
      descriptive text from actual program code.

eventfd.2, execve.2, getdents.2, ioprio_set.2, mprotect.2,
signalfd.2, timerfd_create.2, wait.2, backtrace.3,
clock_getcpuclockid.3, end.3, fmemopen.3, fopencookie.3, frexp.3,
getdate.3, getgrouplist.3, getprotoent_r.3, getservent_r.3,
gnu_get_libc_version.3, inet.3, inet_pton.3, makecontext.3,
malloc.3, matherr.3, offsetof.3, pthread_attr_init.3,
pthread_create.3, pthread_getattr_np.3, sem_wait.3, strftime.3,
strtok.3, strtol.3, core.5, proc.5, cpuset.7, mq_overview.7
  Michael
 Kerrisk
    Format user input in shell sessions in boldface

frexp.3, strftime.3, strtok.3
  Michael Kerrisk
    Relocate shell session above example program
      Move the shell session text that demonstrates the use of
      the example program so that it precedes the actual
      example program. This makes the page consistent with the
      majority of other pages.

Changes to individual pages

---

epoll_create.2
  Michael Kerrisk
    Say more about unused epoll_create() 'size' arg
      Supply a little more explanation about why the 'size' argument
      of epoll_create() is nowadays ignored.

eventfd.2
  Michael Kerrisk
    Remove crufty text relating to flags argument
      Remove sentence saying that glibc adds a flags argument
      to the syscall; that was only relevant for the older
      eventfd() system call.
getdents.2
  Christoph Hellwig
    Fix text relating
 to DT_UNKNOWN and 'd_type' support
      Some file systems provide partial support for 'dt_type',
      returning DT_UNKNOWN for cases they don't support.
      Update the discussion of 'd_type' and DT_UNKNOWN to
      support this.

getpeername.2, getsockname.2
  Michael Kerrisk
    SEE ALSO: add ip(7) and unix(7)

getsockopt.2
  Michael Kerrisk
    EINVAL can also occur if 'optval' is invalid
      In some cases, EINVAL can occur if 'optval' is invalid.
      Note this, and point reader to an example in ip(7).
      In response to:
      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=216092

inotify_init.2
pipe.2
timerfd_create.2
  Michael Kerrisk
    Clarify *_NONBLOCK description
      Make it clear that the NONBLOCK flag sets an attribute in the new
      open file description.

sched_yield.2
  Michael Kerrisk
    Rewrite description in terms of threads
      The text formerly described the

operation of sched_yield() in
terms of processes. It should be in terms of threads.
Michael Kerrisk
Add NOTES text on appropriate use of sched_yield()
Strategic calls to sched_yield() can be used to improve
performance, but unnecessary use should be avoided.

sigaction.2
Michael Kerrisk
Clarify that sa_mask affects the *per-thread* signal mask
The page didn't previously clearly explain the scope of the
signal mask that is affected by sa_mask.

signalfd.2
Michael Kerrisk
Remove crufty text relating to flags argument
Remove sentence saying that glibc adds a flags argument
to the syscall; that was only relevant for the older
signalfd() system call.

sigprocmask.2
Michael Kerrisk
Clarify that sigprocmask() operates on a per-thread mask
The first sentence of the page was vague on the scope of the
attribute changed by sigprocmask().
Reword to make this
clearer and add a sentence in NOTES to explicitly state that
the signal mask is a per-thread attribute.

socket.2
Michael Kerrisk
Document SOCK_NONBLOCK and SOCK_CLOEXEC flags
These flags, specified in the 'type' argument, are supported
since Linux 2.6.27.

socketpair.2
Michael Kerrisk
Refer to socket(2) for SOCK_CLOEXEC and SOCK_NONBLOCK
Refer the reader to socket(2) for a description of the SOCK_CLOEXEC
and SOCK_NONBLOCK flags, which are supported by socketpair() since
Linux 2.6.27.

syscalls.2
Michael Kerrisk
Add new 2.6.27 system calls
Add pipe2(), dup3(), epoll_create1(), inotify_init1(),
eventfd2(), signalfd4().

timerfd_create.2
  Michael Kerrisk
    Document timerfd_create() TFD_CLOEXEC and TFD_NONBLOCK
      TFD_CLOEXEC and TFD_NONBLOCK are supported since LInux 2.6.27.

vfork.2
  Michael Kerrisk
     Clarify meaning of "child releases the parent's memory"
      The man page was not explicit about how the memory used by
      the child is released back to the parent.

ctime.3
  Michael Kerrisk
    ctime_r() and localtime_r() need not set 'timezone' and 'daylight'
      The man page already noted that these functions need not set
      'tzname', but things could be clearer: it tzset() is not called,
      then the other two variables also are not set.

      Also, clarify that ctime() does set 'timezone' and 'daylight'.

dlopen.3
  Michael Kerrisk
    LD_LIBRARY_PATH is inspected once, at program start-up
      Make it clear that LD_LIBRARY_PATH is inspected *once*, at
      program start-up. (Verified from source and by experiment.)

fmemopen.3
  Michael Kerrisk
    Document binary mode (mode 'b')
      Glibc 2.9 adds support to fmemopen() for binary mode opens.
      Binary mode is specified
by inclusion of the letter 'b' in
      the 'mode' argument.

getaddrinfo.3
  Michael Kerrisk
    Clarify error descriptions with some examples
      Clarify the description of some errors by giving examples
      that produce the errors. (Text added for EAI_SERVICE and
      EAI_SOCKTYPE.)

      Also, add an error case for EAI_BADFLAGS.

gethostbyname.3
  Michael Kerrisk
    Rationalize text on POSIX.1-2001 obsolete interfaces
      POSIX.1 marks gethostbyname(), gethostbyaddr(), and 'h_errno'
      as obsolete. The man page explained this, but with some

duplication. Remove the duplication, and otherwise tidy up
discussion of this point.

popen.3
  Michael Kerrisk
    Change one-line description in NAME
      s%process I/O%pipe stream to or from a process%
  Michael Kerrisk
    Document 'e' (close-on-exec) flag
      glibc 2.9 implements the 'e' flag in 'type', which sets the

      close-on-exec flag on the underlying file descriptor.

raise.3
  Michael Kerrisk
    SEE ALSO: add pthread_kill(3)

readdir.3
  Christoph Hellwig
    Fix text relating to DT_UNKNOWN and 'd_type' support
      (This mirrors the previous change to getdents.2)
      Some file systems provide partial support for 'dt_type',
      returning DT_UNKNOWN for cases they don't support.
      Update the discussion of 'd_type' and DT_UNKNOWN to
      support this.

strcpy.3
  Jason Spiro
    Strengthen warning about checking against buffer overruns
      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=413940

tty_ioctl.4
  Michael Kerrisk
    Explain capability requirements for TIOCCONS
      Explain capability requirements for TIOCCONS, and describe
      changes in 2.6.10 relating to capabilities.
  Michael Kerrisk
    Explain capability requirements for various ioctls
      For TIOCSLCKTRMIOS, TIOCSCTTY,
 TIOCEXCL, explain the exact
      capability that is required (the text formerly just said "root"
      in each case).

proc.5
  Michael Kerrisk
    Document /proc/sys/kernel/threads-max
      Defines the system-wide limit on the number of threads (tasks).

utmp.5
  Pierre Cazenave
    It is just "other" who should not have write perms on utmp
      The page was vague before, saying that utmp should not be
      writable by any user. This isn't true: it can be, and
      typically is, writable by user and group.

epoll.7
  Michael Kerrisk
    Mention epoll_create1() as part of epoll API
      epoll_create1() was added in Linux 2.6.27, and extends the
      functionality of epoll_create().

inotify.7
  Michael Kerrisk
    Mention inotify_init1() in overview of API
      Discuss the new inotify_init1() system call in the overview of
      the inotify API.

ip.7
  Michael Kerrisk
    Detail EINVAL
 error for IP_ADD_MEMBERSHIP socket option
      In response to:
      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=216092

iso_8859-7.7
  Lefteris Dimitroulakis
    Add Drachma, Euro, and Greek Ypogegrammeni
      Also, amend description of characters 0241 and 0242.

man-pages.7
  Michael Kerrisk
    Example shell sessions should have user input boldfaced

pthreads.7
  Michael Kerrisk
    Describe return value from pthreads functions
      Describe the usual success (0) and failure (non-zero) returns,
      and note that POSIX.1-2001 specifies that pthreads functions
      can never fail with the error EINTR.

signal.7
  Michael Kerrisk
    Timeouts make socket interfaces non-restartable
      If setsockopt() is used to set a timeout on a socket(),
      then the various socket interfaces are not automatically
      restarted, even if SA_RESTART is specified when

establishing the signal handler.
Analogous behavior occurs
for the "stop signals" case.

socket.7
Michael Kerrisk
SEE ALSO: add unix(7)

ld.so.8
Michael Kerrisk
Document LD_USE_LOAD_BIAS
Drawing heavily on Jakub Jelinek's description in
http://sources.redhat.com/ml/libc-hacker/2003-11/msg00127.html
(Subject: [PATCH] Support LD_USE_LOAD_BIAS)
--inhibit-rpath is ignored for setuid/setgid ld.so
The --inhibit-rpath option is ignored if ld.so is setuid/setgid
(not if the executable is setuid/setgid).
Michael Kerrisk
Since glibc 2.4, setuid/setgid programs ignore LD_ORIGIN_PATH
Michael Kerrisk
Fix description of LD_PROFILE and LD_PROFILE_OUTPUT
Clarify that LD_PROFILE is pathname or a soname,
and identify name of profiling output file.
Fix description of LD_PROFILE_OUTPUT, which wasn't even close to
the truth. (But why did it remain unfixed for
so many years?)
Michael Kerrisk
Since glibc 2.3.4, setuid/setgid programs ignore LD_DYNAMIC_WEAK
Michael Kerrisk
Since version 2.3.5, setuid/setgid programs ignore LD_SHOW_AUXV
Michael Kerrisk
Reorder lists of LD_* environment variables alphabetically
Michael Kerrisk
Since glibc 2.3.4, setuid/setgid programs ignore LD_DEBUG

========== Changes in man-pages-3.13 ==========

Released: 2008-11-07, Bucaramanga

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

pthread_attr_setaffinity_np.3
  Michael Kerrisk
    New page for pthread_attr_setaffinity_np(3) and
    pthread_attr_getaffinity_np(3)

pthread_attr_setschedparam.3
  Michael Kerrisk
    New page for pthread_attr_setschedparam(3) and
    pthread_attr_getschedparam(3)

pthread_attr_setschedpolicy.3
  Michael Kerrisk
    New page for pthread_attr_setschedpolicy(3) and
    pthread_attr_getschedpolicy(3)

pthread_setaffinity_np.3
  Michael Kerrisk
    New page for pthread_setaffinity_np(3) and pthread_getaffinity_np(3)

pthread_setschedparam.3
  Michael Kerrisk
    New page for pthread_setschedparam(3) and pthread_getschedparam(3)

pthread_setschedprio.3
  Michael Kerrisk
    New page for pthread_setschedprio(3)

New and changed links
---

pthread_attr_getaffinity_np.3
  Michael Kerrisk
    New link to new pthread_attr_setaffinity_np.3

pthread_attr_getschedparam.3
  Michael Kerrisk
    New link to
 new pthread_attr_setschedparam.3

pthread_attr_getschedpolicy.3
  Michael Kerrisk
    New link to new pthread_attr_setschedpolicy.3

pthread_getaffinity_np.3
  Michael Kerrisk
    New link to new pthread_setaffinity_np.3

pthread_getschedparam.3
  Michael Kerrisk
    New link to new pthread_setschedparam.3

Global changes
---

pthread_attr_setaffinity_np.3
pthread_getattr_np.3
pthread_setaffinity_np.3
pthread_tryjoin_np.3
  Michael Kerrisk
    Explain _np suffix
      Add text to CONFORMING TO explaining that the "_np"
      suffix is because these functions are non-portable.

Changes to individual pages
---

sched_setaffinity.2
  Michael Kerrisk
    SEE ALSO: add sched_getcpu(3)

sched_setaffinity.2
  Michael Kerrisk
    SEE ALSO: Add pthread_setaffinity_np(3)

sched_setaffinity.2
  Michael Kerrisk
    Clarify EINVAL error for cpusetsize < kernel mask size
      For sched_setaffinity(), the

EINVAL error that occurs
        if 'cpusetsize' is smaller than the kernel CPU set size only
        occurs with kernels before 2.6.9.

vfork.2
  Michael Kerrisk
    Child holds parent's memory until execve() or *termination*
      The page was phrased in a few places to describe the child as
      holding the parent's memory until the child does an execve(2)
      or an _exit(2). The latter case should really be the more
      general process termination (i.e., either _exit(2) or abnormal
      termination).

clock_getres.3
  Michael Kerrisk
    CLOCK_PROCESS_CPUTIME_ID and CLOCK_THREAD_CPUTIME_ID not settable
      According to POSIX.1-2001, the CLOCK_PROCESS_CPUTIME_ID and
      CLOCK_THREAD_CPUTIME_ID clocks should be settable, but
      currently they are not.

pthread_attr_setstacksize.3
  Michael Kerrisk, after a report by Karsten Weiss
    EINVAL occurs on some systems if stacksize != page-size

    On MacOS X at least, pthread_attr_setstacksize(3) can fail
      with EINVAL if 'stacksize' is not a multiple of the system
      page size. Best to mention this so as to aid people writing
      portable programs.

pthread_create.3
  Karsten Weiss
    Fix bug in EXAMPLE program
      The calloc() line should read like this instead:

        tinfo = calloc(num_threads, sizeof(struct thread_info));

pthread_exit.3
  Michael Kerrisk
    BUGS: thread group with a dead leader and stop signals
      Document the bug that can occur when a stop signal
      is sent to a thread group whose leader has terminated.
      http://thread.gmane.org/gmane.linux.kernel/611611
      http://marc.info/?l=linux-kernel&m=122525468300823&w=2

resolver.3
  Michael Kerrisk
    Fix prototype of dn_expand()
      The 4th argument is "char *", not "unsigned char *".

http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504708

epoll.7
  Michael Kerrisk
    Fix error handling after accept() in example code
      Simply continuing after an error is in most cases wrong,
      and can lead to infinite loops (e.g., for EMFILE).
      So handle an error by terminating.
      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504202

epoll.7
  Michael Kerrisk
    Add error handling for epoll_wait() call in example code

epoll.7
  Michael Kerrisk
    Improve example code
      Fill in some gaps in example code (variable declarations,
      adding listening socket to epoll set).
      Give variables more meaningful names.
      Other minor changes.
      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504202

iso_8859-7.7
  Lefteris Dimitroulakis
    Add characters for Drachma and Greek Ypogegrammeni
      Lines for these two characters were added in the previous patch,
      but the actual characters were not included in
 the 4th column
      of the table. This fixes that.

pthreads.7
  Michael Kerrisk
    Add a section describing thread IDs
      In particular, note that in each pthreads function that takes
      a thread ID argument, that ID by definition refers to a thread
      in the same process as the caller.

========== Changes in man-pages-3.14 ==========

Released: 2008-11-25, Bucaramanga

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Apologies if I missed anyone!

New and rewritten pages

CPU_SET.3
  Michael Kerrisk
    New page documenting CPU_* macros
      This page contains material moved out of sched_setscheduler(2).
      It overwrites a previously existing link file with the same name.
  Michael Kerrisk
    Add description of macros for dynamically allocated CPU sets
      Add descriptions of CPU_ALLOC(), CPU_ALLOC_SIZE(), CPU_FREE(),
      CPU_SET_S(), CPU_CLR_S(), CPU_ISSET_S(), CPU_ZERO_S(),
      CPU_COUNT_S(), CPU_AND_S(), CPU_OR_S(), CPU_XOR_S(), and
      CPU_EQUAL_S().
  Michael Kerrisk
    Add documentation of CPU_COUNT()
  Michael Kerrisk
    Add description
of CPU_AND(), CPU_OR, CPU_XOR(), and CPU_EQUAL()
      Plus a few other small clean-ups of the text
  Michael Kerrisk
    Various improvements in DESCRIPTION
      After review comments by Bert Wesarg:

* Explain that cpu_set_t is a bitset, but should be considered
opaque.
* A CPU set can be duplicated with memset().
* Size of a CPU set is rounded up to size of long.
* CPU_SETSIZE is in bits, but the setsize argument is in bytes.
Michael Kerrisk
Document CPU_ALLOC()/CPU_ALLOC_SIZE() bug
These macros return twice what they should because of thinko
in glibc 2.8 and earlier. The bug is fixed for glibc 2.9.
http://sourceware.org/bugzilla/show_bug.cgi?id=7029
Michael Kerrisk
NOTES: Discuss use of types in "prototypes" for these macros
The SYNOPSIS shows types for arguments and return values, but
these are really just suggestions:
since the interfaces are
macros, the compiler won't catch all violations of
the "type rules". Warn the reader of this.

pthread_attr_setinheritsched.3
Michael Kerrisk
New page for pthread_attr_setinheritsched(3) and
pthread_attr_getinheritsched(3)

pthread_cancel.3
Michael Kerrisk
New page for pthread_cancel(3)

pthread_cleanup_push.3
Michael Kerrisk
New page for pthread_cleanup_push(3) and pthread_cleanup_pop(3)

pthread_setcancelstate.3
Michael Kerrisk
New page for pthread_setcancelstate(3) and pthread_setcanceltype(3)

pthread_testcancel.3
Michael Kerrisk
New page for pthread_testcancel(3)

Newly documented interfaces in existing pages
---

clone.2
Jens Axboe
Document CLONE_IO (new in Linux 2.6.25)
Some text also by mtk.
Michael Kerrisk

Document CLONE_NEWNET
Michael Kerrisk
Document CLONE_NEWUTS (new
in Linux 2.6.19)
Michael Kerrisk
Document CLONE_NEWIPC flag (new in Linux 2.6.19)
Michael Kerrisk
Document CLONE_NEWPID flag (new in Linux 2.6.24)

mmap.2
Michael Kerrisk
Document MAP_STACK flag (new in Linux 2.6.27)

arp.7
Michael Kerrisk
Document /proc file retrans_time_ms (new in Linux 2.6.12)
Michael Kerrisk
Document /proc file base_reachable_time_ms (new in Linux 2.6.12)

icmp.7
Michael Kerrisk
Document icmp_ignore_bogus_error_responses (new in Linux 2.2)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk
Document icmp_ratelimit and icmp_ratemask (new in Linux 2.4.10)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk
Document icmp_echo_ignore_broadcasts (new in Linux 2.6.12)
Text taken from Documentation/networking/ip-sysctl.txt

tcp.7
Michael Kerrisk
Document /proc file tcp_slow_start_after_idle (new
in Linux 2.6.18)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk
Document /proc file tcp_base_mss (new in Linux 2.6.17)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk
Document /proc file tcp_frto_response (new in Linux 2.6.22)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk
Document /proc file tcp_moderate_rcvbuf (new in Linux 2.4.17/2.6.7)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk
Document /proc file tcp_congestion_control (new in Linux 2.4.13)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk

Document /proc file tcp_no_metrics_save (new in Linux 2.6.6)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk
Document /proc file tcp_mtu_probing (new in Linux 2.6.17)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk
Document /proc file tcp_dma_copybreak (new in Linux 2.6.24)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk
Document /proc file tcp_tso_win_divisor (new in Linux 2.6.9)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk
Document /proc file tcp_allowed_congestion_control (new in Linux 2.4.20)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk
Document /proc file tcp_workaround_signed_windows (new in Linux 2.6.26)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk
Document /proc file tcp_available_congestion_control (new in Linux 2.4.20)
Text taken from Documentation/networking/ip-sysctl.txt
Michael Kerrisk
Document /proc file tcp_abc (new in Linux 2.6.15)
Text taken from Documentation/networking/ip-sysctl.txt

udp.7
Michael
Kerrisk
Document /proc files udp_mem, udp_rmem_min, and udp_wmem_min
All of these are new in Linux 2.6.25

New and changed links

CPU_ALLOC.3
CPU_ALLOC_SIZE.3
CPU_AND.3
CPU_AND_S.3
CPU_CLR_S.3
CPU_COUNT.3
CPU_COUNT_S.3
CPU_EQUAL.3
CPU_EQUAL_S.3
CPU_FREE.3
CPU_ISSET_S.3
CPU_OR.3
CPU_OR_S.3
CPU_SET_S.3

CPU_XOR.3
CPU_XOR_S.3
CPU_ZERO_S.3
  Michael Kerrisk
    New link to new CPU_SET.3

CPU_CLR.3
CPU_ISSET.3
CPU_ZERO.3
  Michael Kerrisk
    Update links to point to CPU_SET.3
      The documentation of the CPU_* macros migrated to a new
      location: CPU_SET.3.

pthread_attr_getinheritsched.3
  Michael Kerrisk
    New link to new pthread_attr_setinheritsched.3

pthread_cleanup_pop.3
  Michael Kerrisk
    New link to new pthread_cleanup_push.3

pthread_setcanceltype.3
  Michael Kerrisk
    New link to new pthread_setcancelstate.3

Global changes
---

clone.2
mount.2
unshare.2
proc.5
path_resolution.7
   Michael Kerrisk
    Global fix: s/namespace/mount-point namespace/, as appropriate
      In recent times, a number of other namespace flags have been
      added to clone(2). As such, it is no longer clear to use
      the generic term "namespace" to refer to the particular
      namespace controlled by CLONE_NEWNS; instead, use the
      term "mount-point namespace".
  Michael Kerrisk
    Global fix: s/mount-point namespace/mount namespace/
      This is more consistent with the term "mounts namespace"
      used in the 2008 ACM SIGOPS paper, "Virtual servers
      and checkpoint/restart in mainstream Linux".
      (I avoided the "s", because using the plural strikes me

as klunky English, and anyway we don't talk about
the "PIDs namespace" or the "networks namespace", etc..)

connect.2
listen.2
send.2
uname.2
cmsg.3
proc.5
arp.7
ddp.7
icmp.7
ip.7
raw.7
socket.7
tcp.7
udp.7
Michael
Kerrisk
Global fix: eliminate mention of the obsolete sysctl(2) interface
Many pages still mention use of the obsolete sysctl(2) system
call, or used the term "sysctls"; rewrite these mentions to
instead be in terms of /proc interfaces.

fcntl.2
signal.2
mbsnrtowcs.3
mbsrtowcs.3
mbtowc.3
wcrtomb.3
wcsnrtombs.3
wcsrtombs.3
wctomb.3
Michael Kerrisk
Global fix: s/multi-thread/multithread/

getdents.2
pthread_attr_init.3
pthread_create.3
pthread_getattr_np.3
pthread_setaffinity_np.3
pthread_setschedparam.3
pthread_tryjoin_np.3
Michael Kerrisk
Use consistent error-handling function names
Many older pages use a handle_error() macro to do simple
error handling from system and library function calls.
Switch these pages to do similar.

Changes to individual pages
---

time.1
  Michael Kerrisk
    Note that some shells have a 'time' built-in command

  Therefore, to access the functionality described on this page,
      it may be necessary to specify the full pathname.

clone.2
  Michael Kerrisk
    Place list of CLONE_* flags in alphabetical order
      (No content changes.)
fsync.2
  Michael Kerrisk
    Update feature test macro requirements for fsync()
      Since glibc 2.8, the fsync() declaration is also exposed if
      _POSIX_C_SOURCE >= 200112L

sched_setaffinity.2
  Michael Kerrisk
    Add note on system-imposed restrictions on CPUs actually used
      After Loïc Domaigne's suggestion for pthread_setaffinity_np(3), add
      similar text to this page noting that the system silently
      limits the set of CPUs on which the process actually runs to
      the set of CPUs physically present and the limits imposed by
      cpuset(7).

sched_setaffinity.2
  Michael Kerrisk
    Removed discussion of CPU_* macros()
      These macros are now moving
 to a separate page.
  Michael Kerrisk
    Refer reader to pthread_setaffinity_np(3)
      pthread_setaffinity_np() is preferable for setting
      thread CPU affinity if using the POSIX threads API.

sysctl.2
  Michael Kerrisk
    Add prominent warning against using this system call
      This was already stated under NOTES, but make it even more
      prominent by adding a sentence at the start of the DESCRIPTION.

uname.2

Michael Kerrisk
Add C comments describing fields in utsname structure

atan2.3
Stefano Teso
Fix description of range of function value return
The range is not [-pi/2, pi/2], but [-pi, pi].

(mtk: This error was reported by Nicolas François, and
should have been fixed in 3.11, but somewhere along the way,
the fix got lost.)

http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=506299

bindresvport.3
Michael Kerrisk
Since glibc 2.8, EPFNOSUPPORT
error is now EAFNOSUPPORT
Glibc switched to using a POSIX-specified error code for
this error case.

http://bugs.linuxbase.org/show_bug.cgi?id=2375

clock_getres.3
Michael Kerrisk
CLOCK_PROCESS_CPUTIME_ID and CLOCK_THREAD_CPUTIME_ID not settable
According to POSIX.1-2001, the CLOCK_PROCESS_CPUTIME_ID and
CLOCK_THREAD_CPUTIME_ID clocks should be settable, but
currently they are not.

getgrnam.3
Michael Kerrisk
Clarify and add more detail in RETURN VALUE description
The page was a bit fuzzy in describing the return values for
various cases. In particular, it needed to be more explicit
in describing what happens for the "not found" case.

This is an analogous change to the change for
getpwnam.3, made after Andreas Henriksson's report.
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504787
Michael Kerrisk

Rename arguments to getgrnam_r() and getgrgid_r()
s/gbuf/grp/ and s/gbufp/result/, for consistency
with POSIX.1 argument names.
Michael Kerrisk
Clarify RETURN VALUE description
The page was a bit fuzzy in describing the return values for

various cases. In particular, it needed to be more explicit
in describing what happens for the "not found" case.

http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504708

getpwnam.3
  Michael Kerrisk
    Rename arguments to getpwnam_r() and getpwuid_r()
      s/pwbuf/pwd/ and s/pwbufp/result/, for consistency
      with POSIX.1 argument names.
  Michael Kerrisk
    Clarify and add more detail in RETURN VALUE description
      The page was a bit fuzzy in describing the return values for
      various cases. In particular, it needed to be more explicit
      in describing what happens for the "not found" case.

      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504787
   Michael Kerrisk
    Add an EXAMPLE program for getpwnam_r()

inet_ntop.3
  Michael Kerrisk
    Rename 'cnt' argument to 'size'
      This is consistent with POSIX.1, and also a more sensible name.
  Michael Kerrisk
    Rework text describing 'size' argument
      (After a suggestion by Vegard Nossum.)
      Also made a few other small rewordings to in the initial
      paragraph.

makecontext.3
  Michael Kerrisk
    Add text on use of pointer arguments to makecontext()
      Passing pointer arguments to makecontext() is possible,
      but only on some architectures, and with no guarantees
      of portability.

      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504699

pthread_attr_setaffinity_np.3
  Michael Kerrisk
    Various fixes after review by Loïc Domaigne
      Reviewed-by: Loïc Domaigne

pthread_attr_setaffinity_np.3
pthread_setaffinity_np.3
   Michael Kerrisk
    Update to reflect new location of CPU_*() documentation

The CPU_*() macros are now documented in CPU_SET.3;
update to reflect that fact.
Michael Kerrisk
Remove redundant text relating to CPU sets
Information about CPU_SETSIZE can be found in CPU_SET.3, so
remove discussion of it here.

pthread_attr_setschedparam.3
pthread_setschedparam.3
Michael Kerrisk
Remove text saying that only sched_priority is required by POSIX.1
Loïc Domaigne points out that if a system implements
SCHED_SPORADIC (which Linux does not), then other
fields are also specified in sched_param. The simple
solution is just to remove that phrase from the man
page.

pthread_cancel.3
pthread_detach.3
pthread_join.3
pthread_setaffinity_np.3
Michael Kerrisk
Make text of ESRCH error consistent

pthread_setaffinity_np.3
Michael Kerrisk
Add
text to EINVAL error mentioning cpuset(7)
Michael Kerrisk
Various improvements after review by Loïc Domaigne
Various fix-ups after Loïc's review.

Reviewed-by: Loïc Domaigne

pthread_setschedparam.3
Michael Kerrisk
PTHREAD_INHERIT_SCHED is default for inherit scheduler attribute
In EXAMPLE, note that PTHREAD_INHERIT_SCHED is the default for
the inherit scheduler attribute.

syslog.3
Masanari Iida
LOG_KERN messages can't be generated from user processes
Masanari notes that this is an FAQ for logger(1) and that
Solaris and FreeBSD document this point in syslog(3).
The glibc info page also hides this comment in its source:

Internally, there is also LOG_KERN, but LOG_KERN == 0,

which means if you try to use it here, just selects default.

proc.5
  Ivana Varekova
    Fix reference to kernel source file
      Use relative reference
to Documentation/mtrr.txt.

arp.7
  Michael Kerrisk
    Add kernel version numbers for /proc interfaces

cpuset.7
  Michael Kerrisk
    SEE ALSO: add CPU_SET(3)

epoll.7
  Michael Kerrisk
    Note glibc version that added epoll support

icmp.7
  Michael Kerrisk
    Add kernel version numbers to /proc file descriptions

inotify.7
  Vegard Nossum
    Fix description of max_user_watches
      It seems that inotify(7) is wrong here:

      "/proc/sys/fs/inotify/max_user_watches
        This specifies a limit on the number of watches that can be
        associated with each inotify instance."

      On my system, the default value for this variable is 8192. But I
      cannot create more than 8192 watches in total for the same UID
      even when they are on different inotify instances. So I suggest
      to rephrase this as: "This specifies an upper limit on the
      number of watches that can be created
per real user ID."

ip.7
  Michael Kerrisk
    Reorder socket options alphabetically
  Michael Kerrisk
    Added kernel version numbers for IP_* socket options
  Michael Kerrisk
    Relocate kernel version information for IP_PMTUDISC_PROBE
  Michael Kerrisk

Add kernel version numbers for /proc/sys/net/ipv4/ip_* files
Michael Kerrisk
Remove mention of kernel header from description of IP_RECVERR
Looks like glibc has had this definition since about version 2.1.
Michael Kerrisk
Relocate kernel version information for ip_mreqn structure
Michael Kerrisk
Relocate info about Linux-specific sockopts to NOTES
Also add some source comments about non-standard Linux-specific
options that are not yet documented.

netlink.7
Vegard Nossum
Fix incorrect variable names in example code
s/snl/sa/ * 2

pthreads.7
Michael Kerrisk
Add section on cancellation points
This section includes a list of the functions that must and
may be cancellation points.
Michael Kerrisk
Rework, and fix small error in, thread-safe function list
Integrate the changes that occurred in POSIX.1-2008 into the
main list (to be consistent with the list, elsewhere on this
page, of functions that are cancellation points).

Also, fix an error that said that strerror() was added to
the list in POSIX.1-2008. It was strsignal() that was
added. (strerror() was already in the list in POSIX.1-2001.)
Michael Kerrisk
Tweak text on sigpause() cancellation point
In POSIX.1-2008, this function moves from the "must be"
to the "may be" list.
Michael Kerrisk
Add ref to signal(7) for further info on use of real-time signals
signal(7) provides some further details on the use of real-time
signals by the two Linux threading
implementations.
Michael Kerrisk
SEE ALSO: add pthread_attr_init() and pthread_cancel()

tcp.7
Michael Kerrisk
Update description of tcp_rmem defaults for Linux 2.6
Michael Kerrisk
Add kernel version numbers for TCP_* socket options
Note kernel version were each socket option first appeared.

Michael Kerrisk
The tcp_bic* proc files disappeared in Linux 2.6.13
Michael Kerrisk
tcp_vegas_cong_avoid disappeared in Linux 2.6.13
Michael Kerrisk
Add mention of RFC 4138 for 'tcp_frto' /proc file
Michael Kerrisk
Remove mention of /proc in VERSIONS
This information is not indicated for each /proc interface
Michael Kerrisk
Clarify that tcp_mem measures in units of the system page size
Michael Kerrisk
Update tcp_frto description for 2.6.22 changes
Linux 2.6.22 added a mode value 2 ("Enable SACK-enhanced
F-RTO if flow uses SACK").
Michael
Kerrisk
Fix alphabetical order in /proc file list
A few entries were slightly out of order.
Michael Kerrisk
Remove obsolete statement about /proc from VERSIONS
Much of the text has been updated to 2.6.27 or so,
so this statement no longer applies.
Michael Kerrisk
Add kernel version numbers for each /proc interface
Note kernel version where each /proc interface first appeared
Michael Kerrisk
tcp_westwood /proc file disappeared in Linux 2.6.13
Michael Kerrisk
Update description of tcp_wmem defaults for Linux 2.6

========== Changes in man-pages-3.15 ==========

Released: 2008-12-05, Bucaramanga

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

makedev.3
  Michael Kerrisk
    New page for makedev(), major(), and minor() macros

pthread_cleanup_push_defer_np.3
  Michael Kerrisk
    New page for pthread_cleanup_push_defer_np(3) and
    pthread_cleanup_pop_restore_np(3)

Newly documented interfaces in existing pages
---

accept.2
  Michael Kerrisk
    Document accept4() system call, new in Linux 2.6.28

fmemopen.3
  Petr Baudis
    Add description of open_wmemstream(3)

tcp.7
  Michael Kerrisk
    Document MSG_TRUNC flag for TCP sockets

New
 and changed links
---

accept4.2
  Michael Kerrisk

New link to accept.2
accept.2 now documents the new accept4() system call.

open_wmemstream.3
Petr Baudis
New link to fmemopen.3
fmemopen.3 now documents open_wmemstream().
pthread_cleanup_pop_restore_np.3
Michael Kerrisk
New link to new pthread_cleanup_push_defer_np.3

Global changes
---

accept.2
listen.2
recv.2
getpeername.2
getsockname.2
shutdown.2
socketpair.2
Michael Kerrisk
Global fix: SEE ALSO: add socket(7)

bind.2
rcmd.3
capabilities.7
ip.7
Michael Kerrisk
Global fix: s/reserved port/privileged port/
Some pages used one term, some pages the other term;
make some consistency.

connect.2
getpeername.2
getsockname.2
Michael Kerrisk
Use consistent argument names
Most other sockets pages are using the names 'addr'
and 'addrlen'; make these pages do the same.

getpeername.2
getsockname.2
getsockopt.2
recv.2
send.2
shutdown.2

sockatmark.3
socket.7
udplite.7
   Michael Kerrisk
     SYNOPSIS: Rename socket file descriptor argument to 'sockfd'
        Many sockets man pages use the name 'sockfd' already.
        For consistency, changes the others to do so as well.

gnu_dev_major.3
gnu_dev_makedev.3
gnu_dev_minor.3
major.3
minor.3
  Michael Kerrisk
     New links to new makedev(3) page

Changes to individual pages

_exit.2
  Michael Kerrisk
     Since glibc 2.3, the exit() wrapper function invokes exit_group(2)
        This information is useful to users of strace(1).

accept.2
  Michael Kerrisk
     Clarify details when returned address is truncated
        If the returned address is truncated, the 'addrlen' argument
        indicates the actual size of the address, rather than a count
        of the number of bytes in the truncated buffer.

        Also clarify that
 if 'addr' argument is NULL, then 'addrlen'
        should is unused, and should also be NULL.
  Michael Kerrisk
     Reorder ERRORS list
        Some errors were listed under a separate "may" heading.
        There's probably no real need to do this; integrate
        those errors into the main list.

exit_group.2
  Michael Kerrisk
     Note that since glibc 2.3, exit(2) invokes exit_group()

futex.2
  Michael Kerrisk
     Mention that glibc provides no wrapper function for futex()

get_thread_area.2
  Michael Kerrisk
    Note that glibc provides no wrapper for this system call

getdomainname.2
  Michael Kerrisk
    Substantial rewrite
      Expand description of setdomainname() and getdomainname().
      Note that getdomainname() is implemented as a library function
      in glibc.
      Note limits on size of domain name.
      Reorganize ERRORS list.

gethostname.2
  Michael Kerrisk
    Various parts rewritten
       Write a paragraph describing sethostname().

      Clarify differences between glibc's gethostbyname() and
      the kernel gethostbyname() system calls.

gethostname.2
  Michael Kerrisk
    Note that HOST_NAME_MAX is 64 on Linux
      Also note that in pre-1.0 days, the limit on hostnames
      was 8 bytes.

getpeername.2
  Michael Kerrisk
    Note that returned address may be truncated if buffer is too small

getsid.2
  Michael Kerrisk
    Simplified version information and moved to a new VERSIONS section

getsockname.2
  Michael Kerrisk
    Note that returned address is truncated if buffer is too small

mknod.2
  Michael Kerrisk
    Refer reader to makedev(3) to build a device ID

mmap.2
  Michael Kerrisk
    Loosen language around how 'addr' hint is interpreted
      Mel Gorman reported that in Linux 2.6.27, 'addr' is rounded

down to a page boundary.

Before kernel 2.6.26,
if 'addr' was taken as a hint, it was
rounded up to the next page boundary. Since Linux 2.6.24,
it is rounded down. Therefore, loosen the description of
this point to say that the address is rounded to "a nearby
page boundary".

open.2
Michael Kerrisk
EFBIG error is now EOVERFLOW (since Linux 2.6.24)
When a 32-bit app opens a file whose size is too big to be
represented in 31-bits, POSIX.1 specifies the error EOVERFLOW.
Linux used to give EFBIG for this case, but 2.6.24 fixed this.

Also, add some text to describe the error scenario in
more detail.

pread.2
Michael Kerrisk
Note that glibc emulation for these calls uses lseek(2)
(This makes it clearer that the emulated calls are not atomic.)

recv.2
send.2
Michael Kerrisk
Make names of "address" and "address length" args more consistent
Make the names of these arguments
more consistent with other
sockets man pages.

recv.2
Michael Kerrisk
Clarify details when returned address is truncated
If the recvfrom() returned address is truncated, the 'fromlen'
argument indicates the actual size of the address, rather than
a count of the number of bytes in the truncated buffer.

Also clarify that the 'from' argument can be NULL, in which
case 'fromlen' should is unused, and should also be NULL.
Michael Kerrisk
Internet datagram and netlink sockets support MSG_TRUNC for recv(2)
Internet datagram (since Linux 2.4.27/2.6.8),
and netlink (since Linux 2.6.22) sockets support
the MSG_TRUNC flag for recv(2).

select.2

Michael Kerrisk
Rewrote text describing feature test macros requirement for pselect()

select_tut.2
Michael Kerrisk
Fix SHUT_FD* macros in example program
Add "do {} while (0)"

set_thread_area.2
Michael Kerrisk
Note that glibc provides no wrapper for this system call

setfsgid.2
setfsuid.2
Michael Kerrisk
Simplify version information and move to a VERSIONS section

setsid.2
Michael Kerrisk
Rework RETURN VALUE section; add an ERRORS section

setup.2
Michael Kerrisk
Relocate some CONFORMING TO text to VERSIONS and NOTES

stat.2
Michael Kerrisk
Document EOVERFLOW error
Michael Kerrisk
Refer reader to major() and minor() to decompose a device ID

syscalls.2
Michael Kerrisk
Fix version numbers for a few system calls
Some 2.6 system calls were wrongly mentioned as also being
backported into a 2.4.x kernel.

uname.2
Michael Kerrisk
DESCRIPTION: Point reader at NOTES for further info on field lengths

atan.3
Andries E. Brouwer
Fix return value description
The correct range for the return value is [-pi/2,pi/2].
(mtk's fix in
the last change to the return value text was
a botch-up of a (correct) suggestion by Nicolas François.)

atexit.3
  Michael Kerrisk
    atexit() and on_exit(3) register functions on the same list
  Michael Kerrisk
    Terminating registered function using longjmp() is undefined
      According to POSIX.1, using longjmp() to terminate execution of
      a function registered using atexit() produces undefined results.
  Michael Kerrisk
    Calling exit(3) more than once produces undefined results
      If an exit handler itself calls exit(3), the results are
      undefined (see the POSIX.1-2001 specification of exit(3)).
  Michael Kerrisk
    The same exit handler may be registered multiple times
  Michael Kerrisk
    Calling _exit(2) terminates processing of exit handlers
  Michael Kerrisk
    Terminating registered function using longjmp() is undefined
      According to POSIX.1, using longjmp() to terminate
execution of
      a function registered using atexit() produces undefined results.

bindresvport.3
  Mats Wichmann
    SYNOPSIS: s/**/*/ in prototype
  Michael Kerrisk
    Fix errors regarding port used, plus other rewrites
      Glibc's bindresvport() takes no notice of sin->sin_port:
      it always returns an arbitrary reserved port in the
      anonymous range (512-1023). (Reported by Mats Wichmann.)

      Also:
      * Add EADDRINUSE and EACCES errors.
      * Mention use of getsockname(2).
      * Other minor rewrites and reorderings of the text.
      * Explicitly note that glib's bindresvport() ignores
        sin->sin_port.
      * Change license There's now virtually no text remaining from
        the 1.70 version of this page.

      Reviewed-by: Mats Wichmann
      Reviewed-by: Petr Baudis

dlopen.3
  Petr Baudis
    Describe confusing dladdr() behavior
      dladdr()

will act unexpectedly if called from non-pic code on a
compile-time-generated function pointer.

fmemopen.3
Michael Kerrisk
Add VERSIONS section
Petr Baudis
SEE OPEN: Add fopencookie(3)
fopencookie(3) is used to implement fmemopen().

fopen.3
Petr Baudis
SEE ALSO: Add fmemopen(3) and fopencookie(3)

fopencookie.3
Petr Baudis
fopencookie() needs _GNU_SOURCE feature test macro

getaddrinfo.3
Petr Baudis
Document results ordering and /etc/gai.conf
This patch documents the order of the getaddrinfo(3) results
(RFC 3484), how should the application deal with that,
mentions the extremely common cause of having multiple
results per query (both IPv4 and IPv6 addresses available)
and mentions /etc/gai.conf.

(mtk: Minor tweaks, and note glibc version for /etc/gai.conf)

isatty.3
Michael Kerrisk
Complete rewrite of this page,
with rather more detail

memmem.3
Michael Kerrisk
Remove sentence saying that libc 5.0.9 is still widely used
That was a *long* time ago.

on_exit.3
Michael Kerrisk
Document handling of registrations on fork(2) and execve(2)
Treatment in these cases is the same as for atexit(3).
Michael Kerrisk
Arg given to registered function is status from *last* call to exit()
It's a subtle point, but if a registered function itself
calls exit(3), then subsequent functions that were registered
with on_exit(3) will see the exit status given to the more

recent exit(3) call.
  Michael Kerrisk
    Note that same function may be registered multiple times

setlocale.3
locale.7
  Michael Kerrisk
    Clean up the description of LANGUAGE environment variable
      Clean up the $LANGUAGE description, by removing bogus comments
      from setlocale(3) and expanding the mention
in locale(7).

      Maybe you will decide that a more detailed description
      should be left to the gettext(3) documentation, but I
      actually care about the invisible part of the patch more
      since the comments have put me off the track initially
      ($LANGUAGE has nothing to do with setlocale(3) and is
       completely isolated to gettext, as obvious from the
       glibc sources).

proc.5
  Michael Kerrisk
    /proc/stat: s/minor/disk_idx/ in description of /proc/stat
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=225619

capabilities.7
  Drake Wilson
    Various minor fixes as per Debian bug 471029
      The relevant pieces of
      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=471029 are:

        - Delete duplicate subentry for KEYCTL_CHOWN/KEYCTL_SETPERM
          operations in the CAP_SYS_ADMIN entry. (It feels like that
          capability entry should be converted
to a list, but I've
          left it in semicolon-delimited form for now.)

        - Remove text about ENFILE from the text about the
          /proc/sys/fs/file-max limit in the CAP_SYS_ADMIN entry, since
          this is already described in the man pages for the relevant
          ofile-creating system calls.

        - Correct or clarify a few other bits of grammar and such;
          see the diff file itself for details.

socket.7
  Michael Kerrisk
    SEE ALSO: add tcp(7) and udp(7)

tcp.7
  Michael Kerrisk
    Relocate out-of-band data discussion
      Move to a new subsection entitled "Sockets API".
  Michael Kerrisk
    Note that MSG_PEEK can be used on out-of-band data

time.7
  Michael Kerrisk
    SEE ALSO: add clock_gettime(3)

unix.7
  Michael Kerrisk
    Unix domain sockets don't support the recv() MSG_TRUNC flag
  Michael Kerrisk
    Retitled subsection "(Un)supported features"
 to "Sockets API"
      This is consistent with the recent change in tcp(7).

========== Changes in man-pages-3.16 ==========

Released: 2009-01-13, Christchurch

Contributors

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Apologies if I missed anyone!

New and rewritten pages
---

pthread_getcpuclockid.3
  Michael Kerrisk
    New page documenting pthread_getcpuclockid(3)

libc.7

Michael Kerrisk
New page giving brief overview of C libraries on Linux

rtld-audit.7
Michael Kerrisk
New page documenting dynamic linker auditing API

Newly documented interfaces in existing pages
---

ld.so.8
Petr Baudis
Document LD_AUDIT
Petr Baudis
Document LD_POINTER_GUARD

New and
changed links
---

gethostid.2
Michael Kerrisk
New link to new page location in Section 3

sethostid.2
Michael Kerrisk
Change link to point to new page location in Section 3

sethostid.3
Michael Kerrisk
New link to relocated page in Section 3

glibc.7
Michael Kerrisk
New link to new libc.7

Global changes
---

syscalls.2
feature_test_macros.7
standards.7
Michael Kerrisk
SEE ALSO: add libc(7)

dlopen.3
ld.so.8
  Michael Kerrisk
    SEE ALSO: add rtld-audit(7)

Changes to individual pages
---

gethostid.2
  Michael Kerrisk
    Move to Section 3
      The interfaces documented in this page are purely glibc.

syscalls.2
  Michael Kerrisk
    Kernel 2.6.28 adds accept4()

clock_getres.3
  Michael Kerrisk
    SEE ALSO: Add pthread_getcpuclockid(3)

fmemopen.3
  Michael Kerrisk
    Fix VERSIONS information

gethostid.3
  Michael Kerrisk

    Before version 2.2, glibc stored the host ID in /var/adm/hostid
      Also: rewrite some text describing the /etc/hostid file, so that
      this location is referred to just once on the page.
  Michael Kerrisk
    RETURN VALUE: describe return value of sethostid()
  Michael Kerrisk
    Added BUGS section noting that ID can't be guaranteed to be unique
  Michael Kerrisk
    Added ERRORS section describing errors for sethostid()
  Michael Kerrisk
    Update section number to reflect relocation into Section 3

printf.3
  Michael Kerrisk
    Source and destination buffers may not overlap for *s*printf()
      http://sourceware.org/bugzilla/show_bug.cgi?id=7075

      Some existing code relies on techniques like the following to
      append text to a buffer:

```
$ cat s.c
#include <stdio.h>
char buf[80] = "not ";
main()
{
   sprintf(buf,
"%sfail", buf);
puts(buf);
return 0;
}

$ cc s.c
$ ./a.out
not fail
```

However, the standards say the results are undefined if source and destination buffers overlap, and with suitable compiler options, recent changes can cause unexpected results:

```
$ cc -v 2>&1 | grep gcc
gcc version 4.3.1 20080507 (prerelease) [gcc-4_3-branch revision 135036] (SUSE Linux)
$ cc -D_FORTIFY_SOURCE -O2 s.c
$ ./a.out
fail
```

readdir.3

Michael Kerrisk

Rewrite text describing 'dirent' fields standardized in POSIX.1

Michael Kerrisk

Clarify text for return value/errno setting for end-of-stream case

nscd.8

Petr Baudis

Correct NOTES section on reloading configuration files

It behaved this way at least since "Sun Oct 18 15:02:11 1998 +0000", some four months after including the nscd implementation in glibc. But there does seem to be a short window between glibc-2.1 and glibc-2.1.3 when nscd -i was not available, I don't think it's worth muddling the point of the page with that, though.

========== Changes in man-pages-3.17 ==========

Released: 2009-01-19, Hobart

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Apologies if I missed
 anyone!

New and rewritten pages
---

endian.3
  Michael Kerrisk
    New page documenting byte order conversion functions
      Document functions (new in glibc 2.9) for conversion between
      host byte order and big-/little- endian byte order:
      htobe16(), htole16(), be16toh(), le16toh(),
      htobe32(), htole32(), be32toh(), le32toh(),
      htobe64(), htole64(), be64toh(), le64toh()

getifaddrs.3
  Petr Baudis
    New page documenting getifaddrs(3) and freeifaddrs(3)
      Many edits and changes of Petr's initial draft by mtk

cp1251.7
  Lefteris Dimitroulakis
    New page documenting CP 1251 (Windows Cyrillic) character set

iso-8859-10.7
  Lefteris Dimitroulakis
    New page documenting ISO 8859-10 character set

iso_8859-13.7
  Lefteris Dimitroulakis
    New page documenting ISO 8859-13 character set

iso_8859-14.7
  Lefteris Dimitroulakis
    New page documenting ISO 8859-14 character
 set

iso_8859-3.7
  Lefteris Dimitroulakis
    New page documenting ISO 8859-3 character set

iso_8859-5.7
  Lefteris Dimitroulakis
    New page documenting ISO 8859-5 character set

iso_8859-8.7
  Lefteris Dimitroulakis
    New page documenting ISO 8859-8 character set

koi8-u.7
  Lefteris Dimitroulakis
    New page documenting KOI8-U character set

Newly documented interfaces in existing pages
---

epoll.7
  Michael Kerrisk
    Document /proc interfaces for limiting kernel memory usage
      Document the following /proc files that were added in
      Linux 2.6.28:
      /proc/sys/fs/epoll/max_user_instances
      /proc/sys/fs/epoll/max_user_watches

netdevice.7
  Michael Kerrisk
    Document recently added interface flags
      IFF_LOWER_UP (since Linux 2.6.17)
      IFF_DORMANT (since Linux 2.6.17)
      IFF_ECHO (since Linux 2.6.25)

      Documentation
 taken from comments in <linux/if.h>

New and changed links
---

freeifaddrs.3
  Michael Kerrisk
    New link to new getifaddrs.3

htobe16.3
htole16.3
be16toh.3
le16toh.3
htobe32.3
htole32.3
be32toh.3
le32toh.3
htobe64.3
htole64.3
be64toh.3
le64toh.3
  Michael Kerrisk
    New links to new endian.3

iso-8859-10.7
iso_8859_10.7
latin6.7
  Michael Kerrisk
    New links to new iso_8859-10.7

iso-8859-13.7
iso_8859_13.7
latin7.7
  Michael Kerrisk
    New links to new iso_8859-13.7

iso-8859-14.7
iso_8859_14.7
latin8.7
  Michael Kerrisk
    New links to new iso_8859-14.7

iso-8859-3.7
iso_8859_3.7
latin3.7
  Michael Kerrisk
    New links to new iso_8859-3.7

iso-8859-5.7
iso_8859_5.7

Michael Kerrisk
New links to new iso_8859-5.7

iso-8859-8.7
iso_8859_8.7
Michael Kerrisk
New links to new iso_8859-8.7

Changes to individual pages
---

bind.2
Michael Kerrisk
SEE ALSO: Add getifaddrs(3)

epoll_create.2
Michael Kerrisk
Document EMFILE error
This error is encountered when the limit imposed by
/proc/sys/fs/epoll/max_user_instances is encountered.
Michael Kerrisk
Clarify distinction between epoll instance and epoll file descriptor
Reword so that the notion of an epoll instance is made clear,
and made distinct from the notion of an epoll file descriptor.
Some other minor rewordings also.

epoll_ctl.2
Michael Kerrisk
Reordered parts of the text
Michael Kerrisk
Introduce notion of epoll instance
Introduce notion of epoll instance as distinct from
epoll file descriptor. Plus other wording clean-ups.
Michael Kerrisk
Document ENOSPC error (new in Linux 2.6.28)
This error results when the limit imposed by
/proc/sys/fs/epoll/max_user_watches is encountered.

epoll_wait.2
Michael Kerrisk
Introduce
the notion of an epoll instance into text

getdents.2
Michael Kerrisk
Before kernel < 2.6.4, 'd_type' was effectively always DT_UNKNOWN

gethostid.2
  Michael Kerrisk
    Rename file (was misnamed gethostd.2 in previous release)

getsockname.2
  Michael Kerrisk
    SEE ALSO: Add getifaddrs(3)

signalfd.2
  Michael Kerrisk
    Fix description of fork() semantics
      The page text described the semantics of the initial
      implementation of signalfd(). These were changed early on,
      but the man page wasn't updated.

byteorder.3
  Michael Kerrisk
    SEE ALSO: add endian(3)

longjmp.3
  Michael Kerrisk
    Clarify wording re saving/restoring signal mask
  Michael Kerrisk
    siglongjmp() restores signal mask iff 'savesigs' was non-zero
      Note that siglongjmp() restores signal mask if, and only
      if, 'savesigs' argument of sigsetjmp() was non-zero. (Previous
      text omitted the "and
 only if".)

memccpy.3
  Michael Kerrisk
    Fix CONFORMING TO: s/C99/POSIX.1-2001/
  Michael Kerrisk
    If the memory areas overlap, the results are undefined

sethostid.3
  Michael Kerrisk
    Rename file (was misnamed sethostd.3 in previous release)

setjmp.3
  Michael Kerrisk
    Clarify wording re saving/restoring signal mask
  Michael Kerrisk
    Clarify when setjmp() provides BSD vs System V signal mask semantics

strsep.3
  Michael Kerrisk
    BUGS: explicitly list problems afflicting strsep()

Previously, the page said this function suffered the same
problems as strtok(), but in fact strsep() doesn't suffer
from all of the same problems as strtok(), so explicitly
list just the problems of strsep() in the strsep.3 page.

proc.5
  Michael Kerrisk
    Add pointer to epoll(7) for description of epoll /proc files

epoll.7
  Michael Kerrisk
    Various wording changes to improve clarity
 and consistency

========== Changes in man-pages-3.18 ==========

Released: 2009-02-10, Christchurch

Contributors

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Apologies if I missed anyone!

New and rewritten pages

---

armscii-8.7
  Lefteris Dimitroulakis
    New page documenting ArmSCII-8 character set

iso_8859-11.7
  Lefteris Dimitroulakis
    New page documenting ISO 8859-11 character set

iso_8859-4.7
  Lefteris Dimitroulakis
    New page documenting ISO 8859-4 character set

iso_8859-6.7
  Lefteris Dimitroulakis
    New page describing ISO 8859-6 character set

pthread_kill.3
  Michael Kerrisk
    New page documenting pthread_kill(3)

pthread_kill_other_threads_np.3
  Michael Kerrisk
    New page documenting pthread_kill_other_threads_np(3)

pthread_sigmask.3
  Michael Kerrisk
    New page documenting pthread_sigmask(3)

Newly documented interfaces in existing pages
---

clock_getres.3
  Michael Kerrisk
    Document CLOCK_MONOTONIC_RAW, new in 2.6.28

New and changed links
---

clock_gettime.2
clock_settime.2
clock_getres.3
clock_gettime.3
clock_settime.3
  Michael Kerrisk

Update links to
reflect the fact that clock_* pages are now in
Section 2

iso-8859-11.7
iso_8859_11.7
Michael Kerrisk
New links to new iso_8859-11.7

iso-8859-4.7
iso_8859_4.7
latin4.7
Michael Kerrisk
New links to new iso_8859-4.7

iso-8859-6.7
iso_8859_6.7
Michael Kerrisk
New links to new iso_8859-6.7

tis-620.7
Michael Kerrisk
New link to new iso_8859-11.7

Global changes
---

clock_nanosleep.2
getrusage.2
timerfd_create.2
clock.3
clock_getcpuclockid.3
ftime.3
pthread_create.3
pthread_getcpuclockid.3
pthread_tryjoin_np.3
sem_wait.3
time.7
Michael Kerrisk
Global fix: Fix xrefs to clock_*.? pages to reflect move to section 2

clock_nanosleep.2
execve.2
fork.2
nanosleep.2
sigaction.2
timerfd_create.2

pthread_getcpuclockid.3
ualarm.3
usleep.3
pthreads.7
time.7
  Michael Kerrisk
    Global fix: s/(3)/(2)/ in section number xrefs for timer_*() API
      The POSIX timers API is implemented (mostly) within the kernel,
       so these interfaces are system calls. Although there are as yet
      no man pages, when they are added they should be in Section 2,
      not 3. Therefore fix those pages that currently refer to these
      interfaces as being in Section 3.

Changes to individual pages
----

capget.2
  Andi Kleen
    Add some details and relocate a paragraph
      While writing a little program using capset
      I found the capset manpage quite light on crucial
      details and I had to resort to RTFS.

      This patch improves the points I found unclear
      and also moves one misplaced paragraph around.

clock_getres.2
  Michael Kerrisk
    Move page from Section 3 to Section 2

eventfd.2
  Michael Kerrisk
    glibc eventfd() supports the use of eventfd2() since version 2.9

fork.2
  Michael Kerrisk
    SEE ALSO: add daemon(3)

getdents.2
  Michael Kerrisk
    Remove unneeded HAVE_D_TYPE
 from example program
      Since d_type will always just return DT_UNKNOWN before
      kernel 2.6.4, we don't need to use a conditional for
      determining whether we use this flag.

nanosleep.2

Michael Kerrisk
Relocated misplaced BUGS heading

select_tut.2
Michael Kerrisk
Clean up error checking in example program (no semantic changes)
Michael Kerrisk
Many parts tidied and rewritten
Remove some redundant text, clarify various pieces,
tidy example code, etc.
Michael Kerrisk
Bug fixes + rewrites in example program
Sebastien pointed out that the first example program
wrongly thinks it can count signals.
Also, some further rewrites by mtk.

socket.2
Michael Kerrisk
BUGS: Remove discussion SOCK_UUCP
As time goes on, this sentence becomes less a piece of humor,
and more a puzzle.

stat.2
Michael Kerrisk
Note
that open(O_NOATIME) also causes st_atime not to be updated

timerfd_create.2
Michael Kerrisk
Add BUGS noting that timerfd supports fewer clock types than
timer_create()

btowc.3
Michael Kerrisk
SEE ALSO: add wctob(3)

clock_getcpuclockid.3
Michael Kerrisk
SEE ALSO: add pthread_getcpuclockid(3)

cos.3
Michael Kerrisk
SEE ALSO: add sincos(3)

fexecve.3
Timo Sirainen
Note that fexecve() depends on a mounted /proc
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=514043

Michael Kerrisk
CONFORMING TO: note addition of fexecve() in POSIX.1-2008
Michael Kerrisk
'fd' must be opened read-only and refer to a file that is executable

fmemopen.3
Michael Kerrisk
CONFORMING TO: note that these functions are in POSIX.1-2008

getifaddrs.3
Lucio Maciel
Fix memory leak in example program
Petr Baudis
Various small fixes

getpwnam.3
Michael Kerrisk

SEE ALSO: add getspnam(3)

getumask.3
Michael Kerrisk
Updated glibc version number in NOTES

ilogb.3
Michael Kerrisk
SEE ALSO: add significand(3)

intro.3
Michael Kerrisk
SEE ALSO: add libc(7)

isalpha.3
Michael Kerrisk
Fix statement that isalpa() is obsolete; should be isascii()
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=512709
Michael Kerrisk
SEE ALSO: add toascii(3)

mq_notify.3
Michael Kerrisk
Add cross reference to pthread_attr_init(3)

pthread_attr_setaffinity_np.3
Michael Kerrisk
SYNOPSIS: Fix declaration of 'attr'

pthread_getcpuclockid.3

Michael Kerrisk
SYNOPSIS: fix type of 'thread'

qsort.3
Michael Kerrisk
EXAMPLE: remove unnecessary "#include <unistd.h>"

random.3
Michael Kerrisk
SEE ALSO: add random_r(3)

remainder.3
Michael Kerrisk
SEE ALSO: add div(3)

scandir.3
Michael Kerrisk
CONFORMING TO: alphasort() and scandir()
are added to POSIX.1-2008
Michael Kerrisk
CONFORMING TO: note that versionsort() was added to glibc in
version 2.1

sem_wait.3
Michael Kerrisk
SEE ALSO: add clock_gettime(2)

significand.3
Michael Kerrisk
Add CONFORMING TO noting that this function is unstandardized

sigwait.3
Michael Kerrisk
Add EXAMPLES section referring to pthread_sigmask(3)

sin.3
Michael Kerrisk
SEE ALSO: add sincos(3)

stpcpy.3
Michael Kerrisk
Add BUGS section noting the possibility of buffer overruns
Michael Kerrisk
Add missing pieces/fix various problems in example program
Michael Kerrisk
CONFORMING TO: stpcpy() is nowadays on the BSDs
Michael Kerrisk
SEE ALSO: add stpcpy.3

wcscasecmp.3
  Michael Kerrisk
    CONFORMING TO: note that this function is added in POSIX.1-2008

wcsdup.3
  Michael Kerrisk
    CONFORMING TO: note that this function was added in POSIX.1-2008

wcsncasecmp.3
   Michael Kerrisk
    CONFORMING TO: note that this function is added in POSIX.1-2008

wctob.3
  Michael Kerrisk
    SEE ALSO: add btowc(3)

proc.5
  Michael Kerrisk
    Remove mention of epoll/max_user_instances
      (Since this interface appeared in 2.6.28, and then
      disappeared in 2.6.29.)

ascii.7
  Michael Kerrisk
    Update SEE ALSO list to include pages added in 3.17
  Michael Kerrisk
    SEE ALSO: add recently added iso_8859-*(7) pages

epoll.7
  Michael Kerrisk
    remove documentation of /proc/sys/fs/epoll/max_user_instances
      This /proc interface appeared in 2.6.28. but will be
      removed in 2.6.29.

      Also, document change in default value of
      /proc/sys/fs/epoll/max_user_watches (was 1/32 of lowmem,
      now 1/25 of lowmem).

koi8-r.7
  Michael Kerrisk
    SEE ALSO: add koi8-u(7); remove crufty text

standards.7
  Michael Kerrisk
    Update to note that latest
 POSIX/SUS was ratified in 2008

time.7
  Michael Kerrisk
    SEE ALSO: add pthread_getcpuclockid(3)

========== Changes in man-pages-3.19 ==========

Released: 2009-02-20, Putaruru

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Apologies if I missed anyone!

New and rewritten pages
---

timer_create.2
  Michael Kerrisk
    New page documenting timer_create(2)

timer_delete.2
  Michael Kerrisk
    New page documenting timer_delete(2)

timer_getoverrun.2
  Michael Kerrisk
    New page documenting timer_getoverrun(2)

timer_settime.2
   Michael Kerrisk
    New page documenting timer_settime(2) and timer_gettime(2)

New and changed links
---

timer_gettime.2
  Michael Kerrisk
    New link to new timer_settime.2

Global changes

Various pages
  Kir Kolyshkin
    Trivial punctuation fixes in SEE ALSO
      In SEE ALSO, when a few man pages are referenced, those
      are divided by commas. Every reference is on a separate
      line, and all lines but the last one should end with
      comma. I spotted one place where there is no comma in
      between references, and mocked up an awk script to find
      similar places:

      for f in man*/*; do
        awk '
          /^.SH ["]SEE ALSO["]/ {
            sa=1; print "== " FILENAME " =="; print; next
          }
          /^\.(PP|SH)/ {
            sa=0; no=0; next

      }
          /^\.BR/ {
            if (sa==1) {
              print;
              if (no == 1)
                print "Missing comma in " FILENAME " +" FNR-1; no=0
            }
          }
          /^\.BR .*)$/ {
            if (sa==1)
              no=1;
            next
          }
          /\.\\"/ {next}
          /.*/ {
            if (sa==1) {
              print; next
            }

```
            }
          ' $f;
    done | fgrep 'Missing comma'
```

This patch fixes all the places found by the above script.

Also, there is an extra dot at the end of uri.7 "SEE ALSO"
section. Removed as per man-pages(7) recommendation.

Changes to individual pages
---

getitimer.2
clock_getcpuclockid.3
time.7
  Michael Kerrisk
    SEE ALSO: add timer_create(2)

getitimer.2
  Michael Kerrisk
    Rename arguments for consistency with other timer pages
      Also some other minor wording improvements

splice.2
  Mark Hills
    ERRORS: Add EINVAL case for file opened O_APPEND
      Target file cannot be opened in append (O_APPEND) mode

      In kernels prior to v2.6.27 splice() to a file in
      append mode is broken, and since that version it is
      disallowed. It is possible this behaviour may change
      in the future; see the kernel commit message
      (efc968d450e013049a662d22727cf132618dcb2f) for more
      information.

syscalls.2
  Michael Kerrisk
    Note that getpmsg(2) and putmsg(2) are unimplemented
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=514771

timerfd_create.2
  Michael Kerrisk
    ERRORS: add EFAULT

timerfd_create.2
  Michael Kerrisk
    Rename timerfd_settime() 'curr_value'

arg to 'old_value'
        For consistency with related pages.

vm86.2
  Parag Warudkar
    CONFORMING TO: Add 32-bit specific
      Note that this call is only on *32-bit* Intel

mq_open.3
  Michael Kerrisk
    ERRORS: add ENOENT error for name == "/"

mq_open.3
  Michael Kerrisk
    ERRORS: Add EACCES error for name containing > 1 slash

sem_open.3
  Michael Kerrisk
    ERRORS: add EINVAL error where name == "/"

sem_open.3
  Jens Thoms Toerring
    Add case of non-well-formed name to ENOENT

shm_open.3
  Michael Kerrisk
    Clarify rules for construction of shared memory object names

proc.5
  Michael Kerrisk
    Add description of /proc/sys/kernel/sysrq
      Reported by: Goerghe Cosorea <gheorghe.coserea@gmail.com>

proc.5
  Michael Kerrisk
    Put /proc/modules entry in correct alphabetical order

ascii.7
  Kir Kolyshkin
    Fix formatting of tables on second page to use monospaced font

mq_overview.7
   Michael Kerrisk
    Clarify construction rules for message queue object names

sem_overview.7
  Michael Kerrisk
    Clarify construction rules for semaphore object names

See also
http://groups.google.com/group/comp.os.linux.development.apps/browse_thread/thread/b4a67caa765cb65f

========== Changes in man-pages-3.20 ==========

Released: 2009-03-31, Christchurch

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

cpuid.4
  Andi Kleen
    New page for cpuid access device

msr.4
  Andi Kleen
    New page documenting x86 CPU MSR access device

Newly documented interfaces in existing pages
---

proc.5
  Américo Wang
    Document /proc/sys/vm/swappiness
  Michael Kerrisk
    Document /proc/sysrq-trigger

Global changes
---

timer_create.2
timer_delete.2
timer_getoverrun.2
timer_settime.2
numa.7
  Michael
 Kerrisk
    Make source layout of 'Link with' text consistent with other pages
      No actual change to formatted output, but this makes the
      page sources more consistent for the purpose of grepping, etc.

mempcpy.3
signbit.3
significand.3
  Michael Kerrisk
    Global fix: acknowledge FSF in copyright
      These pages are heavily based on original material in
      glibc info pages, but the comments in the source of the pages
      did not acknowledge the FSF copyright on the original material.
      Fix that.

accept.2
read.2
recv.2
send.2
write.2

Michael Kerrisk
Fix discussion of EAGAIN/EWOULDBLOCK errors
For a non-blocking socket, POSIX.1-2001/2008 allow either
EAGAIN or EWOULDBLOCK to be returned in cases where a call
would have blocked. Although these constants are defined
with the same value on most Linux architectures (PA-RISC
is the exception), POSIX.1
does not require them to have
the same value. Therefore, a portable application using
the sockets API should test for both errors when checking
this case.

(NB POSIX.1 only mentions EWOULDBLOCK in the context of
the sockets interfaces.)

Change made after a note cross-posted on linux-arch@vger,
http://thread.gmane.org/gmane.linux.debian.ports.hppa/5615
and a suggestion for write(2) from Carlos O'Donell

basename.3
getgrent.3
getgrnam.3
getpwent.3
getpwnam.3
readdir.3
Michael Kerrisk
Note that returned pointer should not be given to free()

armscii-8.7
cp1251.7
iso_8859-10.7
iso_8859-11.7
iso_8859-13.7
iso_8859-14.7
iso_8859-15.7
iso_8859-16.7
iso_8859-2.7
iso_8859-3.7
iso_8859-4.7
iso_8859-5.7
iso_8859-6.7
iso_8859-7.7
iso_8859-8.7
iso_8859-9.7
koi8-r.7
koi8-u.7
Michael Kerrisk
Add explicit character set encoding to first line of source

Nowadays mandb has
provision to understand a character set
encoding that is explicitly indicated in the first line
of the source. As pointed out by Colin Watson, including
such an explicit indication on pages encoded in anything
other than ISO 8859-1 or UTF-8 is useful for man-pages
that aren't shipped in UTF-8.

See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=519209
and for some other background (responded to by Colin Watson
in the above report):
http://thread.gmane.org/gmane.comp.internationalization.linux/6040
("man page encoding", 5 Jul 2005)

Changes to individual pages
---

fallocate.2
Michael Kerrisk
VERSIONS: glibc support is provided since version 2.10

fcntl.2
Michael Kerrisk
Remove mention of EWOULDBLOCK from discussion of mandatory locking
In the kernel, the error on encountering a mandatory lock is

EAGAIN. Although EAGAIN and EWOULDBLOCK are the same on
most Linux architectures, on some they are not, so don't
mention EWOULDBLOCK as it is misleading. (Mea culpa.)

getcontext.2
Michael Kerrisk
Note that POSIX.1-2008 removes the specification of getcontext()

getitimer.2
Michael Kerrisk
Note that POSIX.1-2008 recommends POSIX timers API instead of this API

gettimeofday.2
Michael Kerrisk
Note that POSIX.1-2008 recommends clock_gettime() instead of this API

ptrace.2
Michael Kerrisk
Note use of 'data' for PTRACE_SYS{CALL,EMU} and PTRACE_*_SINGLESTEP
These operations use the 'data' argument as a signal number,
like PTRACE_CONT.

ptrace.2
  Mike Frysinger
    only reference <sys/user.h>
      The kernel no longer installs linux/user.h, so update
      references to sys/user.h.

recv.2
  Michael Kerrisk
    Add 'iovec' defn to defn of 'msghdr' structure

   The 'msghdr' structure includes a field of type 'iovec',
      so show the definition of that structure in this page.

rename.2
  Michael Kerrisk
    Make ENOENT description consistent with POSIX.1-2008

timerfd_create.2
  Michael Kerrisk
    ERRORS: add EINVAL for invalid 'flags' for timer_settime()

truncate.2
  Michael Kerrisk
    SYNOPSIS: Fix description of feature test macro requirements
      After a report by Arvid Norlander.

bcopy.3
  Michael Kerrisk
    Note that POSIX.1-2008 removes specification of bcopy()

bsd_signal.3
  Michael Kerrisk
    Note that POSIX.1-2008 recommends sigaction(2) instead of this API

ctime.3
  Michael Kerrisk
    Note that POSIX.1-2008 recommends strftime(3) instead of these functions

ecvt.3
  Michael Kerrisk
    Note that POSIX.1-2008 recommends sprintf(3) instead of these functions

gcvt.3
  Michael Kerrisk
    Note that POSIX.1-2008 recommends sprintf(3) instead of this function

getcwd.3

Michael Kerrisk
Note that getcwd() should be used instead of the obsolete getwd()

getgrent.3
Michael Kerrisk
Returned buffer may be statically allocated and overwritten by
later calls

gethostbyname.3
Michael Kerrisk
POSIX.1-2008 recommends getaddrinfo(3) and getnameinfo(3) instead

getnetent_r.3
Michael Kerrisk
Fix function name in text: s/getnetbynumber_r/getnetbyaddr_r/
The SYNOPSIS showed the right function name (getnetbyaddr_r),
but the text repeatedly used the wrong name (getnetbynumber_r).
Probably, this was a cut-and-paste error.

getpwent.3
Michael Kerrisk
Returned buffer may be statically allocated and overwritten by
later calls

index.3
Michael Kerrisk
Note that POSIX.1-2008 recommends strchr(3) and strrchr(3) instead

isalpha.3
Michael Kerrisk
Explain why POSIX.1-2008 marks isascii(3) obsolete

lockf.3
Nikanth Karthikesan

Update pointer to documentation in kernel source

makecontext.3
Michael Kerrisk
Note that POSIX.1-2008 recommends the use of POSIX threads instead

mq_notify.3
Michael Kerrisk
Document the POSIX.1-2008 optional EINVAL error
POSIX.1-2008 allows an optional EINVAL error if
notification==NULL and the caller is not currently
registered to receive notifications.

posix_fallocate.3
  Michael Kerrisk
    Clarify that EINVAL also occurs of 'len' *equals* zero
      See http://bugzilla.kernel.org/show_bug.cgi?id=12919

posix_fallocate.3
  Michael Kerrisk
    Document POSIX.1-2001 and POSIX.1-2008 specifications for EINVAL error
      See http://bugzilla.kernel.org/show_bug.cgi?id=12919

posix_memalign.3
  Michael Kerrisk
    Document handling of size==0 case for posix_memalign()

pthread_exit.3
  Michael Kerrisk
    Fix error in DESCRIPTION: s/pthread_create/pthread_exit/

realpath.3
  Michael Kerrisk
     Rework resolved_path==NULL discussion w.r.t. POSIX.1-200[18]
      Although the page already mentioned the resolved_path==NULL
      feature, and that this feature was added in POSIX.1-2008, there
      was still some crufty text in BUGS that hadn't been updated to
      reflect the POSIX.1-2008 changes.

      Also, some other minor wording and grammar fixes.

scalb.3
  Michael Kerrisk
    Note that POSIX.1-2008 recommends scalbln*(3) instead

seekdir.3
  Michael Kerrisk
    SYNOPSIS: Fix type of 'offset' argument: s/off_t/long/
      And add a NOTES section pointing out that 'off_t'
      was indeed used in glibc 2.1.1 and earlier.
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=519230

sem_post.3
  Michael Kerrisk
    Document EOVERFLOW error

shm_open.3
  Michael Kerrisk
    Recast discussion on name length to exclude terminating NULL byte
      Probably it's clearer to describe

the length of the IPC object
name as a count that excludes the null terminator.

siginterrupt.3
Michael Kerrisk
Note that POSIX.1-2008 recommends sigaction() instead

sigset.3
Michael Kerrisk
Note APIs that POSIX.1-2008 recommends instead of these obsolete APIs

strftime.3
Michael Kerrisk
Small fix to description of %G
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=516677

strftime.3
Michael Kerrisk
Add details on ISO 8601 week-based dates
ISO 8602 week-based dates are relevant for %G, %g, and %V,
and the existing details on these dates are a little thin.

strftime.3
Michael Kerrisk
Remove mention of year from ISO 8601 standard
The text mentioned the 1988 8601 standard, but there have
already been two revisions of the standard since then, so
simply remove mention of the year.

telldir.3
Michael Kerrisk
SYNOPSIS: Fix return type:
s/off_t/long/
And add a NOTES section pointing out that 'off_t'
was indeed used in glibc 2.1.1 and earlier.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=519230

timeradd.3
Michael Kerrisk
Note that on some systems, <=, >=, == don't work for timercmp()

timeradd.3
Michael Kerrisk
SYNOPSIS: Fix return types of timerisset() and timercmp()

toascii.3
Michael Kerrisk
Note why POSIX.1-2008 marks this function obsolete

console_ioctl.4
  Alan Curry
    Fix 'argp' type for KDGETLED description
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=517485

group.5
  Michael Kerrisk
    Various minor rewordings and improvements

resolv.conf.5
  Michael Kerrisk
    Document 'ip6-bytestring' option

resolv.conf.5
  Michael Kerrisk
    Document 'edns0' option

resolv.conf.5
  Michael Kerrisk
    Document 'ip6-dotint' / 'no-ip6-dotint' option

resolv.conf.5
  Michael Kerrisk
     Note that maximum value of 'ndots' option is capped to 15

resolv.conf.5
  Michael Kerrisk
    Note that maximum value of 'timeout' option is capped to 30

hier.7
  Michael Kerrisk
    Add description of /srv
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=520904

ip.7
  Michael Kerrisk
    Fix type used to declare sin6_port
      The page should use the type specified by POSIX,
      rather than the (equivalent) type used in the kernel

ipv6.7
  Teddy Hogeborn
    Fix types used to declare sin6_family and sin6_port
      The page should use the types specified by POSIX,
      rather than the (equivalent) types used in the kernel.

      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=517074

mq_overview.7
  Michael Kerrisk
    Recast discussion on name length to exclude terminating NULL byte
      Probably it's clearer to describe the length of the IPC object
      name as a count that
 excludes the null terminator.

rtld-audit.7
  Michael Kerrisk
    Note that multiple libraries in LD_AUDIT doesn't work
      This is reportedly fixed in glibc 2.10.
      See http://sourceware.org/bugzilla/show_bug.cgi?id=9733

sem_overview.7
  Michael Kerrisk
    Fix discussion of length of semaphore names
      Because of the "sem." prefix added by glibc to a semaphore
      name, the limit on the length of the name (excluding the
      terminating null byte) is 251 characters.

========== Changes in man-pages-3.21 ==========

Released: 2009-04-15, Los Gatos

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Roman Byshko <rbyshko@gmail.com>

Apologies if I missed anyone!

New and rewritten pages
---

pthread_setconcurrency.3
  Michael
 Kerrisk
    New page documenting pthread_setconcurrency(3) and
    pthread_getconcurrency(3)

pthread_yield.3
  Michael Kerrisk
    New page documenting pthread_yield(3)

New and changed links
---

pthread_getconcurrency.3
  Michael Kerrisk
    New link to new pthread_setconcurrency(3)

Changes to individual pages
---

initrd.4
  Michael Kerrisk
    Various minor wording improvements

initrd.4
  Frank Dana
    Add missing word in description

feature_test_macros.7
  Michael Kerrisk
    Update for glibc 2.10 changes to <features.h>
      From glibc 2.10, <features.h> understands the values 200809
      for _POSIX_C_SOURCE and 700 for _XOPEN_SOURCE, and makes
      corresponding changes to defaults for other feature test macros.
  Michael Kerrisk
    Add an example program
      This example program makes it possible to explore what
      feature test macros are set depending
 on the glibc version
      and the macros that are explicitly set.

ldconfig.8
  Michael Kerrisk
    /etc/ld.so.conf also include libraries found in /lib and /usr/lib

========== Changes in man-pages-3.22 ==========

Released: 2009-07-25, Munich

Contributors

The following people contributed notes, ideas, or patches that have
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Apologies if I missed anyone!

Changes to individual pages
---

clone.2
  Michael Kerrisk
    Rewrite crufty text about number of args in older version of clone()
        Some bit rot had crept in regarding the discussion of the
        number of arguments in older versions of this syscall.
        Simplify the text to just say that Linux 2.4 and earlier
        didn't have ptid, tls, and ctid arguments.

        See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=533868
  Michael Kerrisk
    Fix version number for CLONE_NEWIPC
      It's 2.6.19, not 2.4.19.
  Michael Kerrisk
    Fix errors in argument names in text (ptid, ctd)

execve.2
  Mike Frysinger
    Remove erroneous statement that
 pending signal set is cleared
    on execve(2).

fcntl.2
  Michael Kerrisk
    The kernel source file mandatory.txt is now mandatory-locking.txt
  Michael Kerrisk
    The Documentation/* files are now in Documentation/filesystems

flock.2
  Michael Kerrisk
    Remove unneeded reference to Documentation/mandatory.txt
      Mandatory locks are only implemented by fcntl() locking
  Michael Kerrisk
    The Documentation/* files are now in Documentation/filesystems

fork.2
  Jeff Moyer
    Document fork() behaviour for the Linux native AIO io_context
      It was noted on lkml that the fork behaviour is documented
      for the POSIX AIO calls, but not for the Linux native calls.
      Here is a patch which adds a small blurb that folks will
      hopefully find useful.

      Upon fork(), the child process does not inherit the
      io_context_t data structures returned by io_setup,
      and thus cannot
 submit further asynchronous I/O or
      reap event completions for said contexts.

getdents.2
  Michael Kerrisk
    The d_type field is fully supported on Btrfs

mount.2
  Michael Kerrisk
    Document MS_STRICTATIME, update description of MS_RELATIME
      Starting with Linux 2.6.30, the MS_RELATIME behavior became
      the default, and MS_STRICTATIME is required to obtain the
      traditional semantics.

poll.2
  Michael Kerrisk
    Remove EBADF error from ERRORS

As reported by Motohiro:

"man poll" describe this error code.

>ERRORS
> EBADF An invalid file descriptor was given in one of the sets.

but current kernel implementation ignore invalid file descriptor,
not return EBADF.
...

In the other hand, SUSv3 talk about

> POLLNVAL
> The specified fd value is invalid. This flag is only valid in the
> revents
member; it shall ignored in the events member.

and

> If the value of fd is less than 0, events shall be ignored, and
> ireevents shall be set to 0 in that entry on return from poll().

but, no desribe EBADF.
(see http://www.opengroup.org/onlinepubs/009695399/functions/poll.html)

So, I think the implementation is correct.

Why don't we remove EBADF description?

sigaction.2
  Michael Kerrisk
    Expand description of si_utime and si_stime fields of siginfo_t

stat.2
  Michael Kerrisk
    Improve wording of ENOTDIR error

syscalls.2
  Michael Kerrisk
    Add preadv() and pwritev(), new in kernel 2.6.30

wait.2
  Gokdeniz Karadag
    Document CLD_DUMPED and CLD_TRAPPED si_code values

daemon.3
  Michael Kerrisk

Clarify discussion of 'noclose' and 'nochdir' arguments

ffs.3
Petr Baudis
SEE ALSO: add memchr(3)

fmemopen.3
Petr Baudis
Relocate BUGS
section to correct position
Petr Baudis
NOTES: there is no file descriptor associated with the returned stream
Alexander Lamaison pointed out that this is not obvious
from the documentation, citing an example with passing the
FILE * handle to a function that tries to fstat() its
fileno() in order to determine the buffer size.
Michael Kerrisk
CONFORMING TO: remove note that these functions are GNU extensions
That sentence is now redundant, since these functions
are added in POSIX.1-2008.

lockf.3
Michael Kerrisk
Clarify relationship between fcntl() and lockf() locking

memchr.3
Petr Baudis
SEE ALSO: add ffs(3)

readdir.3
Michael Kerrisk
The d_type field is fully supported on Btrfs

setjmp.3
Mike Frysinger
Fix typo and clarify RETURN description
The word "signal" was duplicated in NOTES, and the RETURN
section refers to
setjmp() and sigsetjmp(), and mentions
longjmp(), but not siglongjmp().

strcmp.3
Petr Baudis
SEE ALSO: add strverscmp(3)

strcpy.3
Mark Hills
SEE ALSO: Add strdup(3)

complex.7
  Michael Kerrisk
    Add missing header file for example program
  Reimar Döffinger
    Fix type used in example code
    man complex (from release 3.18) contains the following code:
      complex z = cexp(I * pi);
    Reading the C99 standard, "complex" is not a valid type,
    and several compilers (Intel ICC, ARM RVCT) will refuse to compile.
    It should be
      double complex z = cexp(I * pi); instead.

environ.7
  Michael Kerrisk
    Note that last element in environ array is NULL
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=528628
  Michael Kerrisk
    Wording fixes

mq_overview.7
  Michael Kerrisk
    Note that mkdir and mount commands here need superuser privilege
  Michael Kerrisk

    Fix example showing contents of /dev/mqueue file

standards.7
  Michael Kerrisk
    Remove references to dated books
      Gallmeister and Lewine are rather old books. Probably,
      there are better books to consult nowadays, and anyway,
      this man page isn't intended to be a bibliography.

========== Changes in man-pages-3.23 ==========

Released: 2009-09-30, Munich

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

Changes to individual pages
---

execve.2
pipe.2
tee.2
fmemopen.3
mq_notify.3
qsort.3
Michael Kerrisk
Replace use of assert() by code that checks argc
See http://bugzilla.kernel.org/show_bug.cgi?id=13569

As noted by Andrey:
The purpose of the assert macro, defined in <assert.h>,
is to provide a tool to check for programming mistakes
or program logic errors. However, the assert macro must
never be used to perform checks for run time errors,
since, with the NDEBUG macro defined, expressions within
the assert macro invocations are not evaluated/checked
for, resulting in behavior that was not originally intended.
...
The pages affected in the core package are

execve(2)
pipe(2)
tee(2)

fmemopen(3)
mq_notify(3)
qsort(3)

getrusage.2
  Michael Kerrisk
    ru_inblock and ru_oublock are now implemented
      These fields of the rusage structure are filled in since
      Linux 2.6.22.

mmap.2
  Michael Kerrisk
    Add brief documentation of MAP_HUGETLB
      This flag is new in 2.6.32, and serves a similar
      purpose to the shmget() SHM_HUGETLB flag.

open.2
  Christoph Hellwig
    add some comments on O_SYNC and friends

poll.2
  Michael Kerrisk
    Clarify wording describing of 'nfds' argument.
      reported by: rui rlex <rui.rlex@gmail.com>

semctl.2
  Nicolas François
    Remove some redundant words

setpgid.2
  Michael Kerrisk
    Add an explanation of orphaned process groups

splice.2
tee.2
vmsplice.2
  Mark Hills
    Fix return type
      Since glibc 2.7, the return type for these functions
      is ssize_t (formerly it was long).

stat.2
  Nicolas
 François
    Fix small bug in example program
      Since it is a failure, EXIT_FAILURE looks more appropriate
      than EXIT_SUCCESS.

umount.2
  Michael Kerrisk
    glibc only exposes MNT_DETACH and MNT_EXPIRE since version 2.11
      See http://sourceware.org/bugzilla/show_bug.cgi?id=10092

exit.3
  Michael Kerrisk
    Add a pointer to explanation of orphaned process groups in setpgid(2)

fflush.3
  Michael Kerrisk
    fflush() discards buffered input

ffs.3
  Michael Kerrisk
    Clarify that ffsl() and ffsll() are GNU extensions

getaddrinfo.3
  Michael Kerrisk
    Note nonstandard assumed hints.ai_flags value when hints is NULL
      When hints is NULL, glibc assumes hints.ai_flags is
      AI_V4MAPPED|AI_ADDRCONFIG whereas POSIX says 0.
      According to Ulrich Drepper, glibc's behavior is better.

getmntent.3
  Mike Frysinger
    setmntent() argument is 'filename' not 'fp'
      The description
 of setmntent() formerly used the wrong
      argument name.

posix_fallocate.3
  Nicolas François
    Fix reference to POSIX.1-2008
      The sentence mentions twice POSIX.1-2001.
      I guess the second one should be POSIX.1-2008.
      This should be checked in the standard.

setenv.3
  Michael Kerrisk
    Improve ERRORS section
      Add ENOMEM error; improve EINVAL description. Also, make
      RETURN VALUE section a little more accurate in its mention
      of errno.

strftime.3
  Nicolas François
    Fix error in description: s/Monday/Thursday/

proc.5
  Nicolas François
    Fix page cross reference

max_user_watches is better explained in epoll(7) than inotify(7).

proc.5
  Michael Kerrisk
    dmesg is in section 1, not section 8

capabilities.7
  Michael Kerrisk
    FS UID manipulations affect CAP_LINUX_IMMUTABLE and CAP_MKNOD
      Nowadays, file system UID manipulations also affect
      CAP_LINUX_IMMUTABLE (since 2.6.3) and CAP_MKNOD (since 2.6.29).

capabilities.7
  Michael Kerrisk
    Fix version number for CAP_MKNOD in FS UID manipulations
      A recent patch said "since 2.6.29". It should have
      been "since 2.6.30".

capabilities.7
  Nicolas François
    Reword a bad sentence in description of capability bounding set.

mq_overview.7
  Michael Kerrisk
    Change documented ranges for msg_max and msgsize_max
      Linux 2.6.28 changed the permissible ranges for
      these /proc files.

tcp.7
udp.7
  Nicolas François
    Replace references to syctl interfaces with /proc

========== Changes in man-pages-3.24 ==========

Released: 2010-02-25, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

add_key.2
  David Howells
    New page documenting add_key(2)
      Taken from keyutils-1.1 package.

keyctl.2
  David Howells
    New page documenting keyctl(2)
      Taken from keyutils-1.1 package.

request_key.2
  David Howells
    New page documenting request_key(2)
      Taken from keyutils-1.1 package.

Global changes

Various pages
  Michael Kerrisk
    Global fix: s/non-root/unprivileged/

Various pages
  Michael Kerrisk
    Global fix: s/non-privileged/unprivileged/

Various pages
  Michael Kerrisk
    Global fix: /non-superuser/unprivileged user/

Various pages
  Michael Kerrisk
    s/non-/non/
      The tendency in English, as prescribed in style guides like
      Chicago MoS, is toward removing hyphens after prefixes
       like "non-" etc.

Various pages
  Michael Kerrisk
    Global fix: s/re-/re/
      The tendency in English, as prescribed in style guides like
      Chicago MoS, is toward removing hyphens after prefixes
      like "re-" etc.

Various pages
  Michael Kerrisk
    Global fix: s/multi-/multi/
      The tendency in English, as prescribed in style guides like
      Chicago MoS, is toward removing hyphens after prefixes
      like "multi-" etc.

Various pages
  Michael Kerrisk
    Global fix: s/pre-/pre/
      The tendency in English, as prescribed in style guides like
      Chicago MoS, is toward removing hyphens after prefixes

like "pre-" etc.

Various pages
  Michael Kerrisk
    Global fix: s/sub-/sub/
      The tendency in English, as prescribed in style guides like
      Chicago MoS, is toward removing hyphens after prefixes
      like "sub-" etc.

stime.2
time.2
utimensat.2
ctime.3
difftime.3
ftime.3
getspnam.3
mq_receive.3
mq_send.3
rtime.3
sem_wait.3
strftime.3
strptime.3
timeradd.3
rtc.4
core.5
proc.5
icmp.7
time.7
  Michael Witten
    Global fix: Consistently define the Epoch
      All definitions of the Epoch have been refactored to the following:

        1970-01-01 00:00:00 +0000 (UTC)

      That form is more consistent, logical, precise, and internationally
      recognizable than the other variants.

      Also, some wording has been altered as well.

spu_create.2
getopt.3
passwd.5
  Michael Kerrisk
    Global fix: s/non-existing/nonexistent/

faccessat.2
fchmodat.2
fchownat.2

fstatat.2
futimesat.2
linkat.2
mkdirat.2
mknodat.2
openat.2
readlinkat.2
renameat.2
symlinkat.2
unlinkat.2
utimensat.2
mkfifoat.3
  Michael Kerrisk
    Update feature test macro requirements
      Starting in glibc 2.10, defining _XOPEN_SOURCE >= 700,
      or _POSIX_C_SOURCE >= 200809 exposes the declarations
of
      these functions.

Changes to individual pages
---

clock_getres.2
  Michael Kerrisk
    Update text on nonsetabble CLOCK_*_CPUTIME_ID clocks
      SUSv3 permits, but does not require CLOCK_THREAD_CPUTIME_ID and
      CLOCK_PROCESS_CPUTIME_ID to be settable.
      See http://bugzilla.kernel.org/show_bug.cgi?id=11972.

execve.2
  Colin Watson
    Fix description of treatment of caught signals
      Caught signals reset to their default on an execve() (not
      to being ignored).

fcntl.2
  Michael Kerrisk
    s/F_OWNER_GID/F_OWNER_PGRP/
      Peter Zijlstra took the name change I suggested.
  Michael Kerrisk
    Document F_[SG]ETOWN_EX; update details on F_SETOWN
      Linux 2.6.32 adds F_SETOWN_EX and F_GETOWN_EX.
      Linux 2.6.12 changed (broke) the former behavior of
      F_SETOWN with respect to threads.

intro.2
intro.3

Michael Kerrisk
Make subsection
heading consistent with other intro.? pages
These pages used "Copyright Terms"; the other intro.? pages
used "Copyright Conditions". Make these pages like the others.

sendfile.2
Michael Kerrisk
Clarify behavior when 'offset' is NULL

seteuid.2
Michael Kerrisk
Note unstandardized behavior for effective ID
POSIX.1 doesn't require that the effective ID can be changed
to the same value it currently has (a no-op). The man page
should note this, since some other implementations
don't permit it.

setgid.2
Michael Kerrisk
Fix EPERM error description
s/effective group ID/real group ID/
This bug lived in man pages for 15 years before Jason
spotted it! I checked back in Linux 1.0, and the behavior
was as the fixed man page describes.

setreuid.2
Michael Kerrisk
Add more detail on POSIX.1 specification for these syscalls

setuid.2
Michael Kerrisk
Remove crufty statement that seteuid() is not in POSIX
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=569812

stime.2
strftime.3
tzset.3
zic.8
Michael Witten
GMT -> UTC (where appropriate)

sync_file_range.2
Christoph Hellwig
Add some big warnings re data integrity
This system call is by design completely unsuitable for any data
integrity operations. Make that very clear in the manpage.

CPU_SET.3
  Vlastimil Babka
    SYNOPSIS: Fix return types for CPU_COUNT_*()
      These functions return 'int' not void'.

confstr.3
  Michael Kerrisk
    Fix feature test macro requirements

daemon.3
  Michael Kerrisk
    Fix description of 'nochdir' argument.
      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=554819

gethostbyname.3
  Michael Kerrisk
    Document feature test macro requirements for herror() and hstrerror()
      Since glibc 2.8, one of _BSD_SOURCE,
_SVID_SOURCE,
      or _GNU_SOURCE is required.

getline.3
  Michael Kerrisk
    Update to reflect that these functions were standardized in POSIX.1-2008

getnameinfo.3
  Michael Kerrisk
    Document feature test macros requirements for NI_MAXHOST and NI_MAXSERV
      Since glibc 2.8, one of _BSD_SOURCE, _SVID_SOURCE, or _GNU_SOURCE
      must be defined to obtain these definitions.

getopt.3
  Jonathan Nieder
    Fix feature test macro requirements

memchr.3
  Michael Kerrisk
    Add feature test macro requirements for memrchr()

nextafter.3
  Michael Kerrisk
    Fix notable error in DESCRIPTION.
    "less than y" should be "less than x".

popen.3
  Michael Kerrisk
    Fix feature test macro requirements

pthread_attr_setdetachstate.3
pthread_attr_setschedparam.3
pthread_attr_setschedpolicy.3
  Denis Barbier
    Argument name is 'attr' not 'thread'
      The function argument was misnamed in the DESCRIPTION
 on these
      three pages.

rtnetlink.3
  Michael Kerrisk
    Various fixes in example code
      Edward reported a problem in the example code, where a variable
      seems to be misnamed. Upon inspection, there seem to be a few
      such instances, and this patch is my best guess at how things
      should look.

sched_getcpu.3
  Michael Kerrisk
    Place correct header file in SYNOPSIS

sleep.3
  Bill O. Gallmeister
    sleep() puts calling *thread* to sleep (not calling *process*)

sleep.3
  Bill O. Gallmeister
    Add nanosleep(2) to SEE ALSO

strftime.3
  Michael Kerrisk
    %z is defined in SUSv3
      So, substitute "GNU" tag in man page by "SU".

strftime.3
  Michael Witten
    Move 822-compliant date format example to EXAMPLES section
      The RFC 822-compliant date format given in the description
      of `%z' is now moved to the `EXAMPLES' section (note: `EXAMPLE'
      has been
 renamed `EXAMPLES').

      Furthermore, that format example is now actually
      RFC 822-compliant (using `%y' instead of `%Y') and has been
      qualified as being correct only when in the context of at least
      an English locale. Also, `%T' is used in place of `%H:%M:%S'.

      For completeness, an RFC 2822-compliant format example has been

similarly added.

strftime.3
  Michael Witten
    Expand introductory text

strftime.3
  Michael Witten
    Clarification of %z specifier

string.3
  Mark Hills
    Add stpcpy() to this list of string functions

strptime.3
  Michael Kerrisk
    Initialize tm structure in example program

undocumented.3
  Michael Kerrisk
    Remove pages now documented
      By now, the following are documented:

        fopencookie(3)
        freeifaddrs(3)
        rawmemchr(3)
        readdir_r(3)
        getutmp(3)
        getutmpx(3)
         utmpxname(3)

      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=554819

group.5
  Michael Kerrisk
    s/passwd/password/
      The page inconsistently used "passwd" and "password"
      to refer to the same field.

capabilities.7
  Michael Kerrisk
    Update securebits discussion to use SECBIT_* flags

feature_test_macros.7
  Michael Kerrisk
    _POSIX_C_SOURCE >= 200808 defines _ATFILE_SOURCE
      Since glibc 2.10, _POSIX_C_SOURCE >= 200808 defines _ATFILE_SOURCE

path_resolution.7
  Michael Kerrisk
    Add readlink(2) to SEE ALSO
  Michael Kerrisk
    Fix NAME line
      The poorly constructed part preceding "\-" causes apropos
      not to be able to find the subject.

      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=558300

signal.7
  Michael Kerrisk
    Fix discussion of SIGUNUSED
      Clarify that this signal really is synonymous with SIGSYS.
      See http://bugzilla.kernel.org/show_bug.cgi?id=14449

==========
 Changes in man-pages-3.25 ==========

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Apologies if I missed anyone!

New and rewritten pages
---

migrate_pages.2
  Andi Kleen
    New page documenting migrate_pages(2).
      Andi's text based on the move_pages.2 page;
      additional edits by mtk.
      migrate_pages(2) was new in Linux 2.6.16.

quotactl.2
  Jan Kara
    Major updates

      Update the page to consolidate information from the
      outdated man-pages quotactl.2 page and the quotactl.2
      page in the "quota-tools" package. The page in "quota-tools"
      has now been dropped by Jan Kara, so that there is just one
      canonical quotactl.2 page (in pan-pages).
  Michael Kerrisk
      Various other pieces added to the page by mtk.

Newly documented interfaces in existing pages

---

fcntl.2
  Michael Kerrisk
    Document F_SETPIPE_SZ and F_GETPIPE_SZ
      These commands, new in kernel 2.6.35, set and get the capacity
      of pipes.

madvise.2
  Andi Kleen
    Document MADV_HWPOISON
  Michael Kerrisk
    Added documentation of MADV_MERGEABLE and MADV_UNMERGEABLE
      These flags (used for Kernel Samepage Merging, KSM)
      are new in 2.6.32.
  Andi Kleen
    Document MADV_SOFT_OFFLINE
      This operation was added in
 Linux 2.6.33.

mmap.2
  Michael Kerrisk
    Document MAP_UNINITIALIZED flag
      New in Linux 2.6.33.

prctl.2
  Andi Kleen
    Document the hwpoison prctls in 2.6.32

sched_setscheduler.2
  Michael Kerrisk
    Document SCHED_RESET_ON_FORK
      New in Linux 2.6.32

umount.2
  Michael Kerrisk
    Document UMOUNT_NOFOLLOW
      New in Linux 2.6.34.

mkstemp.3
  Michael Kerrisk
    Document mkstemps() and mkostemps()
      These functions are new in glibc 2.11. They allow the template
      string to include a suffix after the "XXXXXX" string.

proc.5
  Michael Kerrisk
    Document /proc/sys/vm/memory_failure_early_kill

New in 2.6.32. Description based on the text in
Documentation/sysctl/vm.txt.
Michael Kerrisk
Document /proc/sys/vm/memory_failure_recovery
New in Linux 2.6.32. Description based on the text in
Documentation/sysctl/vm.txt.
Michael Kerrisk

Document /proc/sys/fs/pipe-max-size

socket.7
Jan Engelhardt
Document SO_DOMAIN and SO_PROTOCOL
These read-only socket options were new in Linux 2.6.32.

New and changed links
---

fstatvfs.2
Michael Kerrisk
Adjust link to point to Section 3

fstatvfs.3
statvfs.2
Michael Kerrisk
New link to page relocated to Section 3

mkstemps.3
mkostemps.3
Michael Kerrisk
New links to mkstemp.3
mkstemp.3 now describes mkstemps(3) and mkostemps(3).

timer_create.2
timer_delete.2
timer_getoverrun.2
timer_settime.2
getline.3
Michael Kerrisk
Add 'L' to constants in feature test macro specifications
Be consistent with POSIX, which uses constants such as 200809L.

Global changes
---

open.2

sync_file_range.2
umount.2
  Michael Kerrisk
    Global fix: s/filesystem/file system/

Changes to individual pages
---

fcntl.2
  Michael Kerrisk
    Note
 that glibc 2.11 papers over the kernel F_GETOWN bug
      Since version 2.11, glibc works around the kernel limitation for
      process groups IDs < 4096 by implementing F_GETOWN via F_GETOWN_EX.

futex.2
  Michael Kerrisk
    Various fixes in SEE ALSO

getpriority.2
nice.2
  Francesco Cosoleto
    Move renice from section 8 to section 1

getrusage.2
  Mark Hills
    Add ru_maxrss
      See kernel commit 1f10206.
  Mark Hills
    Description of maintained fields
      These descriptions are taken from NetBSD 5.0's getrusage(2).
  Michael Kerrisk
    Enhanced description of various fields

mlock.2
  Michael Kerrisk
    /proc/PID/status VmLck shows how much memory a process has locked
      After a note from Tom Swigg, it seems sensible mention VmLck here.

mount.2
  Petr Uzel
    Fix incorrect path

move_pages.2
  Andi Kleen
    Clarify includes/libraries

mremap.2
  Michael Kerrisk
    Clarify existence
 of fifth argument.

msgctl.2
semctl.2
shmctl.2
  Francesco Cosoleto
    Move ipcs from section 8 to section 1

open.2
  Michael Kerrisk
    Remove ambiguity in text on NFS and O_EXCL.

poll.2
  Michael Kerrisk
    Fix discussion of ppoll() timeout argument
      1. Rename ppoll)(_ argument to "timeout_ts" to distinguish it
        from the poll() argument in the text.
      2. More accurately describe the poll() call that is equivalent
        to ppoll().

posix_fadvise.2
  Michael Kerrisk
    Add sync_file_range(2) under SEE ALSO

prctl.2
  Michael Kerrisk
    Correct PR_SET_KEEPCAPS description
      The "keep capabilities" flag only affects the treatment of
      permitted capabilities, not effective capabilities.
      Also: other improvements to make the PR_SET_KEEPCAPS text clearer.

select_tut.2
  Michael Kerrisk
    Fix bug in example program

sigaction.2
  Michael Kerrisk
    Add TRAP_BRANCH
 and TRAP_HWBKPT to si_code values for SIGTRAP
  Michael Kerrisk
    Rearrange text describing fields set by sigqueue(2)
  Michael Kerrisk
    Add details for signals sent by POSIX message queue notifications
  Michael Kerrisk
    Improve description of various siginfo_t fields

Michael Kerrisk
Add some details for SIGTRAP and si_trapno
Andi Kleen
Document hwpoison signal extensions

statfs.2
Michael Kerrisk
Bring statfs struct type declarations closer to glibc reality
Fang Wenqi
Add definition EXT4_SUPER_MAGIC = 0xEF53
Michael Kerrisk
Document f_frsize field.

statvfs.2
Michael Kerrisk
Move this page to section 3 (since it's a library call)

swapon.2
Ivana Hutarova Varekova
Note effect of CONFIG_MEMORY_FAILURE on MAX_SWAPFILES
From 2.6.32, MAX_SWAPFILES is decreased by 1 if the kernel is
built with CONFIG_MEMORY_FAILURE.

syscalls.2
Michael Kerrisk

Bring system call list up to date with Linux 2.6.33
Michael Kerrisk
Fix kernel version number for utimes()

cproj.3
Michael Kerrisk
Note fix for C99 conformance in glibc 2.12.

crypt.3
Petr Baudis
Correct note on key portion significance
As Marcel Moreaux notes:

> The Linux manpage for crypt()[1] contains the following
> statement as the last sentence of the NOTES section:
>
> > In the SHA implementation the entire key is significant
> > (instead of only the first 8 bytes in MD5).
>
> It should probably say "DES" where it says "MD5" (and maybe
> "MD5/SHA" where it says "SHA"), because in MD5 password hashing,
> the entire key is significant, not just the first 8 bytes.

This patch fixes the wording.

fmemopen.3
  Michael Kerrisk
    Bug fix in example program

ftw.3
  Michael Kerrisk
    Note that if 'fn' changes
 CWD, the results are undefined
  Michael Kerrisk
    Clarify description of fpath argument
      As reported by Pierre Habouzit, 'fpath' is not relative
      to 'dirpath'. It is either relative to the calling process's
      current working directory (if 'dirpath' was relative), or it
      is absolute (if 'dirpath' was absolute).

getaddrinfo.3
  Christian Franke
    Fix a field name mixup: s/ai_family/ai_flags/

getline.3
  Robert Wohlrab
    Remove unneeded check before free()
      The manpage of getline shows an example with an extra NULL pointer
      check before it calls free. This is unneeded according to free(3):

          If ptr is NULL, no operation is performed.

      This patch removes the "if" check.

      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=572508

log.3
log10.3
log2.3
  Jan Engelhardt
    Add cross-references to other-base logarithmic functions

opendir.3
  Petr Baudis
     Specify feature test macro requirements for fdopendir(3)
      Currently, there is no note on the fact that fdopendir() is
      POSIX.2008-only.

openpty.3
  Eric Blake

Use const as appropriate
Michael Kerrisk
Note glibc version that added "const" to function arguments
Michael Kerrisk
Explicitly note that these functions are not in POSIX

resolver.3
Michael Kerrisk
Fix declaration of dn_comp() in SYNOPSIS
Remove the second 'exp_dn' from the calling signature.

termios.3
Michael Kerrisk
Change NOFLSH text to speak of characters, not signals

core.5
Michael Kerrisk
Update description of coredump_filter
Kernel 2.6.24 added MMF_DUMP_ELF_HEADERS.
Kernel 2.6.28 added MMF_DUMP_HUGETLB_PRIVATE and
MMF_DUMP_HUGETLB_SHARED.

elf.5
Daisuke HATAYAMA
Document PN_XNUM extension
In linux-2.6.34-rc1, an ELF core extension was added; user-land
tools manipulating ELF core dump such as gdb and binutils has
already been modified before; so elf.5 needs to be modified
accordingly.

You can follow information on the ELF extension via the LKML post:
http://lkml.org/lkml/2010/1/3/103
Date Mon, 04 Jan 2010 10:06:07 +0900 (JST)
Subject ... elf coredump: Add extended numbering support

This Linux-specific extension was added in kernel 2.6.34.

Reviewed-by: Petr Baudis <pasky@suse.cz>

Michael Kerrisk
Remove EI_BRAND
As reported by Yuri Kozlov and confirmed by Mike Frysinger,
EI_BRAND is not in GABI
(http://www.sco.com/developers/gabi/latest/ch4.eheader.html)
It looks to be a BSDism
Michael Kerrisk
Remove words under '.note': "described below"
The existing text is broken, because there is

no '"Note Section" format' describe
below. Simplest
solution is to remove the words "described below".

filesystems.5
Jeff Barry
Add discussion of ntfs and ext4

proc.5
Michael Kerrisk
Simplify description of /proc/sys and /proc/sys/fs
In the description of these directories, there's no need
to list all the files and subdirectories that they contain;
that information is provided by the entries that follow.

services.5
Yuri Kozlov
Remove crufty reference to nonexistent BUGS section

capabilities.7
Michael Kerrisk
Document CAP_SYS_RESOURCE and F_SETPIPE_SZ
With CAP_SYS_RESOURCE, a process can increase pipe capacity above
/proc/sys/ps/pipe-max-size.
Michael Kerrisk
Add get_robust_list() info under CAP_SYS_PTRACE
Michael Kerrisk
Add MADV_HWPOISON under CAP_SYS_ADMIN

signal.7
Michael Kerrisk
Make a clearer statement about nonportable aspect of signal(2)
Make
a clearer statement that signal(2) is less portable for
establishing a signal handler.

socket.7
Michael Kerrisk
Use consistent language to describe read-only socket options

udp.7
Michael Kerrisk
Add FIONREAD warning.
Warn that FIONREAD can't distinguish case of a zero-length
datagram from the case where no datagrams are available.

========== Changes in man-pages-3.26 ==========

Released: 2010-09-04, Munich

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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

eventfd.2
  Michael Kerrisk
    Document EFD_SEMAPHORE
      Document the EFD_SEMAPHORE flag, added in kernel 2.6.30.
      Also restructured some parts of the text to fit with the
      addition of the EFD_SEMAPHORE text.

Global changes
---

getaddrinfo.3
getipnodebyname.3
st.4
  Michael Kerrisk
    s/logical OR/bitwise OR/

Changes to individual pages
---

clock_nanosleep.2
  Michael Kerrisk
    Fix discussion of return value when interrupted
 by a signal

epoll_ctl.2
  Yuri Kozlov
    Small fix to types in data structures

eventfd.2
  Alexander Shishkin
    Clarified close-on-exec behavior

madvise.2
  Michael Kerrisk
    Improve discussion of MADV_SOFT_OFFLINE

mkdir.2
  Michael Kerrisk
    Add EMLINK error to ERRORS

mq_getsetattr.2
mq_close.3
mq_getattr.3
mq_notify.3
mq_send.3
mq_unlink.3
  Lnac Huard
    Fix return type in SYNOPSIS (s/mqd_t/int/)

recv.2
send.2
  Michael Kerrisk
    Remove obsolete reference to glibc version in NOTES

recv.2
send.2
  Nicholas Hunt

Adjust type shown for msg_controllen to glibc reality
This patch fixes the type of msg_controllen in the struct msghdr
definition given in send.2 and recv.2 to match the definition in
glibc and the kernel.

select.2
Michael Kerrisk
Update NOTES on old glibc pselect()
Make it clear that modern glibc uses the kernel pselect()
on systems where
it is available.
See https://bugzilla.kernel.org/show_bug.cgi?id=14411

statfs.2
Guillem Jover
Fix copy & paste error for __SWORD_TYPE definition

sysfs.2
Michael Kerrisk
Clarify that this syscall is obsolete.
And strengthen recommendation to use /proc/filesystems instead.

write.2
Michael Kerrisk
Add EDESTADDRREQ error

a64l.3
Peng Haitao
Fix error in NOTES, s/a64l/l64a/

error.3
Linus Nilsson
Change "perror" to "strerror" in DESCRIPTION of error()

mq_send.3
Michael Kerrisk
Fix EAGAIN description (s/empty/full)

initrd.4
Yuri Kozlov
Fix IP address in explanation of NFS example

tzfile.5
Michael Kerrisk
Add information on version 2 format timezone files
Updated using information from the tzcode 2010l release at
ftp://elsie.nci.nih.gov/pub.
(It's an open question whether or not a version of tzfile.5

should live independently
in man-pages. It was added to the
man-pages set many years ago. For now, I'll follow a
conservative course that causes least pain to downstream,
by continuing to maintain a separate copy in man-pages.)

See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=594219

========== Changes in man-pages-3.27 ==========

Released: 2010-09-22, Nuernberg

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Apologies if I missed anyone!

New and rewritten pages
---

sigevent.7
Petr Baudis, Michael Kerrisk

New page to centralize description of sigevent structure
Several interfaces use this structure. Best to centralize the common details in one place. Content taken from the existing timerfd_create.2 and mq_open.3 pages, with additions by Petr Baudis and Michael Kerrisk.

Newly documented interfaces in existing pages
---

ip.7
Jiri Olsa
Document IP_NODEFRAG
This option is new in Linux 2.6.36

unix.7
Michael Kerrisk
Document SIOCINQ ioctl() operation

Global changes

_exit.2
brk.2
chdir.2
chmod.2
chown.2
chroot.2
clock_nanosleep.2
getdtablesize.2
gethostname.2
getpagesize.2
getsid.2
killpg.2
mknod.2
mknodat.2
posix_fadvise.2
pread.2
readlink.2
setpgid.2
setreuid.2
sigaltstack.2
stat.2
symlink.2
sync.2
truncate.2
vfork.2

wait.2
wait4.2
a64l.3
abs.3
acos.3
acosh.3
asin.3
asinh.3
atan.3
atan2.3
atanh.3
atoi.3
cbrt.3
ceil.3
clock_getcpuclockid.3
copysign.3
cos.3
cosh.3
dirfd.3
div.3
dprintf.3
ecvt.3
erf.3
erfc.3
exp.3
exp2.3
expm1.3
fabs.3
fdim.3
fexecve.3
ffs.3
floor.3
fma.3
fmax.3
fmemopen.3
fmin.3
fmod.3
fpclassify.3
frexp.3
fwide.3
gamma.3
gcvt.3
getcwd.3
getdate.3
getgrent.3
gethostid.3
getpass.3
getpwent.3

getsubopt.3
getw.3
hypot.3
ilogb.3
insque.3
isalpha.3
isgreater.3
iswblank.3
j0.3
j0.3
ldexp.3
lockf.3
log.3
log10.3
log1p.3
log2.3
logb.3
lrint.3
lround.3
mbsnrtowcs.3
mkdtemp.3
mkstemp.3
mktemp.3
modf.3
mq_receive.3
mq_send.3
nan.3
nextafter.3
posix_fallocate.3
posix_memalign.3
pow.3
printf.3
qecvt.3
random.3
realpath.3
remainder.3
remquo.3
rint.3
rint.3
round.3
scalb.3
scalbln.3
scanf.3
siginterrupt.3
signbit.3
sigset.3
sin.3
sinh.3

sqrt.3
stpcpy.3
stpncpy.3
strdup.3
strdup.3
strnlen.3
strsignal.3
strtod.3
strtol.3
strtoul.3
tan.3
tanh.3
tgamma.3
trunc.3
ttyslot.3
ualarm.3
usleep.3
wcpcpy.3
wcpncpy.3
wcscasecmp.3
wcsdup.3
wcsncasecmp.3
wcsnlen.3
wcsnrtombs.3
wprintf.3
Michael Kerrisk
Add/fix/update feature test macro requirements in SYNOPSIS
Various changes to:
* Update feature test requirements to note changes in
recent glibc releases
* Correct errors in feature test macro requirements
* Add feature test macro requirements to pages where
the requirements were not previously stated.

accept.2
clone.2
dup.2
fallocate.2
pipe.2
readahead.2
sched_setaffinity.2
unshare.2
CPU_SET.3
endian.3
euidaccess.3
fexecve.3
getpt.3
getpw.3

getumask.3
getutmp.3
gnu_get_libc_version.3
makedev.3
matherr.3
mbsnrtowcs.3
memfrob.3
pthread_attr_setaffinity_np.3
pthread_getattr_np.3
pthread_setaffinity_np.3
pthread_tryjoin_np.3
tcgetsid.3
wcscasecmp.3
wcsncasecmp.3
wcsnlen.3
wcsnrtombs.3
wcswidth.3
rtld-audit.7
  Michael Kerrisk
    SYNOPSIS: Add reference to feature_test_macros(7)
      These pages specify feature test macros in the function
      prototypes. Add a reference to feature_test_macros(7),
      so that readers are pointed to the information that
      feature test macros must be defined before including
      any header file.

clock_nanosleep.2
clock_getcpuclockid.3
getnetent_r.3
getprotoent_r.3
getrpcent_r.3
getservent_r.3
sigwait.3
  Michael Kerrisk
    RETURN VALUE: Note that "positive error numbers" are listed in ERRORS

fcntl.2
intro.2
open.2
poll.2
ftw.3
intro.3
matherr.3
system.3
tmpnam.3
unix.7
  Michael Kerrisk
    Note that feature test macros must be defined before *any* includes

Programmers often make the mistake of including a feature test
macro only after having already included
some header files.
This patch adds some text at opportune places to remind
programmers to do things the right way.

index.3
stpcpy.3
strcasecmp.3
strcat.3
strchr.3
strcmp.3
strcoll.3
strcpy.3
strdup.3
strfry.3
strpbrk.3
strsep.3
strspn.3
strstr.3
strtok.3
strxfrm.3
Michael Kerrisk
SEE ALSO: Add reference to string(3)
The idea here is to provide a route to discover other
string functions.

armscii-8.7
cp1251.7
iso_8859-3.7
iso_8859-5.7
iso_8859-6.7
iso_8859-8.7
iso_8859-10.7
iso_8859-11.7
iso_8859-13.7
iso_8859-14.7
koi8-u.7
Denis Barbier
Fix decimal values in encoding tables
Octal and hexadecimal values are right, but there are some
off-by one errors in decimal values. Correct values are
printed by this command:

```
perl -pi -e 'if (s/^([0-7]+)\t([0-9]+)\t([0-9a-fA-F]+)//)
  {printf "%03o\t%d\t%s", hex($3), hex($3), $3;};' man7/*.7
```

Changes to individual
pages
---

capget.2
  Michael Kerrisk
    SYNOPSIS: Remove unneeded "undef _POSIX_SOURCE"

fcntl.2
  Michael Kerrisk
    Add feature test macro requirements for F_GETOWN and F_SETOWN

fcntl.2
  Michael Kerrisk
    Note feature test macro requirements for F_DUPFD_CLOEXEC

getrlimit.2
  Michael Kerrisk
    Document units for RLIMIT_RTTIME limit
      This limit is in microseconds

      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=596492

lseek.2
  Michael Kerrisk
    Removed note about return type on ancient systems

mount.2
  Michael Kerrisk
    Definitions of various MS_* constants only appeared in glibc 2.12
      See http://sourceware.org/bugzilla/show_bug.cgi?id=11235

stat.2
  Michael Kerrisk
    Update information on nanosecond timestamp fields
      Update feature test macro requirements for exposing these fields.
      Note that these fields are specified in POSIX.1-2008.

timer_create.2
   Michael Kerrisk
    Factor out generic material that was moved to new sigevent(7) page

aio_fsync.3
  Michael Kerrisk
    Add reference to new sigevent(7) page

atanh.3
  Michael Kerrisk

glibc 2.10 fixed pole error bug
http://sourceware.org/bugzilla/show_bug.cgi?id=6759
was resolved.

cerf.3
Michael Kerrisk
Make it clearer that this function is unimplemented

cos.3
Michael Kerrisk
errno is now correctly set to EDOM on a domain error
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6780
was (silently) resolved.

expm1.3
Michael Kerrisk
errno is now correctly set to ERANGE on a range error
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6788
was (silently) resolved.

fmod.3
Michael Kerrisk
errno is now correctly set to EDOM for the x==inf domain error
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6784

was (silently) resolved.

insque.3
Michael Kerrisk
Noted prev == NULL bug in glibc 2.4 and earlier
As noted by Remi Denis-Courmont, glibc nowadays allows
'prev' to be NULL, as required by POSIX for initializing
a linear list. But in glibc 2.4 and earlier, 'prev' could
not be NULL. Add a BUGS section noting this.

See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=551201
Michael Kerrisk
Added info on circular lists, and initializing circular lists
Michael Kerrisk
Added example program

lgamma.3
Michael Kerrisk
glibc 2.10 fixed pole error bug
http://sourceware.org/bugzilla/show_bug.cgi?id=6777
was (silently) resolved.

log2.3

Matthew Flaschen
log2() function does not conform to C89
log2(), log2f(), and log2l() do not conform to C89.
They are defined in C99. See http://flash-gordon.me.uk/ansi.c.txt
and
http://www.schweikhardt.net/identifiers.html

mq_notify.3
Michael Kerrisk
Factor out generic material that was moved to new sigevent(7) page

pow.3
Michael Kerrisk
errno is now correctly set to ERANGE on a pole error
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6776
was (silently) resolved.

pthread_kill_other_threads_np.3
Michael Kerrisk
CONFORMING TO: Note meaning of "_np" suffix

rand.3
Michael Kerrisk
Clarify description of range of returned value
Michael Kerrisk
Add an example program
Michael Kerrisk
Expand description of rand_r()

random.3
W. Trevor King
Update initstate() return value description to match glibc

readdir.3
Michael Kerrisk
Clarify that "positive error numbers" are listed in ERRORS

rexec.3
Michael Kerrisk
SYNOPSIS: Add header file and feature test macro requirements

sigpause.3
Michael Kerrisk
Correct discussion of
when BSD vs SysV version is used in glibc

sin.3
Michael Kerrisk

errno is now correctly set to EDOM on a domain error
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6781
was (silently) resolved.

tan.3
Michael Kerrisk
errno is now correctly set to EDOM on a domain error
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6782
was (silently) resolved.

wcscasecmp.3
wcsncasecmp.3
wcsnlen.3
Michael Kerrisk
Added VERSIONS section

boot.7
Yuri Kozlov
Update list of major Linux distributions

feature_test_macros.7
Michael Kerrisk
Make text on required placement of macros more prominent
Move the text that notes the requirement that feature test macros
must be defined before including any header files to the top of
the page, and highlight the text further, so that the reader will
not miss this point.

pthreads.7
signal.7
Michael Kerrisk
Add SEE ALSO reference to new sigevent(7) page

tcp.7
Michael Kerrisk
Clarify header file details for SIOCINQ and SIOCOUTQ
Also note synonymous FIONREAD and TIOCOUTQ.

========== Changes in man-pages-3.28 ==========

Released: 2010-10-04, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

getaddrinfo_a.3
  Petr Baudis
    New page documenting getaddrinfo_a()
      The page also documents gai_suspend(), gai_cancel(),

 and gai_error().

aio.7
  Michael Kerrisk
    New page providing an overview of POSIX asynchronous I/O

Newly documented interfaces in existing pages
---

exec.3
  Michael Kerrisk
    Document execvpe()
      This function was added to glibc in version 2.11.
      Also various other small rewrites in the page.

New and changed links
---

gai_cancel.3
gai_error.3
gai_suspend.3
  Petr Baudis
    New links to new getaddrinfo_a.3 page

error_one_per_line.3
  Michael Kerrisk
      Fix misnamed link file (was error_on_per_line.3)

execvpe.3
  Michael Kerrisk
     New link to exec.3

sigstack.3
  Michael Kerrisk
     New link to sigaltstack.2
        No new programs should use sigstack(3). Point the user to the
        better sigaltstack(2), whose man page briefly mentions sigstack(3).

vlimit.3
  Michael Kerrisk
     New link to getrlimit.2
        No new programs should
 use vlimit(3). Point the user to the
        better setrlimit(2), whose man page briefly mentions vlimit(3).

vtimes.3
  Michael Kerrisk
     New link to getrusage.2
        No new programs should use vtimes(3). Point the user to the
        better getrusage(2), whose man page briefly mentions vtimes(3).

Global changes

Various pages
  Michael Kerrisk
     Switch to American usage: "-wards" ==> "-ward"
        American English uses "afterward" in preference to "afterwards",
        and so on

chdir.2
chmod.2
chown.2
gethostname.2
getsid.2
pread.2
setpgid.2
sigaltstack.2
stat.2
truncate.2

wait.2
dirfd.3
getsubopt.3
mkdtemp.3
mkstemp.3
siginterrupt.3
strdup.3
  Michael Kerrisk
    Simplify feature test macro requirements

Changes to individual pages
---

getrlimit.2
  Michael Kerrisk
    Add mention of the ancient vlimit() function

getrusage.2
  Michael Kerrisk
    Add mention of the ancient vtimes()
 function

io_cancel.2
io_destroy.2
io_getevents.2
io_setup.2
io_submit.2
  Michael Kerrisk
    SEE ALSO: add aio(7)

sched_setscheduler.2
  Michael Kerrisk
    ERRORS: note that NULL 'param' yields EINVAL

stat.2
  Michael Kerrisk
    Note feature test macro requirements for blkcnt_t and blksize_t

timer_create.2
  Michael Kerrisk
    Standardize on name 'sevp' for sigevent argument

truncate.2
  Michael Kerrisk
    Correct and simplify ftruncate() feature test macro requirements
      The glibc 2.12 feature test macro requirements for ftruncate() are
      buggy; see http://sourceware.org/bugzilla/show_bug.cgi?id=12037.

Corrected the requirements in the SYNOPSIS, and added a BUGS
section describing the problem in glibc 2.12.

aio_cancel.3
Michael Kerrisk
Add pointer to aio(7) for example program
Refer the reader to aio(7) for a description of the aiocb structure
CONFORMING TO: Add POSIX.1-2008;
add VERSIONS section

aio_error.3
Michael Kerrisk
Wording improvements in RETURN VALUE
Add pointer to aio(7) for example program
Refer the reader to aio(7) for a description of the aiocb structure
CONFORMING TO: Add POSIX.1-2008; add VERSIONS section

aio_fsync.3
Michael Kerrisk
Refer the reader to aio(7) for a description of the aiocb structure
CONFORMING TO: Add POSIX.1-2008; add VERSIONS section

aio_read.3
Michael Kerrisk
Various minor rewordings and additions
Add pointer to sigevent(7) for details of notification of I/O completion
Add pointer to aio(7) for example program
Refer the reader to aio(7) for a description of the aiocb structure
CONFORMING TO: Add POSIX.1-2008; add VERSIONS section

aio_return.3
Michael Kerrisk
Improve description in RETURN VALUE
Add pointer to aio(7) for example program
Refer the reader to aio(7) for a description of the
aiocb structure
CONFORMING TO: Add POSIX.1-2008; add VERSIONS section

aio_suspend.3
Michael Kerrisk
Various additions and rewordings.
Give some arguments more meaningful names.
More explicitly describe the 'nitems' argument.
Explicitly note that return is immediate if an I/O operation
has already completed.
Note that aio_error(3) should be used to scan the aiocb list
after a successful return.
Add references to other relevant pages.

Various other pieces rewritten.
Refer the reader to aio(7) for a description of the aiocb structure
CONFORMING TO: Add POSIX.1-2008; add VERSIONS section

aio_write.3
Michael Kerrisk
Add pointer to sigevent(7) for details of notification of I/O completion
Various minor rewordings and additions
Refer the reader to aio(7) for a description of the aiocb structure
CONFORMING TO: Add POSIX.1-2008;
add VERSIONS section

clearenv.3
Michael Kerrisk
Fix error in feature test macro requirements

dysize.3
Michael Kerrisk
Remove crufty statement about old SCO bug

exec.3
Michael Kerrisk
Add feature test macro requirements for execvpe()
Rewrite description of PATH and mention _CS_PATH
Note execvp() and execlp() behavior for filename containing a slash

getaddrinfo.3
Michael Kerrisk
Add SEE ALSO reference to new getaddrinfo_a.3 page

gethostbyname.3
Michael Kerrisk
Fix formatting of feature test macros

getw.3
Michael Kerrisk
Fix feature test macros

malloc.3
Landijk
Remove editorializing comments on memory overcommitting
See https://bugzilla.kernel.org/show_bug.cgi?id=19332
Michael Kerrisk
Various minor reorganizations and wording fix-ups

mq_notify.3
Michael Kerrisk
Standardize on name 'sevp' for sigevent argument

nl_langinfo.3
  Michael Haardt
    Make it clear that nl_langinfo() interacts with setlocale()
    Add an example program

posix_openpt.3
  Michael Kerrisk
    Fix feature test macro requirements

rand.3
  Michael Kerrisk
    Remove duplicate #include in example program

strtok.3
  Petr Baudis
    Add reference to strtok() example in getaddrinfo(3)

inotify.7
  Michael Kerrisk
    Added section noting limitations and caveats of inotify

sigevent.7
  Michael Kerrisk
    Add SEE ALSO reference to new getaddrinfo_a.3 page
    Add SEE ALSO referring to new aio(7) page

suffixes.7
  Michael Kerrisk
    Change explanation of ".rpm" to "RPM software package"

========== Changes in man-pages-3.29 ==========

Released: 2010-10-19, Detroit

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Apologies if I missed anyone!

New and rewritten pages
---

subpage_prot.2
  Michael Kerrisk
    New page documenting the PowerPC-specific subpage_prot(2)

aio_init.3
  Michael Kerrisk
    New page documenting aio_init(3)

Newly documented interfaces in existing pages
---

posix_fadvise.2
  Michael Kerrisk
    Document the architecture-specific arm_fadvise64_64() system call
      This ARM-specific system call fixes the argument ordering
      for that architecture. Since Linux 2.6.14.

sync_file_range.2
   Michael Kerrisk
    Document the architecture-specific sync_file_range2() system call
      As described in commit edd5cd4a9424f22b0fa08bef5e299d41befd5622,
      the sync_file_range() argument order is broken for some
      architectures (PowerPC, ARM, tile). The remedy was a different
      system call using the right argument order on those architectures.

psignal.3
  Guillem Jover
    Document psiginfo()
      psiginfo() was added to glibc in version 2.10.
  Michael Kerrisk
    Add details, VERSIONS, and BUGS for psiginfo()

ip.7
  Balazs Scheidler
    Document IP_RECVORIGDSTADDR
    Document IP_TRANSPARENT
  Michael Kerrisk
    Document IP_FREEBIND
      Text based on input from Lennart Poettering and Balazs Scheidler.
      See https://bugzilla.kernel.org/show_bug.cgi?id=20082

New and changed links
---

arm_fadvise64_64.2
  Michael Kerrisk
    New link to posix_fadvise.2

arm_sync_file_range.2,
 sync_file_range2.2
  Michael Kerrisk
    New links to sync_file_range.2

arrm_fadvise.2
  Michael Kerrisk
    New link to posix_fadvise.2

psiginfo.3
  Guillem Jover
    New link to psignal.3

Global changes

Many pages
  Michael Kerrisk
    global fix: s/Unix/UNIX/
      The man pages were rather inconsistent in the use of "Unix"
      versus "UNIX". Let's go with the trademark usage.

Various pages
  Michael Kerrisk
    Global fix: s/pseudo-terminal/pseudoterminal/

grantpt.3, ptsname.3, unlockpt.3, pts.4
  Michael Kerrisk
    Global fix: s/pty/pseudoterminal/

recv.2, cmsg.3, unix.7
  Michael Kerrisk
    global fix: s/UNIX socket/UNIX domain socket/

fmtmsg.3, gethostbyname.3, termios.3
  Michael Kerrisk
    Global fix: s/Unixware/UnixWare/

Changes to individual pages
---

inotify_rm_watch.2
  Michael Kerrisk
    SYNOPSIS: fix type of 'wd' argument

posix_fadvise.2
   Michael Kerrisk
    Rewrite VERSIONS, noting that the system call is fadvise64()

syscalls.2
  Michael Kerrisk
    Add the PowerPC-specific subpage_prot() system call
    Add sync_file_range2()

truncate.2
  Michael Kerrisk
    Fix feature test macros

aio_cancel.3
aio_error.3
aio_fsync.3
aio_read.3
aio_return.3
aio_suspend.3
aio_write.3
  Michael Kerrisk
    SEE ALSO: Add lio_listio(3)

gai_cancel.3
gai_error.3
gai_suspend.3
  Michael Kerrisk
    Make these into links
      In the previous release, these files were accidentally made copies
      of getaddrinfo_a.3, instead of being made as link files.

getifaddrs.3

Thomas Jarosch
Prevent possible NULL pointer access in example program

malloc.3
Michael Kerrisk
Emphasize that malloc() and realloc() do not initialize allocated memory

malloc_hook.3
Ivana Varekova
Warn that these functions are deprecated

strcpy.3
Michael Kerrisk
Formatting
fixes in strncpy() example implementation code

ip.7
Michael Kerrisk
Reword NOTES on Linux-specific options

sigevent.7
Michael Kerrisk
SEE ALSO: Add aio_read(3), aio_write(3), and lio_listio(3)

unix.7
Michael Kerrisk
Document the autobind feature
Michael Kerrisk
Fix description of abstract socket names
As reported by Lennart Poettering:
The part about "abstract" sockets is misleading as it suggests
that the sockaddr returned by getsockname() would necessarily
have the size of sizeof(struct sockaddr), which however is not
the case: getsockname() returns exactly the sockaddr size that
was passed in on bind(). In particular, two sockets that are
bound to the same sockaddr but different sizes are completely
independent.
See https://bugzilla.kernel.org/show_bug.cgi?id=19812
Michael Kerrisk

Fix description of "pathname" sockets
As reported by Lennart Poettering:
The part about "pathname" sockets suggests usage of
sizeof(sa_family_t) + strlen(sun_path) + 1
for calculating the sockaddr size. Due to alignment/padding
this is probably not a good idea. Instead, one should use
offsetof(struct sockaddr_un, sun_path) + strlen() + 1
or something like that.

See https://bugzilla.kernel.org/show_bug.cgi?id=19812

========== Changes in man-pages-3.30 ==========

Released: 2010-11-01, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

kexec_load.2
  Andi Kleen
    New page documenting kexec_load(2)
  Michael Kerrisk
    Add license
  Michael Kerrisk
    Incorporate fixes from Eric W. Biederman
      Eric noted that a few instances of "virtual" should
      be "physical" and noted:

        There is an expectation that at hand off from sys_kexec that
        virtual and physical addresses will be identity mapped. But
        this isn't the old Alpha booting convention where you have

a virtual address and then you have to parse the page table
to figure out where your kernel was actually loaded.
Michael
Kerrisk
Additions and edits by mtk
Various wording and layout improvements.
Fixed the name of a constant: s/KEXEC_ARCH_I386/KEXEC_ARCH_386/.
Added RETURN VALUE and ERRORS sections.
Added VERSIONS section
Note that CONFIG_KEXEC is needed
Removed details of using syscall; the reader can find them in
syscall(2).
Added some details for KEXEC_PRESERVE_CONTEXT.
Revised the text mentioning the kernel header, since it is
not yet exported, and it's not certain that it will be.

lio_listio.3
Michael Kerrisk
New page documenting lio_listio(3)

Newly documented interfaces in existing pages
---

reboot.2
Andi Kleen
Document LINUX_REBOOT_KEXEC
Some fix-ups by Michael Kerrisk
Michael Kerrisk
Place 'cmd' values in alphabetical order.

unshare.2
Michael Kerrisk
Document
CLONE_NEWIPC
Michael Kerrisk
Document CLONE_NEWNET
Lucian Adrian Grijincu
Improve description of CLONE_NEWNET
CLONE_NEWNET creates a new network namespace from scratch.
You don't have anything from the old network namespace in
the new one. Even the loopback device is new.
Michael Kerrisk
Document CLONE_SYSVSEM
Michael Kerrisk
Document CLONE_NEWUTS
Michael Kerrisk
Relocate discussion of CAP_SYS_ADMIN to CLONE_NEWNS section

And rewrite the EPERM description to be more general in
preparation for the new flags to be documented.

Global changes

Various pages
  Michael Kerrisk
    Add reference to feature_test_macros(7)
      Some pages simply list feature test macro requirements in
      the form:

        #define #GNU_SOURCE
        #include <someheader.h>

      For these pages, add a "See feature_test_macros(7)"
comment
      on the "#define" line.

Various pages
  Michael Kerrisk
    SEE ALSO: Remove redundant reference to feature_test_macros(7)

Various pages
  David Prevot
    Use greater consistency in NAME line
    (Remove definite article at start of descriptive clause.)

Various pages
  Michael Kerrisk
    SEE ALSO: Place entries in correct order

Various pages
  Michael Kerrisk
    ERRORS: Place entries in correct order

Various pages
  Michael Kerrisk
    Add section number to references to functions documented in other pages

Various pages
  Michael Kerrisk
    Remove redundant section number in page references
      Remove section number in function references that are for
      functions documented on this page.

armscii-8.7

iso_8859-3.7
iso_8859-4.7
iso_8859-5.7
iso_8859-6.7
iso_8859-10.7
iso_8859-11.7
iso_8859-13.7
iso_8859-14.7
koi8-u.7
  David Prevot
    Capitalize hexadecimal numbers

Changes to individual pages
---

access.2
   Michael Kerrisk
     Note use of faccessat(2) for checking symbolic link permissions
  Michael Kerrisk
     Give an example of a safer alternative to using access()

clone.2
  Michael Kerrisk
     Clarify when CLONE_NEWNET implementation was completed

faccessat.2
  Michael Kerrisk
     Note that faccessat() is racy

fcntl.2
  Michael Kerrisk
     RETURN VALUE: Improve description of F_GETFD and F_GETFL

inotify_add_watch.2
  Michael Kerrisk
     Document ENOENT error

mlock.2
  Michael Kerrisk
     Improve wording describing /proc/PID/status /VmLck field
  Michael Kerrisk
     shmctl() SHM_LOCKed memory is not included in VmLck

reboot.2
  Michael Kerrisk
     Place 'cmd' values in alphabetical order

subpage_prot.2
  Michael Kerrisk
    Change 1-line page description
  Michael Kerrisk
    Improvements after review by Paul Mackerras

timer_settime.3
  Michael Kerrisk
    Remove redundant
 SEE ALSO reference

euidaccess.3
  Michael Kerrisk
    Note the use of faccessat(2) to operate on symbolic links
  Michael Kerrisk
    Note that the use of euidaccess() is racy

fenv.3
  Michael Kerrisk
    Clarify wording relating to glibc version

getgrent.3
getgrent_r.3
getgrnam.3
  Michael Kerrisk
    Refer reader for group(5) for more info on group structure

getopt.3
  Bernhard Walle
    Use constants in getopt_long() example
      The description of getopt_long() mentions the constants
      required_argument, no_argument and optional_argument.
      Use them in the example to make the code easier to understand.

getpw.3
  Michael Kerrisk
    Change comment describing pw_gecos

getpw.3
getpwent.3
getpwent_r.3
  Michael Kerrisk
    Refer reader to passwd(5) for more info on the passwd structure

getpwent.3
getpwnam.3
  Michael Kerrisk
    Note that pw_gecos is not in POSIX

And change the comment describing
this field

getpwent_r.3
Michael Kerrisk
Change comment describing pw_gecos

getpwnam.3
Michael Kerrisk
Some rewording and restructuring

sched_getcpu.3
Michael Kerrisk
Fix feature test macro requirements

strnlen.3
Michael Kerrisk
Fix feature test macro requirements

group.5
Michael Kerrisk
Various minor rewordings

hosts.5
protocols.5
spufs.7
termio.7
David Prevot
Remove definite article from NAME section
Please find inline another tiny patch in order to shrink
the definite article from some other pages (found with
"rgrep -i ' \\\- the' man*").

passwd.5
Michael Kerrisk
Various minor rewordings

proc.5
Michael Kerrisk
Add reference to mlock(2) for further info on /proc/PID/status VmLck

armscii-8.7
David Prevot
Write the character set name as ArmSCII

cp1251.7
David Prevot
Capitalize hexadecimal numbers

ip.7
  David Prevot
    Fix name of socket option: s/IP_TTL/IP_TRANSPARENT/
  David Prevot
    Place socket options in alphabetical order

koi8-r.7
  David Prevot
    Fix special character names
      Comparing to koi8-u.7, I noticed some inconsistencies in special
      character names. After checking with the following Unicode related
      pages, please find inline (and gzipped attached, hopefully not
      messing with encoding), a patch in order to make it right, on an
      Unicode point of view.

      http://www.unicode.org/charts/PDF/U2500.pdf
      http://www.unicode.org/charts/PDF/U25A0.pdf
      http://www.unicode.org/charts/PDF/U0080.pdf
      http://www.unicode.org/charts/PDF/U1D400.pdf
  David Prevot
    Fix SEE ALSO reference and letter names
      The koi8-r(7) (Russian Net Character Set) manual page refers
      to iso-8859-7(7) manual page, which is the Latin/Greek one.
      I guess it should
refer instead to the iso-8859-5(7)
      (Latin/Cyrillic) one. This is addressed at the end of the patch.

      It has also been spotted that letter names are different in
      this manual page and in the Unicode related page [0], the
      first part of the page address this.

          0: http://www.unicode.org/charts/PDF/U0400.pdf

man-pages.7
  Michael Kerrisk
    Update example
      The old example used the chmod(2) man page, but the
      feature test macro requirements on that page had changed.
      Update to use an example from a different page (acct(2),
      whose feature test macro requirements are probably unlikely
      to change in the future).

========== Changes in man-pages-3.31 ==========

Released: 2010-11-12, Munich

Contributors

The following people contributed notes, ideas, or patches that have
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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

getrlimit.2
  Michael Kerrisk
    Added documentation of prlimit()
      prlimit() is new in kernel 2.6.36.

inotify.7
  Michael Kerrisk
    Document IN_EXCL_UNLINK
      This flag was added in Linux 2.6.36.
      See kernel commit 8c1934c8d70b22ca8333b216aec6c7d09fdbd6a6.

New and changed links
---

prlimit.2
  Michael Kerrisk
    New link to getrlimit.2

Changes to individual pages
---

getrlimit.2
  Michael Kerrisk
    Remove unneeded text in DESCRIPTION

intro.2
  Michael Kerrisk
    Added various pages to SEE ALSO

kexec_load.2
  Michael Kerrisk
    Add kernel
 version where KEXEC_PRESERVE_CONTEXT first appeared
    Added kernel version number where KEXEC_ON_CRASH first appeared
    Fix copyright
      Make copyright in the name of Intel corporation
    VERSIONS: Fix version number
      kexec_load() was first implemented in 2.6.13, though the entry
      in the system call table was reserved starting in 2.6.7.

migrate_pages.2
  Michael Kerrisk
    SEE ALSO: Add reference to Documentation/vm/page_migration

sched_setaffinity.2
  Michael Kerrisk
    Add missing word "real" to "user ID"

syscalls.2
  Michael Kerrisk
    Fix kernel version number for kexec_load
      kexec_load() was first implemented in 2.6.13, though the entry
      in the system call table was reserved starting in 2.6.7.
  Michael Kerrisk
    Add prlimit() to list

intro.3
  Michael Kerrisk
    Added various pages to SEE ALSO

printf.3
  Michael Kerrisk
    Formatting fixes in example code

hostname.7
   Michael Kerrisk
    Small improvement to description of domains
      See: https://bugzilla.novell.com/show_bug.cgi?id=651900

========== Changes in man-pages-3.32 ==========

Released: 2010-12-03, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

pthread_sigqueue.3
   Michael Kerrisk
      New page documenting pthread_sigqueue()
         pthread_sigqueue() is new in glibc 2.11 (requires a kernel with
         rt_tgsigqueinfo(), added in Linux 2.6.31).

Newly documented interfaces in existing pages
---

readv.2
  Michael Kerrisk
      Add documentation of preadv() and pwritev()
         The preadv() and pwritev() system calls were added in
         Linux 2.6.30.

New and changed links
---

preadv.2
  Michael Kerrisk
    New link to readv.2

pwritev.2
  Michael Kerrisk
    New link to readv.2

Changes to individual pages
---

chdir.2
  Michael Kerrisk
    Remove redundant and incorrect info on FTMs from NOTES

chown.2
  Michael Kerrisk
    Add NOTES explaining 32-bit system calls added in Linux 2.4

clock_nanosleep.2
  Michael Kerrisk
    Clarify that clock_nanosleep() suspends the calling *thread*

epoll_create.2
   Michael Kerrisk
    Note that 'size' argument must be greater than 0
      See https://bugzilla.kernel.org/show_bug.cgi?id=23872
  Michael Kerrisk
    Added VERSIONS section

epoll_ctl.2
  Michael Kerrisk
    Added VERSIONS section

epoll_wait.2
  Michael Kerrisk
    Updated VERSIONS section

fcntl.2
  Michael Kerrisk
    Add notes on fcntl64()

fstatat.2
  Michael Kerrisk
    Add NOTES on fstatat64(), the name of the underlying system call

getdents.2
  Michael Kerrisk
    Added notes on getdents64()

getgid.2
  Michael Kerrisk
    Add NOTES explaining 32-bit system calls added in Linux 2.4

getgroups.2
  Michael Kerrisk
    Add NOTES explaining 32-bit system calls added in Linux 2.4

getpagesize.2
  Michael Kerrisk
    Improve description of getpagesize()
      Improve description of getpagesize() and relocate discussion
      of sysconf(_SC_PAGESIZE).

      In part inspired by
      http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=537272

getresuid.2
   Michael Kerrisk
    Add NOTES explaining 32-bit system calls added in Linux 2.4

getrlimit.2
  Michael Kerrisk
    Add example program for prlimit()

getuid.2
  Michael Kerrisk
    Add NOTES explaining 32-bit system calls added in Linux 2.4

open.2
  Ivana Hutarova Varekova
    O_EXCL can be used without O_CREAT for block devices
      Since Linux 2.6 there is a possibility to use O_EXCL without
      O_CREAT. See patch: http://lkml.org/lkml/2003/8/10/221.

pread.2
  Michael Kerrisk
    Add notes on pread64() and pwrite64()
      See https://bugzilla.kernel.org/show_bug.cgi?id=23072
  Michael Kerrisk
    SEE ALSO: add readv(3)

readv.2
  Michael Kerrisk

Wording fix: readv() and writev() are system calls, not functions

sendfile.2
Michael Kerrisk
Add notes on sendfile64()

setfsgid.2
Michael Kerrisk
Add NOTES explaining 32-bit system calls
added in Linux 2.4

setfsuid.2
Michael Kerrisk
Add NOTES explaining 32-bit system calls added in Linux 2.4

setgid.2
Michael Kerrisk
Add NOTES explaining 32-bit system calls added in Linux 2.4

setresuid.2
Michael Kerrisk
Add NOTES explaining 32-bit system calls added in Linux 2.4

setreuid.2
Michael Kerrisk
Add NOTES explaining 32-bit system calls added in Linux 2.4

setuid.2
Michael Kerrisk
Add NOTES explaining 32-bit system calls added in Linux 2.4

sigqueue.2
pthreads.7
signal.7
Michael Kerrisk
SEE ALSO: Add pthread_sigqueue(3)

stat.2
Michael Kerrisk
Fix EOVERFLOW error description
2<<31 should read 1<<31 (which equals 2^31).

statfs.2
Michael Kerrisk
Add notes on statfs64() and fstatfs64()

swapon.2
Hugh Dickins

Document SWAP_FLAG_DISCARD and discarding of swap pages

truncate.2
Michael Kerrisk
Add notes on truncate64() and ftruncate64()

memcpy.3
Michael Kerrisk
Change "should not overlap" to "must not overlap"
glibc 2.12 changed things so that applications that use memcpy() on
overlapping regions will encounter problems. (The standards have
long said that the behaviors is undefined if the memory areas
overlap.)

See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=603144
In reference of http://lwn.net/Articles/414467/
and http://article.gmane.org/gmane.comp.lib.glibc.alpha/15278

usleep.3
Petr Uzel
usleep() suspends calling thread, not process

core.5
Michael Kerrisk
Change single quote to double quote in shell session example
The example section has a sample shell session containing:

echo '|$PWD/core_pattern_pipe_test %p UID=%u GID=%g sig=%s'

But $PWD won't be expanded in single quotes. It should be double
quotes around the entire argument or some other form.

pthreads.7
Michael Kerrisk
Added description of async-cancel-safe functions

unix.7
Michael Kerrisk
Reworded the text of various errors
Michael Kerrisk
Added ENOENT error

========== Changes in man-pages-3.33 ==========

Released: 2011-09-16, Munich

Contributors

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in the changelog below) reports, notes and ideas that have been
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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

sync.2
  Michael Kerrisk
    Added new syncfs() system call
      syncfs() was added in Linux 2.6.39.

New and changed links
---

syncfs.2
  Michael Kerrisk
    New link for sync(2).

Global changes

Various pages
  Simon Paillard
    Global fix: properly escape minus sign

Changes to individual pages
---

clone.2
  Michael Kerrisk
    Note that CLONE_STOPPED was removed in 2.6.38

execve.2
  Michael Kerrisk [Sebastian Geiger]
    Note that the first argv[] value should contain name of executable

fcntl.2
  Michael Kerrisk [Reuben Thomas]
    Note that F_GETFL also retrieves file access mode

getrlimit.2
  Michael Kerrisk [Ryan Mullen]
    Remove mention of kernel versions in discussion of RLIMIT_CPU
  Michael Kerrisk [Seonghun Lim]
    Fix example program and add _FILE_OFFSET_BITS requirement

mlock.2
  Michael Kerrisk [Brian M.
 Carlson]
    Clarify EINVAL error
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?625747
  Michael Kerrisk [Seonghun Lim]
    Simplify and correct text for EPERM error

mprotect.2
  Seonghun Lim
    Fix off-by-one error in a memory range
  Seonghun Lim
    Fix small bug in example program
      The description of the example program says that it makes the
      third page "read-only". Thus use PROT_READ instead of PROT_NONE.

open.2
  Folkert van Heusden
    Remove text describing O_CLOEXEC as Linux-specific
      O_CLOEXEC is specified in POSIX.1-2008, as noted
      elsewhere in the page.

readlink.2
  Michael Kerrisk [Dan Jacobson]
    SEE ALSO: Add readlink(1)

sendfile.2
  Akira Fujita
    Since 2.6.33, 'out_fd' can refer to any file type
      Linux kernel commit cc56f7de7f00d188c7c4da1e9861581853b9e92f
      meant sendfile(2) can work with any output file.
  Michael Kerrisk
    Shift
 text on falling back to read()/write() to NOTES
  Michael Kerrisk [Tolga Dalman]
    Remove mention of kernel version for 'in_fd' argument
  Tolga Dalman
    Add an explicit reference to splice(2)
      Unlike sendfile(), splice() can transfer data
      between a pair of sockets.

sigaction.2
  Michael Kerrisk [Tolga Dalman]
    Add a little info about ucontext_t

stat.2
  Michael Kerrisk [Jon Grant]
    Small rewording of ENAMETOOLONG error

sync.2
  Michael Kerrisk
    Some rewrites to description of sync()

syscalls.2
  Michael Kerrisk
    Added fanotify_init() and fanotify_mark() to syscall list
  Michael Kerrisk
    Added new 2.6.39 system calls
  Michael Kerrisk
    Updated for Linux 3.0 system calls
  Michael Kerrisk
    Update kernel version at head of syscall list
  Michael Kerrisk
    Update to mention 3.x kernel series

syslog.2
  Michael Kerrisk [Serge E. Hallyn]
    Update for kernel 2.6.37
 changes
      Document /proc/sys/kernel/dmesg_restrict.
      Document CAP_SYSLOG.

time.2
  Michael Kerrisk [Alexander Schuch]
    NOTES: Fix description of "Seconds since the Epoch"

timerfd_create.2
  Michael Kerrisk [Josh Triplett]
    Note behavior when timerfd_settime() old_value is NULL
    See http://bugs.debian.org/cgi-bin/bugreport.cgi?641513
  Tomislav Jonjic
    Fix small error in description of timerfd_settime()

truncate.2
  Seonghun Lim
    Remove redundant EINTR description

unlink.2
  Hendrik Jan Thomassen
    Improve EBUSY description

cacos.3
cacosh.3
catan.3
catanh.3
  Michael Kerrisk [Richard B. Kreckel, Andries Brouwer]

Fix formula describing function
The man pages for cacos(), cacosh(), catan(), catanh()
contain incorrect formulae describing the functions.

cacos.3
Michael Kerrisk
Add example program

cacosh.3
Michael Kerrisk
Add example program

cacosh.3
casinh.3
catan.3
catanh.3
Michael Kerrisk
SEE ALSO: Add reference to inverse function

catan.3
Michael Kerrisk
Add example program

catanh.3
Michael Kerrisk
Add example program

ccos.3
ccosh.3
csin.3
csinh.3
ctan.3
ctanh.3
Michael Kerrisk
SEE ALSO Add reference to "arc" inverse function

cexp.3
Michael Kerrisk
SEE ALSO: add cexp(3)

clog.3
Michael Kerrisk
SEE ALSO: Add reference to clog(2)

crypt.3
Michael Kerrisk [Jan Engelhardt]
Fix header file and feature test macro requirements for crypt_r()

err.3
  Seonghun Lim
    Clean up description of error message source
      In the second paragraph of DESCRIPTION section, one of the
      sources of error messages is incorrect: the four functions obtain
      error message only from errno, and "a code" is just relevant
      with errc() and warnc(), which are not present on Linux.
      see http://www.unix.com/man-page/freebsd/3/ERR/
.

      Then, the third paragraph becomes a duplicate.

fflush.3
  Regid Ichira
    Fix wording error
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?614021

hsearch.3
  Seonghun Lim
    Update ERRORS section
      EINVAL can occur for hdestroy_r().
      EINVAL can't occur for hcreate().
      Other minor fixes.

lockf.3
  Michael Kerrisk [Mikel Ward]
    ERRORS: EBADF can also occur for nonwritable file descriptor
      As noted in the DESCRIPTION, the file descriptor must be writable
      in order to place a lock.

malloc.3
  Seonghun Lim
    Reorder prototypes in SYNOPSIS
      calloc() comes before realloc() in the other sections,
      so should do in SYNOPSIS, too.

mbstowcs.3
  Michael Kerrisk
    SEE ALSO: add reference to wcstombs(3)

memcmp.3
  Michael Kerrisk [Sebastian Unger]
    Clarify that comparison interprets bytes as "unsigned char"

realpath.3
  Michael
 Kerrisk [Seonghun Lim]
    Fix EINVAL error

Since glibc 2.3, resolved_path can be non-NULL (with the
semantics already documented in the page).

scandir(3)
Mike Frysinger
Add ENOENT/ENOTDIR errors

siginterrupt.3
Michael Kerrisk [Luis Javier Merino]
Remove misleading sentence about signal(2) and system call interruption

strlen.3
Michael Kerrisk [Jon Grant]
SEE ALSO: Add strnlen(3)

strnlen.3
Michael Kerrisk [Jon Grant]
CONFORMING TO: Note that strnlen() is in POSIX.1-2008

strtoul.3
Michael Kerrisk [Tolga Dalman]
Fix NOTES section constants

termios.3
Michael Kerrisk
Use "terminal special characters" consistently throughout page
Michael Kerrisk [Paul Evans]
Add documentation of _POSIX_VDISABLE
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=627841
Michael Kerrisk
Add a description of STATUS character
Michael Kerrisk
Added description
of SWTCH character
Michael Kerrisk
Add names of terminal special characters
Michael Kerrisk
List terminal special characters in alphabetical order

wcstombs.3
Michael Kerrisk
SEE ALSO: add mbstowcs(3)

console_codes.4
Petr Pisar
Add ESC [3 J
Linux 3.0 (commit f8df13e0a901fe55631fed66562369b4dba40f8b)
implements \E[3J to allow scrambling content of console

including scroll-back buffer
(http://thread.gmane.org/gmane.linux.kernel/1125792).

proc.5
  Michael Kerrisk [Stan Sieler]
    Add description of 'PPid' field of /proc/PID/status
  Michael Kerrisk [Stan Sieler]
    Add description of 'SigQ' field of /proc/PID/status

capabilities.7
  Michael Kerrisk [Serge E. Hallyn]
    Document CAP_SYSLOG and related changes in Linux 2.6.37
  Michael Kerrisk
    File capabilities are no longer optional
      Starting with Linux 2.6.33, the CONFIG_SECURITY_FILE_CAPABILITIES
       has been removed, and file capabilities are always part of the
      kernel.

complex.7
  Michael Kerrisk
    Updated SEE ALSO list to include all complex math functions

ipv6.7
  Michael Kerrisk [Simon Cross]
    Fix description of address notation: "8 4-digit hexadecimal numbers"

signal.7
  Seonghun Lim
    Remove crufty repeated info about LinuxThreads

unix.7
  Michael Kerrisk
    Add pointer to cmsg(3) for an example of the use of SCM_RIGHTS

========== Changes in man-pages-3.34 ==========

Released: 2011-09-23, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
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Apologies if I missed anyone!

New and rewritten pages
----

rt_sigqueueinfo.2
  Michael Kerrisk [Stephan Mueller]
    New page for rt_sigqueueinfo(2) and rt_tgsigqueueinfo(2)
      This replaces the previous '.so' man page link file for
      rt_sigqueueinfo.2, which linked to this sigqueue() man page.

cciss.4
  Stephen M. Cameron
    New man page for cciss driver
      I obtained the information in this man page as a consequence
      of having worked on
 the cciss driver for the past several years,
      and having written considerable portions of it.
  Michael Kerrisk
    Copyedit by mtk

hpsa.4
  Stephen M. Cameron
    New man page for the hpsa driver
      I obtained the information in this man page as a consequence
      of being the main author of the hpsa driver.
  Michael Kerrisk
    Copyedits my mtk

Newly documented interfaces in existing pages
---

fstatat.2
  Michael Kerrisk [David Howells]
    Document AT_NO_AUTOMOUNT
      This flag was added in Linux 2.6.38.

lseek.2
  Michael Kerrisk [Eric Blake, Sunil Mushran]
    Document SEEK_HOLE and SEEK_DATA
      These flags, designed for discovering holes in a file,
      were added in Linux 3.1. Included comments from Eric
      Blake and Sunil Mushran.

madvise.2
  Doug Goldstein
    Add MADV_HUGEPAGE and MADV_NOHUGEPAGE
      Document the MADV_HUGEPAGE
 and MADV_NOHUGEPAGE flags added to
      madvise() in Linux 2.6.38.

New and changed links
---

rt_tgsigqueueinfo.2
  Michael Kerrisk
    New link to new rt_sigqueueinfo.2 page

sigqueue.2
  Michael Kerrisk
    Create link to page that was relocated to section 3

Global changes

Various pages
  Michael Kerrisk
    Change reference to "sigqueue(2)" to "sigqueue(3)"

Changes to individual pages
---

fallocate.2
  Michael Kerrisk
    ERRORS: Add EPERM and ESPIPE errors

lseek.2
  Michael Kerrisk [Alan Curry, Reuben Thomas]
    Remove suspect note about 'whence' being incorrect English

prctl.2
  Paul Pluzhnikov
    PR_SET_DUMPABLE makes process non-ptrace-attachable

readlink.2
  Guillem Jover
    Document using st_size to allocate the buffer
  Michael Kerrisk
    Added copyright text + changelog note for Guillem Jover's patch

sched_setscheduler.2
  Michael Kerrisk

    Document 2.6.39 changes to rules governing changes from SCHED_IDLE policy
      Since Linux 2.6.39, unprivileged processes under the
      SCHED_IDLE policy can switch to another nonrealtime
      policy if their nice value falls within the range
      permitted by their RLIMIT_NICE limit.

tkill.2
  Michael Kerrisk
    SEE ALSO: Add rt_sigqueueinfo (2)

btowc.3, wctob.3
  Michael Kerrisk [Brian M. Carlson]
    Add pointers to better, thread-safe alternative functions
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=606899

fwide.3
  Michael Kerrisk
    Add _ISOC95_SOURCE to feature test macro requirements
      Since glibc 2.12, _ISOC95_SOURCE can also be used to expose
      prototype of this function.

index.3
  Michael Kerrisk [Jon Grant]
    Fix text mentioning terminating null

pthread_sigqueue.3
  Michael Kerrisk

Replace explicit mention of rt_tgsigqueueinfo() with SEE ALSO reference

sigqueue.3
Michael Kerrisk
Move this page to section 3
Now that the underlying system call rt_sigqueueinfo(2) is
properly documented, move sigqueue() to Section 3, since
it is really a library function.
Michael Kerrisk
Update text in line with existence of new rt_sigqueueinfo.2 page

wcsnlen.3
Jon Grant
Improve description of 'maxlen' argument
It's worth clarifying 'maxlen' is in wide-char units, not bytes.

wprintf.3
Michael Kerrisk
Add _ISOC95_SOURCE to feature test macro requirements
Since glibc 2.12, _ISOC95_SOURCE can also be used to expose
prototype of these functions.

feature_test_macros.7
Michael Kerrisk
Document _ISOC95_SOURCE
_ISOC95_SOURCE was added in glibc 2.12 as a means
to expose C90 Amendment 1 definitions.

ip.7
Benjamin Poirier [Neil Horman]
Improve description of IP_MTU_DISCOVER

signal.7
Michael Kerrisk
SEE ALSO: Add rt_sigqueueinfo(2)

========== Changes in man-pages-3.35 ==========

Released: 2011-10-04, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

recvmmsg.2
  Andi Kleen, Michael Kerrisk
    New man page for recvmmsg(2)

setns.2
  Eric W. Biederman
    New manual page for setns(2)
  Michael Kerrisk
    Various improvements

Global changes

Various
 pages
  Michael Kerrisk
    Global fix: remove spaces around em-dash
      Normal English typographical convention is not to have
      spaces around em dashes.

Various pages
  Michael Kerrisk
    Global fix: s/null pointer/NULL pointer/

Various pages
  Michael Kerrisk
    Global fix: use ORing
      Use "ORing", not "OR'ing", nor an italic ".IR OR ing".

Various pages
  Michael Kerrisk
    Global fix: consistent use of "null wide character"
      Bring more consistency to the discussion of
      "[terminating] null wide character"
      by writing (at least in the initial use in a page)
      "[terminating] null wide character (L'\0')".

Various pages
  Michael Kerrisk
    Global fix: consistent use of "null byte"
      Bring more consistency to the discussion of
      "[terminating] null byte"
      by writing (at least in the initial use in a page)
      "[terminating] null
byte ('\0')".

mount.2, prctl.2
  Michael Kerrisk
    s/task/thread/ for consistency with other pages

Changes to individual pages
---

lseek.2
  Guillem Jover
    CONFORMING TO: Note other systems that have SEEK_HOLE+SEEK_DATA

recv.2
  Michael Kerrisk
    Add mention of recvmmsg(2)

recvmmsg.2
  Michael Kerrisk
    SEE ALSO: add sendmmsg(2)

send.2
  Michael Kerrisk
    CONFORMING TO: POSIX.1-2008 adds MSG_NOSIGNAL

sigwaitinfo.2
  Michael Kerrisk
    Note that attempts to wait for SIGKILL and SIGSTOP are silently ignored

stat.2
  Michael Kerrisk
    Note POSIX.1-2001 and POSIX.1-2008 requirements for lstat()

Michael Kerrisk
Regarding automounter action, add a reference to fstatat(2)
Michael Kerrisk
Clean up text describing which POSIX describes S_IF* constants

aio_cancel.3
Michael Kerrisk [Jon Grant]
Clarify meaning of "return status" and "error status"

gets.3
Michael Kerrisk
POSIX.1-2008 marks gets() obsolescent
The page formerly erroneously stated that POSIX.1-2008
removed the specification of this function.

mbsnrtowcs.3
Michael Kerrisk
CONFORMING TO: Add POSIX.1-2008
This function is specified in the POSIX.1-2008 revision.

regex.3
Michael Kerrisk [Reuben Thomas]
Change "terminating null" to "terminating null byte"

stpcpy.3
stpncpy.3
Mike Frysinger
Note that these functions are in POSIX.1-2008
Update the "CONFORMING TO" sections of these functions to
note that they are now part of the POSIX.1-2008 standard.

stpncpy.3
Michael Kerrisk
Change "terminating null" to "terminating null byte"

strcpy.3
Mike Frysinger
SEE ALSO: Add stpncpy(3)

strdup.3
Michael Kerrisk
CONFORMING TO: strndup() is in POSIX.1-2008

wcpcpy.3
wcpncpy.3
wcsnlen.3
wcsnrtombs.3
Michael Kerrisk

CONFORMING TO: Add POSIX.1-2008

These functions are specified in the POSIX.1-2008 revision.

proc.5
Eric W. Biederman
Document /proc/[pid]/ns/
Michael Kerrisk
Some edit's to Eric Biederman's /proc/[pid]/ns/ additions

capabilities.7
Michael Kerrisk
List setns(2) as an operation allowed by CAP_SYS_ADMIN

========== Changes in man-pages-3.36 ==========

Released: 2012-02-27, Christchurch

Contributors

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Apologies if I missed anyone!

New and rewritten pages
---

sendmmsg.2
  Michael Kerrisk [Stephan Mueller]
    New page for sendmmsg(2)
      Some pieces inspired by an initial attempt by Stephan Mueller.

Newly documented interfaces in existing pages
---

fallocate.2
  Lucian Adrian Grijincu
    Document FALLOC_FL_PUNCH_HOLE
      FALLOC_FL_PUNCH_HOLE was added in Linux 2.6.38,
      for punching holes in the allocated space in a file.

Changes
 to individual pages
---

dup.2
  Michael Kerrisk
    SYNOPSIS: Add "#include <fcntl.h>" for O_* constants

fallocate.2
  Michael Kerrisk
    Substantial restructuring of DESCRIPTION
      The addition of a second class of operation ("hole punching")
      to the man page made it clear that some significant restructuring
      is required. So I substantially reworked the page, including the
      preexisting material on the default "file allocation" operation.
  Michael Kerrisk [Josef Bacik]
    Add further details for FALLOC_FL_PUNCH_HOLE
  Michael Kerrisk
    ERRORS: Add EPERM error case for FALLOC_FL_PUNCH_HOLE

fork.2
  Michael Kerrisk

NOTES: Describe clone() call equivalent to fork()

fsync.2
Christoph Hellwig
Various improvements
- explain the situation with disk caches better
- remove the duplicate fdatasync() explanation in the NOTES section
- remove an incorrect note about fsync() generally requiring two writes
- remove an obsolete ext2 example note
- fsync() works on any file descriptor (doesn't need to be writable); correct the EBADF error code explanation
Michael Kerrisk [Guillem Jover]
Note that some systems require a writable file descriptor
An edited version of Guillem Jover's comments:
[While the file descriptor does not need to be writable on Linux]
that's not a safe portable assumption to make on POSIX in general
as that behavior is not specified and as such is
implementation-specific. Some Unix systems do actually fail on
read-only file descriptors, for example [HP-UX and AIX].

mount.2
Michael Kerrisk [Junjiro Okajima]
Removed erroneous statement about MS_RDONLY and bind mounts

open.2
Jessica McKellar
Fix grammar in O_DIRECT description

Some small grammar fixes to the O_DIRECT description.

pipe.2
Michael Kerrisk [Salvo Tomaselli]
SYNOPSIS: Add "#include <fcntl.h>" for O_* constants
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=659750

sched_rr_get_interval.2
Clemens Ladisch
Update notes on modifying quantum
Since Linux 2.6.24, it is no longer possible to
modify the SCHED_RR quantum using setpriority(2).
(Slight edits to Clemens' patch by mtk.)
Michael Kerrisk
Reordered various pieces of text
Michael Kerrisk
Reworded text of ESRCH error

send.2
  Michael Kerrisk
    Add mention of sendmmsg(2)

sync.2
  Michael Kerrisk [Simone Piccardi]
    PROTOTYPE: Fix return type of syncfs()

vfork.2
  Michael Kerrisk [starlight]
    Clarify what is duplicated in the child
      Add some words to make it clear to the reader that vfork(),
      like fork(), creates duplicates of process attributes
       in the child.
  Michael Kerrisk
    Note clone() flags equivalent to vfork()
  Michael Kerrisk [starlight, Mike Frysinger]
    Add some notes on reasons why vfork() still exists
  Michael Kerrisk [starlight]
    Clarify that calling *thread* is suspended during vfork()
  Michael Kerrisk
    CONFORMING TO: Note that POSIX.1-2001 marked vfork() obsolete

gets.3
  Michael Kerrisk
    Document C11 and glibc 2.16 changes affecting gets()

pthread_sigmask.3
  Michael Kerrisk [Pat Pannuto]
    Fix comment that was inconsistent with code in example program

sem_wait.3
  Walter Harms
    EXAMPLE: Remove extraneous line of output from shell session

wcsnrtombs.3
wcsrtombs.3
wcstombs.3
  Michael Kerrisk
    Fix-ups for e9c23bc636426366d659809bc99cd84661e86464

core.5
  Michael Kerrisk [Junjiro Okajima]
    Document %E specifier for core_pattern

passwd.5
  Michael Kerrisk [Walter Haidinger]
    s/asterisk/asterisk

(*)/ to improve clarity
  Michael Kerrisk
    Correct note on passwd field value when shadowing is enabled
      When password shadowing is enabled, the password field
      contains an 'x' (not '*').

proc.5
  Elie De Brauwer
    Fix description of fourth field of /proc/loadavg
      SIgned-off-by: Elie De Brauwer <eliedebrauwer@gmail.com>

resolv.conf.5
  Michael Kerrisk [Slaven Rezic]
    Describe syntax used for comments
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=656994

feature_test_macros.7
  Michael Kerrisk
    Document _ISOC11_SOURCE

inotify.7
  Michael Kerrisk [Yang Yang]
    Note that 'cookie' field is set to zero when unused

man.7
  Michael Kerrisk
    Various fixes for description of NAME section
      As noted by reporter:
      * The code sample given for the NAME section is incomplete because
        the actual content sample is not given.
      * Additionally, the description
 assumes that the item described is
        a command, which need not be the case.
      * The command makewhatis is not present on my system; the
        documented tool to create the whatis database is called mandb.
      * The description on .SH NAME in man(7) should either copy the
        relevant paragraph of lexgrog(1) or refer to it.

========== Changes in man-pages-3.37 ==========

Released: 2012-03-06, Christchurch

Contributors

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Apologies if I missed anyone!

New and rewritten pages
---

getent.1
  Mark R. Bannister

   New page to document 'getent' binary provided by glibc

Changes to individual pages
---

bdflush.2
  Michael Kerrisk
    Note that bdflush() is deprecated, and does nothing

nfsservctl.2
  Michael Kerrisk
    Note that this system call was removed in Linux 3.1

ptrace.2
  Denys Vlasenko [Oleg Nesterov, Tejun Heo]
    add extended description of various ptrace quirks
      Changes include:

      s/parent/tracer/g, s/child/tracee/g - ptrace interface now
      is sufficiently cleaned up to not treat tracing process
      as parent.

      Deleted several outright false statements:
      - pid 1 can be traced
      - tracer is not shown as parent in ps output
      - PTRACE_ATTACH is not "the same behavior as if tracee had done
        a PTRACE_TRACEME": PTRACE_ATTACH delivers a SIGSTOP.
      - SIGSTOP _can_ be injected.
      - Removed mentions of SunOS and Solaris as irrelevant.

- Added a few more known bugs.

Added a large block of text in DESCRIPTION which doesn't focus
on mechanical description of each flag and operation, but rather
tries to describe a bigger picture. The targeted audience is
a person which is reasonably knowledgeable in Unix but did not
spend years working with ptrace, and thus may be unaware of its
quirks. This text went through several iterations of review by
Oleg Nesterov and Tejun Heo.
This block of text intentionally uses as little markup as possible,
otherwise future modifications to it will be very hard to make.
Michael Kerrisk
Global clean-up of page
* Wording and formatting fixes to existing text and
Denys Vlasenko's new text.
* Various technical amendments and improvements to
Denys Vlasenko's new text.
* Added FIXME for various problems
with the current text.
Michael Kerrisk
Integrated changes after further review from Denys Vlasenko

syscalls.2
Michael Kerrisk
Note that nfsservctl(2) was removed in Linux 3.1
Note that bdflush(2) is deprecated

capabilities.7
Michael Kerrisk
Add CAP_WAKE_ALARM
Michael Kerrisk
Add various operations under CAP_SYS_ADMIN
Add perf_event_open(2) to CAP_SYS_ADMIN
Add VM86_REQUEST_IRQ vm86(2) command to CAP_SYS_ADMIN
Update CAP_NET_ADMIN with notes from include/linux/capability.h
Add nfsservctl(2) to CAP_SYS_ADMIN
Michael Kerrisk
Add ioctl(FIBMAP) under CAP_SYS_RAWIO
Michael Kerrisk
Add virtual terminal ioctl()s under CAP_SYS_TTY_CONFIG
Michael Kerrisk
Update CAP_NET_RAW with notes from include/linux/capability.h
Michael Kerrisk
Add F_SETPIPE_SZ case to CAP_SYS_RESOURCE
Add POSIX messages queues queues_max case to CAP_SYS_RESOURCE
Update
CAP_SYS_RESOURCE with notes from include/linux/capability.h
Michael Kerrisk

SEE ALSO: Add libcap(3)

ld.so.8
Michael Kerrisk
Add --audit command-line option

========== Changes in man-pages-3.38 ==========

Released: 2012-03-25, Christchurch

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Apologies if I missed anyone!

New and rewritten pages
---

get_nprocs_conf.3
Beas Petr
New page documenting get_nprocs_conf(3) and get_nprocs(3)

Michael Kerrisk
Some additions and improvements

malloc_get_state.3
Michael Kerrisk
New page documenting malloc_get_state(3) and malloc_set_state(3)

mallopt.3
Michael Kerrisk
New man page for mallopt(3)

mtrace.3
Michael Kerrisk
Complete rewrite of page, adding much more detail

scandirat.3
Mark R Bannister
New page for scandirat(3) (new in glibc 2.15)

Newly documented interfaces in existing pages
---

posix_memalign.3
Michael Kerrisk
Document aligned_alloc(3)
aligned_alloc() is new in C11.
Michael Kerrisk
Document pvalloc(3)

qsort.3
Mark R Bannister
Add documentation of qsort_r(3)
Ben Bacarisse
Improvements to Mark R Bannister's qsort_r() patch
Michael Kerrisk
Add VERSIONS section for qsort_r()

New and changed links
---

aligned_alloc.3
Michael Kerrisk
New link to posix_memalign.3

get_nprocs.3
Beas Petr

Link to new get_nprocs_conf.3 page

malloc_set_state.3
  Michael Kerrisk
    Link to new malloc_get_state.3 page

pvalloc.3
  Michael Kerrisk
    New link to posix_memalign.3

Global changes

Various pages
  Michael Kerrisk
    Global formatting fix: balance .nf/.fi pairs

Various pages
  Michael Kerrisk
    Global fix: place sections in correct order

Various pages
  Michael Kerrisk [Justin T Pryzby]
    Global fix: Remove duplicated words
      Remove instances of duplicate words found using Justin's
      grep-fu:

```
          for f in man?/*.[1-9]; do

              grep -HE ' ([[:alpha:]]{2,} +)\1' "$f" |
                  grep -Evw '(proc|hugetlbfs|XXX*|root|long) *\1';
          done | grep -E --colo ' ([[:alpha:]]{2,} +)\1'
```

Various pages
  Michael Kerrisk
    Correct order of SEE ALSO entries

Changes to individual pages
---

futimesat.2
  Michael Kerrisk
    PROTOTYPE: Correct header file and feature test macro requirements

keyctl.2
  Bjarni Ingi Gislason

Strip trailing tabs from source line
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=664688

ptrace.2
Denys Vlasenko
Document PTRACE_GETEVENTMSG for PTRACE_EVENT_EXEC
Denys Vlasenko
Various fixes to recent updates of this page

symlinkat.2
Michael Kerrisk [Eric Blake]
PROTOTYPE: Correct header file

syscalls.2
Michael Kerrisk
Remove unimplemented system calls from main syscall list
The unimplemented system calls are in any case noted lower
down
in the page. Also: rearrange the text describing the unimplemented
system calls.
Michael Kerrisk
Note a few system calls that were removed in Linux 2.6
Michael Kerrisk
Add process_vm_readv(2) and process_vm_writev(2)

unlinkat.2
Michael Kerrisk [Eric Blake]
PROTOTYPE: Correct header file
Michael Kerrisk
PROTOTYPE: Add <fcntl.h> for AT_* constants

utimensat.2
Michael Kerrisk
PROTOTYPE: Add <fcntl.h> for AT_* constants

copysign.3
Michael Kerrisk [Tolga Dalman]
DESCRIPTION: Add a couple of examples

malloc.3
Michael Kerrisk
NOTES: Add a short discussion of arenas
Michael Kerrisk
Replace discussion of MALLOC_CHECK_ with pointer to mallopt(3)
Michael Kerrisk
SEE ALSO: Add mtrace(3)
SEE ALSO: add malloc_get_state(3)

posix_memalign.3
  Michael Kerrisk
    Rename memalign() argument
      Rename "boundary" to "alignment" for consistency
       with posix_memalign().
  Michael Kerrisk
    Improve discussion of feature test macros and header files for valloc(3)

rtnetlink.3
  Kirill Brilliantov [Sergei Zhirikov]
    Fix example code, rta_len assignment should use RTA_LENGTH()
      See also http://bugs.debian.org/655088

scandir.3
  Mark R Bannister
    SEE ALSO: Add scandirat(3)

sigqueue.3
  Nix
    Remove rt_sigqueueinfo from TH line
      rt_sigqueueinfo() now has its own manual page, so should not
      be listed in the .TH line of this page.

tzset.3
  Peter Schiffer
    Correct description for Julian 'n' date format
      The Julian 'n' date format counts starting from 0, not 1.
  Michael Kerrisk
    Add some clarifying remarks to discussion of Julian day formats

packet.7
  Michael Kerrisk [Iain Fraser]
    Fix comment on 'sll_hatype' field

tcp.7
  Michael Kerrisk [Artyom Pervukhin]
    Correct RFC for TIME_WAIT assassination
 hazards

========== Changes in man-pages-3.39 ==========

Released: 2012-04-17, Christchurch

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Apologies if I missed anyone!

New and rewritten pages
---

malloc_trim.3
  Michael Kerrisk
    New man page for malloc_trim(3)

malloc_usable_size.3
  Michael Kerrisk
    New man page for malloc_usable_size(3)

Newly documented interfaces in existing pages
---

prctl.2
  Cyrill Gorcunov
    Document PR_SET_MM (new in Linux 3.3)
  Michael Kerrisk
    Various edits and improvements to Cyrill's patch

Changes to individual pages
---

epoll_create.2
  Michael Kerrisk
    Rework discussion of 'size' argument
  Michael Kerrisk
    Add .SS for description of epoll_create1()

epoll_wait.2
  Michael Kerrisk [Armin Rigo]
    Another thread can add to epoll instance while epoll_wait is blocked
      See https://bugzilla.kernel.org/show_bug.cgi?id=43072
   Michael Kerrisk
    Clarify that epoll_pwait() blocks calling *thread*
    A few wording improvements

fchmodat.2
  Michael Kerrisk [Mike Frysinger]
    Note difference between glibc wrapper and underlying system call
      The wrapper function has a 'flags' argument (which currently
      serves no purpose), while the underlying system call does not.

fcntl.2
  Abhijith Das
    Explain behaviour of F_GETLEASE during lease break
  Michael Kerrisk [Eric Blake]
    Change type of arg from "long" to "int"
      Various fcntl(2) commands require an integral 'arg'.
      The man page said it must be "long" in all such cases.
      However, for the cases covered by POSIX, there is an
      explicit requirement that these arguments be "int".
      Update the man page to reflect. Probably, all of the
      other "long" cases (not specified in POSIX) should

 be "int", and this patch makes them so. Based on a
      note fromEric Blake, relating to F_DUPFD_CLOEXEC.

gettimeofday.2
  Michael Kerrisk
    Reorganize content

The main change is to move the historical information about
the 'tz_dsttime' to NOTES.
Michael Kerrisk [Felix]
Note that compiler issues warnings if 'tv' is NULL

mmap.2
Michael Kerrisk [Kevin O'Gorman]
Clarify that this system call should not be invoked directly
See https://bugzilla.kernel.org/show_bug.cgi?id=42892
Michael Kerrisk
Clarify NOTES discussion of mmap() versus mmap2()

poll.2
Michael Kerrisk [Michael Welsh Duggan]
Document negative value in 'fd' field
Michael Kerrisk
Document semantics of passing zero in 'events' field

ptrace.2
Denys Vlasenko
Various fixes
For some reason, the PTRACE_TRACEME paragraph talks about some
general aspects of ptraced process behavior. It repeats
the
"tracee stops on every signal" information even though that was
already explained just a few paragraphs before. Then it describes
legacy SIGTRAP on execve().

This patch deletes the first part, and moves the second part up,
into the general ptrace description. It also adds
"If PTRACE_O_TRACEEXEC option is not in effect" to the description
of the legacy SIGTRAP on execve().

The patch also amends the part which says "For requests other
than PTRACE_KILL, the tracee must be stopped." - PTRACE_ATTACH
also doesn't require that.

sigaction.2
Michael Kerrisk [Andreas Jaeger,]
Clarify that the use of SI_SIGIO is for Linux 2.2 only
See also http://sourceware.org/bugzilla/show_bug.cgi?id=6745

sigprocmask.2
Mike Frysinger
ERRORS: add EFAULT

times.2
Michael Kerrisk [Simone Piccardi]

ERRORS: Add EFAULT

div.3
Michael
Kerrisk [Reuben Thomas]
CONFORMING TO: Add C99

fread.3
Regid Ichira
Clarify further that return value is number of items, not bytes
See also http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=665780

getaddrinfo.3
Michael Kerrisk [Jak]
Correct type of ai_addrlen field

malloc.3
Michael Kerrisk
SEE ALSO: add malloc_usable_size(3)
SEE ALSO: Add malloc_trim(3)

mallopt.3
Michael Kerrisk
Fix text describing M_PERTURB and free()
SEE ALSO: Add malloc_trim(3)

memchr.3
Michael Kerrisk [Reuben Thomas]
Remove mention of terminating null in description of rawmemchr()

perror.3
Michael Kerrisk [Jesus Otero]
Note that use of 'sys_errlist' is deprecated

rcmd.3
Michael Kerrisk
glibc eventually added a declaration of iruserok() in version 2.12

sysconf.3
Michael Kerrisk [Ricardo Catalinas Jiménez]
Add mention of _SC_SYMLOOP_MAX

nologin.5
Michael Kerrisk [Tetsuo
Handa]
nologin must not only exist, but *be readable* to be effective

nsswitch.conf.5

Mark R Bannister
Significant rewrites and improvements
This patch applies to nsswitch.conf.5 in man-pages-3.36.

My changes almost completely rewrite large sections of the
man page. They are needed to add clarity, correct grammar,
reduce confusion, and bring up-to-date with the latest glibc.
I have checked the man page against the nss source code in
glibc 2.14.90.

Historical notes are demoted to the footer.

The rewrite makes the man page much clearer to
understand, more authoratitive, and easier to read.
Michael Kerrisk
Light edits to Mark Bannister's changes

capabilities.7
Michael Kerrisk
Add prctl(PR_SET_MM) to CAP_SYS_RESOURCE

epoll.7
Michael Kerrisk
Some minor clarifications at start of DESCRIPTION

netlink.7
Jeff Mahoney
[Petr Gajdos]
Note cases where nonprivileged users can use netlink multicast groups
See also https://bugzilla.novell.com/show_bug.cgi?id=754611

unix.7
Michael Kerrisk [Tetsuo Handa]
Add a detail on autobind feature

ld.so.8
Jonathan Nieder [Reuben Thomas]
Document effect of hwcaps on search path
Wording by Aurelien Jarno from Debian glibc's r4701 (2011-06-04).

Addresses http://bugs.debian.org/622385

========== Changes in man-pages-3.40 ==========

Released: 2012-04-27, Christchurch

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Apologies if I missed anyone!

New and rewritten pages
---

process_vm_readv.2
  Mike Frysinger, Christopher Yeoh, Michael Kerrisk
    New page for process_vm_readv(2) and process_vm_writev(2)

mcheck.3
  Michael Kerrisk
    New man page for mcheck(3) and related functions
      Also describes mcheck_check_all(3), mcheck_pedantic(3),
      and mprobe(3)

Newly documented interfaces in existing pages
---

rcmd.3
   Michael Kerrisk
      Document "_af" variants of these functions
         Document rcmd_af(), rresvport_af(), iruserok_af(), ruserok_af().
         Also some restructuring and other clarifications.

rexec.3
   Michael Kerrisk
      Document rexec_af()

New and changed links
----

iruserok_af.3
rcmd_af.3
rresvport_af.3
ruserok_af.3
   Michael Kerrisk
      New links to rcmd.3

rexec_af.3
   Michael Kerrisk
      New link to rexec.3

Changes to individual pages
----

clock_getres.2
   Michael Kerrisk
      Clarify difference between CLOCK_MONOTONIC and CLOCK_MONOTONIC_RAW
         Note interactions of these two clocks with discontinuous
         adjustments to the system time and NTP/adjtime(2).

fallocate.2
   Michael Kerrisk [John Sullivan]
      Fix description of ENOSYS and EOPNOTSUP errors
         As reported in https://bugzilla.redhat.com/show_bug.cgi?id=680214

fchmodat.2
   Michael Kerrisk [Mike Frysinger]
      Improve discussion of difference between wrapper and underlying syscall

gettimeofday.2
   Michael Kerrisk
      gettimeofday() is affected by discontinuous jumps in the system time

Advise reader to use clock_gettime(2), if they need a
monotonically increasing time source.
Michael Kerrisk
SEE ALSO: Add clock_gettime(2)

prctl.2
Michael Kerrisk
Add PR_TASK_PERF_EVENTS_DISABLE and PR_TASK_PERF_EVENTS_ENABLE
Add some basic documentation of these operations, with a pointer to
tools/perf/design.txt for more information.
Michael Kerrisk [Marcel Holtmann]
Amend details of PR_SET_PDEATHSIG

ptrace.2
Michael Kerrisk [Mike Frysinger]
Note SPARC deviation with respect to get/set regs
SPARC reverses the use of 'addr' and 'data' for
PTRACE_GETREGS, PTRACE_GETFPREGS, PTRACE_SETREGS,
and PTRACE_SETFPREGS.

send.2

Stefan Puiu
Document EACCES error case for UDP

sigaction.2
Michael Kerrisk
Remove mention of raise(3) for SI_USER
For a long time now, glibc's raise(3) didn't yield SI_USER
for the signal receiver, so remove mention of raise(3)
here. The user can deduce the details, if needed, by looking
at the recently updated raise(3) page.

aio_cancel.3
Michael Kerrisk [Jon Grant]
Rewrite RETURN VALUE section to be clearer

aio_init.3
Michael Kerrisk [Jon Grant]
Remove extraneous "POSIX" from NAME section

btree.3
dbopen.3
hash.3
mpool.3
recno.3
Michael Kerrisk [Brian M. Carlson]
Note that glibc no longer provides these interfaces

glibc stopped providing these interfaces with v2.2.
Nowadays, the user that finds these pages probably wants
the libdb API, so note this in the page.

See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=337581

fopen.3
  Michael Kerrisk
    BUGS: Note limitation on number of flag characters parsed in 'mode'
  Michael Kerrisk
    Note that 'c' and 'e' flags are ignored for fdopen()
      Determined from reading libio/iofdopen.c.
  Michael Kerrisk
    Document ",ccs=string" feature of 'mode' for fopen()/freopen()

getgrnam.3
  Michael Kerrisk [Ulrich Drepper]
    Fix discussion of _SC_GETGR_R_SIZE_MAX
      The value is not meant to be a maximum (as was specified in
      SUSv3) but an initial guess at the required size
      (as specified in SUSv4).

getpwnam.3
  Michael Kerrisk [Ulrich Drepper]
    Fix discussion of _SC_GETPW_R_SIZE_MAX
      The value is not meant to be a maximum (as was specified in
      SUSv3) but an initial guess at the required size
      (as specified in SUSv4).

malloc.3
mallopt.3
mtrace.3
  Michael Kerrisk
    SEE ALSO: add mcheck(3)

memchr.3
  Michael Kerrisk
    Clarify description, omitting
 mention of "strings" and "characters"
      The existing text slipped into talking about characters and
      strings, which could mislead readers into thing that, for
      example, searches for the byte '\0' are treated specially.
      Therefore, rewrite in terms of "bytes" and "memory areas".

      At the same time, make a few source file clean-ups.

mkstemp.3
  Michael Kerrisk

Add "mkstemps" and "mkostemps" to NAME line

posix_openpt.3
  Michael Kerrisk [Vadim Mikhailov]
    Add some details on use of the slave pathname
      An explicit pointer to ptsname(3) is useful, as is a note
      of the fact that the slave device pathname exists only as
      long as the master device is held open.

raise.3
  Michael Kerrisk
    Add some notes on underlying system call that is used

rcmd.3
  Michael Kerrisk
    Add some details of the rresvport() 'port' argument

resolver.3
  Petr Baudis
    Note that
 many options are documented in resolv.conf(5)

scandir.3
  Michael Kerrisk [Daniel J Blueman]
    Improve EXAMPLE source code: s/0/NULL/ in scandir() call

strchr.3
  James Hunt
    Explain behavior when searching for '\0'

strerror.3
  Eric Blake [Stefan Puiu]
    Improve strerror_r() description
      POSIX requires that perror() not modify the static storage
      returned by strerror(). POSIX 2008 and C99 both require that
      strerror() never return NULL (a strerror() that always
      returns "" for all inputs is valid for C99, but not for POSIX).

      http://sourceware.org/bugzilla/show_bug.cgi?id=12204
      documents glibc's change to come into compliance with POSIX
      regarding strerror_r() return value. The GNU strerror_r() use
      of 'buf' was confusing - I ended up writing a test program that
      proves that 'buf' is unused for valid 'errnum', but contains
      truncated "unknown
 message" for out-of-range 'errnum'.

      See also http://austingroupbugs.net/view.php?id=382
  Bernhard Walle

Correct description of error return for XSI strerror_r()
Michael Kerrisk [Eric Blake]
Note how to use 'errno' to detect errors when calling strerror()
Michael Kerrisk [Jon Grant]
Add an example of the kind of string returned by strerror()

resolv.conf.5
Petr Baudis
Document "single-request" option

inotify.7
Michael Kerrisk
Note buffer size that guarantees being able to read at least one event
James Hunt
Correct description of size of inotify_event structure

iso_8859-1.7
Eugen Dedu
Add "-" for SOFT HYPHEN
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=156154

netdevice.7
Brian F. G. Bidulock
Document some SIOC configuration ioctls
This patch adds common but missing SIOC configuration ioctls to
the netdevice.7 manual pages that are
not documented anywhere
else. SIOCSIFPFLAGS and SIOCGIFPFLAGS are linux-specific. Flag
values come from Linux 2.6.25 kernel headers for sockios. The
others are standard BSD ioctls that have always been implemented
by Linux and were verified from inspecting netdevice.c kernel
code.

socket.7
Michael Kerrisk [Alexey Toptygin]
Correct description of SO_BROADCAST

tcp.7
lepton
Correct description for TCP_MAXSEG on modern kernel

========== Changes in man-pages-3.41 ==========

Released: 2012-05-11, Christchurch

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Apologies if I missed anyone!

New and rewritten pages
---

get_robust_list.2
  Ivana Varekova [Michael Kerrisk]
     New page documenting get_robust_list(2) and set_robust_list(2)

mallinfo.3
  Michael Kerrisk [KOSAKI Motohiro, Paul Pluzhnikov]
     New page for mallinfo(3)

malloc_info.3
  Michael Kerrisk [Jakub Jelinek]
     New page for malloc_info(3)

malloc_stats.3
  Michael Kerrisk [KOSAKI Motohiro]
     New man page for malloc_stats(3)

Newly documented interfaces in existing pages
---

madvise.2
  Jason Baron
     Document MADV_DONTDUMP and MADV_DODUMP

New and changed links
---

set_robust_list.2
  Michael Kerrisk
     New link to new get_robust_list.2 page

LIST_ENTRY.3
LIST_HEAD.3
LIST_INIT.3
LIST_INSERT_AFTER.3
LIST_INSERT_HEAD.3
LIST_REMOVE.3
TAILQ_ENTRY.3
TAILQ_HEAD.3
TAILQ_INIT.3
TAILQ_INSERT_AFTER.3
TAILQ_INSERT_HEAD.3
TAILQ_INSERT_TAIL.3
TAILQ_REMOVE.3
CIRCLEQ_ENTRY.3
CIRCLEQ_HEAD.3

CIRCLEQ_INIT.3
CIRCLEQ_INSERT_AFTER.3
CIRCLEQ_INSERT_BEFORE.3
CIRCLEQ_INSERT_HEAD.3
CIRCLEQ_INSERT_TAIL.3
CIRCLEQ_REMOVE.3
  Michael Kerrisk
    New link to queue.3
      The queue(3) page documents these macros, so it makes sense to
      have links for the names.

DES_FAILED.3
  Michael Kerrisk
    New link to des_crypt.3
      The des_crypt(3) page documents this macro, so it makes sense
      to have a link for the name.

qsort_r.3
  Michael Kerrisk
    New link to qsort.3
      Overlooked to add this link in 3.38, when documentation of
      qsort_r() was added to the qsort.3 page.

Global changes
---

faccessat.2
fchmodat.2
fchownat.2
fstatat.2
futimesat.2
inotify_init.2
linkat.2
mkdirat.2
mknodat.2
openat.2
readlinkat.2
renameat.2
setns.2
splice.2
symlinkat.2
sync.2
tee.2
unlinkat.2
vmsplice.2
  Michael Kerrisk [Lauri Kasanen]

Global fix: note glibc version that added library support

confstr.3
strcasecmp.3
strcat.3
strcmp.3
strcpy.3
strdup.3
strftime.3
strlen.3
strnlen.3
strpbrk.3
strspn.3
strtok.3
strxfrm.3
  Michael Kerrisk [Andries E. Brouwer]
    Clarify that these functions operate on bytes, not (wide) characters
      Change 'character(s)' to 'byte(s)' to make clear that these
      functions operate on bytes, not wide / UTF8 characters.
      (POSIX uses 'byte(s)' similarly, to make this point.)

icmp.7
ipv6.7
packet.7
raw.7
rtnetlink.7
unix.7
x25.7
  Michael Kerrisk
    Remove names of constants from NAME line
      Some of the sockets/network protocol pages included names of
      the corresponding address family constants in the NAME line,
      but this wasn't done consistently across all pages, and probably
      it adds little value in those pages that did do this. So, remove
      these constants from those pages that have
 them in the NAME
      section.

Changes to individual pages
---

clock_getres.2
  Michael Kerrisk [Josh Triplett]
    Expand description of CLOCK_REALTIME
      Make it clear that this clock may be discontinuous, and is
      affected my incremental NTP and clock-adjtime(2) adjustments.

See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=540872

epoll_wait.2
  Michael Kerrisk
    Clarify that 'timeout' is a *minimum* interval
      Make it clear that 'timeout' is a minimum interval; the actual
      interval will be rounded up to the system clock granularity,
      and may overrun because of kernel scheduling delays.

execve.2
  Michael Kerrisk
    Rewording to deemphasize libc5 details

fork.2
  Mike Frysinger
    ERRORS: add ENOSYS
      Can occur on, for example, non-MMU hardware.

getcpu.2
  Mike Frysinger
    Add RETURN VALUE and ERRORS sections
  Michael Kerrisk
     Refer reader to NOTES for more info about 'tcache'
  Michael Kerrisk
    DESCRIPTION: reword a sentence to be clearer

io_cancel.2
io_destroy.2
io_getevents.2
io_setup.2
io_submit.2
  Michael Kerrisk
    Rewrite to focus on system call API
      Rewrite to focus on the system call interface, adding
      some notes on the libaio wrapper differences.
      See the following mail:
      2012-05-07 "aio manuals", linux-man@vger
      http://thread.gmane.org/gmane.linux.man/1935/focus=2910

      Other minor rewrites.

mount.2
  Michael Kerrisk
    Comment out an old Linux libc detail

open.2
  Nick Piggin [KOSAKI Motohiro, Jan Kara, Hugh Dickins]
    Describe race of direct I/O and fork()

Rework 04cd7f64, which didn't capture the details correctly.
See the April/May 2012 linux-man@ mail thread "[PATCH]
Describe race of direct read and fork for unaligned buffers"
http://thread.gmane.org/gmane.linux.kernel.mm/77571

poll.2
Michael Kerrisk
Clarify that 'timeout' is a *minimum* interval
Make it clear that 'timeout' is a minimum interval; the actual
interval will be rounded up to the system clock granularity,
and may overrun because of kernel scheduling delays.
Michael Kerrisk
Clarify discussion of wrapper function emulation
Clarify that glibc (as well as old libc) provides emulation
using select(2) on older kernels that don't have a poll()
system call.
Michael Kerrisk
Make the meaning of a zero timeout explicit
Clarify that timeout==0 causes an immediate return, even if
no file descriptors are ready.

pread.2
Michael Kerrisk [Kasper Dupont]
BUGS: Note O_APPEND + pwrite() does the wrong thing
See https://bugzilla.kernel.org/show_bug.cgi?id=43178

recvmmsg.2
Michael Kerrisk
Clarify that 'timeout'
is a *minimum* interval
Make it clear that 'timeout' interval will be rounded up to the
system clock granularity, and may overrun because of kernel
scheduling delays.

select.2
Michael Kerrisk
Clarify that 'timeout' is a *minimum* interval
Make it clear that 'timeout' is a minimum interval; the actual
interval will be rounded up to the system clock granularity,
and may overrun because of kernel scheduling delays.
Michael Kerrisk
Expand description of the self-pipe trick
Michael Kerrisk
Add further details on pselect6() system call that underlies pselect()

semop.2
Michael Kerrisk
Clarify that 'timeout' of semtimedop() is a *minimum* interval

Make it clear that 'timeout' interval will be rounded up to the
system clock granularity, and may overrun because of kernel
scheduling delays.

signal.2
Michael Kerrisk
Note that 'sig_t'
requires _BSD_SOURCE
Also remove some old Linux libc details

sigwaitinfo.2
Michael Kerrisk
Clarify that 'timeout' of sigtimedwait() is a *minimum* interval
Make it clear that 'timeout' is a minimum interval; the actual
interval will be rounded up to the system clock granularity,
and may overrun because of kernel scheduling delays.

stat.2
Bjarni Ingi Gislason
Formatting fixes
From "groff -ww" (or "man --warnings=w ..."):

warning: around line 442: table wider than line width

GNU man uses line length of 78.

Use text blocks. Two spaces between sentences or better: start
each sentence in a new line.

syscalls.2
Bjarni Ingi Gislason
Formatting fixes
From "groff -ww ..." (or "man --warnings=w ..."):

warning: around line 157: table wider than line width

Have to use text blocks. Move some text
to its correct column.
Split text to two columns to avoid hyphenation.

sysinfo.2
Michael Kerrisk
Remove reference to obsolete libc5

syslog.2
Michael Kerrisk
Remove some details about obsolete Linux libc

aio_cancel.3
aio_error.3
aio_fsync.3
aio_read.3
aio_return.3
aio_suspend.3
aio_write.3
  Michael Kerrisk
    ERRORS: Add/update ENOSYS error

aio_cancel.3
  Michael Kerrisk
    Clarify what happens when a request isn't successfully canceled
  Michael Kerrisk
    Add pointers to aio(7) and sigevent(7)

dbopen.3
  Michael Kerrisk
    SYNOPSIS: Add header file <fcntl.h>
      Upstreamed from Debian, and consistent with FreeBSD
      dbopen(3) man page.

fmemopen.3
  Michael Kerrisk
    Note details of POSIX.1-2008 specification of 'b' in 'mode'
  Michael Kerrisk [Rich Felker]
    BUGS: fmemopen() doesn't correctly set file position in some cases
      If 'mode' is append, but 'size' does not cover
 a null byte
      in 'buf', then fmemopen() incorrectly sets the initial file
      position to -1, rather than the next byte after the end of
      the buffer.

      See http://sourceware.org/bugzilla/show_bug.cgi?id=13151
  Michael Kerrisk
    BUGS: fmemopen() incorrectly handles size==0 case
      If size is zero, fmemopen() fails, This is surprising behavior,
      and not specified in POSIX.1-2008.

      See http://sourceware.org/bugzilla/show_bug.cgi?id=11216

      Reported-by; Alex Shinn <alexshinn@gmail.com>
  Michael Kerrisk
    BUGS: Note silent ABI change for fmemopen() in glibc 2.9
  Michael Kerrisk [Rich Felker]
    BUGS: Append mode does not force writes to append
      Append mode correctly sets the initial offset but does
      not force subsequent writes to append at end of stream.

See http://sourceware.org/bugzilla/show_bug.cgi?id=13152
Michael Kerrisk [Eric Blake]

BUGS: Note inconsistent treatment of 'b' in 'mode'
fopen() permits, for example, both "w+b" and "wb+",
but only the latter is meaningful to fmemopen().

See http://sourceware.org/bugzilla/show_bug.cgi?id=12836

fopencookie.3
Michael Kerrisk [Petr Baudis]
Correct description of return for user-supplied 'write' function
See http://sourceware.org/bugzilla/show_bug.cgi?id=2074

getaddrinfo.3
Jean-Michel Vourgère
Note that AI_ADDRCONFIG is not affected by loopback addresses
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=660479

iconv.3
Michael Kerrisk
Upstream useful NOTE from Debian
Warn the reader that the pointer arguments can't be
interpreted as C style strings. Also, note possible
alignment requirements for the referenced bytes sequences,
Michael Kerrisk
Write a better paragraph introducing iconv() and its arguments

isgreater.3

Michael Kerrisk [Vincent Lefevre]
Clarify that the arguments to these macros must be real-floating
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=609033

lio_listio.3
Michael Kerrisk
Clarify that async notification occurs when *all* I/Os complete

makedev.3
Michael Kerrisk
SYNOPSIS: Correct return types of major() and minor()
See https://bugzilla.redhat.com/show_bug.cgi?id=754188

Reported-by; Zdenek Kabelac <zkabelac@redhat.com>

malloc.3
Michael Kerrisk

SEE ALSO: Add malloc_info(3)

malloc_get_state.3
Michael Kerrisk
Fix wordos in function names in NAME line

mallopt.3
Michael Kerrisk
Fix example program
The example code was a version that was not consistent with
the shell output shown on the page.

Reported-bY: Simon Paillard <spaillard@debian.org>
Michael Kerrisk
Restore accidentally omitted line in shell session
Michael
Kerrisk
SEE ALSO: Add malloc_stats(3)

mmap64.3
Michael Kerrisk
Change target of link to mmap.2 (was mmap2.2)
Upstreamed from Red Hat / Fedora

realpath.3
Michael Kerrisk [Casper Dik]
Remove note about Solaris possibly returning a relative path

syslog.3
Michael Kerrisk [Ralph Corderoy]
Document behavior when 'ident' argument to openlog() is NULL
See https://bugs.launchpad.net/ubuntu/+source/manpages/+bug/382096
Michael Kerrisk
Update CONFORMING TO for POSIX.1-2008
POSIX.1-2008 doesn't change any details, but make
that more explicit.

undocumented.3
Michael Kerrisk
Remove some functions that have been documented

sd.4
Michael Kerrisk
Remove reference to nonexistent scsi(4) page
Upstreamed from RedHat / Fedora

sk98lin.4
Michael Kerrisk [Stephen Hemminger]

Note that this driver was removed in 2.6.28
See https://bugs.launchpad.net/ubuntu/+source/manpages/+bug/528020

passwd.5
Michael Kerrisk
Upstream pieces from Red Hat/Fedora
Note mention of empty password field.
Add description of "*NP*" in password field.
Michael Kerrisk
Various minor fixes and improvements

proc.5
Michael Kerrisk
Note that CAP_SYS_ADMIN processes can override file-max
Upstreamed from red Hat / Fedora
Michael Kerrisk
Document /proc/[pid]/cgroup
Upstreamed from Red Hat / Fedora

resolv.conf.5
Michael Kerrisk
Take a Debian improvement into upstream

tzfile.5
Michael Kerrisk
Mention timezone directories in DESCRIPTION
Note that timezone files are usually in /usr/lib/zoneinfo
or /usr/share/zoneinfo.
Michael Kerrisk
Drop SYNOPSIS
The SYNOPSIS doesn't correspond to a user-visible file.
Michael Kerrisk
SEE ALSO: Add pointer to glibc source file timezone/tzfile.h
Michael Kerrisk
SEE ALSO: add tzset(3) and tzselect(8)

ascii.7
Bjarni Ingi Gislason
Indent for "troff" makes table too wide
Fix following from "groff -t -ww ...":

warning: around line 53: table wider than line width

Extra indent for "troff" makes the table look misplaced
(default "ps" output).

cp1251.7
Bjarni Ingi Gislason

table too wide
From "nroff -ww -t ...":

warning: around line 44: table wider than line width

Columns are made narrower (column gutter decreased).

ipv6.7
Stefan Puiu
Add ENODEV error for bind() to link-local IPv6 address

signal.7
Michael Kerrisk [Simone Piccardi]
Clarify that SIGLOST is unused
Michael Kerrisk
Comment out crufty BUGS text on SIGLOST
It must be a very long time since the statement there
about SIGLOST was true. (The text seems to date back to
1996.)
Michael Kerrisk
Update architectures for tables of signal numbers

utf-8.7
Brian M. Carlson
Two clarifications
This patch clarifies that 0xc0 and 0xc1 are not valid in any UTF-8
encoding[0], and it also references RFC 3629 instead of RFC 2279.

[0] In order to have 0xc0, you'd have to have a two-byte encoding
with all the data bits zero in the first byte (and thus only six
bits of data), which would be an ASCII character encoded in the
non-shortest form. Similarly with 0xc1.

See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=538641

ldconfig.8
nscd.8
Michael Kerrisk
Remove path prefix from NAME line
Command names shown in NAME are normally just the basename,
not the full pathname of the command.

========== Changes in man-pages-3.42 ==========

Released: 2012-08-14, Konolfingen

Contributors

The following
 people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

Global changes

Various pages
  Sami Kerola
    Global fix: use UR macro where applicable
      The syntax .UR http://example.com paired with .UE will create
      links which one can interact, if the pager allows that. One

way to see the effect is ask the man(1) command to use browser
display, e.g.:

man -H man7/uri.7

("\:" is optional groff syntax to permit hyphenless line breaks.)

Changes to individual pages
---

ldd.1
Michael Kerrisk
Add security note on untrusted executables
See also http://www.catonmat.net/blog/ldd-arbitrary-code-execution/
and
http://tldp.org/HOWTO/Program-Library-HOWTO/shared-libraries.html

clone.2
Michael Kerrisk
Rewrite discussion of sys_clone

futex.2

Consolidate error descriptions to ERRORS
Michael Kerrisk
Various wording fix-ups
Michael Kerrisk
Fix description of EINVAL error
The current text seems incorrect. Replace with a more general
description.

getdents.2
select_tut.2
atof.3
atoi.3
pthread_create.3
pthread_sigmask.3
rtime.3
setbuf.3
tsearch.3
netlink.7
Michael Kerrisk [Jan Engelhardt]
Remove unneeded casts

get_robust_list.2
get_thread_area.2
getcpu.2

getdents.2
gettid.2
io_cancel.2
io_destroy.2
io_getevents.2
io_setup.2
io_submit.2
ioprio_set.2
kexec_load.2
llseek.2
modify_ldt.2
mq_getsetattr.2
pivot_root.2
readdir.2
rt_sigqueueinfo.2
set_thread_area.2
sgetmask.2
spu_create.2
spu_run.2
subpage_prot.2
sysctl.2
tkill.2
  Michael Kerrisk
    Add note to SYNOPSIS that there is no glibc wrapper for system call
      Reduce the chance that the reader
 may be misled into thinking
      that there is a wrapper function for this system call by noting
      explicitly in the SYNOPSIS that there is no glibc wrapper and
      pointing the reader to NOTES for further details.

ioprio_set.2
  Colin McCabe
    Clarify the multithreaded behavior of ioprio_set(2)
  Michael Kerrisk [, Kalle Olavi Niemitalo]
    Document who==0 for IOPRIO_WHO_PROCESS and IOPRIO_WHO_PGRP
      For IOPRIO_WHO_PROCESS, who==0 means operate on the caller.
      For IOPRIO_WHO_PGRP, who==0 means operate on the caller's
      process group.

      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=652443

migrate_pages.2
  Michael Kerrisk [Christoph Lameter, JoonSoo Kim]
    Fix description of return value

mount.2
  Michael Kerrisk
    For MS_REMOUNT, source is ignored

mprotect.2
  Michael Kerrisk [Rasmus Villemoes]
    'addr' argument is not const
      As reported by Rasmus:

        Both my system's man-pages (3.22) and the latest online
        (3.41) show:

          int mprotect(const void *addr, size_t len, int prot);

        as the prototype for mprotect(2). However, POSIX [1] and the
        actual sys/mman.h (on all the systems I checked) do not have
        the const qualifier on the first argument.

msgctl.2
semctl.2
shmctl.2
svipc.7
  Michael Kerrisk
    Don't mention that ipc_perm is defined in <sys/ipc.h>
      There's no need to mention that the 'ipc_perm' structure
      is defined in <sys/ipc.h>. That's an implementation detail,
      and furthermore <sys/ipc.h> is itself included by the other
      System V IPC header files. The current text might lead the
      reader to conclude that they must include <sys/ipc.h>, which
      is not the case (it is required neither on Linux, nor by the
      standards).

msgctl.2
msgget.2
msgop.2
semctl.2
semget.2
semop.2
shmctl.2
shmget.2
   Michael Kerrisk
    NOTES: <sys/types.h> and <sys/ipc.h> aren't strictly needed
      Add text to NOTES to say that the <sys/types.h> and <sys/ipc.h>
      header files aren't required by Linux or the standards, but may
      be needed for portability to old systems.

ptrace.2
  Denys Vlasenko
    Explain WNOHANG behavior and EINTR bug
      I didn't like the "SIGKILL operates similarly, with exceptions"
      phrase (if it's different, then it's not "similar", right?),

and now I got around to changing it. Now it says simply:
"SIGKILL does not generate signal-delivery-stop and therefore
the tracer can't suppress it."

Replaced "why WNOHANG is not reliable" example with a more
realistic one (the one which actually inspired to add this
information to man page in the first place): we got
ESRCH - process is gone! - but waitpid(WNOHANG)
can still
confusingly return 0 "no processes to wait for".

Replaced "This means that unneeded trailing arguments may
be omitted" part with a much better recommendation
to never do that and to supply zero arguments instead.
(The part about "undocumentedness" of gcc behavior was bogus,
btw - deleted).

Expanded BUGS section with the explanation and an example
of visible strace behavior on the buggy syscalls which
exit with EINTR on ptrace attach. I hope this will lead
to people submitting better bug reports to lkml about
such syscalls.

seteuid.2
Michael Kerrisk
Note glibc version where setegid() implementation changed
In glibc 2.2/2.3, setegid() switched from setregid() to setresgid().

set_tid_address.2
Michael Kerrisk
Rename 'ctid' argument for consistency with clone(2) page
Michael Kerrisk
Some
rewordings and minor clarifications

sigwaitinfo.2
Michael Kerrisk [Daniel Zingaro]
Some wording clarifications
Mainly rewording things like "is delivered" to "becomes pending",
which is more accurate terminology.

syscall.2
Michael Kerrisk
Add some more details to the description of syscall(2)
And add another example of using syscall() to the program example.

syscalls.2
Michael Kerrisk

Add kcmp(2)
Michael Kerrisk
Move discussion of set_zone_reclaim(2) out of main table
This system call was never visible to user space, so it makes
sense to move it out of the main table of system calls into
the notes below the table.

getifaddrs.3
Michael Kerrisk [Adrian Dabrowski]
Note that ifa_addr and ifa_netmask can be NULL

readdir.3
Michael Kerrisk [Jan Engelhardt]
Handle -1 error from pathconf() in example code snippet
Improve the example
demonstrating allocation of a buffer
for readdir_r() to handle -1 error return from pathconf().
Otherwise, naive readers may think that pathconf() return
value can be used without checking.

realpath.3
Shawn Landden
Use past tense with ancient history (libc4, libc5)

regex.3
Michael Kerrisk
Correct SEE ALSO reference to glibc manual "regex" section

rtime.3
Michael Kerrisk [Jan Engelhardt]
Fix broken pointer cast in example code

sem_close.3
sem_destroy.3
sem_getvalue.3
sem_init.3
sem_open.3
sem_post.3
sem_unlink.3
sem_wait.3
sem_overview.7
Michael Kerrisk
Note that "cc -pthread" is required; "-lrt" no longer works
See https://bugs.launchpad.net/ubuntu/+source/manpages/+bug/874418

sigwait.3
Michael Kerrisk
Reword "is delivered" to "becomes pending"

strcat.3
  Michael Kerrisk
    Add some text to emphasize the dangers of buffer overruns
  Michael Kerrisk
    NOTES:
 Add discussion of strlcat()

strcpy.3
  Michael Kerrisk
    Note that info is lost when strncpy() doesn't null terminate
  Michael Kerrisk
    Add some text to emphasize possibility of buffer runs with strcpy()
  Michael Kerrisk
    NOTES: Add a discussion of strlcpy()
      Inspired by https://lwn.net/Articles/506530/
  Michael Kerrisk
    Fix description of the null-byte padding performed by strncpy()

tsearch.3
  Michael Kerrisk
    NOTES: remove redundant discussion of unorthodox use of term "postorder"
      This point is already covered at greater length in the main
      text of the page (See the piece "More commonly, ...").
  Michael Kerrisk
    Clarify use for first argument to the twalk() 'action' function
      There's a number of details in POSIX that are omitted in
      the current version of this page.
  Michael Kerrisk
    Some wording fixes

core.5
  Michael Kerrisk
    Note effect of madvise(2)
 MADV_DONTDUMP flag

capabilities.7
  Michael Kerrisk
    Document CAP_BLOCK_SUSPEND

glob.7
  Bjarni Ingi Gislason
    Change 8 bit characters to 7 bit representation
      Fixes rendering errors for accented 'a' characters.
  Michael Kerrisk [Aaron Peschel]
    Update bash(1) command used to obtain classical globbing behavior
      The man page formerly noted the bash(1) v1 command to do this.

iso_8859-1.7
  Bjarni Ingi Gislason
    Explanation of SOFT HYPHEN and the code for it
      <groff: iso_8859-2.7>:89: warning: can't find special character `shc'

      This is the only "iso_8859-*.7" file that has this (now)
      undefined character. The code in column four in "iso_8859-1.7" is
      "0x2D" ("HYPHEN, MINUS SIGN" or "HYPHEN-MINUS") instead of "0xAD".
      See Debian bug 156154 (or package "manpages").

      There should be an explanation for this graphic character and the
      code should
 be 0xAD in iso_8859-1.7 (as in all others), even
      though "[gn]roff" does not display a "HYPHEN" in that position of
      the table.

      The line with "SOFT HYPHEN" gets a footnote and a short
      explanation.

mdoc.7
  Bjarni Ingi Gislason
    Fixing a warning and a table
      Fis warning from "groff -ww ..." (or "man --warnings=w ..."):

        <groff: mdoc.7>:294: warning:
        tab character in unquoted macro argument

      In one table the distance between columns is too small in the
      "ps" output. (Bug in the groff "doc.tmac" macro?)

mdoc.samples.7
  Bjarni Ingi Gislason
    Fix warnings from [ng]roff, corrections
      From "man -ww ..." (groff -ww ...):

        <standard input>:541: warning:
        tab character in unquoted macro argument
        [+3 similar warnings]
        <standard input>:813: warning: macro `Pu' not defined
        Usage:
 .Rv -std in sections 2 and 3 only (#1669)
        mdoc warning: A .Bl directive has no matching .El (#1821)

      String "Pu" defined as a row of punctuation characters.
      ".Bl" and ".El" fixed.
      Some arguments, that start with a period or are the name of a
      macro, protected with "\&".
      Variable name for macro ".Rv" corrected.

netdevice.7
  Bjarni Ingi Gislason
    Line in table too long
      Fix warning from "man ..." ("nroff -ww ..."):

        nroff: netdevice.7: warning: around line 98:
        table wider than line width

      Fix: No right adjustment in text blocks in tables.

      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=673873

netlink.7
  Bjarni Ingi Gislason
    Line in table is too long
      Fix warning from "man ..." ("nroff -ww ..."):

        nroff: netlink.7: warning: around line 195:
        table wider than line width

     Horizontal line incorporated into table.
      No right adjustment of text blocks in tables.

      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=673875
  Simon Paillard [Herbert Xu]
    Change description of "*_pid" fields to "Port ID"
      As reported by Herbert Xu, these should not be considered as PIDs.

      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=383296

rtnetlink.7
  Bjarni Ingi Gislason
    Line in table too long
      Fix warning from "man ..." ("nroff -ww ..."):

        nroff: rtnetlink.7: warning: around line 415:
        table wider than line width

      Column gutter reduced to fit line length.
      Right adjustment in text blocks removed in tables.
      Some header made centered in tables.
      One table put on same page.

      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=674051

socket.7

Martin H
Document SO_MARK socket option

Commit 4a19ec5800fc3bb64e2d87c4d9fdd9e636086fe0 in Jan 2008 added
the new SO_MARK socket option.

This patch is based on text from the commit message.

See https://bugzilla.kernel.org/show_bug.cgi?id=16461.

svipc.7
Michael Kerrisk
SYNOPSIS: Remove include of <sys/types.h> and <sys/ipc.h>
Including <sys/types.h> and <sys/ipc.h> isn't needed on Linux
and isn't really relevant for the explanation on this page.

========== Changes in man-pages-3.43 ==========

Released: 2012-10-05, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

getenv.3
  Michael Kerrisk [Florian Weimer, Andreas Schwab]
    Document secure_getenv(3)

New and changed links
---

phys.2
  Michael Kerrisk
    New link to unimplemented.2

secure_getenv.3
  Michael Kerrisk
    New link to getenv.3

Global changes

Various pages
  Michael Kerrisk
    Global fix: s/-/\\-/ when real hyphen is required (e.g., in code)

Various pages
  David Prévot [Michael Kerrisk]
    Global fix: Various consistency
 fixes for SEE ALSO

Various pages
  Michael Kerrisk
    Global fix: use "Linux kernel source" consistently
      Rather than "kernel source".

Various pages
  Michael Kerrisk
    Global fix: disable justification and hyphenation in SEE ALSO
      For a better visual result, disable justification and hyphenation
      in SEE ALSO where page names are long.

syscalls.2
uname.2
boot.7

Michael Kerrisk
Global fix: s/OS/operating system/

Changes to individual pages
---

epoll_wait.2
Michael Kerrisk [Fredrik Arnerup]
Describe timeout limitation in kernels < 2.6.37
As reported by Fredrik (and as far as I can tell the problem
went back to 2.6.0):

The timeout argument has an upper limit. Any values above that
limit are treated the same as -1, i.e. to wait indefinitely.
The limit is given by:

#define EP_MAX_MSTIMEO min(1000ULL * MAX_SCHEDULE_TIMEOUT
/ HZ, \
(LONG_MAX - 999ULL) / HZ)

That is, the limit depends on the size of a long and the timer
frequency. Assuming the long is never smaller than 32 bits
and HZ never larger than 1000, the worst case is 35 minutes.
I think this should be mentioned under "BUGS".

Although this is likely to be fixed in the future
(http://lkml.org/lkml/2010/8/8/144), the problem exists in
at least 2.6.14 - 2.6.35. I don't know if select(2) and poll(2)
are affected.

https://bugzilla.kernel.org/show_bug.cgi?id=20762
Michael Kerrisk
Add pointer to select(2) for discussion of close in another thread

getitimer.2
Michael Kerrisk [Trevor Woerner]
Note Linux's odd handling of the new_value==NULL case
Michael Kerrisk [Trevor Woerner]
Fix types used to declare fields in timeval struct

keyctl.2
David Prévot
Reorder SEE ALSO,
without .br

poll.2
Michael Kerrisk

Add pointer to select(2) for discussion of close in another thread

select.2
Michael Kerrisk [Stephane Fillod]
Note behavior if monitored file descriptor is closed in another thread
Executive summary: a sane application can't rely on any
particular behavior if another thread closes a file descriptor
being monitored by select().

See https://bugzilla.kernel.org/show_bug.cgi?id=40852
Michael Kerrisk
Clarify equivalent pselect() code in terms of threads
s/sigprogmask/pthread_sigmask/

semop.2
Michael Kerrisk
Recast discussion of blocking behavior in terms of threads
semop() blocks the calling thread, not the process.
Michael Kerrisk
SEE ALSO: Add clone(2)
Give reader a clue about CLONE_SYSVSEM.

shutdown.2
Michael Kerrisk [Eric Dumazet]
Document EINVAL error (and associated bug)
Eric
Dumazet noted that EINVAL was not documented. Some further
digging shows that it's also not diagnosed consistently.
See https://bugzilla.kernel.org/show_bug.cgi?id=47111.

sigaction.2
Michael Kerrisk
Tweak SA_RESETHAND description

timer_settime.2
Michael Kerrisk
Small rewording around discussion of pointer arguments

wait4.2
Adrian Bunk
Note that these functions are nonstandard and recommend alternatives
Some edits to Adrian's patch by mtk.
Michael Kerrisk
CONFORMING TO: Note SUS details for wait3()

gnu_get_libc_version.3
Michael Kerrisk
Remove unneeded "#define _GNU_SOURCE" from SYNOPSIS

pthread_kill.3
pthread_sigqueue.3
  Michael Kerrisk
    Remove wording "another"
      Writing "another thread" in these pages implies that these
      functions can't be used to send a signal to the calling thread
      itself, which is of course untrue.

sigvec.3
  Michael
 Kerrisk
    Add "int" arg to sv_handler definition in sigvec structure
  Michael Kerrisk
    Fix small error in discussion of blocking of signals
      The signal that causes the handler to be invoked is blocked,
      but saying "by default" implies that this can be changed via
      the API. It cannot. (One needs sigaction(2) for that.)

syslog.3
  Simon Josefsson
    Remove (apparently bogus) text claiming LOG_AUTH is deprecated
      LOG_AUTH is in POSIX, and widely available. There
      seems to be no basis to the claim it is deprecated.

      Quoting Simon:
        I cannot find any other source that claim LOG_AUTH is
        deprecated in any way. LOG_AUTH is distinct from
        LOG_AUTHPRIV. The GNU C Library manual only documents
        LOG_AUTH. The header files contains both without any
        comment. Common systems like Debian appear to refer to
        both auth and
 authpriv facilities in syslog configurations.
        Popular daemons appear to use both facilities.
        Both facilities are discussed in several RFCs.

      See https://bugzilla.kernel.org/show_bug.cgi?id=46091

ttyname.3
  Michael Kerrisk
    SEE ALSO: Add ctermid(3)

proc.5
  Michael Kerrisk
    Clarify header file related to 'flags' field of /proc/PID/stat
  Michael Kerrisk [Frédéric Brière]
    Update description of 'starttime' field of /proc/PID/stat
      The unit of measurement changed from jiffies to clock ticks in

Linux 2.6.

See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=675891
Michael Kerrisk
Document /proc/sys/kernel/kptr_restrict
Michael Kerrisk [Kees Cook]
Document /proc/sys/fs/protected_symlinks
Based on text in Documentation/sysctl/fs.txt by Kees Cook
Michael Kerrisk [Kees Cook]
Document /proc/sys/fs/protected_hardlinks
Based
on text in Documentation/sysctl/fs.txt by Kees Cook

capabilities.7
Michael Kerrisk
Document interaction of CAP_SYSLOG and /proc/sys/kernel/kptr_restrict

ip.7
Michael Kerrisk
SEE ALSO: Add ipv6(7)
SEE ALSO: Add icmp(7)

man-pages.7
Michael Kerrisk
Add some advice about disabling hyphenation in SEE ALSO

ld.so.8
Michael Kerrisk
Describe interpretation of slashes in dependency strings
Michael Kerrisk
Repeat note that LD_LIBRARY_PATH is ignored in privileged programs
This point is already noted when discussing search order for
libraries, but it's worth repeating under the specific discussion
of LD_LIBRARY_PATH further down the page.
Michael Kerrisk
Add some details for LD_PRELOAD
Note that LD_PRELOAD list separator can be space or colon

========== Changes in man-pages-3.44 ==========

Released: 2012-11-07, Barcelona

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Apologies if I missed anyone!

New and rewritten pages
---

delete_module.2
  Michael Kerrisk
    Rewrite to Linux 2.6+ reality
  Michael Kerrisk
    Change license and copyright
      There is now nothing left of the original FSF-copyrighted
      page. So, change the copyright and license.
  Michael Kerrisk [Lucas De Marchi, Rusty Russell]
    Substantial reorganization after comments from Rusty Russell

      Rusty notes that O_NONBLOCK is almost always used in
      practice. Therefore, it would be better to reorganize
      the page to consider that "the default".

init_module.2
  Michael Kerrisk
    Rewrite to Linux 2.6+ reality
  Michael Kerrisk
    Change copyright and license
      Little of the original page now remains. Change
      copyright and license
  Michael Kerrisk [Rusty Russell]
    Changes after review comments from Rusty Russell
  Kees Cook
    Add various pieces describing Linux 2.6+ behavior
      Pieces take from, or inspired by, a patch sent by Kees.

getauxval.3
  Michael Kerrisk
    Document getauxval() function added in glibc 2.16

Global changes

Various pages
  Michael Kerrisk
    Global fix: Use consistent capitalization in NAME section
      The line(s) in the NAME section should only use capitals
      where English usage dictates that. Otherwise, use

    lowercase throughout.

Various pages
  Michael Kerrisk
    Global fix: "userspace" ==> "user space" or "user-space"
      Existing pages variously use "userspace or "user space".
      But, "userspace" is not quite an English word.
      So change "userspace" to "user space" or, when used
      attributively, "user-space".

Changes to individual pages
---

clock_getres.2
clock_nanosleep.2
  Michael Kerrisk
    Linking with -lrt is no longer needed from glibc 2.17 onward

create_module.2
  Michael Kerrisk
    Note that this system call is present only in kernels before 2.6
  Michael Kerrisk
    Note that ENOSYS probably indicates kernel 2.6+

execve.2
  Michael Kerrisk
    Document treatment of PR_SET_PDEATHSIG on execve()
  Michael Kerrisk
    Document treatment of SECBIT_KEEP_CAPS securebits flag on execve()

fork.2
  Michael Kerrisk
    Note treatment of default timer slack value on fork()

getdomainname.2
  Simon Paillard [Lars Wirzenius]
    Point out that these calls relate to NIS, not DNS
      See http://bugs.debian.org/295635

get_kernel_syms.2
  Michael Kerrisk
    Note that this system call is present only in kernels before 2.6

ipc.2
  Michael Kerrisk
    Update note on architectures that don't have ipc()
      Replace mention of ia64 with x86-64 and ARM.

link.2
  Michael Kerrisk
    Add EPERM error triggered by /proc/sys/fs/protected_hardlink

prctl.2
  Michael Kerrisk
    Mention Documentation/prctl/no_new_privs.txt for PR_SET_NO_NEW_PRIVS
  Kees Cook
    update seccomp sections for mode 2 (BPF)
      This adds a short summary of the arguments used
      for "mode 2" (BPF) seccomp.
  Michael Kerrisk
    Small improvements to PR_SET_SECCOMP discussion
      Note type of 'arg3' for SECCOMP_MODE_FILTER.
      Add pointer to Documentation/prctl/seccomp_filter.txt.
  Michael Kerrisk
     Note 'seccomp' semantics with respect to fork(), execve(), and prctl()
  Michael Kerrisk
    Document PR_SET_TIMERSLACK and PR_GET_TIMERSLACK
  Michael Kerrisk
    Reword PR_SET_NAME and PR_GET_NAME in terms of threads
      Plus tfix
  Kees Cook
    document PR_SET_NO_NEW_PRIVS, PR_GET_NO_NEW_PRIVS
      This adds a short description of the no_new_privs bit,
      as described in Documentation/prctl/no_new_privs.txt.

ptrace.2
  Michael Kerrisk
    Clarify that some operations are not present on all architectures
      PTRACE_GETREGS, PTRACE_SETGREFS, PTRACE_GETFPREGS,
      and PTRACE_GETSPREGS are not present on all architectures.
      PTRACE_SYSEMU and PTRACE_SYSEMU_SINGLESTEP are present only

on x86.

See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=122383

query_module.2
  Michael Kerrisk
    Add a few words clarifying reference to /sys/module
  Michael Kerrisk
    Note that
 this system call is present only in kernels before 2.6
  Michael Kerrisk
    Note that ENOSYS probably indicates kernel 2.6+
  Michael Kerrisk
    SEE ALSO: Add modinfo(8) and lsinfo(8)
  Michael Kerrisk
    Move some information in NOTES to VERSIONS

socketcall.2
  Michael Kerrisk
    Update note on architectures that don't have socketcall()
      Replace mention of ia64 with x86-64 and ARM.

times.2
  Thomas Habets
    Recommend clock_gettime(2) as alternative to times(2)

clock_getcpuclockid.3
  Michael Kerrisk
    Linking with -lrt is no longer needed from glibc 2.17 onward

fts.3
  Simon Paillard [James Youngman]
    Improve description of physical vs. logical tree walking
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=633505

getenv.3
  Michael Kerrisk
    SEE ALSO: add getauxval(3)

proc.5
  Michael Kerrisk
    Document /proc/meminfo
      Info mostly taken from Documentation/filesystems/proc.txt
       and Documentation/vm/hugetlbpage.txt.
  Michael Kerrisk
    Default for /proc/sys/fs/protected_{hardlinks,symlinks} is now 0
      The default setting of 1 in/proc/sys/fs/protected_hardlinks
      and /proc/sys/fs/protected_symlinks caused one too many

breakages for Linus's taste, so commit 561ec64ae67e changed
the default for both files to 0.
Note system call error yielded by /proc/sys/fs/protected_symlinks
Note that violating 'protected_symlinks' restrictions
causes system calls to fail with the error EACCES.
Michael Kerrisk
Since Linux 2.6.27, /proc/sys/kernel/modprobe depends on CONFIG_MODULES

ipv6.7
Bert Hubert
Document IPV6_RECVPKTINFO

man-pages.7
Michael Kerrisk
Note rules for capitalization in NAME section

time.7
Michael Kerrisk
Add a subsection on timer slack

ld.so.8
Michael Kerrisk
SEE ALSO: add getauxval(3)

==========
Changes in man-pages-3.45 ==========

Released: 2012-12-21, Christchurch

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Apologies
if I missed anyone!

New and rewritten pages
---

s390_runtime_instr.2
  Jan Glauber
    New page for s390-specific s390_runtime_instr(2)

if_nameindex.3
  YOSHIFUJI Hideaki
    Document if_nameindex(3) and if_freenameindex(3)
  Michael Kerrisk
    Edits, improvements and corrections to Hideaki's page
  Michael Kerrisk
    Add an example program

if_nametoindex.3
  YOSHIFUJI Hideaki
    New page documenting if_nametoindex(3) and if_indextoname(3)

New and changed links
---

if_freenameindex.3
  Michael Kerrisk
    New link to if_nameindex.3

if_indextoname.3
  Michael Kerrisk
    New link to if_nametoindex.3

Global changes
---

sysconf.3
cciss.4
  Michael Kerrisk
    Global fix: s/runtime/run time/

Changes to individual pages
---

clone.2
  Michael Kerrisk
    Since 2.6.30, CLONE_NEWIPC also supports POSIX message queues

delete_module.2
  Michael Kerrisk
     Small rewording of description of effect of O_TRUNC

getrlimit.2
  Michael Kerrisk [Trevor Woerner]
    Document Linux's nonstandard treatment or RLIMIT_CPU soft limit
      Upon encountering the RLIMIT_CPU soft limit when a SIGXCPU handler
      has been installed, Linux invokes the signal handler *and* raises
      the soft limit by one second. This behavior repeats until the
      limit is encountered. No other implementation that I tested
      (Solaris 10, FreeBSD 9.0, OpenBSD 5.0) does this, and it seems
      unlikely to be POSIX-conformant. The (Linux-specific)
      RLIMIT_RTTIME soft limit exhibits similar behavior.
  Michael Kerrisk
    Point reader at discussion of /proc/[pid]/limits in proc(5)

io_getevents.2
  Michael Kerrisk
    io_getevents() may cause segfault when called with invalid ctx_id
      For reference see: http://marc.info/?l=linux-aio&m=130089887002435&w=2

recv.2
  Michael
 Kerrisk [Eric Dumazet]
    UNIX domain sockets support MSG_TRUNC since 3.4

sendmmsg.2
  Elie De Brauwer
    Add example program for sendmmsg()

stat.2
  Simon Paillard
    Clarify description of EOVERFLOW error

The EOVERFLOW error is not only for st_size, but also
inode and block size fields. See glibc source file
sysdeps/unix/sysv/linux/xstatconv.c and kernel source
file fs/stat.c. Also, fix bit/byte confusion
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=604928

syscalls.2
Michael Kerrisk
Update various references to "i386" to "x86"
Michael Kerrisk
Add s390_runtime_instr(2)

sysctl.2
Michael Kerrisk
Mention CONFIG_SYSCTL_SYSCALL
Michael Kerrisk
Calls to sysctl() log warnings to the kernel log since 2.6.24

syslog.2
Michael Kerrisk
Substantially reorganize discussion of commands
Make the layout of the discussion of the commands

more readable.
Michael Kerrisk
Add kernel symbolic 'type' names
Michael Kerrisk
Clarify SYSLOG_ACTION_SIZE_UNREAD semantics
SYSLOG_ACTION_SIZE_UNREAD returns the number of bytes
available for reading via SYSLOG_ACTION_READ.
Michael Kerrisk
Clarify where SYSLOG_ACTION_READ_ALL places data it reads
Michael Kerrisk
Clarify semantics of SYSLOG_ACTION_CLEAR
The SYSLOG_ACTION_CLEAR command (5) does not really clear
the ring buffer; rather it affects the semantics of what
is returned by commands 3 (SYSLOG_ACTION_READ_ALL) and
4 (SYSLOG_ACTION_READ_CLEAR).
Michael Kerrisk
Clarify discussion of privileges for commands 3 and 10
Michael Kerrisk
Add mention of CONFIG_LOG_BUF_SHIFT

wait.2
Michael Kerrisk
BUGS: Document odd waitid() behavior when 'infop' is NULL

getifaddrs.3

Michael Kerrisk [Julien Cristau]
Update description
of ifa_data to Linux 2.6+ reality
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=526778

memcmp.3
Michael Kerrisk [Jon Grant]
Enhance RETURN VALUE text and remove redundant text from DESCRIPTION
Note that sign of result equals sign of difference between
first two bytes that differ (treated as "unsigned char")."

mkstemp.3
Michael Kerrisk [Florian Weimer]
Deemphasize discussion of mode 066 in glibc 2.0.6
Glibc 2.0.6 is now so ld that the discussion of details
of that version can be deemphasized placing just under
NOTES.

See https://bugzilla.kernel.org/show_bug.cgi?id=51811

strcmp.3
Michael Kerrisk [Jon Grant]
Enhance RETURN VALUE text and remove redundant text from DESCRIPTION
Note that sign of result equals sign of difference between
first two bytes that differ (treated as "unsigned char")."

ttyname.3
Michael Kerrisk

Fix confused text in ERRORS
The existing text suggested that the ERRORS applied
only for ttyname_r(). However, 2 of the 3 errors
can occur for ttyname().

undocumented.3
Michael Kerrisk
Remove some now documented functions

proc.5
Michael Kerrisk [Jim Paris]
Correct description of SwapFree in /proc/meminfo
Michael Kerrisk
Note change of /proc/[pid]/limits file permissions in 2.6.36

resolv.conf.5
Simon Paillard
Document IPv6 format for nameserver
See: http://bugs.debian.org/610036

capabilities.7
  Michael Kerrisk [Rens van der Heijden]
    Correct URL for POSIX.1e draft

ipv6.7
  Gao Feng
    Add description of getsockopt() for IPV6_MTU
      In IPv4,IP_MTU is only supported by getsockopt.
      In IPv6, we can use IPV6_MTU to set socket's MTU,
      but the return value of getsockopt() is the path MTU.

rtnetlink.7
  Michael Kerrisk [Julien Cristau]

    Update description of IFLA_STATS to Linux 2.6+ reality
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=526778

socket.7
  Michael Kerrisk [YOSHIFUJI Hideaki]
    Document 'sockaddr' and 'sockaddr_storage' types
  Andi Kleen
    Explain effect of SO_SNDTIMEO for connect()
      When SO_SNDTIMEO is set before connect(), then connect()
      may return EWOULDBLOCK when the timeout fires.

========== Changes in man-pages-3.46 ==========

Released: 2013-01-27, Canberra

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Apologies if I missed anyone!

New and rewritten pages
---

kcmp.2
  Cyrill Gorcunov, Michael Kerrisk
    New page for kcmp(2)

Newly documented interfaces in existing pages
---

init_module.2
  Michael Kerrisk [Kees Cook, Rusty Russell, Lucas De Marchi]
    Document finit_module(2)
  Rusty Russell [Lucas De Marchi, Kees Cook]
    Document finit_module() 'flags' argument
      Document MODULE_INIT_IGNORE_MODVERSIONS and
      MODULE_INIT_IGNORE_VERMAGIC. (Some edits by mtk.)

New and changed links
---

finit_module.2
  Michael Kerrisk
    New link to init_module.2

__after_morecore_hook.3
__free_hook.3
__malloc_initialize_hook.3
__memalign_hook.3
__realloc_hook.3
  Michael Kerrisk
    New link to malloc_hook.3

Global changes

Various pages
  Michael Kerrisk
    Global fix: s/tty/terminal/

Changes to individual pages
---

clone.2
  Michael Kerrisk
    Add kernel versions for various CLONE_* constants
  Michael Kerrisk
    CLONE_NEWIPC governs mechanisms that don't have filesystem pathnames
  Michael Kerrisk
    CLONE_NEWIPC doesn't mount the POSIX
 MQ file system
  Michael Kerrisk
    Add an example program (CLONE_NEWUTS)
  Michael Kerrisk
    Some reworking of CLONE_NEWIPC text
      No substantial content changes.
  Michael Kerrisk
    SEE ALSO: add kcmp(2)
    SEE ALSO: add setns(2)

fallocate.2
  Michael Kerrisk
    FALLOC_FL_* flags are defined in glibc only since 2.18

getxattr.2
removexattr.2
setxattr.2
  Michael Kerrisk [Andrew Perepechko,]
    Note that ENOATTR is a synonym for ENODATA
      Various people have pointed out that strace(1) shows ENODATA

for the case where the named attribute does not exist, or
the process has no access to this attribute. ENODATA
and ENOATTR are in fact defined as synonyms. Point this out
in the man page, so that people understand the strace(1) info.

See https://bugzilla.kernel.org/show_bug.cgi?id=51871

getxattr.2
listxattr.2
removexattr.2
setxattr.2
Michael Kerrisk
Put
errors under ERRORS section
The errno values on these pages were listed in a nonstandard
way under the RETURN VALUE section. Put them in ERRORS sections.

init_module.2
Michael Kerrisk [Rusty Russell]
ERRORS: Add errors for module signatures (EBADMSG, ENOKEY)

link.2
mkdir.2
mknod.2
open.2
rename.2
symlink.2
write.2
mkfifo.3
Mark Hills
Document EDQUOT error
The return error EDQUOT is not documented in open(2), write(2),
symlink(2) etc.

Whether inodes or disk blocks are required for each function
is something I based on received wisdom and BSD documentation,
rather than tracing the code to the kernel. For symlink(2)
this certainly depends on the file system type.

listxattr.2
Michael Kerrisk [Theodore Ts'o]
Fix RETURN VALUE description
On success, 0 may be returned, so change wording from
"positive number" to "nonnegative number".

outb.2
Michael Kerrisk
Add SYNOPSIS

prctl.2
  Kees Cook
    Document PR_SET_PTRACER
      Document the Yama LSM's prctl handler that allows processes to
      declare ptrace restriction exception relationships via
      PR_SET_PTRACER.
  Michael Kerrisk
    Make it explicit that PR_SET_PTRACER replaces previous setting
      The attribute is a scalar, not a list.
  Shawn Landden
    Document EINVAL error for PR_SET_PTRACER
  Michael Kerrisk
    Document PR_GET_TID_ADDRESS

ptrace.2
  Michael Kerrisk
    Document PTRACE_O_EXITKILL
  Michael Kerrisk
    Place PTRACE_SETOPTIONS list in alphabetical order

query_module.2
  Michael Kerrisk
    Must be called using syscall(2)
      Yes, the call is way obsolete, but add this info
      for completeness.

recvmmsg.2
  Elie De Brauwer
    Add/correct kernel version info for recvmmsg() and MSG_WAITFORNONE
      This patch isolates the since/version
 related fixes as requested.
      This change introduces the following delta:
       * The page states it was added in 2.6.32 but it is only added
         2.6.33 (ref: http://kernelnewbies.org/Linux_2_6_33)
       * The MSG_WAITFORONE flag was in turn only added in 2.6.34
        (ref: http://kernelnewbies.org/Linux_2_6_34)
  Elie De Brauwer
    Add an example program

setns.2
  Michael Kerrisk
    Add example program

sigaction.2
  Michael Kerrisk [Zsbán Ambrus]
    Note feature test macro requirements for 'siginfo_t'
      See https://bugzilla.kernel.org/show_bug.cgi?id=52931

syscalls.2
  Michael Kerrisk
    Add kern_features(2)
  Michael Kerrisk
    Add utrap_install(2)
      Sparc-specific, present since ancient times
  Michael Kerrisk
    Add finit_module(2)

sysctl.2
  Michael Kerrisk [Garrett Cooper]
    ERRORS: EACCES as a synonym for EPRM
      See https://bugzilla.kernel.org/show_bug.cgi?id=46731
       and http://thread.gmane.org/gmane.linux.ltp/11413/focus=957635
         From: Garrett Cooper <yanegomi <at> gmail.com>
         Subject: Re: [LTP] [PATCH] sysctl03: sysctl returns EACCES after 2.6.33-rc1
         Newsgroups: gmane.linux.kernel, gmane.linux.ltp
         Date: 2010-03-04 18:35:33 GMT

unshare.2
  Michael Kerrisk
    Update NOTES on unimplemented flags
  Michael Kerrisk
    Fix text problems in description of CLONE_FS
  Michael Kerrisk
    SEE ALSO: add kcmp(2)
    SEE ALSO: add setns(2)
  Michael Kerrisk
    Reorder CLONE_NEWUTS entry in list

difftime.3
  Michael Kerrisk [Michal Gorny]
    Remove crufty text about 'time_t' on "other systems"
      Back in 2006, some text came in via Debian patches that seems
      crufty. Remove it.

      See https://bugzilla.kernel.org/show_bug.cgi?id=46731

getaddrinfo.3
getnameinfo.3
  Michael Kerrisk [Peter Budny]
     Fix some confused references to function names
      See https://bugzilla.kernel.org/show_bug.cgi?id=52741

getspnam.3
  Michael Kerrisk [Wolfgang Rohdewald]
    ERRORS: Add EACCES

See https://bugzilla.kernel.org/show_bug.cgi?id=52681

__setfpucw.3
  Michael Kerrisk
    Add proper page cross refs for alternate functions

core.5
proc.5
  Kees Cook
    Clarify suid_dumpable versus core_pattern
      In Linux 3.6, additional requirements were placed on core_pattern
      when suid_dumpable is set to 2. Document this and include commit
      references.
  Justin Lebar
    statm's "shared" field refers to pages backed by files
      I noticed that statm's "shared" field doesn't match the sum of
      all the "shared" entries in smaps [1].

      The kernel docs explain that statm's "shared" field is "number of
      pages that are shared (i.e. backed by a file)" [2]. smaps appears
      to
 call a page shared if it's mapped by at least two processes,
      which explains this discrepancy.

      I'm not a kernel hacker, but it appears to me they do mean "i.e."
      and not "e.g." in the statm description: In
      fs/proc/task_mmu.c::task_statm, I see

        *shared = get_mm_counter(mm, MM_FILEPAGES);

      Here's a patch which updates the man page to match the (hopefully
      correct) kernel docs.

      [1] https://bugzilla.mozilla.org/show_bug.cgi?id=807181
      [2]
http://git.kernel.org/?p=linux/kernel/git/torvalds/linux.git;a=blob;f=Documentation/filesystems/proc.txt;h=a1793d67
0cd01bd374eddf54ffdfc768504291ff;hb=HEAD

proc.5
  Kees Cook
    Put /proc/sys/kernel/hotplug in alphabetical order
  Kees Cook
    Document /proc/sys/kernel/dmesg_restrict
  Kees Cook
    Linux 3.4 changed permissions needed to change kptr_restrict
  Michael Kerrisk [Samuel Thibault, Simon Paillard]
    Add

field numbers for /proc/PID/stat
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=553413
Add numbering to /proc/stat "cpu" fields
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=553413
Michael Kerrisk
Reorganize text describing /proc/stat "cpu" fields
Michael Kerrisk
Rewording of suid_dumpable text after comments from Kees Cook
Michael Kerrisk [Samuel Thibault, Simon Paillard]
Add field numbers for /proc/[pid]/statm
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=553413
Michael Kerrisk
Document /proc/stat "cpu" "nice_guest" field
Info taken from commit ce0e7b28fb75cb003cfc8d0238613aaf1c55e797
Michael Kerrisk [Peter Lekeynstein]
Document /prod/[pid]/oom_score_adj
Text taken directly from Documentation/filesystems/proc.txt,
with some light editing.

See https://bugzilla.kernel.org/show_bug.cgi?id=50421

shells.5
Michael
Kerrisk
Add /etc/bash to list of example shells

ttytype.5
Michael Kerrisk
Add proper xref for termcap and terminfo pages

capabilities.7
Michael Kerrisk
Add kcmp(2) under CAP_SYS_PTRACE

man-pages.7
Michael Kerrisk
Update description of Section 7

========== Changes in man-pages-3.47 ==========

Released: 2013-02-12, Christchurch

Contributors

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Apologies
if I missed anyone!

New and rewritten pages
---

perf_event_open.2
  Vincent Weaver
    New page documenting perf_event_open(2)

pthread_setname_np.3
  Chandan Apsangi, Michael Kerrisk
    New page for pthread_setname_np(3) and pthread_getname_np(3)

sln.8
  Michael Kerrisk [Peter Schiffer]
    New page documenting the 'sln' command provided by glibc
      Inspired by a Red Hat downstream page, but with rather
      more detail.

Newly documented interfaces in existing pages
---

prctl.2
  Michael Kerrisk [Shawn Landden, Lennart Poettering]
    Document PR_SET_CHILD_SUBREAPER and PR_GET_CHILD_SUBREAPER

ip.7
  Radek Pazdera
    Add source-specific multicast sockopts
      This patch adds documentation of several source-specific multicast

socket options that were added to kernel with implementation
of IGMPv3 in 2.5.68.

The
following socket options were added:
IP_ADD_SOURCE_MEMBERSHIP
IP_DROP_SOURCE_MEMBERSHIP
IP_BLOCK_SOURCE
IP_UNBLOCK_SOURCE
IP_MSFILTER

Pages moved across sections
---

getcontext.3
Michael Kerrisk
This page really belongs in Section 3 (moved from Section 2)

getdtablesize.3
Michael Kerrisk
Move from Section 2

New and changed links
---

getcontext.2
Michael Kerrisk
Make link to page moved into Section 3

getdtablesize.2
Michael Kerrisk
Link to renamed getdtablesize.3

setcontext.2
Michael Kerrisk
Modify link to point to Section 3

pthread_getname_np.3
Michael Kerrisk
New link to new pthread_setname_np.3

setcontext.3
Michael Kerrisk
Link to getcontext page renamed into Section 3

Changes to individual pages
---

fallocate.2
  Michael Kerrisk
    SEE ALSO: add
 fallocate(1)

flock.2
  Michael Kerrisk
    SEE ALSO: add flock(1)

fork.2
  Michael Kerrisk
    SEE ALSO: add exit(2)

getpriority.2
  Michael Kerrisk
    BUGS: note that nice value is per-thread on Linux

getrlimit.2
  Michael Kerrisk
    SEE ALSO: add prlimit(1)

gettid.2
  Michael Kerrisk
    SEE ALSO: add various system calls that use thread IDs

ioprio_set.2
  Michael Kerrisk
    SEE ALSO: add ionice(1)

sched_setaffinity.2
  Michael Kerrisk
    SEE ALSO: add taskset(1)

sched_setparam.2
  Michael Kerrisk
    Scheduling policy and parameters are per-thread on Linux
      Direct the reader to the discussion in sched_setscheduler(2).

sched_setscheduler.2
  Michael Kerrisk
    Scheduling policy and parameters are per-thread on Linux
  Michael Kerrisk
    SEE ALSO: add chrt(1)

setsid.2

Michael Kerrisk
SEE ALSO: add setsid(1)

shmop.2
Michael Kerrisk [Peter Schiffer]
ERRORS: Add EIDRM

Taken from Red Hat downstream patch

sigaction.2
makecontext.3
Michael Kerrisk
Change getcontext/setcontext page ref to Section 3

signal.2
Michael Kerrisk [Reuben Thomas]
Clarify System V vs BSD semantics for signal()

syscalls.2
Michael Kerrisk
The list on this page is not just syscalls common to all platforms
Michael Kerrisk
Add perfctr(2)
Add ppc_rtas(2)
Michael Kerrisk
Add kernel version number of utrap_install(2)

unimplemented.2
Michael Kerrisk [Peter Schiffer]
Remove mention of kernel version number in DESCRIPTION

inet.3
Michael Kerrisk [Peter Schiffer]
Fix error in EXAMPLE using inet_aton()
See https://bugzilla.redhat.com/show_bug.cgi?id=837090
Patch taken from Red Hat downstream.

posix_fallocate.3
Michael Kerrisk
SEE ALSO: add fallocate(1)

regex.3
Reuben Thomas
Clarify details of matching
The first is that it's far from
clear that the end points of the
complete string match are stored in the zero'th element of the
regmatch_t array; secondly, the phrase "next largest substring

match" is positively misleading, implying some sort of size
ordering, whereas in fact they are ordered according to their
appearance in the regex pattern.

scanf.3
Michael Kerrisk
Clarify meaning of "string conversions" for 'm' modifier
Mike Frysinger
Update %a vs %m documentation
POSIX.1-2008 adopted the 'm' flag for dynamic allocation. Update
page to cover it and relegate the glibc-specific 'a' flag to
NOTES.

strtol.3
Michael Kerrisk [Peter Schiffer]
Replace some bogus text about "thousands separator"
See https://bugzilla.redhat.com/show_bug.cgi?id=652870

sysconf.3
Michael Kerrisk [Peter Schiffer]
Use "_SC_PAGESIZE" consistently on page
s/_SC_PAGE_SIZE/_SC_PAGESIZE/
in one instance.
From Red Hat downstream patch.

nscd.conf.5
Peter Schiffer
Add max-db-size and auto-propagate descriptions, default values, + misc
* added missing valid services (services and netgroup)
* added many default values for options
* reordered options according to the nscd.conf file
(logical order)
* added 2 missing options: max-db-size and auto-propagate

nsswitch.conf.5
Peter Schiffer
Mention initgroups db

proc.5
Michael Kerrisk
Document /proc/profile
Michael Kerrisk [Peter Schiffer]
Update /proc/sys/fs/file-nr to include Linux 2.6 details
Michael Kerrisk
Clarify relationship between file-max and file-nr
The third value in /proc/sys/fs/file-nr is the same as
the value in /proc/sys/fs/file-max.
Michael Kerrisk

Note message written to kernel log when file-max limit is hit
Info
from Documentation/sysctl/fs.txt.
Michael Kerrisk
Mention lscpu(1) under discussion of /proc/cpuinfo

resolv.conf.5
Michael Kerrisk [Peter Schiffer]
Document "single-request-reopen" option
Taken from Red Hat downstream patch

See https://bugzilla.redhat.com/show_bug.cgi?id=717770
See http://thread.gmane.org/gmane.linux.man/3161

utmp.5
Michael Kerrisk
SEE ALSO: add utmpdump(1)

cpuset.7
Simon Paillard
Add missing 'cpuset.' prefix for some flags
See kernel commit e21a05cb408bb9f244f11a0813d4b355dad0822e

svipc.7
Michael Kerrisk
SEE ALSO: add ipcmk(1), ipcrm(1), ipcs(1)

termio.7
Michael Kerrisk
SEE ALSO: add reset(1), setterm(1), stty(1), tty(4)

ld.so.8
Michael Kerrisk [Peter Schiffer]
LD_VERBOSE does not work with ld.so --list and --verify
From Red Hat downstream patch

See https://bugzilla.redhat.com/show_bug.cgi?id=532629
Michael
Kerrisk
SEE ALSO: add sln(8)

zdump.8
Michael Kerrisk [Peter Schiffer]
Bring up to date with zdump --help
Patch taken from Red Hat downstream.

========== Changes in man-pages-3.48 ==========

Released: 2013-03-05, Munich

Contributors

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Apologies if I missed anyone!

New and rewritten pages
---

getunwind.2
  Marcela Maslanova
    New page documenting getunwind(2)
      Taken from Red Hat downstream man pages set

Michael Kerrisk
Much rewriting
Some text taken from arch/ia64/kernel/unwind.c.

perfmonctl.2
Ivana Varekova
New page documenting IA-64-specific perfmonctl(2)
Taken from Red Hat downstream man pages
Michael Kerrisk
Rework discussion of PFM_CREATE_CONTEXT
Add VERSIONS and CONFORMING TO
Note that there
is no glibc wrapper
Remove PFM_CREATE_EVTSETS, PFM_DELETE_EVTSETS, PFM_GETINFO_EVTSETS
These don't exist, and it appears they never have.
Fix argument types for PFM_WRITE_PMCS, PFM_WRITE_PMDS, PFM_READ_PMDS
The types that were being used don't exist!
Briefly document PFM_GET_FEATURES, PFM_DEBUG, PFM_GET_PMC_RESET_VAL

gai.conf.5
Ulrich Drepper
New page documenting gai.conf
Taken from Red Hat downstream pages

nss.5
Ulrich Drepper
New page describing nss.conf

Newly documented interfaces in existing pages
---

clock_getres.2
Cyril Hrubis
Document CLOCK_REALTIME_COARSE and CLOCK_MONOTONIC_COARSE
Cyril Hrubis
Document CLOCK_BOOTTIME
Michael Kerrisk
Some improvements to CLOCK_BOOTTIME description

ptrace.2
Denys Vlasenko
Document PTRACE_GETREGSET, PTRACE_SETREGSET, PTRACE_SEIZE, and friends
Document PTRACE_GETREGSET,
PTRACE_SETREGSET,
PTRACE_SEIZE, PTRACE_INTERRUPT, and PTRACE_LISTEN.

New and changed links
---

fattach.2
fdetach.2
getmsg.2
isastream.2
putmsg.2
  Michael Kerrisk [Peter Schiffer]
    New link to unimplemented.2
      Taken from Red Hat downstream.

      See https://bugzilla.redhat.com/show_bug.cgi?id=436407

Global changes

Many pages
  Michael Kerrisk
    Global fix: remove unneeded double quotes in .SH headings

Many pages
  Michael Kerrisk
    Global fix: remove unneeded double quotes in .SS headings

Many pages
  Michael Kerrisk
    Global fix: use consistent capitalization in .SS headings
      Capitalization in .SS sections across pages (and sometimes even
      within a single page) is wildly inconsistent. Make it consistent.
      Capitalize first word in heading, but otherwise use lower case,
      except where English usage (e.g., proper nouns) or programming
       language requirements (e.g., identifier names) dictate otherwise.

Many pages
  Michael Kerrisk [Denys Vlasenko]
    Remove double blank lines in output

Various pages
  Michael Kerrisk
    Fix order of SH sections

Changes to individual pages
---

accept.2

Michael Kerrisk
NAME: Add "accept4"

access.2
Colin Walters
Note that access() may also fail for FUSE
Since in some cases (e.g. libguestfs's guestmount) it also has the semantics where files can appear owned by root, but are actually mutable by the user, despite what one might infer from the Unix permissions.

getpeername.2
Michael Kerrisk [Kai Kunschke]
Clarify semantics of getpeername() for datagram sockets
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=674034

getuid.2
Michael Kerrisk
Remove duplicate section heading

mmap.2
Cyril Hrubis
Add note
about partial page in BUGS section
This adds a note about Linux behavior with partial page at the end of the object. The problem here is that a page that contains only part of a file (because the file size is not multiple of PAGE_SIZE) stays in page cache even after the mapping is unmapped and the file is closed. So if some process dirties such page, other mappings will see the changes rather than zeroes.
Michael Kerrisk [Török Edwin]
Some 'flags' values require a feature test macro to be defined
Add text to NOTES noting that some MAP_* constants are defined only if a suitable feature test macro is defined.
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=542601
Cyril Hrubis
Document EOVERFLOW error

open.2
Michael Kerrisk
Clarify list of file creation flags
POSIX.1-2008 TC1 clarified this, so that O_CLOEXEC, O_DIRECTORY,
and O_NOFOLLOW are also in this list.

prctl.2
Cyrill Gorcunov
Add some details for PR_GET_TID_ADDRESS

read.2
  Michael Kerrisk [Zack Weinberg]
    Clarify interaction of count==0 and error checking
      POSIX deliberately leaves this case open, so the man
      page should be less specific about what happens.

      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=533232
  Michael Kerrisk [Marc Lehmann]
    Remove crufty text about O_NONBLOCK on files
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=700529
  Michael Kerrisk
    Clarify details for seekable files

unimplemented.2
  Michael Kerrisk [Peter Schiffer]
    Add various STREAMS interfaces to NAME
      Taken from Red Hat downstream.

      See https://bugzilla.redhat.com/show_bug.cgi?id=436407

cexp2.3
  Michael Kerrisk
    Still does not exist in glibc 2.17

exit.3
  Michael Kerrisk
    Note that a call to execve()
 clears exit handler registrations

getaddrinfo.3
  Michael Kerrisk
    SEE ALSO: Add gai.conf(5)

malloc_trim.3
  Michael Kerrisk
    Remove duplicate section title

printf.3
  Marshel Abraham [Graham Gower, Graham Gower]
    Fix error handling in example code
      See https://bugzilla.kernel.org/show_bug.cgi?id=23282

pthread_yield.3
  Michael Kerrisk [Aristeu Rozanski]
    Add _GNU_SOURCE feature test macro to SYNOPSIS

resolver.3

resolv.conf.5
  Michael Kerrisk [Nathan Stratton Treadway, Simon Heimberg]
    RES_DEBUG is only available if glibc is compiled with debug support
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=692136
      and https://bugzilla.kernel.org/show_bug.cgi?id=43061

strtol.3
  Michael Kerrisk [Peter Schiffer]
    Remove crufty text from previous fix

core.5
  Michael Kerrisk
    Document CONFIG_COREDUMP

capabilities.7
  Andrey Vagin
    Nonexistent bits are no longer shown as set
 in /proc/PID/status Cap*

inotify.7
  Michael Kerrisk
    A monitoring process can't easily distinguish events triggered by itself

ip.7
  Flavio Leitner [Peter Schiffer]
    Improve explanation about calling listen() or connect()

man-pages.7
  Michael Kerrisk
    Describe rules for capitalization in .SS headings

rtnetlink.7
  Pavel Emelyanov
    Add info about ability to create links with given index
      Since kernel v3.7 the RTM_NEWLINK message now accepts nonzero
      values in ifi_index field. Mention this fact in the respective
      rtnetlink.7 section.

socket.7
  Pavel Emelyanov
    SO_BINDTODEVICE is now readable
      SO_BINDTODEVICE is readable since kernel 3.8.

========== Changes in man-pages-3.49 ==========

Released: 2013-03-10, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have
 been
incorporated in changes in this release:

Michael Kerrisk <mtk.manpages@gmail.com>

Global changes

The goal of the changes below to consistently format copyright
and license information in the comments in the page source
at the top of each page. This allows for easy scripting to
extract that information. Following these changes the comments
the top of the page source should now consistently have the form:

```
.\" <copyright info, possibly spread over several lines>
.\"
.\" %%%LICENSE_START(<license-type>)
.\" <license text>
.\" %%%LICENSE_END
.\" <other comments>
```

Note that the 'license-type' is merely descriptive. Its purpose is
to simplify scripting for the purpose of gathering statistics on
types of licenses used in man-pages. It is NOT a statement about
the actual licensing of the page; that license is contain INSIDE the
LICENSE_START...LICENSE_END clause.

All pages
  Michael Kerrisk
    Add a LICENSE_START()...LICENSE_END clause
 in source at
    top of each page that encapsulates the license text.
  Michael Kerrisk
    Put copyright info at top of page, followed by blank line and LICENSE

Various pages
  Michael Kerrisk
     Update info in source comments on where to get a copy of the GPL

Various pages
  Michael Kerrisk

Remove "Hey Emacs" comment in page source
Only certain pages have this; there is no consistency, so
remove it from all pages
Michael Kerrisk
Remove "-*- nroff -*-" comment at top of source

========== Changes in man-pages-3.50 ==========

Released: 2013-03-15, Munich

Contributors

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Apologies if I missed anyone!

New and rewritten pages
---

canonicalize_file_name.3
Michael Kerrisk
Rewrite page, adding much more detail

Global changes

Various pages

Michael Kerrisk
Global fix: s/END_LICENSE/LICENSE_END/

Various pages
Michael Kerrisk
Global fix: s/bitmask/bit mask/

Changes to individual pages
---

getent.1
Mark R Bannister
netgroup description incorrectly refers to initgroups

capget.2
Michael Kerrisk
Update URL for libcap

fork.2
Michael Kerrisk
Port access permission bits (ioperm()) are turned off in
the child

futex.2
Michael Kerrisk
'timeout' is a minimum duration that the call will wait, not a maximum

ioperm.2
Michael Kerrisk
Note that iopl() level of 3 is needed to access ports
Michael Kerrisk
'num' is *bits* not bytes!
Michael Kerrisk
Linux 2.6.8 lifted the port limit to 65,536
See http://article.gmane.org/gmane.linux.kernel/202624/
From: Stas Sergeev <stsp <at> aknet.ru>
Subject: [patch][rfc] Larger IO bitmap
Date: 2004-05-07 19:55:03 GMT
Michael Kerrisk
ioperm() operates on the calling *thread* (not process)
Michael Kerrisk
Clarify meaning of 'turn_on' argument
Plus form formatting fixes.
Michael Kerrisk
Clarify that default state of permission bits in child is off
Michael Kerrisk
NOTES: add mention of /proc/ioports

Michael Kerrisk
SEE ALSO: add outb(2)

iopl.2
Michael Kerrisk
CAP_SYS_RAWIO is required
to *raise* the I/O privilege level
Michael Kerrisk
Clarify that the two least significant bits of 'level' are what matter
Michael Kerrisk
SEE ALSO: add outb(2)

syscalls.2
Michael Kerrisk
Add version information for all (other) syscalls
Michael Kerrisk
Add perfmonctl(2)

futimes.3
Michael Kerrisk [Jonathan Nieder]
ERRORS: Add ENOSYS for lutimes()
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=620746

getpass.3
Michael Kerrisk [Erik Saule]
Suggest use of the ECHO flag as an alternative
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=644261

realpath.3
Michael Kerrisk
Document GNU extensions for EACCES and ENOENT errors

stdarg.3
Michael Kerrisk [Friedrich Delgado Friedrichs]
Describe va_copy()
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=575077

termios.3
Michael Kerrisk [Bernhard Kuemel]
Mention that noncanonical mode
does not do input processing
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=643854

random.4
Elie De Brauwer
Document write and document the ioctl interface of /dev/random
The update consists out of two parts:
- a minor thing which just documents what happens if a write to

/dev/(u)random is performed, which is used in the example
script but not explicitly mentioned.
- the other (biggest) part is the documentation of the ioctl()
interface which /dev/(u)random exposes. This ioctl() lives in
drivers/char/random.c and the primitives can be found in
include/linux/random.h

One comment remains, there used to be an RNDGETPOOL ioctl() which
disappeared in v2.6.9. I found two patches on the net:
- http://www.kernel.org/pub/linux/kernel/people/akpm/patches/2.6/2.6.8.1/2.6.8.1-mm4/broken-out/dev-random-remove-rndgetpool-ioctl.patch
- https://lkml.org/lkml/2004/3/25/168

But as far as I can tell the first one got applied but the 2nd
one seems more correct. The result is that even today one can
still find traces of the RNDGETPOOL ioctl() in the header files.
Is this there for historical reasons or because it might break
userspace, even though using it will just give an EINVAL.

bootparam.7
Jose Luis Domingo Lopez
Document 'rootfstype' option
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=182014

capabilities.7
Michael Kerrisk
Add various pieces under CAP_SYS_RAWIO
Info obtained by grepping the kernel source.
Michael Kerrisk
Add CAP_SYS_RESOURCE /proc/PID/oom_score_adj case

netlink.7
Andrey Vagin
Add a note about broadcast messages to multiple groups

socket.7
Michael Kerrisk [Florian Weimer]
Define _GNU_SOURCE to obtain the definition of 'struct ucred'
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=572210

========== Changes in man-pages-3.51 ==========

Released: 2013-04-17, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

sched_rr_get_interval.2
  Michael Kerrisk
    Document /proc/sys/kernel/sched_rr_timeslice_ms

proc.5
  Pavel Emelyanov
    Document /proc/[pid]/map_files directory
      This directory was added in Linux v3.3 and provides info about
      files being mmap-ed in a way very similar to how /proc/[pid]/fd
      works.

      v2: Added examples of how links look like and noted dependency
      on kernel config option CONFIG_CHECKPOINT_RESTORE.

Michael Kerrisk
Document /proc/sys/kernel/shm_rmid_forced

capabilities.7
Michael Kerrisk
Document /proc/sys/kernel/cap_last_cap

Global changes

Various pages
Michael Kerrisk
Global
fix: fix placement of word "only"

Various pages
Simon Paillard
License headers: consistent format

Various pages
Michael Kerrisk
Global fix: s/since kernel/since Linux/

Various System V IPC pages in Section 2
Michael Kerrisk
Add "System V" to .TH line and text
Make it clear that these pages relate to System V IPC,
not POSIX IPC.

Changes to individual pages
---

access.2
Michael Kerrisk [The Wanderer]
Clarify RETURN VALUE for F_OK
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=705293

alarm.2
Michael Kerrisk
Correct the description of behavior when 'seconds' is 0

clone.2
Michael Kerrisk [Peter Schiffer]
Add prototype for syscall to SYNOPSIS
And further clarify the distinction between the system call
and the wrapper function in the introductory text.

Michael Kerrisk
Update feature test macro requirements
The requirements quietly changed in glibc 2.14

See also http://www.sourceware.org/bugzilla/show_bug.cgi?id=4749
Michael Kerrisk [Mike Frysinger]
Clarify differences between clone2() syscall and wrapper function
Michael Kerrisk [Mike Frysinger]
Note those architectures where the sys_clone argument order differs
Michael Kerrisk [Mike Frysinger]
Add short subsection noting that blackfin, m68k, and sparc are different
Michael Kerrisk
Move clone2() text to subsection in description
The description of ia64 clone2() should follow the discussion
of the raw system call interface.
Michael Kerrisk
Change subhead for ia64 discussion

getcpu.2
Michael Kerrisk
Recommend that 'tcache' should be specified as NULL nowadays

io_cancel.2
Jeff Moyer, Michael Kerrisk [Cyril Hrubis]
Improve description

io_destroy.2
Jeff Moyer
Improve description
The
description was rather vague, citing a "list of I/O contexts"
and stating that it "can" cancel outstanding requests. This
update makes things more concrete so that the reader knows exactly
what's going on.

io_getevents.2
Jeff Moyer
The 'timeout' argument is not updated
I looked back through the kernel code, and the timeout was
never updated in any case. I've submitted a patch upstream
to change the comment above io_getevents.

io_setup.2
Jeff Moyer
Clarify nr_events
nr_events is technically the number of completion events that can
be stored in the completion ring. The wording of the man page:
"capable of receiving at least nr_events" seems dubious to me,

only because I worry that folks might interpret that to mean
'nr_events' total, instead of 'nr_events' concurrently.

Further, I've added information on where to find
the per-user
limit on 'nr_events', /proc/sys/fs/aio-max-nr. Let me know if
you think that is not relevant.

listxattr.2
Michael Kerrisk
Explain use of 'size' argument

lseek.2
Michael Kerrisk [Andreas Jaeger]
_GNU_SOURCE must be defined to get SEEK_DATA and SEEK_HOLE definitions
See http://sourceware.org/bugzilla/show_bug.cgi?id=15312

mmap.2
Michael Kerrisk
Add pointers to relevant /proc files described in proc(5)

posix_fadvise.2
pread.2
readahead.2
sync_file_range.2
truncate.2
Michael Kerrisk
Refer to syscall(2) for ABI semantics on certain 32-bit architectures
Also: in sync_file_range.2 and posix_fadvise.2 remove description
of conventional calling signature as flawed, and in
posix_fadvise.2, de-emphasize focus on ARM, and rather phrase
as a more general discussion of certain architectures.

readdir.2
Michael Kerrisk
readdir(2) doesn't
exist on x86-64

semop.2
Michael Kerrisk
Clarify the discussion of 'semadj'

shmctl.2
Michael Kerrisk
Refer to proc(5) for description of /proc/sys/kernel/shm_rmid_forced

syscall.2
Changhee Han

Add notes that caution users when passing arguments to syscall()
For example, passing 'long long' on ARM-32 requires special
treatment.
Mike Frysinger [Michael Kerrisk]
Document the exact calling convention for architecture system calls
Mike Frysinger [Kyle McMartin]
Add PA-RISC details under calling conventions
Michael Kerrisk [Mike Frysinger]
Refine discussion of ARM and other ABIs

syscalls.2
Michael Kerrisk
Update kernel version number at start of list

umask.2
Michael Kerrisk
SEE ALSO: add acl(5)

unshare.2
Michael Kerrisk
Update feature test macro requirements
The requirements quietly changed in glibc 2.14

See also http://www.sourceware.org/bugzilla/show_bug.cgi?id=4749

fopencookie.3
Michael Kerrisk [Ralph Loader]
Correct definition of cookie_io_functions_t

pthread_setname_np.3
Andrew Clayton
The thread argument is passed in by value

readir.3
seekdir.3
telldir.3
Michael Kerrisk
Eliminate the implication that these functions deal with "offsets"
The directory position dealt with by the readdir() and
friends is not a simple file offset in modern file systems.
Typically, it is some kind of cookie value. Add text and
make other changes to these pages to eliminate the
implication that this is an offset, and warn the reader
that directory positions should be treated strictly as
opaque values.

In the process, rename the 'offset' argument of seekdir(3)
to 'loc', and add some text to readdir(3) to note that

the 'd_off' field is the same value returned by telldir(3)
at the current directory position.

See also https://lwn.net/Articles/544298/

scalb.3
Mark H Weaver
Fix prototypes for scalbf() and scalbl()

sched_getcpu.3
Michael Kerrisk
Update feature test macro requirements
The requirements quietly changed in glibc 2.14

See also http://www.sourceware.org/bugzilla/show_bug.cgi?id=4749

ualarm.3
Michael Kerrisk [Nicolas Hillegeer]
Add note on the behavior when 'usecs' is zero
POSIX.1-2001 does not specify the behavior in this case
and no other system that I checked documented the behavior.
Probably, most or all systems do what Linux does in this
case: cancel any pending alarm, just as alarm(0) does.
Add that info in NOTES.

elf.5
Mike Frysinger
Add byte positions for all EI_xxx fields
When describing e_ident, most of the EI_xxx defines mention the
exact byte number.
This is useful when manually hacking an ELF
with a hex editor. However, the last few fields don't do this,
which means you have to count things up yourself.
Add a single word to each so you don't have to do that.

proc.5
Michael Kerrisk
Refer to sched_rr_get_interval(2) for info on sched_rr_timeslice_ms
Since Linux 3.9, /proc/sys/kernel/sched_rr_timeslice_ms can
be used to change the SCHED_RR quantum.
Michael Kerrisk
SEE ALSO: Add sysctl(8)
Krzysztof Konopko
Simplify the example of printing out environ
The binutils package contains a very handy utility to
print out null-byte delimited strings from a file. This
can replace a rather complex expression with cat(1)
provided as an example for printing out /proc/[pid]/environ.

Michael Kerrisk
Update /proc/PID/maps example
Update to 64-bit example that includes "[heap]", "[stack],
and "[vdso]"
Michael Kerrisk
Formatting fixes for /proc/PID/maps
Mike Frysinger
Document the "pathname" field of /proc/PID/maps
Michael Kerrisk
Add reference to capabilities(7) for /proc/sys/kernel/cap_last_cap
Michael Kerrisk
/proc/PID/maps: add a reference to mmap(2)

ip.7
Radek Pazdera
Document IP_MULTICAST_ALL
This commit adds documentation for the IP_MULTICAST_ALL socket
option.

The option was added to the Linux kernel in 2.6.31:

Author Nivedita Singhvi <niv@us.ibm.com>
Commit f771bef98004d9d141b085d987a77d06669d4f4f

The description is based on a previous one [3] posted by the
original author of the code -- Nivedita, but it is slightly
re-worded.

I tested it myself and it works as described.

References:
[1] http://lxr.free-electrons.com/source/net/ipv4/ip_sockglue.c#L972
[2] http://lxr.free-electrons.com/source/net/ipv4/igmp.c#L2267
[3] http://patchwork.ozlabs.org/patch/28902/

units.7
Brian M. Carlson
units should use an actual µ
The units(7) man page uses an ASCII u in place of the actual Greek
letter mu. Since we're in the twenty-first century, with
UTF-8-compatible terminals and terminal emulators, we should use
the actual letter µ instead of an ASCII approximation.

See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=704787

========== Changes in man-pages-3.52 ==========

Released: 2013-07-04, Christchurch

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

perf_event_open.2
  Vince Weaver
    Add

PERF_IOC_FLAG_GROUP documentation
        The perf_event_open() ENABLE/DISABLE/RESET ioctls can take an
        argument, PERF_IOC_FLAG_GROUP. This wasn't documented at all
        until about a year ago (despite the support being there from
        the beginning) so I missed this when initially writing
        the man page.

socket.7
  Pavel Emelyanov, Michael Kerrisk
    Document SO_PEEK_OFF option
        Since Linux 3.4 there appeared an ability to specify the
        offset in bytes from which the data will be MSG_PEEK-ed.
        Describe this socket option in the socket(7) page, where
        all the other socket options are described.

Global changes

Various pages
  Michael Kerrisk
    Convert inline formatting (\fX...\fP) to dot-directive formatting

readdir.2
asprintf.
getline.3
getlogin.3
pthread_setname_np.3
readdir.3
strerror.3
  Michael Kerrisk [Jon Grant]
    Clarify that terminating null byte is
'\0'

Changes to individual pages
---

execve.2
  Peter LaDow
    Add envp to the Linux notes about NULL pointers
        During the review of static analysis results, we discovered a
        functional, but non-portable, use of execve(). For example:

            char *cmd[] = { "/path/to/some/file", NULL };
            execve(cmd[0], cmd, NULL);

        The call succeeds. Yet, the static analysis tool (rightly)

pointed out that envp could be dereferenced. But digging into
glibc and the kernel, it appears that like argv, envp when NULL
is treated as if it were an empty list.

So, to clear things up, I'm submitting this patch to update the
man page to indicate that envp is treated like argv.

fallocate.2
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

io_setup.2
Cyril Hrubis [Jeff Moyer]
Clarify the nr_events parameter

Currently the io_setup.2 man page describes what the kernel really
does, i.e., that the resulting context may be able to hold more
than the 'nr_event's operations because the memory allocated in
kernel is rounded to be multiple of page size.

It is better not to expose this implementation detail and
simply state that the resulting context is suitable for
'nr_events' operations.

perf_event_open.2
Vince Weaver
Clarify the perf_event_open() wakeup_events/wakeup_watermark fields
Clarify the perf_event_open() wakeup_events/wakeup_watermark
fields a bit, based on info from kernel commit cfeb1d90a1b1.
Vince Weaver
Update to match the Linux 3.10 release
This patch updates the perf_event_open() documentation to include
new interfaces added in the 3.10 kernel.

It also documents a few [To be documented] instances left over
from
the 3.7 kernel.
Vince Weaver
Small correction to description of 'flags' argument

prctl.2
Michael Kerrisk
Note equivalents of PR_SET_NAME
pthread_setname_np() and pthread_getname_np() and
/proc/self/task/TID/comm provide access to the same
attribute.

pread.2

Michael Kerrisk [ ]
pread() and pwrite() are especially useful in multithreaded applications

recv.2
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

semctl.2
Michael Kerrisk [Simone Piccardi]
'sem_nsems' is 'unsigned long' since Linux 2.4

shmget.2
Michael Kerrisk
Rewrite RETURN VALUE and mention that 'errno' is set on error

sigaction.2
Michael Kerrisk [Brian Norris]
RETURN VALUE: mention that 'errno' is set on error

signal.2
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

sigpending.2
Michael Kerrisk
RETURN VALUE: mention that 'errno'
is set on error

sigprocmask.2
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

sigsuspend.2
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

syscall.2
Mike Frysinger
Document s390/s390x calling convention

a64l.3
Peng Haitao
ATTRIBUTES: Note function that is not thread-safe
The function l64a() is not thread safe.

abs.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe

The functions abs(), labs(), llabs() and imaxabs() are
thread-safe.

aio_error.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function aio_error() is thread safe.

aio_return.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function aio_return() is thread safe.

alloca.3
Adrian Bunk
Correct information on getting non-inlined version with gcc+glibc
- remove the incorrect information
that -fno-builtin would help
- add -std=c11 to the list of strict options
- emphasize more that both the gcc option and not including
alloca.h are needed
- add the #ifdef from the glibc alloca.h to make the situation
clearer

bindresvport.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
Before glibc 2.17, bindresvport() is not thread-safe.
Since glibc 2.17, it is thread-safe, the patch can refer to URL:
http://sourceware.org/git/?p=glibc.git;a=commit;h=f6da27e53695ad1cc0e2a9490358decbbfdff5e5

canonicalize_file_name.3
Michael Kerrisk
Put CONFORMING TO section in right location

catgets.3
Michael Kerrisk [Jon Grant]
Clarify that null byte is '\0'

ceil.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions ceil(), ceilf() and ceill() are thread safe.

cimag.3
Peng Haitao
ATTRIBUTES:

Note functions that are thread-safe
The functions cimag(), cimagf() and cimagl() are thread safe.

clock_getcpuclockid.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function clock_getcpuclockid() is thread safe.

conj.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions conj(), conjf() and conjl() are thread safe.

crypt.3
Peng Haitao
ATTRIBUTES: Note function that is not thread-safe
The function crypt() is not thread safe.

ctermid.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function ctermid() is thread safe with exceptions.

dirfd.3
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

drand48.3
Peng Haitao
ATTRIBUTES: Note functions that are not thread-safe
The functions drand48(), erand48(), lrand48(), nrand48(),
mrand48(), jrand48(),
srand48(), seed48() and lcong48() are
not thread safe.

ecvt.3
Peng Haitao
ATTRIBUTES: Note functions that are not thread-safe
The functions ecvt() and fcvt() return a string located in a
static buffer which is overwritten by the next call to the
functions, so they are not thread-safe.

encrypt.3
Peng Haitao
ATTRIBUTES: Note functions that are not thread-safe
The functions encrypt() and setkey() are not thread safe.

ether_aton.3

Peng Haitao
ATTRIBUTES: Note functions that are not thread-safe
The functions ether_aton() and ether_ntoa() are not thread safe.

fcloseall.3
Peng Haitao
ATTRIBUTES: Note function that is not thread-safe
The function fcloseall() is not thread safe.

ferror.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions ferror(), clearerr(), feof() and fileno() are
thread safe.

fgetgrent.3
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

fgetpwent.3
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

fgetwc.3
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

fmtmsg.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
Before glibc 2.16, fmtmsg() is not thread-safe.
Since glibc 2.16, it is thread-safe, the patch can refer to URL:
http://sourceware.org/git/?p=glibc.git;a=commit;h=7724defcf8873116fe4efab256596861eef21a94

fputwc.3
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

getdate.3
Peng Haitao
ATTRIBUTES: Note functions that are and aren't thread-safe

getgrent.3
Peng Haitao
ATTRIBUTES: Note function that is not thread-safe
The function getgrent() is not thread safe.

getgrnam.3

Peng Haitao
ATTRIBUTES: Note functions that are and aren't
thread-safe

getline.3
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

getlogin.3
Peng Haitao
ATTRIBUTES: Note function that is not thread-safe
The function getlogin() is not thread safe.
The function cuserid() is thread-safe with exceptions.
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

getpass.3
Peng Haitao
ATTRIBUTES: Note functions that are not thread-safe

getpwent.3
Peng Haitao
ATTRIBUTES: Note function that is not thread-safe
The function getpwent() is not thread safe.

getpwnam.3
Peng Haitao
ATTRIBUTES: Note functions that are and aren't thread-safe

getspnam.3
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

getttyent.3
Peng Haitao
ATTRIBUTES: Note functions that are not thread-safe

getusershell.3
Peng Haitao
ATTRIBUTES: Note functions that are not thread-safe
The
functions getusershell(), setusershell() and endusershell()
are not thread safe.

getutent.3
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

hsearch.3
  Michael Kerrisk
    RETURN VALUE: mention that 'errno' is set on error

hsearch.3
  Peng Haitao
    ATTRIBUTES: Note functions that are not thread-safe
      The functions hsearch(), hcreate() and hdestroy() are not
      thread-safe.

localeconv.3
  Peng Haitao
    ATTRIBUTES: Note functions that are not thread-safe
      The function localeconv() returns a pointer to a structure which
      might be overwritten by subsequent calls to localeconv() or by
      calls to setlocale(), so it is not thread-safe.
  Peng Haitao
    Add RETURN VALUE section

malloc_info.3
  Michael Kerrisk
    RETURN VALUE: mention that 'errno' is set on error

mblen.3
  Peng Haitao
    ATTRIBUTES: Note function that is not thread-safe
      The
 function mblen() is not thread safe.

mbrlen.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread safe with exceptions
      The function mbrlen() is thread safe with exceptions.

mbrtowc.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread safe with exceptions
      The function mbrtowc() is thread safe with exceptions.

mktemp.3
  Michael Kerrisk
    RETURN VALUE: mention that 'errno' is set on error

modf.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions modf(), modff() and modfl() are thread safe.

popen.3
  Michael Kerrisk
    RETURN VALUE: mention that 'errno' is set on error

pthread_attr_setinheritsched.3
  Michael Kerrisk
    Note the scheduling attributes affected by this function

pthread_attr_setschedparam.3
pthread_attr_setschedpolicy.3
pthread_attr_setscope.3
  Michael Kerrisk [Manuel Traut, Siddhesh Poyarekar]
    The inherit-scheduler attribute must be set
 to PTHREAD_EXPLICIT_SCHED
      In order for the attributes set by these functions to have
      an effect, the caller must use pthread_attr_setinheritsched(3)
      to set the inherit-scheduler attribute of the attributes object
      to PTHREAD_EXPLICIT_SCHED.

ptsname.3
  Peng Haitao
    ATTRIBUTES: Note function that is not thread-safe
      The function ptsname() is not thread safe.

putenv.3
  Michael Kerrisk
    RETURN VALUE: mention that 'errno' is set on error

putpwent.3
  Michael Kerrisk
    RETURN VALUE: mention that 'errno' is set on error

qecvt.3
  Peng Haitao
    ATTRIBUTES: Note functions that are not thread-safe
      The functions qecvt() and qfcvt() are not thread-safe.

random.3
  Michael Kerrisk
    RETURN VALUE: mention that 'errno' is set on error
  Michael Kerrisk
    Add EINVAL error for setstate()
  Michael Kerrisk
    BUGS: initstate() does not return NULL on error
      http://sourceware.org/bugzilla/show_bug.cgi?id=15380

random_r.3

Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

readdir.3
Peng Haitao
ATTRIBUTES: Note functions that are not thread-safe
The data returned by readdir() may be overwritten by subsequent
calls to readdir() for the same directory stream, so it is not
thread-safe.

re_comp.3
Peng Haitao
ATTRIBUTES: Note functions that are not thread-safe
The functions re_comp() and re_exec() are not thread safe.

rexec.3
Peng Haitao
ATTRIBUTES: Note functions that are not thread-safe
The functions rexec() and rexec_af() are not thread safe.

round.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions round(), roundf() and roundl() are thread safe.

scalbln.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions scalbn(), scalbnf(),
scalbnl(), scalbln(),
scalblnf() and scalblnl() are thread safe.

scandir.3
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

siginterrupt.3
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

signbit.3
Peng Haitao
ATTRIBUTES: Note macro that is thread-safe
The macro signbit() is thread safe.

sigsetops.3
Michael Kerrisk
RETURN VALUE: mention that 'errno' is set on error

stdio_ext.3
  Peng Haitao
    ATTRIBUTES: Note functions that are not thread-safe
      The functions __fbufsize(), __fpending(), __fpurge() and
      __fsetlocking() are not thread safe.

strdup.3
  Michael Kerrisk
    RETURN VALUE: mention that 'errno' is set on error

strerror.3
  Peng Haitao
    ATTRIBUTES: Note function that is not thread-safe
      The function strerror() is not thread safe.

strftime.3
  Michael Kerrisk
    Clarify details of return value
  Michael
 Kerrisk
    BUGS: 'errno' is not set if the result string would exceed 'max' bytes

strtok.3
  Peng Haitao
    ATTRIBUTES: Note function that is not thread-safe
      The function strtok() is not thread safe.
  Michael Kerrisk [Georg Sauthoff]
    Add more detail on the operation of strtok()
      Add a number of missing details on the operation of strtok()

tempnam.3
  Michael Kerrisk
    RETURN VALUE: mention that 'errno' is set on error

timegm.3
  Jérémie Galarneau
    copy the string returned by getenv()
      The example of a portable version of timegm() uses the string
      returned by getenv() after calling setenv() on the same
      environment variable. The tz string may be invalid as per
      getenv.3:

            "The string pointed to by the return value of getenv()
             may be statically allocated, and can be modified by a
             subsequent call to getenv(), putenv(3),
 setenv(3), or
             unsetenv(3)."

tmpnam.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread safe with exceptions
      The function tmpnam() is thread safe with exceptions.

trunc.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions trunc(), truncf() and truncl() are thread safe.

ttyname.3
  Michael Kerrisk
    ATTRIBUTES: Note functions that are and aren't thread-safe

ttyslot.3
  Michael Kerrisk
    ATTRIBUTES: Note functions that are not thread-safe

usleep.3
  Michael Kerrisk
    RETURN VALUE: mention that 'errno' is set on error

wcsdup.3
  Michael Kerrisk
    RETURN VALUE: mention that 'errno' is set on error

core.5
  Michael Kerrisk
    Implicitly adding the PID to a core filename was dropped in 2.6.27

proc.5
  Michael Kerrisk
    Document /proc/[pid]/fd/ anon_inode symlinks
  Mike Frysinger
    Document /proc/[pid]/fd/ symlinks a bit more

      Describe the type:[inode] syntax used in this dir

bootparam.7
  Michael Kerrisk [Dan Jacobson]
    Remove outdated text on LILO and LoadLin
      Strike the discussion of LILO and LoadLin, which
      are long obsolete, and make a brief mention of GRUB.
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=604019
  Regid
    Remove mention of the deprecated rdev(8)
      The deprecated rdev(8) command was removed from util-linux in 2010.

See https://git.kernel.org/?p=utils/util-linux/util-linux.git;a=commit;h=a3e40c14651fccf18e7954f081e601389baefe3fO
  Andrea Remondini
    Document the 'resume' boot parameter

inotify.7
  Michael Kerrisk [Jon Grant]
    Clarify that null byte is '\0'

iso_8859-2.7
  Eric S. Raymond
    Remove incorrect reference to nonexistent groff glyph \[shc]
      The reference incorrectly attempted to duplicate an
      actual soft hyphen (hex 0xad) just before it in the
file.

man-pages.7
  Peng Haitao
    Add description of "ATTRIBUTES"
      "ATTRIBUTES" section can mention thread safety,
      cancellation safety, and async-cancel-safety.

socket.7
  Michael Kerrisk
    Note that 'optval' for socket options is an 'int' in most cases

tcp.7
  Michael Kerrisk
    Note that 'optval' for socket options is an 'int' in most cases

udp.7
  Michael Kerrisk
    Note that 'optval' for socket options is an 'int' in most cases

========== Changes in man-pages-3.53 ==========

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Apologies if I missed anyone!

New and rewritten pages
---

restart_syscall.2
  Michael Kerrisk
    New page for restart_syscall(2) system call

Newly documented interfaces in existing pages
---

fchownat.2
  Michael Kerrisk
    Document AT_EMPTY_PATH

fstatat.2
  Michael Kerrisk
    Document AT_EMPTY_PATH

linkat.2
  Michael Kerrisk
    Document AT_EMPTY_PATH

open.2
  Michael Kerrisk [Al Viro]
    Document O_PATH
      See also https://bugzilla.redhat.com/show_bug.cgi?id=885740

Changes to individual pages
---

clock_nanosleep.2
futex.2
nanosleep.2
poll.2
sigaction.2
sigreturn.2
signal.7
  Michael Kerrisk
    SEE ALSO: add restart_syscall(2)

open.2
  Michael Kerrisk [Geoffrey Thomas]
    Remove warning that O_DIRECTORY is only for use with opendir(3)
      O_DIRECTORY can also be used with, for example, O_PATH.

perf_event_open.2
  Vince Weaver
    Improve PERF_SAMPLE_BRANCH_STACK documentation
  Vince Weaver
    Fix indentation of the MMAP layout section
      The indentation of the MMAP layout section wasn't quite right.
      I think this improves things but I admit I'm not an expert at the
      low-level indentation directives.
  Vince Weaver
    Update PERF_IOC_FLAG_GROUP info
      It turns out PERF_IOC_FLAG_GROUP was broken from 75f937f24bd9
      (in Linux 2.6.31, the initial perf_event release) until
      724b6daa1 (Linux 3.4).

      I've done some extensive kernel source code digging plus

    running tests of various kernels and I hope the info
      presented is accurate now.

      (Patch edited somewhat by mtk.)
  Vince Weaver
    Improve sysfs files documentation
      This improves the documentation of the various
      perf_event_open()-related sysfs files.

ptrace.2
  Denys Vlasenko [Oleg Nesterov, Dmitry V. Levin]
    If SEIZE was used, initial auto-attach stop is EVENT_STOP
      For every PTRACE_O_TRACEfoo option, mention that old-style SIGSTOP

is replaced by PTRACE_EVENT_STOP if PTRACE_SEIZE attach was used.

Mention the same thing again in the description of
PTRACE_EVENT_STOP.
Denys Vlasenko [Oleg Nesterov, Dmitry V. Levin]
Mention that PTRACE_PEEK* libc API and kernel API are different
Denys Vlasenko [Oleg Nesterov, Dmitry V. Levin]
Clarify PTRACE_INTERRUPT, PTRACE_LISTEN, and group-stop behavior

readlink.2
Michael Kerrisk
Document use of empty
'pathname' argument
Michael Kerrisk
Change error check in example program from "< 0" to "== -1"
Chuck Coffing
Fix possible race condition in readlink.2 example
I noticed that the example in the readlink.2 man pages does error
checking for a race condition that would cause the value of the
symbolic link to get larger. However, it doesn't handle the
opposite case, in which the value gets shorter. (The NULL
terminator is always set at the old, longer offset.) This could
cause the program to operate on uninitialized data.

setpgid.2
Michael Kerrisk [Graud]
s/SIGTSTP/SIGTTIN/ when discussing reads from terminal
See https://bugzilla.kernel.org/show_bug.cgi?id=60504

clog2.3
Michael Kerrisk
Note that these functions are still not present in glibc 2.17

dirfd.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function
dirfd() is thread safe.

div.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions div(), ldiv(), lldiv() and imaxdiv() are thread
safe.

fabs.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe

The functions fabs(), fabsf() and fabsl() are thread safe.

fdim.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions fdim(), fdimf() and fdiml() are thread safe.

fflush.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function fflush() is thread safe.

finite.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions finite(), finitef(), finitel(), isinf(), isinff(),
isinfl(), isnan(), isnanf() and isnanl() are thread safe.

flockfile.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions flockfile(), ftrylockfile() and funlockfile()
are
thread safe.

floor.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions floor(), floorf() and floorl() are thread safe.

resolv.conf.5
Simon Paillard
Explain how to set empty domain
See http://bugs.debian.org/463575

capabilities.7
Michael Kerrisk
Add open_by_handle_at(2) under CAP_DAC_READ_SEARCH

inotify.7
Michael Kerrisk [Felix Schulte]
Clarify description of IN_MOVED_FROM and IN_MOVED_TO

man-pages.7
Michael Kerrisk
DESCRIPTION should note versions for new interface features or behavior

udp.7

Benjamin Poirier
Add missing #include directive
Using the UDP_CORK socket option documented in udp.7 requires
including <netinet/udp.h>.

ld.so.8
Michael Kerrisk
Rework rpath token expansion text
Michael Kerrisk
Describe $PLATFORM rpath token
Michael Kerrisk
Describe $LIB rpath token

Michael Kerrisk
Document LD_BIND_NOT
Michael Kerrisk [Simon Paillard]
Add reference to pthreads(7) in discussion of LD_ASSUME_KERNEL

========== Changes in man-pages-3.54 ==========

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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

ioctl_list.2
  Zsbán Ambrus
    Document FAT_IOCTL_GET_ATTRIBUTES
      The attached patch adds four ioctls from linux/msdos_fs.h to the
      ioctl_list(2) manpage.

      The ioctl FAT_IOCTL_GET_ATTRIBUTES
reads FAT attributes of a
      file a mounted vfat file system. I tested this on Linux
      2.6.33, an example script can be found at
      http://www.perlmonks.com/?node_id=832623

Global changes

Various pages
  Michael Kerrisk
    Global fix: s/file system/filesystem/
      Notwithstanding 24d01c530c5a3f75217543d02bf6712395e5f90c,
      "filesystem" is the form used by the great majority of man pages
      outside the man-pages project and in a number of other sources,

so let's go with that.

Changes to individual pages
---

access.2
  J. Bruce Fields
    Fix outdated NFS information
      Note that NFS versions since version 3 support an "access" call
      so that the client doesn't have to guess permissions or ID
      mapping on its own.

      (See RFC 1813 sections 1.7 and 3.3.4.)

adjtimex.2
  Michael Kerrisk
    SEE ALSO: Add adjtimex(8)

clock_getres.2
   Michael Kerrisk [Rodrigo Campos]
    Note circumstances in which "SMP" note applies.
  Michael Kerrisk
    Add kernel version for CLOCK_*_CPUTIME_ID
      CLOCK_PROCESS_CPUTIME_ID and CLOCK_THREAD_CPUTIME_ID
      appeared in 2.6.12.
  Michael Kerrisk
    Add VERSIONS section

futex.2
  Michael Kerrisk
    The 'timeout' can be rounded upwards by clock granularity and also overrun

kill.2
  Michael Kerrisk
    Small improvements to text on historical rules for permissions

nfsservctl.2
  Michael Kerrisk
    Note commands that were only in Linux 2.4.x and earlier

open.2
  Robert Harris
    Add mmap(2) to list of calls that fail when given an O_PATH descriptor
  Doug Goldstein
    Add EINVAL to errors list
      EINVAL can be returned by open(2) when the underlying filesystem
      doesn't support O_DIRECT. It is documented in the NOTES section

but this patch adds it to the list
of possible errors.

perf_event_open.2
  Vince Weaver
    PERF_SAMPLE_BRANCH_STACK updates
      This started out as just adding the new perf_event_open features
      from Linux 3.11 (which was the addition of transactional memory
      defines for PERF_SAMPLE_BRANCH_STACK samples) but turned into a
      general cleanup of the PERF_SAMPLE_BRANCH_STACK documentation.

      The main clarification is that at least one of the non-privilege
      values must be set or else perf_event_open() will return an EINVAL
      error.
  Michael Kerrisk
    Reorder text describing fields of 'perf_event_header' structure
      Place the fields with the shorter descriptions first, to make the
      information easier to read.

poll.2
  Michael Kerrisk
    Clarify wording of 'timeout' as a "minimum" interval

sched_setaffinity.2
  Michael Kerrisk [Christos Tsopokis]
    Clarify that these system calls affect a per-thread
attribute

sched_setparam.2
  Michael Kerrisk
    Clarify that this system call applies to threads (not processes)

sched_setscheduler.2
  Michael Kerrisk
    Clarify that this system call applies to threads (not processes)

select.2
  Michael Kerrisk [G.raud]
    Clarify wording of 'timeout' as a "minimum" interval

setfsgid.2
  Michael Kerrisk [Oleg Nesterov]
    Clarify description of return value
      More clearly describe the weirdness in the return value of this
      system call, and note the problems it creates in BUGS
  Michael Kerrisk
    Correct header file in SYNOPSIS
  Michael Kerrisk

Refer to setfsuid(2) for an explanation of why setfsgid() is obsolete
Michael Kerrisk
Wording improvements

setfsuid.2
Michael Kerrisk [Oleg Nesterov]
Clarify description of return value
More clearly describe the weirdness in the return value of this
system call, and note the problems it creates
in BUGS
Michael Kerrisk [Chen Gang]
Clarify historical details and note that setfsuid() is obsolete
Michael Kerrisk
Wording improvements
Michael Kerrisk
Correct header file in SYNOPSIS

sigwaitinfo.2
Michael Kerrisk
Clarify wording of 'timeout' as a "minimum" interval

syscall.2
Johan Erlandsson
Add missing argument in example
Johan Erlandsson
Correct registers for arm/EABI
Registers was off by one.

Reference:
http://www.arm.linux.org.uk/developer/patches/viewpatch.php?id=3105/4

See also:
http://peterdn.com/post/e28098Hello-World!e28099-in-ARM-assembly.aspx
https://wiki.debian.org/ArmEabiPort
http://en.wikipedia.org/wiki/Calling_convention#ARM

wait.2
Michael Kerrisk [Hannes Landeholm]
Add details on the fifth argument provided by raw waitid() system call
See https://bugzilla.kernel.org/show_bug.cgi?id=60744

clock.3
Michael Kerrisk
clock() switched from using times(2) to clock_gettime() in glibc 2.18

drand48_r.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe

The functions drand48_r(), erand48_r(), lrand48_r(),
nrand48_r(), mrand48_r(), jrand48_r(), srand48_r(), seed48_r(),
and lcong48_r() are thread safe.

fma.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions fma(), fmaf() and fmal() are thread safe.

fmax.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions fmax(), fmaxf() and fmaxl() are thread safe.

fmin.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions fmin(), fminf() and fminl() are thread safe.

fpclassify.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions fpclassify(), isfinite(), isnormal(), isnan(), and
isinf() are thread safe.

frexp.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions frexp(), frexpf() and frexpl() are thread safe.

gethostbyname.3
Michael Kerrisk [Jon Grant]
gai_strerror() is the modern replacement for herror() and hstrerror()
Michael Kerrisk
Update feature test macro requirements for herror() and hstrerror()
Michael Kerrisk
Add feature test macro requirements for h_errno

ilogb.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions ilogb(), ilogbf() and ilogbl() are thread safe.

ldexp.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions ldexp(), ldexpf() and ldexpl() are thread safe.

lrint.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions lrint(), lrintf(), lrintl(), llrint(), llrintf(),
      and llrintl() are thread safe.

lround.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions lround(), lroundf(), lroundl(), llround(),
      llroundf() and llroundl() are thread safe.

lseek64.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function lseek64() is thread safe.

mbsinit.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function mbsinit() is thread safe.

nextafter.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions nextafter(), nextafterf(), nextafterl(),
      nexttoward(), nexttowardf() and nexttowardl() are thread safe.

posix_memalign.3
  Michael Kerrisk [Will Newton]
    'errno" is indeterminate after a call to posix_memalign()
  Michael Kerrisk [Will Newton]
    Clarify wording on "return value" when size==0

printf.3
  Christopher Hall
    Correctly describe the meaning of a negative precision
      The printf(3) manpage says that a negative precision is taken to
      be zero, whereas printf(3p) says that a negative precision is
      taken as if the precision were omitted. glibc agrees with the
      latter (POSIX) specification.

      Test code:

        printf("%f\n",42.0);   // "42.000000"
        printf("%.*f\n",0,42.0); // "42"
        printf("%.*f\n",-1,42.0); // "42.000000"

This patch corrects the explanation to match what actually happens.

rewinddir.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function rewinddir() is thread safe.

rint.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions nearbyint(), nearbyintf(), nearbyintl(), rint(),
      rintf() and rintl() are thread safe.

seekdir.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function seekdir() is
 thread safe.

telldir.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function telldir() is thread safe.

wctomb.3
  Peng Haitao
    ATTRIBUTES: Note function that is not thread-safe
      The function wctomb() is not thread safe.

wavelan.4
  Michael Kerrisk [Elie De Brauwer]
    This driver disappeared in 2.56.35

dir_colors.5
  Michael Kerrisk [Stas]
    Add various synonyms
      See http://bugs.debian.org/553477
  Simon Paillard [Stas]
    Add keywords SUID, SGID, STICKY, STICKY_OTHER_WRITABLE, OTHER_WRITABLE
      See http://bugs.debian.org/553477
      See ls.c and dircolors.c in coreutils

proc.5
  Peter Schiffer
    Document /proc/[pid]/io file
      Attempt to document fields in the /proc/[pid]/io file, based on
      the Documentation/filesystems/proc.txt. The text will probably
      need some grammar corrections.

Michael Kerrisk [Marko Myllynen]
/proc/sys/fs/inode-max
went away in Linux 2.4
Also, the 'preshrink' field in /proc/sys/fs/inode-state became
a dummy value in Linux 2.4.

See https://bugzilla.kernel.org/show_bug.cgi?id=60836
Michael Kerrisk [A. Costa]
Note block size used by /proc/partitions
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=666972
Michael Kerrisk
Add rationale on drop_caches and note that it can hurt performance
See also http://lwn.net/Articles/562211/

bootparam.7
Michael Kerrisk [Eugen Dedu]
Remove "lilo" entries from SEE ALSO
See http://bugs.debian.org/604019

inotify.7
Michael Kerrisk
SEE ALSO: add inotifywait(1) and inotifywatch(1)

ip.7
Simon Paillard
IP_MULTICAST_IF setsockopt recognizes struct mreq (compatibility)
Kernel added compatibility only recently in
3a084ddb4bf299a6e898a9a07c89f3917f0713f7
See: http://bugs.debian.org/607979

standards.7
Michael Kerrisk
Add mention of SUSv4-TC1 (POSIX.1-2013)

========== Changes in man-pages-3.55 ==========

Released: 2013-12-12, Christchurch

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Apologies if I missed anyone!

Global changes
---

assert.3
assert_perror.3
rexec.3
rpc.3
  Michael Kerrisk [Jon Grant]
    Reword a sentence to use more gender-neutral language

Changes to individual pages
---

execve.2
  Michael Kerrisk
    'arg...' for interpreter scripts starts with argv[1]

fallocate.2
  Christoph Hellwig
    Clarify the zeroing behavior

fallocate() zeroes only space that did not previously contain
data, but leaves existing data untouched.

futex.2
Rodrigo Campos
Fix link to Rusty's futex example library
When I asked to webmaster@kernel.org, Konstantin Ryabitsev
answered that the ".nl." is "an obsolete scheme and really

should be changed to just ftp.kernel.org".

getgroups.2
Michael Kerrisk
Note that NGROUPS_MAX is defined in <limits.h>
Michael Kerrisk
Clarify that sysconf(_SC_NGROUPS_MAX) is a run-time technique
Michael Kerrisk
Document /proc/sys/kernel/ngroups_max

ioctl.2
Michael Kerrisk [KOSAKI Motohiro, David Gibson]
'request' argument is typed as 'unsigned long' in glibc
See https://bugzilla.kernel.org/show_bug.cgi?id=42705

perf_event_open.2
Vince Weaver
Linux 3.12 rdpmc/mmap
It turns out that the perf_event mmap page rdpmc/time setting was
broken, dating back to the introduction of the feature. Due
to a mistake with a bitfield, two different values mapped to
the same feature bit.

A new somewhat backwards compatible interface was introduced
in Linux 3.12. A much longer report on the issue can be found
here:
https://lwn.net/Articles/567894/
Vince Weaver
Linux 3.12 adds PERF_SAMPLE_IDENTIFIER
A new PERF_SAMPLE_IDENTIFIER sample type was added in Linux 3.12.
Vince Weaver
E2BIG documentation
The following documents the E2BIG error return for
perf_event_open().

I actually ran into this error the hard way and it took me
half a day to figure out why my ->size value was changing.
Vince Weaver
Linux 3.12 adds PERF_EVENT_IOC_ID

A new perf_event related ioctl, PERF_EVENT_IOC_ID, was added
in Linux 3.12.

Vince Weaver

PERF_COUNT_SW_DUMMY support

Support for the PERF_COUNT_SW_DUMMY event type was added in
Linux 3.12.

Vince Weaver [Andreas Sandberg]

PERF_EVENT_IOC_PERIOD update

The PERF_EVENT_IOC_PERIOD ioctl was broken until 2.6.36,
and it turns out that the ARM architecture has some
differing behavior too.

pipe.2

Trevor Bramwell

Fix error in example program

poll.2

Michael Kerrisk [Paolo Bonzini]

Clarify meaning of events==0

events==0 does not mean that revents is always returned as
zero. The "output only" events (POLLHUP, POLLERR, POLLNVAL)
can still be returned.

See https://bugzilla.kernel.org/show_bug.cgi?id=61911

readlink.2

Michael Kerrisk [Yuanhang Zheng]

Fix typo in error message in example program

recv.2

Michael Kerrisk

Remove out-of-date statement that UNIX domain does not support MSG_TRUNC

Should have removed that sentence as part of
commit a25601b48b822eb1882ae336574b8d062a17e564

sched_get_priority_max.2

Michael Kerrisk

Add SCHED_IDLE to discussion

send.2

Michael Kerrisk

RETURN VALUE: these calls return number of bytes (not characters) sent

setreuid.2

Michael Kerrisk

Small clarification to description of when saved
set-user-ID is set

sigpending.2
  Michael Kerrisk
    Note treatment of signals that are blocked *and* ignored

stat.2
  Michael Kerrisk
    Note filesystem support for nanosecond timestamps
      Add some detail on which native filesystems do and don't
      support nanosecond timestamps.
  Michael Kerrisk
    Cosmetic reworking of timestamp discussion in NOTES
  Michael Kerrisk [Yang Yang]
    Update discussion of nanosecond timestamps
      The existing text describes the timestamp fields as 'time_t'
      and delegates discussion of nanosecond timestamps under NOTES.
      Nanosecond timestamps have been around for a while now,
      and are in POSIX.1-2008, so reverse the orientation of the
      discussion, putting the nanosecond fields into DESCRIPTION
      and detailing the historical situation under NOTES.

symlink.2
  Michael Kerrisk
    Further fine tuning of argument names
      Follow-up
 to f2ae6dde0c68448bec986d12fe32268a2c98bfd9
      See https://sourceware.org/bugzilla/show_bug.cgi?id=16073
  Michael Kerrisk [Fabrice Bauzac]
    Give arguments of symlink() more meaningful names

adjtime.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function adjtime() is thread safe.

alloca.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function alloca() is thread safe.

asinh.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions asinh(), asinhf() and asinhl() are thread safe.

atan.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions atan(), atanf() and atanl() are thread safe.

atof.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread safe with exceptions
      The function atof() is thread safe with exceptions.

atoi.3
  Peng Haitao
    ATTRIBUTES: Note functions that
 are thread safe with exceptions
      The functions atoi(), atol() and atoll() are thread safe with
      exceptions.

bcmp.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function bcmp() is thread safe.

bcopy.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function bcopy() is thread safe.

bsd_signal.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function bsd_signal() is thread safe.

bzero.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function bzero() is thread safe.

cbrt.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions cbrt(), cbrtf() and cbrtl() are thread safe.

copysign.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions copysign(), copysignf() and copysignl() are thread
      safe.

cos.3
  Peng Haitao
     ATTRIBUTES: Note functions that are thread-safe
      The functions cos(), cosf() and cosl() are thread safe.

cproj.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions cproj(), cprojf() and cprojl() are thread safe.

creal.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions creal(), crealf() and creall() are thread safe.

daemon.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function daemon() is thread safe.

des_crypt.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions ecb_crypt(), cbc_crypt() and des_setparity() are
      thread safe.

difftime.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function difftime() is thread safe.

dysize.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function dysize()
 is thread safe.

erf.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions erf(), erff() and erfl() are thread safe.

erfc.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions erfc(), erfcf() and erfcl() are thread safe.

euidaccess.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions euidaccess() and eaccess() are thread safe.

expm1.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions expm1(), expm1f() and expm1l() are thread safe.

fexecve.3
  Michael Kerrisk
    POSIX.1-2008 specifies fexecve()
  Michael Kerrisk
    Explain the use and rationale of fexecve()

ftime.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function ftime() is thread safe.

ftok.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function
 ftok() is thread safe.

ftw.3
  Michael Kerrisk
    nftw() visits directories with FTW_D if FTW_DEPTH was not specified
  Michael Kerrisk
    Explain probable cause of FTW_NS

futimes.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions futimes() and lutimes() are thread safe.

getaddrinfo.3
  Michael Kerrisk
    Explain one use case for AI_ADDRCONFIG
  Michael Kerrisk
    Highlight difference in ai_flags when hints==NULL
      NOTES already described how glibc differs from POSIX.
      Add a pointer to that text from the point in DESCRIPTION
      where hints==NULL is discussed.

kcmp.3
  Shawn Landden
    Reword slightly awkward section

malloc.3
  Greg Price

Scale back promises of alignment
It's not true that the return value is suitably aligned for "any variable"; for example, it's unsuitable for a variable like
float *x __attribute__ ((__vector_size__ (32)));
which requires 32-byte alignment. Types like this are defined in <avxintrin.h>, and with 16-byte alignment in <emmintrin.h> and <xmmintrin.h>, so the application programmer need not even know that a vector_size attribute has been applied.

On an x86 architecture, a program that loads from or stores to a pointer with this type derived from malloc can crash because GCC generates an aligned load/store, like MOVDQA.

The C99 standard (TC3, as of N1256) does say the return value is suitably aligned for "any type of object". The C11 standard (as of N1570) revises this to any type with "fundamental alignment", which means an alignment "supported by the implementation in all contexts", which I suppose tautologically includes aligning malloc/realloc return values.

The actual behavior of current glibc malloc is to align to the
greater of 2 * sizeof(size_t) and __alignof__ (long double), which may be one bit greater than this commit promises.

mq_receive.3
Michael Kerrisk [janh]
msg_len must be greater than *or equal to* mq_msgsize
See https://bugzilla.kernel.org/show_bug.cgi?id=64571

setenv.3
Michael Kerrisk
Clarify that setenv() returns success in the overwrite==0 case

sigsetops.3
Michael Kerrisk [Robert P. J. Day]
Add 'const' to sigisemptyset(), sigorset(), sigandset() declarations
Michael Kerrisk
Rework text describing sigisemptyset(), sigorset(), and sigandset()

statvfs.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions statvfs() and fstatvfs() are thread safe.

stdarg.3
Peng Haitao

ATTRIBUTES: Note macros that are thread-safe
The macros va_start(), va_arg(), va_end() and va_copy() are thread safe.

termios.3

Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions tcgetattr(), tcsetattr(), tcsendbreak(), tcdrain(), tcflush(), tcflow(), cfmakeraw(), cfgetispeed(), cfgetospeed(), cfsetispeed(), cfsetospeed() and cfsetspeed() are thread safe.

ungetwc.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function ungetwc() is thread safe.

unlockpt.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function unlockpt() is thread safe.

usleep.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function usleep() is thread safe.

wcpcpy.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcpcpy() is thread safe.

wcscasecmp.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function wcscasecmp() is thread safe with exceptions.

wcscat.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcscat() is thread safe.

wcschr.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcschr() is thread safe.

wcscmp.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcscmp() is thread safe.

wcscpy.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcscpy() is thread safe.

wcscspn.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcscspn() is thread safe.

wcslen.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcslen() is thread safe.

wcsncasecmp.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function wcsncasecmp() is thread safe with exceptions.

wcsncat.3
Peng Haitao
ATTRIBUTES:
Note function that is thread-safe
The function wcsncat() is thread safe.

wcsncmp.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcsncmp() is thread safe.

wcsncpy.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcsncpy() is thread safe.

wcsnlen.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcsnlen() is thread safe.

wcspbrk.3
Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function wcspbrk() is thread safe.

wcsrchr.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcsrchr() is thread safe.

wcsspn.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcsspn() is thread safe.

wcsstr.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcsstr() is
thread safe.

wcstoimax.3
Peng Haitao
ATTRIBUTES: Note functions that are thread safe with exceptions
The functions wcstoimax() and wcstoumax() are thread safe with exceptions.

wcstok.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wcstok() is thread safe.

wcswidth.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function wcswidth() is thread safe with exceptions.

wctrans.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function wctrans() is thread safe with exceptions.

wctype.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function wctype() is thread safe with exceptions.

wcwidth.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions

The function wcwidth() is thread safe with exceptions.

wmemchr.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wmemchr() is thread safe.

wmemcmp.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wmemcmp() is thread safe.

wmemcpy.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wmemcpy() is thread safe.

wmemmove.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wmemmove() is thread safe.

wmemset.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function wmemset() is thread safe.

tty_ioctl.4
Michael Kerrisk [Liu Jiaming]
Note that 'arg' should be 0 in the usual case when using TIOCSCTTY
Michael Kerrisk
Rework text on root to discuss just in terms of capabilities

proc.5
Michael Kerrisk
Document /proc/sys/kernel/ngroups_max

capabilities.7
Michael Kerrisk
Fix 2 version
numbers under "Effect of user ID changes on capabilities"

feature_test_macros.7
Michael Kerrisk
Add _ISOC11_SOURCE to example program

tcp.7
Michael Kerrisk

Fix (nontrivial) wordo in discussion of MSG_TRUNC
s/MSG_PEEK/MSG_TRUNC/

ld.so.8
Michael Kerrisk [Alfred Agrell]
Fix crufty wording in one sentence

========== Changes in man-pages-3.56 ==========

Released: 2014-01-11, Christchurch

In memory of Doris Church (1939-2013)

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

fgetc.3
gets.3
  David Malcolm
    Split gets(3) to isolate unsafe gets(3) to a page on its own
      Currently man3/gets.3 documents various safe I/O functions, along
      with the toxic "gets" function.

      At the risk of being melodramatic, this strikes me as akin to
      storing rat poison in a food cabinet, in the same style of
      packaging as the food, but with a post-it note on it saying
      "see warnings below".

      I think such "never use this" functions should be quarantined
      into their own manpages, rather than listing them alongside
      sane functions.

      The attached patch does this for "gets", moving the documentation
      of the good functions from man3/gets.3 into man3/fgetc.3,
      updating the SO links in the relevant functions to point at the
      latter.

      It then rewrites man3/gets.3 to spell out that "gets" is toxic
      and should never be
 used (with a link to CWE-242 for good
      measure).
  Michael Kerrisk [Andre Majorel]
    Tweaks to David Malcolm's patch

vdso.7
  Mike Frysinger
    New page documenting the vDSO mapped into each process by the kernel

Newly documented interfaces in existing pages

---

reboot.2
  Elie De Brauwer
    Document LINUX_REBOOT_SW_SUSPEND

New and changed links
---

fgets.3
getc.3
getchar.3
ungetc.3
  Michael Kerrisk
    Adjust links to gets(3) to point to fgetc(3)

Global changes

Various pages
  Michael Kerrisk
    Global fix of "NULL pointer"
      Change "NULL pointer" to "NULL" or null pointer".
      POSIX uses the term "null pointer", not "NULL pointer".

Various pages
  Michael Kerrisk
    Stylistic changes to code example
      For ease of reading, don't embed assignments inside if().

Various pages
  Michael Kerrisk
    Replace uses of
 "i.e.," in main text with "that is" or similar
      Usual man-pages style is to use "i.e." only within
      parenthetical expressions.

Various pages
  Michael Kerrisk
    Replace uses of "e.g." in main text with "for example" or similar
        Usual man-pages style is to use "e.g." only within
        parenthetical expressions.

Various pages
  Michael Kerrisk
    Add "Program source" subheading under EXAMPLE

Various pages
  Michael Kerrisk
    Add "static" to global variables and functions in example program

Changes to individual pages
---

clock_getres.2
  Michael Kerrisk [Nadav Har'El]
    Improve description of CLOCK_PROCESS_CPUTIME_ID
      See https://bugzilla.kernel.org/show_bug.cgi?id=67291

close.2
  Michael Kerrisk [P?draig Brady]
    Note that errors from close() should be used only for diagnosis
      In particular, retrying after EINTR is a bad idea.

      See http://austingroupbugs.net/view.php?id=529

       See http://thread.gmane.org/gmane.comp.lib.glibc.alpha/37702
      Subject: [RFC][BZ #14627] Make linux close errno to EINPROGRESS
            when interrupted in signal.

execve.2
  Michael Kerrisk [Marco Dione]
    Add further cases to EFAULT error
      See https://sourceware.org/bugzilla/show_bug.cgi?id=16402

perf_event_open.2
  Vince Weaver [Sudhanshu Goswami]
    Clarify issues with the disabled bit
      Clarify the perf_event_open behavior with respect to the disabled
      bit and creating event groups.
  Vince Weaver [Sudhanshu Goswami]
    Clarify issues with the exclusive bit
      Warn that using the perf_event_open "exclusive" bit, while
      it might seem like a good idea, might lead to all 0 results
      in some common usage cases.

reboot.2
  Elie De Brauwer
    Mention RB_POWER_OFF
      The manpage did not mention RB_POWER_OFF which
 is the glibc
      symbolic name for LINUX_REBOOT_CMD_POWER_OFF.

$ cd /usr/include
$ cat x86_64-linux-gnu/sys/reboot.h | grep POWER_OFF
define RB_POWER_OFF 0x4321fedc
Elie De Brauwer
Add "Linux" to kernel version numbers
Michael Kerrisk
Add RB_SW_SUSPEND synonym
Michael Kerrisk
Add RB_KEXEC synonym

setpgid.2
Michael Kerrisk [Joseph S. Myers]
BSD getpgrp() and setpgrp() go away in glibc 2.19

socket.2
Michael Kerrisk [Dongsheng Song]
Remove crufty statement that AF_INET does not support SOCK_SEQPACKET
Linux AF_INET supports SOCK_SEQPACKET via SCTP.

syscall.2
Mike Frysinger
Fix ia64 registers
The original list of registers was created by confusing strace
source code--this is for parsing legacy 32-bit code (which is
dead and no one cares). Update the list to reflect native ia64
syscall interface.

syscall.2
syscalls.2
getauxval.3
Mike Frysinger
Add references to new vdso(7) page

utimensat.2
Michael Kerrisk
Small wording improvement for times!=NULL case

dlopen.3
Michael Kerrisk [Mike Frysinger]
Update remarks on cast needed when assigning dlsym() return value
POSIX.1-2013 eases life when casting the dlsym() return value to a
function pointer
Michael Kerrisk [Stephen Kell]
Fix description of dli_sname
See https://sourceware.org/bugzilla/show_bug.cgi?id=16262

getline.3
Michael Kerrisk [Luke Hutchison]

Correct description of how '*n' is used when '*lineptr' == NULL
See https://sourceware.org/bugzilla/show_bug.cgi?id=5468
Michael Kerrisk
Remove SEE ALSO reference to unsafe gets(3)

mcheck.3
Simon Paillard [Raphael Geissert]
typo in compiler flag
See http://bugs.debian.org/732464

mkstemp.3
Michael Kerrisk [Janne Blomqvist]
Better
describe 'flags' that can be specified for mkostemp()

printf.3
Michael Kerrisk [Arif Zaman]
Fix memory leak in snprintf() example
See http://stackoverflow.com/questions/19933479/snprintf-man-page-example-memory-leak

pthread_kill.3
Michael Kerrisk [Mathieu Desnoyers]
POSIX.1-2008 removes ESRCH
POSIX.1-2001 mistakenly documented an ESRCH error, and
POSIX.1-2008 removes this error. Glibc does return
this error in cases where it can determine that a thread ID
is invalid, but equally, the use of an invalid thread ID
can cause a segmentation fault.

puts.3
Michael Kerrisk
SEE ALSO: replace reference to gets(3) with fgets(3)

scanf.3
Michael Kerrisk [Ondej Bílka]
Improve discussion of obsolete 'a' dynamic allocation modifier

setjmp.3
Michael Kerrisk [Joseph S. Myers]
BSD setjmp() semantics go away in glibc 2.19

sigpause.3
Michael Kerrisk [Joseph
S. Myers]
BSD sigpause() goes away in glibc 2.19
Michael Kerrisk
Correct feature text macro requirements
Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function sigpause() is thread safe.

sigqueue.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function sigqueue() is thread safe.

sigwait.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function sigwait() is thread safe.

sin.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions sin(), sinf() and sinl() are thread safe.

sincos.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions sincos(), sincosf() and sincosl() are thread safe.

string.3
Moritz 'Morty' Strübe
Add short description of the functions
It is helpful to have a short description about what the different
functions
in string.h do.
Michael Kerrisk
Fixes and enhancements to Moritz Strübe's patch

strptime.3
Michael Kerrisk [Mathieu Malaterre, Simon Paillard]
Add number ranges to comments in 'tm' structure
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=729570
Michael Kerrisk
Point to ctime(3) for more details on 'tm' structure
Michael Kerrisk
Some rewording and reorganization

strsep.3
Michael Kerrisk
Clarify description
The use of "symbols" in the existing description is confusing;
it's "bytes". Other fixes as well.

strspn.3

Michael Kerrisk [Mathieu Malaterre]
Improve description in NAME
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=723659

strstr.3
Michael Kerrisk
Clarify RETURN VALUE: s/substring/located substring/

sysv_signal.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function sysv_signal() is thread
safe.

tan.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions tan(), tanf() and tanl() are thread safe.

tanh.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions tanh(), tanhf() and tanhl() are thread safe.

toascii.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function toascii() is thread safe.

toupper.3
Peng Haitao
ATTRIBUTES: Note functions that are thread safe with exceptions
The functions toupper() and tolower() are thread safe with
exceptions.

towctrans.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function towctrans() is thread safe.

towlower.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function towlower() is thread safe with exceptions.

towupper.3
Peng Haitao
ATTRIBUTES: Note function that is

thread safe with exceptions
        The function towupper() is thread safe with exceptions.

ualarm.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function ualarm() is thread safe.

wcpncpy.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function wcpncpy() is thread safe.

proc.5
  Michael Kerrisk [Sworddragon2]
    Fix formula for CommitLimit under /proc/meminfo
      See https://bugzilla.kernel.org/show_bug.cgi?id=60991

credentials.7
  Michael Kerrisk
    List APIs that operate on process groups
  Michael Kerrisk
    Add details on controlling terminal and foreground/background jobs

feature_test_macros.7
  Michael Kerrisk
    Document _DEFAULT_SOURCE
  Michael Kerrisk [Joseph S. Myers]
    From glibc 2.19, _BSD_SOURCE no longer causes __FAVOR_BSD
      Starting with glibc 2.19, _BSD_SOURCE no longer causes BSD
      definitions to be favored in cases
 where standards conflict.

libc.7
  Mike Frysinger
    SEE ALSO: add various entries

man-pages.7
  Michael Kerrisk [Mike Frysinger]
    Add STYLE GUIDE section
      Incorporate some of the existing material in the page
      into the STYLE GUIDE, and add a lot more material, mainly
      drawn from the "Global changes" sections in the release
      changelogs.
  Michael Kerrisk
    Add historical note on reason for use of American spelling
  Michael Kerrisk [Mike Frysinger]
    Various improvements to style guide

packet.7
  Willem de Bruijn [Daniel Borkmann]
    Document fanout, ring, and auxiliary options
      This patch adds descriptions of the common packet socket options
        PACKET_AUXDATA, PACKET_FANOUT, PACKET_RX_RING, PACKET_STATISTICS,
        PACKET_TX_RING
      and the ring-specific options
        PACKET_LOSS, PACKET_RESERVE, PACKET_TIMESTAMP, PACKET_VERSION
  Michael Kerrisk
     Add kernel version numbers for PACKET_VERSION and PACKET_TIMESTAMP

ld.so.8
  Michael Kerrisk [Matthias Klose]
    Default output file for D_DEBUG is stderr not stdout
      See https://sourceware.org/bugzilla/show_bug.cgi?id=6874

========== Changes in man-pages-3.57 ==========

Released: 2014-01-24, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated in changes in this release:

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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

msgop.2
  Michael Kerrisk
    Document MSG_COPY

open.2
  Michael Kerrisk, Andy Lutomirski
    Document O_TMPFILE
      O_TMPFILE is new in Linux 3.11

perf_event_open.2
  Vince Weaver [Andi Kleen]
    PERF_SAMPLE_TRANSACTION support in Linux 3.13
      The following patch adds descriptions of the new perf_event_open.2
      PERF_SAMPLE_TRANSACTION sample type as added in Linux 3.13.

      The descriptions
 are based on information provided by Andi Kleen,
      both in the e-mail

        [PATCH 1/6] perf, core: Add generic transaction flags v5

      sent to the linux-kernel list as well as an e-mail

        [PATCH] Document transaction flags in perf_event_open manpage

      sent to the linux-man list.

      The implementation is based heavily on the Intel Haswell
      processor. Documentation can be found at this page:
      http://software.intel.com/en-us/blogs/2013/05/03/intelr-transactional-synchronization-extensions-intelr-tsx-profiling-with-linux-0
      as well as in section 18.11.5.1 of volume 3 of the
      Intel 64 and IA-32 Architecture Software Developer's Manual.

ptrace.2
  Andrey Vagin
    Add description for PTRACE_PEEKSIGINFO
      Retrieve signals without removing them from a queue.
  Andrey Vagin
    Add description for PTRACE_GETSIGMASK and PTRACE_SETSIGMASK
      These two
 commands allow to examine and change mask of blocked
      signals.

socket.7
  Eliezer Tamir
    Add description for SO_BUSY_POLL
      Add description for the SO_BUSY_POLL socket option.

tcp.7
  Michael Kerrisk [Jerry Chu]
    Document TCP_USER_TIMEOUT
      Text slightly adapted from Jerry Chu's (excellent) commit
      message (commit dca43c75e7e545694a9dd6288553f55c53e2a3a3).
  Michael Kerrisk
    Document TCP_CONGESTION

Global changes

Various pages
  Michael Kerrisk
    Reword to avoid use of "etc."

Various pages
  Peng Haitao [Andre Majorel]
    Make wording around thread-safety and setlocale() more precise

getdate.3
strptime.3
locale.5
  Michael Kerrisk
    Replace "weekday" with less ambiguous language
      Notwithstanding POSIX's use of the term "weekday", in everyday
      English, "weekday" is commonly understood to mean a day in the
      set [Monday..Friday] (vs one of the
 "weekend" days).

Changes to individual pages

---

epoll_wait.2
  Michael Kerrisk [Jonas Jonsson]
    Clarify wording of EINTR error
      See https://bugzilla.kernel.org/show_bug.cgi?id=66571

faccessat.2
  Michael Kerrisk
    Note that the system call takes only three arguments

fallocate.2
  Michael Kerrisk
    Note filesystems that support FALLOC_FL_PUNCH_HOLE operation

fcntl.2
  Michael Kerrisk
    BUGS: The O_SYNC and O_DSYNC flags are not modifiable using F_SETFL
  Michael Kerrisk
    Add subsections under BUGS
      There's several bugs listed. It's helpful to mark
      them separately.
  Michael Kerrisk
    POSIX.1 specifies F_SETOWN and F_GETOWN for sockets/SIGURG

getrlimit.2
  Michael Kerrisk [ ]
    Note that rlim_cur can be set lower than current resource consumption

getsockopt.2
  Michael Kerrisk
    SEE ALSO: add ip(7) and udp(7)

keyctl.2
  Michael Kerrisk
     SEE ALSO: mention Documentation/security/keys.txt

linkat.2
  Michael Kerrisk
    Add ENOENT for O_TMPFILE created with O_EXCL
  Michael Kerrisk
    ERRORS: Add EINVAL

lseek.2
  Michael Kerrisk
    Note which filesystems support SEEK_HOLE/SEEK_DATA

msgop.2

Michael Kerrisk
Note that MSG_EXCEPT is Linux-specific

open.2
Michael Kerrisk
Update CONFORMING TO
Add POSIX.1-2008. Add mention of O_TMPFILE.
Update text on various flags that were added in POSIX.1-2008, and
whose definitions can, since glibc 2.12, be obtained by suitably
defining _POSIX_C_SOURCE or _XOPEN_SOURCE
Michael Kerrisk
Add pointer in description to BUGS, for O_ASYNC limitation
Michael Kerrisk
Remove crufty duplicate text on modifying file status flags

ptrace.2
Michael Kerrisk
Add details to descriptions of PTRACE_GETSIGMASK and PTRACE_SETSIGMASK

select.2
Michael Kerrisk [Marc Lehmann]
RETURN VALUE: Fix discussion of treatment of file descriptor sets
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=574370

syscalls.2
Michael Kerrisk
Remove madvise1() from main list
madvise1() is one of the system calls that was never
implemented, and listed toward the bottom of the page.

timer_create.2
Michael Kerrisk
Add pointer to proc(5) for info on /proc/[pid]/timers

unlinkat.2
Michael Kerrisk [Mike Frysinger:]
ERRORS: Add EISDIR
See https://bugzilla.kernel.org/show_bug.cgi?id=29702

ferror.3
Michael Kerrisk
clearerr(), feof(), and ferror() are also POSIX-conformant
Michael Kerrisk [Reuben Thomas]
CONFORMING TO: add fileno()

gets.3
Ian Abbott
SEE ALSO: add fgets(3)

mq_receive.3
mq_send.3
  Michael Kerrisk [Simone Piccardi]
    SYNOPSIS: s/unsigned/unsigned int/

printf.3
  Michael Kerrisk
    Small reorganization of text in EXAMPLE

rand.3
   Michael Kerrisk
    s/unsigned/unsigned int/ in example

stpcpy.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function stpcpy() is thread safe.

stpncpy.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function stpncpy() is thread safe.

strcat.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions strcat() and strncat() are thread safe.

strchr.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions strchr(), strrchr() and strchrnul() are thread safe.

strcmp.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions strcmp() and strncmp() are thread safe.

strftime.3
  Brandon Edens
    Change "week day" to "day of week"
      See https://bugzilla.kernel.org/show_bug.cgi?id=68861

strstr.3
  Peng Haitao
    ATTRIBUTES: Note function that

is thread safe with exceptions
The function strstr() is thread safe.
The function strcasestr() is thread safe with exceptions.

strtod.3
Peng Haitao
ATTRIBUTES: Note functions that are thread safe with exceptions
The functions strtod(), strtof() and strtold() are thread safe
with exceptions.

strtoimax.3
Peng Haitao
ATTRIBUTES: Note functions that are thread safe with exceptions
The functions strtoimax() and strtoumax() are thread safe with
exceptions.

strtol.3
Peng Haitao
ATTRIBUTES: Note functions that are thread safe with exceptions
The functions strtol(), strtoll() and strtoq() are thread safe
with exceptions.

tcgetpgrp.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions tcgetpgrp() and tcsetpgrp() are thread safe.

tcgetsid.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe

The function tcgetsid() is thread safe.

core.5
Bernhard Walle
Mention that %E exists since Linux 3.0
'%E' in the 'core_pattern' has been introduced in kernel commit
57cc083ad9e1bfeeb4a0ee831e7bb008c8865bf0 which was included in
version 3.0. Add that information to the manual page.

filesystems.5
Michael Kerrisk [Axel Beckert]
Add reference to proc(5) for more details on /proc/filesystems
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=735590

locale.5
Michael Kerrisk
SEE ALSO: add locale(7)

proc.5
  Michael Kerrisk
    Document /proc/[pid]/timers
  Michael Kerrisk
    Update discussion of wchan
      Remove crufty reference to /etc/psdatabase in /proc/PID/stat.
      Add /proc/PID/wchan.

      See https://bugs.launchpad.net/ubuntu/+source/manpages/+bug/737452

environ.7
  Michael Kerrisk [Gioele Barabucci]
    Correct reference to locale(7) (not locale(5))
       locale(7) is the right place for details of the LC_*
      environment variables.

      See http://bugs.debian.org/638186
  Michael Kerrisk
    Improve references for discussion of locale environment variables
  Michael Kerrisk
    SEE ALSO: add catopen(3)
  Michael Kerrisk
    SEE ALSO: add locale(5)

man-pages.7
  Michael Kerrisk
    Prefer "usable" over "useable"

netdevice.7
  Tilman Schmidt
    Document SIOCGIFCONF case ifc_req==NULL
      Add the missing description of the possibility to call SIOCGIFCONF
      with ifc_req==NULL to determine the needed buffer size, as
      described in
      http://lkml.indiana.edu/hypermail/linux/kernel/0110.1/0506.html
      and verified against source files net/core/dev_ioctl.c and
      net/ipv4/devinet.c in the current kernel git tree.
      This functionality has been present since the beginning of the 2.6
      series. It's about time
 it gets documented.

      While I'm at it, also generally clarify the section on
      SIOCGIFCONF.

standards.7
  Michael Kerrisk
    Enhance description of V7

Michael Kerrisk
Add C11

tcp.7
Michael Kerrisk
Describe format of tcp_*_congestion_control /proc files
Describe format of tcp_allowed_congestion_control and
tcp_available_congestion_control.

========== Changes in man-pages-3.58 ==========

Released: 2014-02-11, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

pipe.2
Michael Kerrisk
Document the pipe2() O_DIRECT flag added in Linux 3.4

packet.7
  Daniel Borkmann
    Document PACKET_QDISC_BYPASS
      New in Linux 3.14.

Global changes

Various pages
  Simon Paillard
    Formatting fix: add space between function and () if BR or IR
      Detected through the regex:
        git grep -P '^\.(BR|IR) [\w]*\([\d]*\)$'

Various pages
  Simon Paillard
    Formatting fix: add space between word and punctuation if BR or IR
      Detected through the regex:
        git grep -P '^\.(BR|IR) [^]*[,\.]$'

       Could probably be extended to match more cases and fix in perl.

Various pages
  Michael Kerrisk
    Use Oxford comma

gettid.2
restart_syscall.2
passwd.5
socket.7
  Michael Kerrisk
    Fix order of SEE ALSO entries

Changes to individual pages
---

epoll_wait.2
  Michael Kerrisk [Network Nut]
    Remove word "minimum" from the description of 'timeout'

epoll_wait.2
poll.2
select.2
  Michael Kerrisk
    Go into more detail on timeout and when call will cease blocking

getxattr.2
listxattr.2
removexattr.2
setxattr.2
  Michael Kerrisk [Fabrice Bauzac]
    Correct header file is <sys/xattr.h> (not <xattr/xattr.h>)
      See https://bugzilla.kernel.org/show_bug.cgi?id=70141

msgctl.2
  Cyril Hrubis
    Add note about ignored arg to IPC_RMID

prctl.2
  Michael Kerrisk [ ]
    PR_SET_PDEATHSIG value is preserved across execve(2)

recv.2
  Michael Kerrisk
    Rework and reorganize the
 text in various parts of the page.
    Isolate details specific to recv() vs recvfrom() vs recvmsg()
      Place details specific to each system call under a
      separate subheading.
    Rework discussion of 'src_addr' and 'addrlen' for recvfrom()
    Add description of 'buf' and 'len' in recvfrom() section
    'addrlen' should be 0 (*not* NULL) when 'src_addr' is NULL
    Improve text describing recvfrom() call that is equivalent to recv()
  Michael Kerrisk []
    Describe the various cases where the return value can be 0

shmctl.2
  Michael Kerrisk
    Note that 'buf' is ignored for IPC_RMID

symlinkat.2
  Michael Kerrisk
    Make argument names consistent with symlink(2) page

isalpha.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions isalnum(), isalpha(), isascii(), isblank(),
      iscntrl(), isdigit(), isgraph(), islower(), isprint(),
      ispunct(), isspace(),
 isupper() and isxdigit() are thread safe.

isatty.3

Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function isatty() is thread safe.

isgreater.3
Peng Haitao
ATTRIBUTES: Note macros that are thread-safe
The macros isgreater(), isgreaterequal(), isless(),
islessequal(), islessgreater() and isunordered() are thread safe.

iswalnum.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function iswalnum() is thread safe with exceptions.

iswalpha.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function iswalpha() is thread safe with exceptions.

iswblank.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function iswblank() is thread safe with exceptions.

iswcntrl.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions

The function iswcntrl() is thread safe with exceptions.

lockf.3
Michael Kerrisk [Simone Piccardi]
Fix incorrect argument mentioned under EINVAL error

pthread_kill.3
Michael Kerrisk
Add feature test macro requirements

pthread_sigmask.3
Michael Kerrisk
Add feature test macro requirements

strtoul.3
Peng Haitao
ATTRIBUTES: Note functions that are thread safe with exceptions
The functions strtoul(), strtoull() and strtouq() are thread safe
with exceptions.

nscd.conf.5
  Peter Schiffer
    Add note about default values

proc.5
  Michael Kerrisk
    SEE ALSO: Add some further kernel Documentation/sysctl files

man-pages.7
  Michael Kerrisk
    ATTRIBUTES sections come after VERSIONS
      Peng Haitao has consistently ordered the ATTRIBUTES after
      VERSIONS, so adjust the text in man-pages.7

vdso.7
  Michael Kerrisk
    Add words "virtual dynamic shared object" in DESCRIPTION

==========
 Changes in man-pages-3.59 ==========

Released: 2014-02-16, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Weizhou Pan <cs.wzpan@gmail.com>

Apologies if I missed anyone!

Global changes

Various pages
  Peter Schiffer, Michael Kerrisk [Weizhou Pan]
    Convert pages containing non-ASCII in source code comments to use UTF-8
      Done using a slightly modified version of Peter Schiffer's
      convert_to_utf_8.sh script. The script was modified so as *not*

a "coding:" marker to the groff source. For now, we'll only put
that marker on pages that contain non-ASCII characters in the
rendered text.

See https://bugzilla.kernel.org/show_bug.cgi?id=60807

armscii-8.7
cp1251.7
iso_8859-1.7
iso_8859-10.7
iso_8859-11.7
iso_8859-13.7
iso_8859-14.7
iso_8859-15.7
iso_8859-16.7
iso_8859-2.7
iso_8859-3.7
iso_8859-4.7
iso_8859-5.7
iso_8859-6.7
iso_8859-7.7
iso_8859-8.7
iso_8859-9.7
koi8-r.7
koi8-u.7
Peter Schiffer, Michael Kerrisk [Weizhou Pan]
Convert pages containing non-ASCII to use UTF-8
Done using Peter Schiffer's convert_to_utf_8.sh script.
These pages containing non-ASCII in the rendered characters, and
so the script inserts a "coding:" marker into the groff source.

See https://bugzilla.kernel.org/show_bug.cgi?id=60807

========== Changes in man-pages-3.60 ==========

Released: 2014-02-18, Munich

Contributors

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Michael Kerrisk <mtk.manpages@gmail.com>
Simon Paillard <spaillard@debian.org>

Apologies if I missed anyone!

Changes to individual pages
---
sigvec.3
  Michael Kerrisk [Kalle Olavi Niemitalo]
    Fix error in code snippet
      s/sigpause/sigmask/

armscii-8.7
cp1251.7
iso_8859-1.7
iso_8859-10.7
iso_8859-11.7
iso_8859-13.7
iso_8859-14.7
iso_8859-15.7
iso_8859-16.7
iso_8859-2.7
iso_8859-3.7
iso_8859-4.7
iso_8859-5.7
iso_8859-6.7
iso_8859-7.7
iso_8859-8.7
iso_8859-9.7
koi8-u.7
  Michael Kerrisk [Simon Paillard]
    Remove comment that glyphs in column 4 may not display correctly
      With the conversion to UTF-8, the glyphs in column 4 of the
      tables in these pages will display regardless of whether the
      environment is configured for the corresponding character set.

iso_8859-11.7
iso_8859-13.7
  D. Barbier [Simon Paillard]
    Fix encoding mistakes
 in 5f7f4042b8848127d852c6fa7c02e31ccfaeeae5
      Fixed via:

        for f in iso_8859-11 iso_8859-13; do
          cp man7/$f.7 $f

```
    iconv -f utf8 -t latin1 $f | iconv -f iso-${f#iso_} -t utf8 > man7/$f.7
done
```

========== Changes in man-pages-3.61 ==========

Released: 2014-02-26, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages

A note from Christoph Hellwig prompted me to perform a task that has
been queued for a while: merging the text of the man pages for the
*at([23]) ("directory file descriptor") APIs into their corresponding
traditional pages. When the *at([23]) pages were originally written
(mostly in 2006), the APIs were not part of POSIX and (in most cases)
were not available on other systems. So, it made some sense to wall
them off into their own separate pages. Eight years later, with the
APIs now all in POSIX (except scandirat()), it is much more sensible
to document the newer APIs alongside their traditional counterparts,

so that the newer APIs are not "hidden", and the reader can more
easily see the differences between the APIs.

Thus, the text of 14 pairs of pages has been merged, and the "merged
from" pages have been converted to links to the "merged to" pages.
Along
 the way, a few other fixes were made to the pages, as noted
below.

One page that did not undergo such a change was utimensat(2), which
is different enough from utime(2) that it warrants a separate page.
Unlike the other *at() pages, the utimensat(2) page was also already
self-contained, rather than defining itself in terms of differences
from utime(2) as the other *at() pages did.

access.2
  Michael Kerrisk
    Merge text from faccessat(2)
  Michael Kerrisk
    Remove faccessat() race warning
      That point is already covered in existing text in this page.
  Michael Kerrisk
    access() also conforms to POSIX.1-2008

chmod.2
  Michael Kerrisk
    Merge text from fchmodat(2)
  Michael Kerrisk
    Use argument name 'pathname' throughout page
      (Some APIs were using 'path' while others used 'pathname')
  Michael Kerrisk
    CONFORMING TO: chmod() and fchmod() are also in POSIX.1-2008

chown.2
  Michael Kerrisk
    Merge text
 of fchownat(2)
  Michael Kerrisk
    AT_EMPTY_PATH is Linux-specific and requires _GNU_SOURCE
  Michael Kerrisk
    Use argument name 'pathname' throughout page
      (Some APIs were using 'path' while others used 'pathname')
  Michael Kerrisk
    Remove sentence that fchownat() is present on Solaris
      That point was only really relevant before fchownat() was
      standardized in POSIX.1.2008.
  Michael Kerrisk
    CONFORMING TO: chown(), fchown(), lchown() are in POSIX.1-2008

link.2
  Michael Kerrisk
    Merge text of linkat(2)
  Michael Kerrisk
    CONFORMING TO: link() is in POSIX.1-2008
  Michael Kerrisk
    AT_EMPTY_PATH is Linux-specific and requires _GNU_SOURCE

mkdir.2
  Michael Kerrisk
    Merge text of mkdirat(2)
  Michael Kerrisk
    CONFORMING TO: mkdir() is in POSIX.1-2008

mknod.2
  Michael Kerrisk
    Merge text of mknodat(2)
  Michael Kerrisk
    CONFORMING TO: mknod(2) is in POSIX.1-2008

open.2
   Michael Kerrisk
    Merge text from openat(2)
  Michael Kerrisk
    Remove sentence that openat() is present on Solaris
      That point was only really relevant before openat() was
      standardized in POSIX.1.2008.

readlink.2
  Michael Kerrisk
    Merge text of readlinkat(2)
  Michael Kerrisk
    CONFORMING TO: readlink() is in POSIX.1-2008.
  Michael Kerrisk
    Use argument name 'pathname' throughout page
      (Some APIs were using 'path' while others used 'pathname')

rename.2
  Michael Kerrisk
    Merge text of renameat(2)
  Michael Kerrisk
    CONFORMING TO: rename(2) is in POSIX.1-2008

stat.2
  Michael Kerrisk
    Merge text from fstatat(2)
  Michael Kerrisk

AT_EMPTY_PATH and AT_NO_AUTOMOUNT are Linux-specific
These flags require _GNU_SOURCE.
Michael Kerrisk
Use argument name 'pathname' throughout page
(Some APIs were using 'path' while others
used 'pathname')
Michael Kerrisk
Remove sentence that fstatat() is present on Solaris
That point was only really relevant before fstatat() was
standardized in POSIX.1.2008.
Michael Kerrisk
CONFORMING TO: stat(), fstat(), lstat() are specified in POSIX.1-2008

symlink.2
Michael Kerrisk
Merge text of symlinkat(2)
Michael Kerrisk
CONFORMING TO: symlink() is in POSIX.1-2008

unlink.2
Michael Kerrisk
Merge text of unlinkat(2)
Michael Kerrisk
Remove sentence that unlinkat() is present on Solaris
That point was only really relevant before unlinkat() was
standardized in POSIX.1.2008.
Michael Kerrisk
CONFORMING TO: unlink() is in POSIX.1-2008

mkfifo.3
Michael Kerrisk
Merge text of mkfifoat(3)
Michael Kerrisk
CONFORMING TO: mkfifo() is in POSIX.1-2008

scandir.3
Michael Kerrisk
Merge text of scandirat(3)
Michael Kerrisk

Update feature test macro requirements
The FTM requirements changed in glibc 2.10.
Michael Kerrisk
Remove libc4/libc5 note under CONFORMING TO
No-one much cares about Linux libc these days.
Michael Kerrisk
Put detail about alphasort under a NOTES heading
This text was under CONFORMING TO, which made no sense.

Michael Kerrisk
Rework CONFORMING TO text

Newly documented interfaces in existing pages
---

prctl.2
Kir Kolyshkin
Document PR_SET_MM options in Linux 3.5
Some of the PR_SET_MM options were merged to vanilla kernel
later, and appeared in Linux 3.5. Those are:

- PR_SET_MM_ARG_START
- PR_SET_MM_ARG_END
- PR_SET_MM_ENV_START
- PR_SET_MM_ENV_END
- PR_SET_MM_AUXV
- PR_SET_MM_EXE_FILE

socket.7
Neil Horman
Document the SO_RXQ_OVFL
socket option
Michael Kerrisk
Add kernel version number for SO_RXQ_OVFL

New and changed links
---

faccessat.2
Michael Kerrisk
Convert to link to access.2

fchmodat.2
Michael Kerrisk
Convert to link to chmod.2

fchownat.2
Michael Kerrisk
Convert to link to chown.2

fstatat.2
Michael Kerrisk
Convert to link to stat.2

linkat.2

Michael Kerrisk
Convert to link to link.2

mkdirat.2
Michael Kerrisk
Convert to link to mkdir.2

mknodat.2
Michael Kerrisk
Convert to link to mknod.2

openat.2
Michael Kerrisk
Convert to link to open.2

readlinkat.2
Michael Kerrisk
Convert to link to symlink.2

renameat.2
Michael Kerrisk
Convert to link rename.2

symlinkat.2
Michael Kerrisk
Convert to link to symlink.2

unlinkat.2
Michael Kerrisk
Convert to link to unlink.2

mkfifoat.3
Michael Kerrisk
Convert to link to mkfifo.3

scandirat.3
Michael Kerrisk
Convert to link to scandir.3

Changes to individual pages
---

alarm.2
Michael Kerrisk
Note semantics of alarm with respect to fork() and execve()

fcntl.2

Michael Kerrisk
Warn that F_GETLK info may already be out of date when the call returns

intro.2
Michael Kerrisk
Describe policy on documenting differences between syscall and glibc API

mmap2.2
Michael Kerrisk
Reword note on glibc mmap() wrapper invocation of mmap2()
Michael Kerrisk
This system call does not exist on x86-64

msgctl.2
Michael Kerrisk
ERRORS: add EPERM for unprivileged attempt to set msg_qbytes > MSGMNB

prctl.2
Michael Kerrisk [Xiawei Chen]
Clarify that PR_GET_TIMERSLACK is returned as the function result
Michael Kerrisk
Clarify that PR_GET_SECCOMP is returned as function result
Michael Kerrisk
Clarify that PR_GET_NO_NEW_PRIVS is returned as function
result

ptrace.2
Michael Kerrisk [Andrew Hunter]
Make it clearer that glibc and syscall APIs differ for PTRACE_PEEK*
Thanks to Denys Vlasenko's additions in 78686915aed6bd12
this page does note that the glibc API for PTRACE_PEEK*
differs from the raw syscall interface. But, as the report
at https://bugzilla.kernel.org/show_bug.cgi?id=70801 shows,
this information could be more obvious. This patch makes its so.

sgetmask.2
Michael Kerrisk
Note that these system calls don't exist on x86-64

swapon.2
Michael Kerrisk
Split EINVAL cases into separate entries under ERRORS
Michael Kerrisk
Add EINVAL error for invalid flags to swapon()

syscalls.2
Michael Kerrisk
SEE ALSO: add intro(2)

umount.2
  Michael Kerrisk
    Split EINVAL cases into separate items
  Michael Kerrisk
    ERRORS: Add EINVAL case that was new in 2.6.34

utime.2
  Michael Kerrisk

   Add note that modern applications probably want utimensat(2) etc.

crypt.3
  Michael Kerrisk [KOSAKI Motohiro]
    ERRORS: Add EINVAL and EPERM errors
      See https://bugzilla.kernel.org/show_bug.cgi?id=69771

getifaddrs.3
  Michael Kerrisk
    Enhance example program
      Print statistics for AF_PACKET interfaces.
      Add missing feature test macro definition.
      Reformat output.

iswctype.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function iswctype() is thread safe.

sem_post.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function sem_post() is thread safe.

sem_unlink.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function sem_unlink() is thread safe.

sem_wait.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions sem_wait(), sem_trywait() and sem_timedwait() are
       thread safe.

setbuf.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe

The functions setbuf(), setbuffer(), setlinebuf() and setvbuf()
are thread safe.

strlen.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function strlen() is thread safe.

strnlen.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function strnlen() is thread safe.

strpbrk.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function strpbrk() is thread safe.

strsep.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function strsep() is thread safe.

swab.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function swab() is thread safe.

resolv.conf.5
Carlos O'Donell
DESCRIPTION: mention that the data is trusted
In a recent discussion about DNSSEC it
was brought to my
attention that not all system administrators may understand
that the information in /etc/resolv.conf is fully trusted.
The resolver implementation in glibc treats /etc/resolv.conf
as a fully trusted source of DNS information and passes on
the AD-bit for DNSSEC as trusted.

This patch adds a clarifying sentence to make it absolutely
clear that indeed this source of information is trusted.

ascii.7
Michael Kerrisk [Sulaiman Mustafa]
Fix rendering of single quote (decimal character 39)
Michael Kerrisk
SEE ALSO: add utf-8(7)
Michael Kerrisk [Duncan de Wet]

Remove mention of ISO 8859-1 as being the default encoding on Linux

packet.7
  Neil Horman
    Document PACKET_FANOUT_QM fanout mode
  Michael Kerrisk
    Add kernel version for PACKET_FANOUT_QM
  Daniel Borkmann
    Improve PACKET_QDISC_BYPASS description

socket.7
  Michael Kerrisk
    Add kernel version number for SO_BUSY_POLL

========== Changes in man-pages-3.62 ==========

Released: 2014-03-11, Munich

Contributors

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in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages
---

locale.1
  Michael Kerrisk [review from Mike Frysinger]
    New page describing locale(1)

Newly documented interfaces in existing pages

---

locale.5
  Michael Kerrisk
    Document LC_ADDRESS
  Michael
 Kerrisk
    Document LC_IDENTIFICATION
  Michael Kerrisk
    Document LC_MEASUREMENT
  Michael Kerrisk
    Document LC_NAME
  Michael Kerrisk
    Document LC_PAPER
  Michael Kerrisk
    Document LC_TELEPHONE

Removed Pages
---

sync.8
  Michael Kerrisk [Christoph Hellwig, Pádraig Brady]
    Sometime in the 20th century (before my watch), a sync(8)
    page into man-pages. It documents the sync command from
    "fileutils", which long ago become coreutils, and the
    piece under NOTES note some behavior of sync(2)
    that ceased to be true many years ago. The man-pages
    project generally focuses on only Linux kernel and
    (g)libc interfaces, so this sync(8) page doesn't really
    belong. Furthermore, coreutils has a sync(1) page which
    covers the same command. After discussions on the
    coreutils list, I've decided to retire this page from
    man-pages.

Changes to individual pages
---

clone.2
   Michael Kerrisk
    Note that CLONE_THREAD also in effect requires CLONE_VM

stat.2
  Michael Kerrisk [Marius Gaubas]
    Warn the reader that the 'stat' structure definition is not precise
      Padding fields aren't shown, and the order of fields varies
      somewhat across architectures.

gethostbyname.3
  Michael Kerrisk
    Remove redundant FTM requirements
      _GNU_SOURCE implies _SVID_SOURCE and _BSD_SOURCE, so

        _BSD_SOURCE || _SVID_SOURCE || _GNU_SOURCE

      is the same as

        _BSD_SOURCE || _SVID_SOURCE

getutmp.3
  Michael Kerrisk
    SEE ALSO: add utmpdump(1)

log1p.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions log1p(), log1pf() and log1pl() are thread safe.

logb.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions logb(), logbf() and logbl() are thread safe.

memccpy.3
   Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function memccpy() is thread safe.

memchr.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions memchr(), memrchr() and rawmemchr() are thread safe.

mktemp.3
  Michael Kerrisk
    Make warning not to use this function more prominent

qecvt.3
  Michael Kerrisk [Joseph S. Myers]
    Recommend snprintf(3) not sprintf(3)

raise.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function raise() is thread safe.

remove.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function remove() is thread safe.

sem_destroy.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function sem_destroy() is thread safe.

sem_getvalue.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function sem_getvalue()
 is thread safe.

sem_init.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function sem_init() is thread safe.

sockatmark.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function sockatmark() is thread safe.

strcpy.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions strcpy() and strncpy() are thread safe.
  Michael Kerrisk [Rick Stanley]
    Fix a bug, and improve discussion of forcing termination with strncpy()

strspn.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions strspn() and strcspn() are thread safe.

tempnam.3
  Michael Kerrisk
    Make warning not to use this function more prominent

tmpnam.3
  Michael Kerrisk
    Recommend use mkstemp(3) or tmpfile(3) instead

locale.5
  Michael Kerrisk

Add intro section that lists all of the LC categories
Michael Kerrisk

'p_cs_precedes' is for *positive* values
Michael Kerrisk
Clarify 'p_sign_posn' and 'n_sign_posn'; simplify 'n_sign_posn'
Add initial sentence for 'p_sign_posn' and 'n_sign_posn'.
Remove repeated list for 'n_sign_posn'.
Michael Kerrisk
Document LC_MESSAGES 'yesstr' and 'nostr'
Michael Kerrisk
Clarify LC_MONETARY 'n_cs_precedes'
Michael Kerrisk
LC_MONETARY: Document 'int_p_sign_posn' and 'int_n_sign_posn'
Michael Kerrisk
Clarify/rework 'p_cs_precedes' and 'n_cs_precedes'
Michael Kerrisk
LC_MONETARY: document 'int_p_sep_by_space' and 'int_n_sep_by_space'
Michael Kerrisk
Remove crufty reference to POSIX.2
Michael Kerrisk
LC_MONETARY: document 'int_p_cs_precedes' and 'int_n_cs_precedes'
Michael Kerrisk
Clarify/simplify 'n_sep_by_space'
Michael Kerrisk
LC_TIME: document 'cal_direction' and 'date_fmt'
Michael Kerrisk
Clarify 'p_sep_by_space'

feature_test_macros.7
Michael Kerrisk
_BSD_SOURCE and _SVID_SOURCE are deprecated in glibc 2.20
Michael Kerrisk
_GNU_SOURCE implicitly defines other macros
Saying that _GNU_SOURCE has the "effects of" other macros is not
quite precise.
Michael Kerrisk
Reword glibc version for _ISOC95_SOURCE
Michael Kerrisk
_ISOC99_SOURCE also exposes C95 definitions
Michael Kerrisk
_ISOC11_SOURCE implies the effects of _ISOC99_SOURCE
Michael Kerrisk
Note version number for _POSIX_C_SOURCE >= 200112L implies C99/C95
_POSIX_C_SOURCE >= 200112L causes C95 definitions to be
exposed only since glibc 2.12 and C99 definitions only
since 2.10.
Michael Kerrisk

_XOPEN_SOURCE may implicitly define _POSIX_SOURCE and _POSIX_C_SOURCE
Michael Kerrisk
Reword glibc version for _ISOC99_SOURCE
Michael Kerrisk
Rework discussion of _ISOC99_SOURCE
Michael
Kerrisk
Improve discussion of _DEFAULT_SOURCE
Michael Kerrisk
_POSIX_C_SOURCE >= 200112L implies C95 and C95 features

========== Changes in man-pages-3.63 ==========

Released: 2014-03-18, Munich

Contributors

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Apologies if I missed anyone!

New and rewritten pages
---

duplocale.3
Michael Kerrisk
New page documenting duplocale(3)

newlocale.3
  Michael Kerrisk [Mike Frysinger]
    New page documenting newlocale(3) and freelocale(3)

towlower.3
  Michael Kerrisk
    Largely rewrite description of towlower() to be simpler and clearer

towupper.3
  Michael Kerrisk
    Largely rewrite description of towupper() to be simpler and clearer

uselocale.3
  Michael Kerrisk
    New page documenting uselocale(3)

Newly documented interfaces in existing pages
---

open.2
  Michael Kerrisk
    Document O_DSYNC and rewrite discussion of O_SYNC

isalpha.3
  Michael Kerrisk
    Document the "_l" locale APIs
      The GNU C library v2.3 added some locale APIs, most of which
      were later specified in POSIX.1-2008, namely:

          isalnum_l()
          isalpha_l()
          isblank_l()
          iscntrl_l()
          isdigit_l()

    isgraph_l()
          islower_l()
          isprint_l()
          ispunct_l()
          isspace_l()
          isupper_l()
          isxdigit_l()
          isascii_l()

      Also update and correct various pieces in CONFORMING TO
      (and remove a few crufty old pieces there).

strerror.3
  Michael Kerrisk
    Document strerror_l()

toupper.3
  Michael Kerrisk
    Document toupper_l() and tolower_l()

towlower.3
  Michael Kerrisk
    Document towlower_l()

towupper.3
  Michael Kerrisk
    Document towupper_l()

proc.5
  Michael Kerrisk
    Document /proc/sys/kernel/random/uuid

locale.7
  Michael Kerrisk
    Document LC_ADDRESS
    Document LC_IDENTIFICATION
    Document LC_MEASUREMENT
    Document LC_NAME
    Document LC_PAPER
    Document LC_TELEPHONE

New and changed links
---

freelocale.3
  Michael Kerrisk
    New link
 to new newlocale.3 page

isalnum_l.3
isascii_l.3
isblank_l.3
iscntrl_l.3
isdigit_l.3
isgraph_l.3
islower_l.3
isprint_l.3
ispunct_l.3
isspace_l.3

isupper_l.3
isxdigit_l.3
  Michael Kerrisk
    New links to isalpha.3

tolower_l.3
toupper_l.3
  Michael Kerrisk
    New links to toupper.3

towlower_l.3
  Michael Kerrisk
    New link to towlower.3

towupper_l.3
  Michael Kerrisk
    New link to towupper.3

Global changes

Various pages
  Michael Kerrisk
    Global change: "upper case" ==> "uppercase", "lower case" ==> lowercase"

Changes to individual pages
---

mount.2
  Michael Kerrisk
    SEE ALSO: add blkid(1)

msgop.2
  Michael Kerrisk
    Document two MSG_COPY failure modes
      Since Linux 3.14, the kernel now diagnoses two errors
      when using msgrcv() MSG_COPY:
      * MSG_COPY must be specified with IPC_NOWAIT
      * MSG_COPY can't be specified with MSG_EXCEPT

open.2

  Michael Kerrisk
    Organize some material under additional subheadings in NOTES
      There's an amorphous mass of material under NOTES. Structure
      it with some subheadings, and do a little reorganizing.

Michael Kerrisk
Add other system calls and functions that are like openat()
fanotify_mark(2), name_to_handle_at(2), and scandirat(3) have a
directory file descriptor argument for the same reason as openat().
Also: reword the rationale for the *at() functions somewhat.
Michael Kerrisk
Clarify ELOOP error interaction with O_PATH

readahead.2
Phillip Susi [Corrado Zoccolo, Gregory P. Smith, Zhu Yanhai, Michael Kerrisk, Christoph Hellwig]
Don't claim the call blocks until all data has been read
The readahead(2) man page was claiming that the call blocks until
all data has been read into the cache. This is incorrect.

See https://bugzilla.kernel.org/show_bug.cgi?id=54271

stat.2
Michael Kerrisk
SEE ALSO: add ls(1) and stat(1)

fts.3
Christoph Hellwig [Michael Kerrisk]
The fts(3) API does not work with LFS builds
As pointed out during a recent discussion on libc-hacker the
fts(3) APIs can't be used with large file offsets:

https://sourceware.org/bugzilla/show_bug.cgi?id=15838

mbrtowc.3
mbsnrtowcs.3
mbsrtowcs.3
mbtowc.3
Michael Kerrisk
Add entries in SEE ALSO
Mainly inspired by the POSIX pages.

mbsinit.3
Michael Kerrisk
SEE ALSO: add mbrlen(3), mbrtowc(3), and wcrtomb(3)

mbsrtowcs.3
wcsrtombs.3
Michael Kerrisk
SEE ALSO: add mbsinit(3)

mbstowcs.3
Michael Kerrisk [Stefan Puiu]
Add example program

And add some SEE ALSO entries

memcmp.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function memcmp() is thread safe.

memcpy.3
Peng Haitao
ATTRIBUTES: Note
function that is thread-safe
The function memcpy() is thread safe.

memfrob.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function memfrob() is thread safe.

memmem.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function memmem() is thread safe.

memmove.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function memmove() is thread safe.

mempcpy.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions mempcpy() and wmempcpy() are thread safe.

memset.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function memset() is thread safe.

strerror.3
Michael Kerrisk
CONFORMING TO: strerror() and strerror_r() are in POSIX.1-2008
Michael Kerrisk
Add SS heading for strerror_r()

toupper.3
Michael Kerrisk
Rewrite to more explicitly bring locales into

the discussion
  Michael Kerrisk
    Retitle BUGS section to NOTES
      These are not really bugs, just background info.

wcrtomb.3
wcsnrtombs.3
wcsrtombs.3
wcstombs.3
wctomb.3
  Michael Kerrisk
    SEE ALSO: add various entries
      Mainly inspired by POSIX

core.5
  Mike Frysinger [Michael Kerrisk]
    Document core_pattern %d specifier
    Document %P core_pattern specifier
  Michael Kerrisk
    Rearrange core_pattern specifiers alphabetically

locale.5
  Michael Kerrisk
    SEE ALSO: add newlocale(3) + duplocale(3)

feature_test_macros.7
  Michael Kerrisk [Joseph S. Myers]
    Remove mention of bogus _ISOC95_SOURCE macro
      The _ISOC95_SOURCE macro is defined in <features.h>, but it
      does nothing. So remove discussion of it, and move some of
      the discussion of C95 under the _ISOC99_SOURCE subhead.
  Michael Kerrisk [Carlos O'Donell]
    Add packaging note for _BSD_SOURCE/_SVID_SOURCE/_DEFAULT_SOURCE
       To compile warning-free across glibc < 2.20 and glibc >= 2.20
      code may been to define both _DEFAULT_SOURCE and either
      _BSD_SOURCE or _SVID_SOURCE.
  Michael Kerrisk
    Reword description of C90

locale.7
  Michael Kerrisk
    Add subsection on POSIX.1-2008 (originally GNU) extensions to locale API
  Michael Kerrisk
    Remove reference to LI18NUX2000
      LI18NUX2000 is difficult to even find these days, and in any case
      this page does not document gettext(), so notes about gettext()
      in the CONFORMING TO section here make no sense.
  Michael Kerrisk

SEE ALSO: add mbstowcs(3) and wcstombs(3)
SEE ALSO: add newlocale(3) + duplocale(3)

man-pages.7
Michael Kerrisk
Add preferred term "superblock"
Michael Kerrisk
Add preferred terms "uppercase" and "lowercase"

========== Changes in man-pages-3.64 ==========

Released: 2014-04-06,
Munich

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Apologies if I missed anyone!

New and rewritten pages

---

open_by_handle_at.2
  Michael Kerrisk [Mike Frysinger, Neil Brown, Aneesh Kumar K.V,
  Christoph Hellwig]
    New page describing name_to_handle_at(2) and open_by_handle_at(2)

inotify.7
  Michael Kerrisk
    Rewrite introductory section
    Reorganize "Limitations and caveats" subsection
  Michael Kerrisk
    Further describe the race when adding a watch to a new subtree
  Michael Kerrisk
    Directory renames may invalidate multiple paths cached by application
  Michael Kerrisk
    Add paragraph on cache consistency checking
  Michael Kerrisk
    Mention cache rebuilding to handle overflow events
  Michael Kerrisk
    Moving an object to another filesystem generates IN_DELETE_SELF
  Michael Kerrisk [Jan Kara]
    Add text on dealing with rename() events
  Michael Kerrisk
    Note rationale and consequences of event coalescing
  Michael Kerrisk [Eric W. Biederman]
    Inotify doesn't work for remote and pseudo filesystems
  Michael Kerrisk
     Add some examples of events generated by various system calls
  Michael Kerrisk
    BUGS: IN_ONESHOT does now cause IN_IGNORED when the watch is dropped
       A silent change as a result of the fanotify work in kernel 2.6.36.
  Michael Kerrisk
    Note that IN_DELETE_SELF will be followed by IN_IGNORED
  Michael Kerrisk
    Note that IN_UNMOUNT will be followed by an IN_IGNORED event
  Michael Kerrisk
    Inotify does not report events for mmap(2) and msync(2)
  Michael Kerrisk
    Add examples of syscalls that trigger IN_ATTRIB
  Michael Kerrisk
    Add some examples of syscalls that trigger IN_MODIFY
  Michael Kerrisk
    execve(2) also generates IN_ACCESS
  Michael Kerrisk
    Add examples of syscalls that trigger IN_CREATE

Newly documented interfaces in existing pages
---

perf_event_open.2
  Vince Weaver [Michael Kerrisk]
    Document the PERF_FLAG_FD_CLOEXEC flag

      The Linux 3.14 release adds support for the PERF_FLAG_FD_CLOEXEC
      flag.

feature_test_macros.7
  Michael Kerrisk
    Document _LARGEFILE_SOURCE

tcp.7
  Michael Kerrisk [Eric Dumazet]
    Document /proc/sys/net/ipv4/tcp_autocorking
      Text heavily based on Documentation/networking/ip-sysctl.txt

New and changed links
---

name_to_handle_at.2
  Michael Kerrisk
    New link to new open_by_handle_at(2) page

Global changes
---

fmemopen.3
getaddrinfo.3
mq_notify.3
offsetof.3
aio.7
  Michael Kerrisk
    Print size_t/ssize_t values using %z printf() modifier
      There are fewer and fewer systems these days that don't
      support the %z specifier mandated in C99. So replace the
      use of %ld/%lu + (long) cast with %zd/%zu.

Changes to individual pages
---

bdflush.2
fsync.2

sync.2
  Kir Kolyshkin
    SEE ALSO: remove update(8) reference
      Remove
 reference to update(8) man page, since there is no such
      page. This is an ancient BSD leftover I believe.

chown.2
  Michael Kerrisk
    Note that 'dirfd' can be AT_FDCWD when AT_EMPTY_PATH is used

getxattr.2
  Abhay Sachan
    Fix RETURN VALUE description
      A EA can have length zero.

inotify_add_watch.2
  Michael Kerrisk
    ERRORS: add ENAMETOOLONG

inotify_init.2
  Michael Kerrisk
    Add pointer to inotify(7)

link.2
  Michael Kerrisk
    When AT_EMPTY_PATH is specified, 'olddirfd' must not refer to a
    directory

mmap.2
  Andrey Vagin
    The file descriptor for a file mapping must be readable
      There is no difference between MAP_SHARED and MAP_PRIVATE.

open.2
  Michael Kerrisk
    SEE ALSO: add open_by_name_at(2)

perf_event_open.2
  Vince Weaver
    Document PERF_EVENT_IOC_PERIOD behavior change
      Linux 3.14 (in commit bad7192b842c83e580747ca57104dd51fe08c223)
      changes
 the perf_event PERF_EVENT_IOC_PERIOD ioctl() behavior
      on all architectures to update immediately, to match the behavior
      found on ARM.

stat.2

Michael Kerrisk
Note that 'dirfd' can be AT_FDCWD when AT_EMPTY_PATH is used

syscalls.2
Michael Kerrisk
Add sched_getattr() and sched_setattr()
And update kernel version to 3.14

abort.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function abort() is thread safe.

confstr.3
Michael Kerrisk
SEE ALSO: add getconf(1), fpathconf(3), sysconf(3), pathconf(3)

exit.3
Peng Haitao
ATTRIBUTES: Note function that is not thread-safe
The function exit() is not thread safe.

fenv.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions feclearexcept(), fegetexceptflag(), feraiseexcept(),
fesetexceptflag(), fetestexcept(), fegetround(), fesetround(),
fegetenv(),
feholdexcept(), fesetenv(), feupdateenv(),
feenableexcept(), fedisableexcept() and fegetexcept() are thread
safe.

fpathconf.3
Michael Kerrisk
SEE ALSO: add confstr(3)

fseek.3
Michael Kerrisk [Petr Gajdos]
Document EINVAL error for negative file offset

fseeko.3
Michael Kerrisk
Add feature test macro requirements

fts.3
Michael Kerrisk [Mike Frysinger]
Remove mention of "32-bit systems" in BUGS

fwide.3
wprintf.3
  Michael Kerrisk [Robert P. J. Day]
    Remove mention of bogus _ISOC95_SOURCE feature test macro

getline.3
  Alexey Samsonov
    Caller should free the allocated buffer even if getline() failed
      Relevant discussion in glibc bugzilla:
      https://sourceware.org/bugzilla/show_bug.cgi?id=5666

getloadavg.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function getloadavg() is thread safe.

getpt.3
  Peng Haitao
    ATTRIBUTES:
 Note function that is thread-safe
      The function getpt() is thread safe.

if_nametoindex.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions if_nametoindex() and if_indextoname() are thread safe.

index.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions index() and rindex() are thread safe.

mkfifo.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions mkfifo() and mkfifoat() are thread safe.

netlink.3
  Michael Kerrisk
    SEE ALSO: make the reference for libnetlink the libnetlink(3) man page

random.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions random(), srandom(), initstate() and setstate()
      are thread safe.

random_r.3

Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions random_r(), srandom_r(), initstate_r() and
setstate_r() are thread safe.

sigvec.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions sigvec(), sigblock(), sigsetmask() and
siggetmask() are thread safe.

The macro sigmask() is thread safe.

sysconf.3
Michael Kerrisk
SEE ALSO: add confstr(3)

termios.3
Michael Kerrisk [Peter Hurley]
Fix error in discussion of MIN > 0, TIME == 0 noncanonical mode
As reported by Peter Hurley, for the MIN > 0, TIME == 0 case:

read() may unblock when MIN bytes are available but return
up to the 'count' parameter if more input arrives in between
waking and copying into the user buffer.
...
read() may also _not_ return until MIN bytes have been
received, even if 'count' bytes have been received.
Michael Kerrisk
Add a note on interaction of O_NONBLOCK with noncanonical MIN/TIME
POSIX leaves the behavior open.
Michael Kerrisk
Clarify termination conditions for MIN > 0, TIME > 0
Michael Kerrisk
Clarify behavior if data is available before noncanonical read()
Michael Kerrisk
Add descriptive titles to noncanonical read() cases

symlink.7
Michael Kerrisk
Add subsection on opening a symbolic link with O_PATH
Michael Kerrisk
name_to_handle_at(2) and open_by_handle_at(2) optionally follow symlinks
Michael Kerrisk
Mention use of readlink(2) to read contents of a symlink

========== Changes in man-pages-3.65 ==========

Released: 2014-04-20, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

inet_net_pton.3
  Michael Kerrisk
    New page describing inet_net_pton(3) and inet_net_ntop(3)

Newly documented interfaces in existing pages
---

fallocate.2
  Michael Kerrisk, Namjae Jeon [Christoph Hellwig, Dave Chinner]

Document FALLOC_FL_COLLAPSE_RANGE

prctl.2
Michael Kerrisk [Alex Thorlton]
Document PR_SET_THP_DISABLE and PR_GET_THP_DISABLE

proc.5
Michael Kerrisk
Document /proc/[pid]/stack
Michael Kerrisk
Document /proc/[pid]/clear_refs

New and changed links
---

inet_net_ntop.3
Michael Kerrisk
New link to new inet_net_pton.3

Changes to individual pages
---

fcntl.2
Michael Kerrisk
Note the race when O_CLOEXEC is used at same time as fork()+execve()

madvise.2
Michael Kerrisk
SEE ALSO: see prctl(2)
Because of PR_SET_THP_DISABLE.

mlock.2
Michael Kerrisk
Describe treatment of MCL_FUTURE during fork(2) and execve(2)

msync.2
Michael Kerrisk [Richard Hansen, Greg Troxel]
Warn that one of MS_SYNC or MS_ASYNC is required

open.2
Michael Kerrisk
Add more detail on the race that O_CLOEXEC is designed to avoid
Michael Kerrisk [Matthew Dempsky]
Remove
crufty text stating that O_DIRECTORY is Linux-specific
Michael Kerrisk

Note which filesystems support O_TMPFILE

perf_event_open.2
Vince Weaver [Michael Kerrisk]
Clarify EACCES and EPERM errors
Clarify the reasons for EACCES and EPERM errors.
Vince Weaver [Michael Kerrisk]
Make the ERRORS section more comprehensive.
Determined both by code inspection and by writing a large number of test programs.

personality.2
Michael Kerrisk
Available execution domains are listed in <sys/personality.h>
Michael Kerrisk
Fix discussion of return value

prctl.2
Michael Kerrisk
ERRORS: document EINVAL for PR_GET_NO_NEW_PRIVS
ERRORS: document EINVAL for PR_SET_PDEATHSIG
ERRORS: document EINVAL for PR_SET_TIMING
ERRORS: document EINVAL for PR_SET_DUMPABLE
ERRORS: document EINVAL for PR_SET_NO_NEW_PRIVS

shmget.2
Michael Kerrisk
Rewrite description of SHMMNI
default value
Michael Kerrisk
Note default value of SHMMAX
Note default value for SHMALL

byteorder.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions htonl(), htons(), ntohl() and ntohs() are thread safe.

fexecve.3
Michael Kerrisk [Steven Stewart-Gallus]
If 'fd' is a close-on-exec file descriptor for a script, fexecve() fails
See https://bugzilla.kernel.org/show_bug.cgi?id=74481

ffs.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions ffs(), ffsl() and ffsll() are thread safe.

getauxval.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function getauxval() is thread safe.

getcontext.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions getcontext() and setcontext() are thread safe.

getsubopt.3
  Peng Haitao
    ATTRIBUTES: Note function that
 is thread-safe
      The function getsubopt() is thread safe.

getutmp.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions getutmp() and getutmpx() are thread safe.

inet.3
  Michael Kerrisk
    Note success and error return for inet_aton()

inet.3
  Michael Kerrisk [Craig McQueen]
    The form 'a.b' if is suitable for Class A addresses (not class C)
  Michael Kerrisk
    SEE ALSO: add inet_net_pton(3)

makecontext.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions makecontext() and swapcontext() are thread safe.

pthread_attr_setdetachstate.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions pthread_attr_setdetachstate() and
      pthread_attr_getdetachstate() are thread safe.

pthread_attr_setguardsize.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions pthread_attr_setguardsize()

and
pthread_attr_getguardsize() are thread safe.

sigsetops.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions sigemptyset(), sigfillset(), sigaddset(),
sigdelset(), sigismember(), sigisemptyset(), sigorset() and
sigandset() are thread safe.

proc.5
Petr Gajdos
Improve /proc/[pid]/smaps entries description
Michael Kerrisk
/proc/PID/smaps is present only if CONFIG_PROC_PAGE_MONITOR
Michael Kerrisk
Note kernel version for /proc/sys/kernel/{shmall,shmmax}
Michael Kerrisk
Note kernel version for /proc/sys/kernel/{msgmax,msgmnb}

capabilities.7
Michael Kerrisk
SEE ALSO: add capsh(1)

libc.7
Michael Kerrisk
Add musl libc

========== Changes in man-pages-3.66 ==========

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Apologies
 if I missed anyone!

New and rewritten pages
----

fanotify_init.2
  Heinrich Schuchardt, Michael Kerrisk
    New page documenting fanotify_init(2)

fanotify_mark.2
  Heinrich Schuchardt, Michael Kerrisk
    New page documenting fanotify_mark(2)

sched_setscheduler.2
  Michael Kerrisk
    Page rewritten
      Stripped out the general scheduling material, which
      moved to sched(7), and rewrote much of the remainder.
      Changed copyright and license since pretty much all
      of the content was or is written by mtk.

fanotify.7
  Heinrich Schuchardt, Michael Kerrisk
    New page providing overview of the fanotify API

sched.7
  Michael Kerrisk

New page providing an overview of the scheduling APIs
Most of this content derives from sched_setscheduler(2). In
preparation for adding a sched_setattr(2) page, it makes
sense to isolate out this general content to
a separate
page that is referred to by the other scheduling pages.

Newly documented interfaces in existing pages
---

fallocate.2
Lukas Czerner [Michael Kerrisk]
Document FALLOC_FL_ZERO_RANGE
FALLOC_FL_ZERO_RANGE was added in Linux 3.14,
for zeroing ranges in the allocated space in a file.

rename.2
Miklos Szeredi [Michael Kerrisk]
Document renameat2() system call added in Linux 3.15

shmop.2
Michael Kerrisk
Document SHM_EXEC

Changes to individual pages
---

flock.2
Michael Kerrisk
Employ term "open file description" in DESCRIPTION
And include reference to open(2) for an explanation of the term.

getpriority.2
Michael Kerrisk
SEE ALSO: add sched(7)

getsockopt.2
Carsten Andrich
SEE ALSO: add packet(7)

link.2
Michael Kerrisk [Steven Stewart-Gallus]
Document ENOENT error for linkat()
See https://bugzilla.kernel.org/show_bug.cgi?id=73301

msgget.2

Michael Kerrisk
Reword EEXIST error

msgop.2
Michael Kerrisk
Note capability required to raise MQ size beyond MSGMNB

msync.2
Michael Kerrisk [Heinrich Schuchardt]
s/flushes... back to disk/flushes... back to filesystem/

nice.2
Michael Kerrisk
SEE ALSO: add sched(7)

open.2
Peter Schiffer
Update note on alignment of user buffer and file offset for O_DIRECT
The sentence in open(2) man page in notes for O_DIRECT flag:

"Under Linux 2.6, alignment to 512-byte boundaries suffices."

is not universally correct. The alignment is a property of the
storage, for example, 4k-sector drives with no 512 byte sector
emulation will be unable to perform 512-byte direct I/O.
Michael Kerrisk
Note some of the various synonyms for "open file description"
Michael Kerrisk
Remove repetitious
text on use of fcntl() to change file status flags

open_by_handle_at.2
Michael Kerrisk
Mention FreeBSD analogs

posix_fadvise.2
Michael Kerrisk [Eric Siegerman]
Fix wording error under "Architecture-specific variants"
See https://bugzilla.kernel.org/show_bug.cgi?id=75431

process_vm_readv.2
Michael Kerrisk [Stijn Hinterding]
Add feature test macro requirements
The _GNU_SOURCE FTM must be defined.

read.2
Michael Kerrisk
BUGS: detail nonatomicity bug with respect to file offset updates

This bug was fixed in Linux 3.14, with commit
9c225f2655e36a470c4f58dbbc99244c5fc7f2d4
See also http://thread.gmane.org/gmane.linux.kernel/1649458

sched_get_priority_max.2
Michael Kerrisk
Small changes consistent with migration of content to sched(7)

sched_rr_get_interval.2
Michael Kerrisk
Small changes consistent with migration of content to sched(7)

sched_setaffinity.2
Michael Kerrisk
Small changes consistent with migration of content to sched(7)

sched_setparam.2
Michael Kerrisk
Small changes consistent with migration of content to sched(7)

sched_yield.2
Michael Kerrisk
Small changes consistent with migration of content to sched(7)

semget.2
Michael Kerrisk
Consolidate discussion on noninitialization of semaphores
The fact that semget() does not initialize the semaphores
in a new set was covered in two places (in DESCRIPTION
and BUGS). Consolidate these into one place (in NOTES)
and also point out that POSIX.1-2008 says that a future
version of the standard may require an implementation to
initialize the semaphores to 0.
Michael Kerrisk
Clarify SEMMNS versus SEMMSL*SEMMNI
Michael Kerrisk
Rework EINVAL text a little
Michael Kerrisk
Clarify wording for EEXIST error

shmget.2
Manfred Spraul
Clarify SHMALL
The default for SHMALL is a limit of 8 GB, regardless of
PAGE_SIZE. The current documentation does not mention that
and is therefore more difficult to understand than necessary.
Manfred Spraul
Correct math error

2097152 is 2^21, not 2^20.
Michael Kerrisk
Reword EEXIST error
Michael Kerrisk
Clarify one of the EINVAL cases
Michael Kerrisk
Note that SHM_NORESERVE is a Linux extension
Michael Kerrisk [Simon Paillard]
Fix kernel version numbers in discussion of SHMALL
Michael Kerrisk
Rework EINVAL text
Michael Kerrisk
Move and rework discussion of mode bits
Michael Kerrisk
Reword description of O_EXCL

shmop.2
Michael Kerrisk
Move fork(2), execve(2), _exit(2) discussion to NOTES
Michael Kerrisk
Add subheads for shmat() and shmdt()
Michael Kerrisk
Rework discussion of SHM_RDONLY and SHM_REMAP
into list format
Michael Kerrisk
Structure the attach cases as a list

sigaction.2
Alan Curry
Fix bad cross reference (times(2) not time(2))
The system call that reports child CPU usage is times(2),
not time(2).

symlink.2
Michael Kerrisk [Steven Stewart-Gallus]
Document ENOENT error for symlinkat()
See https://bugzilla.kernel.org/show_bug.cgi?id=73301

syscalls.2
Michael Kerrisk
Add renameat2()
And bump kernel version.

write.2
Michael Kerrisk
BUGS: detail nonatomicity bug with respect to file offset updates
This bug was fixed in Linux 3.14, with commit
9c225f2655e36a470c4f58dbbc99244c5fc7f2d4

See also http://thread.gmane.org/gmane.linux.kernel/1649458

pthread_attr_setinheritsched.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions pthread_attr_setinheritsched() and
      pthread_attr_getinheritsched()
 are thread safe.

pthread_attr_setschedparam.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions pthread_attr_setschedparam() and
      pthread_attr_getschedparam() are thread safe.

pthread_attr_setschedpolicy.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions pthread_attr_setschedpolicy() and
      pthread_attr_getschedpolicy() are thread safe.

pthread_attr_setscope.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions pthread_attr_setscope() and pthread_attr_getscope()
      are thread safe.

pthread_attr_setstack.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions pthread_attr_setstack() and pthread_attr_getstack()
      are thread safe.

sched_getcpu.3
  Michael Kerrisk
    SEE ALSO: add sched(7)

termios.3
  Michael Kerrisk [Yuri Kozlov]
     Rework intro text for 'c_oflag'
  Michael Kerrisk
    OFDEL is in POSIX.1-2001, so remove "(Not in POSIX)" text

proc.5
  Jan Moskyto Matejka [Randy Dunlap]
    Improve description of /proc/stat 'intr' field
      The sum at the beginning of line "intr" includes also
      unnumbered interrupts.

packet.7
  Carsten Andrich [Neil Horman]
    Improve sockopt documentation for packet sockets
  Carsten Andrich [Willem de Bruijn]
    PACKET_LOSS has inverse meaning
  Stefan Puiu [Daniel Borkmann, Carsten Andrich]
    Status in PACKET_RX_RING is actually a bit mask
  Michael Kerrisk [Carsten Andrich]
    SEE ALSO: add /tools/testing/selftests/net/psock_tpacket.c

========== Changes in man-pages-3.67 ==========

Released: 2014-05-21, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

sched_setattr.2
  Michael Kerrisk, Peter Zijlstra [Juri Lelli]
    New page describing sched_setattr(2)
 and sched_getattr(2)

system.3
  Michael Kerrisk
    Rewrote large parts of the page and added a number of details

Newly documented interfaces in existing pages
---

sched.7
  Peter Zijlstra, Michael Kerrisk [Juri Lelli]
    Document SCHED_DEADLINE

New and changed links
---

renameat2.2
  Michael Kerrisk
    New link to rename.2

sched_getattr.2
  Michael Kerrisk
    New link to new sched_setattr

Changes to individual pages
---

bind.2
  Michael Kerrisk
    ERRORS: Add EADDRINUSE for ephemeral port range exhaustion

chown.2
  Michael Kerrisk
    NOTES: Add some subheadings

connect.2
  Michael Kerrisk [William Morriss]
    ERRORS: Add EADDRNOTAVAIL for ephemeral port range exhaustion

Verified from testing and the kernel source.
See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=745775
Michael Kerrisk
Remove mention
of ip_local_port_range under EAGAIN error

create_module.2
delete_module.2
init_module.2
query_module.2
Michael Kerrisk [Lucas De Marchi]
Clarify glibc header file declaration/ABI wrapper details
create_module(), delete_module(), init_module(), and
query_module() are not declared in header files, but
through an accident of history glibc provides an ABI
for them that it continues to maintain, for
compatibility reasons.

execve.2
Michael Kerrisk [Steven Stewart-Gallus]
Note SIGKILL case when execve() fails beyond the point of no return
Michael Kerrisk
NOTES: Add a subheading and reorder paragraphs

fanotify_init.2
Heinrich Schuchardt [Michael Kerrisk]
Document range of permitted flags for event_f_flags
With a new patch included in the mm tree, event_f_flags is
checked for allowable values.

fcntl.2
Michael Kerrisk
Add "file locking" subheading
under NOTES

fork.2
Michael Kerrisk
ERRORS: SCHED_DEADLINE tasks can fail with EAGAIN
SCHED_DEADLINE tasks can fail with EAGAIN unless the
reset-on-fork flag is set.

futex.2
Michael Kerrisk
Note that there is no glibc wrapper

getpriority.2
Rasmus Villemoes
Fix prototypes for getpriority() and setpriority()

The who argument has type id_t (which happens to be u32 on linux).

get_robust_list.2
  Rasmus Villemoes
    Add <sys/types.h> to synopsis of get_robust_list()
      If one were to implement wrappers for [gs]et_robust_list() using the
      given prototypes, one would also have to include sys/types.h to get
      a definition of size_t.

getrusage.2
  Michael Kerrisk [Bill Allombert]
    _GNU_SOURCE must be defined to obtain RUSAGE_THREAD definition
      See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=746569

link.2
open.2
  Andy Lutomirski [Michael Kerrisk]
     Update AT_EMPTY_PATH and O_PATH documentation

listen.2
  Michael Kerrisk
    ERRORS: Add EADDRINUSE for ephemeral port range exhaustion

mbind.2
  Rasmus Villemoes
    Fix prototype for mbind(2)
      The nmask argument is const. The return type in numaif.h is long.
      (Well, at least <numaif.h> says nmask is const. The current kernel
      does not define it as a const argument, but sys_mbind() only
      passes it to get_nodes(), which does treat it as const.)

msgop.2
  Davidlohr Bueso [Michael Kerrisk]
    Enhance description of "full queue" criteria

poll.2
  Rasmus Villemoes
    Add <signal.h> to synopsis for ppoll()
      One needs to #include <signal.h> to get the definition of the
      type (sigset_t) of the mask argument to ppoll().

readlink.2
  Rasmus Villemoes
    Fix return type of readlinkat()

recv.2
  Michael Kerrisk
    Clarify details of msg_name and msg_namelen fields

recvmmsg.2

  Michael Kerrisk
    Describe timeout bug
      See https://bugzilla.kernel.org/show_bug.cgi?id=75371
      and http://thread.gmane.org/gmane.linux.man/5677

remap_file_pages.2
  Andy Lutomirski [Christoph Hellwig, Andy Lutomirski]
    remap_file_pages() has no benefit for real files
      Linux commit 3ee6dafc677a68e461a7ddafc94a580ebab80735 caused
      remap_file_pages to be emulated when used on real file.

sched_get_priority_max.2
  Michael Kerrisk
    'policy' can also be SCHED_DEADLINE

sched_setaffinity.2
  Rasmus Villemoes
    Fix prototype for sched_setaffinity()
      The mask argument is const.

sched_setparam.2
  Michael Kerrisk
    ERRORS: mark errors that apply just for sched_setparam()
  Michael Kerrisk
    ERRORS: Add EINVAL for invalid arguments
  Michael Kerrisk
    SEE ALSO: add sched_setattr(2)

sched_setscheduler.2
  Michael Kerrisk
    ERRORS: mark errors that apply just to sched_setscheduler()
   Michael Kerrisk
    ERRORS: add EINVAL case for pid < 0
  Michael Kerrisk
    ERRORS: separate out EINVAL cases

semget.2
  Michael Kerrisk
    NOTES: Add subheadings and reorder paragraphs

semop.2
  Rasmus Villemoes
    Fix prototypes for semop() and semtimedop()
      The nsops arguments have type size_t, not unsigned, and the
      timeout argument of semtimedop() is const.

Michael Kerrisk
NOTES: Add a subheading

send.2
Michael Kerrisk
Add details on various 'msghdr' fields
Michael Kerrisk
ERRORS: Add EAGAIN for ephemeral port range exhaustion
Michael Kerrisk
Add some subheadings under DESCRIPTION

shmget.2
Michael Kerrisk
NOTES: Add a subheading

stat.2
Michael Kerrisk [Aurelien Jarno]
Describe feature test macro requirements for file type test macros
See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=728240
Michael Kerrisk
Update FTM requirements
for lstat()
Michael Kerrisk
Split discussion of 'st_mode' fields into type and permissions
Michael Kerrisk
Move text on S_I*() macros to follow text on S_I* macros
That ordering is more logical

stime.2
Rasmus Villemoes
Fix prototype for stime()
The argument is const, both according to the actual header files and
according to <http://www.sco.com/developers/devspecs/vol1a.pdf>.

syscall.2
Rasmus Villemoes
Fix prototype for syscall()
The first argument and the return value of syscall() has type long,
not int.

getopt.3
Michael Kerrisk
EXAMPLE: Add subheadings to distinguish the two example programs

malloc.3
Michael Kerrisk
Reword text referring to mallopt(3)
Linux libc is no longer "recent"; drop mention of it.

pthread_attr_setinheritsched.3
pthread_attr_setschedparam.3
pthread_attr_setschedpolicy.3
pthread_setaffinity_np.3
pthread_setschedparam.3
pthread_setschedprio.3
pthread_yield.3
pthreads.7
Michael Kerrisk
Change references to "sched_setscheduler(2)" to "sched(7)"
Change consistent with the fact that the scheduling overview
page is now sched(7) not sched_setscheduler(2).

pthread_attr_setstackaddr.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions pthread_attr_setstackaddr() and
pthread_attr_getstackaddr() are thread safe.

pthread_attr_setstacksize.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions pthread_attr_setstacksize() and
pthread_attr_getstacksize() are thread safe.

pthread_kill.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function pthread_kill() is thread safe.

pthread_kill_other_threads_np.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function pthread_kill_other_threads_np()
is thread safe.

pthread_self.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function pthread_self() is thread safe.

pthread_setcancelstate.3
Michael Kerrisk
Add paragraph breaks to "Asynchronous cancelability" subsection

pthread_setcancelstate.3
Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions pthread_setcancelstate() and
pthread_setcanceltype() are thread safe.
Michael Kerrisk
NOTES: Add some subheadings

pthread_setschedparam.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions pthread_setschedparam() and pthread_getschedparam()
are thread safe.

pthread_setschedprio.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function pthread_setschedprio() is thread safe.

pthread_sigmask.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function pthread_sigmask() is thread safe.

pthread_sigqueue.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function pthread_sigqueue() is thread safe.

pthread_testcancel.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function pthread_testcancel() is thread safe.

pthread_yield.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function pthread_yield() is thread safe.

remquo.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions remquo(), remquof() and remquol() are thread safe.

rtime.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function rtime() is thread safe.

sched_getcpu.3

Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function sched_getcpu() is thread safe.

stpcpy.3
Ingo Schwarze
Note some history of
stpcpy()
Quoting Ingo:
I just noticed that the stpcpy(3) manual contains a speculation
that appears to be untrue on closer investigation: That function
did not originate in MS DOS, but in Lattice C on AmigaDOS.

Here is a patch against the git master HEAD to fix that, and add
some more historical information. To provide some background and
allow you to more easily verify the correctness of the patch, i'm
appending my mail to <misc@openbsd.org>, where i'm giving some
more details about the history and pointing to some primary
sources. That mail also contains the (similar, but shorter)
patch i just committed to the OpenBSD manual page.

strcasecmp.3
Michael Kerrisk [Aurelien Jarno, Török Edwin]
Explain why strcasecmp()+strncasecmp() are also declared in <string.h>
See http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=729436

strcpy.3
Michael Kerrisk
NOTES: Add a subheading

fd.4
Michael Kerrisk [Sam Varshavchik]
Fix floppy disk device names
The naming convention shown in the page was ancient.
Now, the page is consistent with Documentation/devices.txt
(where it is noted that "The use of the capital letters
D, H and E for the 3.5" models have been deprecated, since
the drive type is insignificant for these devices"

proc.5
Michael Kerrisk
Document /proc/timer_stats
Michael Kerrisk
(Briefly) document /proc/timer_list
Michael Kerrisk
Add /proc/sys/kernel/{sched_rt_period_us,sched_rt_runtime_us}
Reference sched(7) for an explanation of these two files

capabilities.7
  Michael Kerrisk
    Mention sched_setattr(2) under CAP_SYS_NICE

cpuset.7
  Michael Kerrisk
    SEE ALSO: add sched(7)

credentials.7
  Michael Kerrisk
    Mention sched_getattr() as a place where credentials
 are checked

fanotify.7
  Heinrich Schuchardt [Jan Kara]
    BUGS: error events can be lost when reading from fanotify FD
  Michael Kerrisk [Heinrich Schuchardt]
    Fix description of FAN_EVENT_NEXT()
      FAN_EVENT_NEXT() does not update 'meta'; rather, it returns a
      pointer to the next metadata structure. In addition, generally
      rework the description to be a bit clearer and more detailed.
  Heinrich Schuchardt
    Document FAN_EVENT_METADATA_LEN

ip.7
  Michael Kerrisk
    Note cases where an ephemeral port is used
  Michael Kerrisk
    Remove BUGS text on glibc failing to declare in_pktinfo
  Michael Kerrisk
    Clarify 'ip_local_port_range' and mention the term "ephemeral ports"
  Michael Kerrisk
    Note some more details about assignment of ephemeral ports
  Michael Kerrisk
    BUGS: ephemeral port range exhaustion is diagnosed inconsistently
      Different system calls use different 'errno'
 values to diagnose
      exhaustion of the ephemeral port range.

sched.7
  Michael Kerrisk
    Document sched_rt_period_us and sched_rt_runtime_us /proc files
      And rework and relocate the text on dealing with runaway
      real-time processes.
  Michael Kerrisk
    Mention sched_setattr(2) in list of APIs that can change policies
  Michael Kerrisk
    sched_setattr(2) can also be used to set 'nice' value

Michael Kerrisk
Remove mention of sched_setscheduler() when talking about sched_priority
There are nowadays multiple ways to set sched_priority (and
in fact there always were, since we also had sched_setparam(2)).
Michael Kerrisk
SEE ALSO: Add Documentation/scheduler/sched-design-CFS.txt
Michael Kerrisk
Don't mention sched_setscheduler(2) in discussions of setting policies
In a couple of places, sched_setscheduler(2) is mentioned as the
way of setting policies.
But now there is sched_setattr(2) as
well, rewrite the text in a more generic way.
Michael Kerrisk
Rework summary text describing sched_setattr(2) and sched_getattr(2)
Note that these APIs are a superset of sched_setscheduler(2)
and sched_getscheduler(2).
Michael Kerrisk
Remove crufty text relating to sched_setscheduler()
All of the removed text is in sched_setscheduler(2) and
should have been trimmed from this page.
Michael Kerrisk
SEE ALSO: Mention more files in Documentation/scheduler/ directory

========== Changes in man-pages-3.68 ==========

Released: 2014-05-28, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

localedef.1
  Marko Myllynen, Richard Braakman, Alastair McKinstry, Lars Wirzenius
    New page for localedef(1)
      Add new page based on Debian localedef(1) page.

New and changed links
---

procfs.5
  New link to proc.5
    Since the term "procfs" is widely used, it seems reasonable to have
    a link from that name to proc(5).

Changes to individual pages
---

locale.1
  Marko Myllynen
    Provide a step-by-step example of how to use a custom locale
  Marko Myllynen
    Use
 LC_TELEPHONE instead of LC_MESSAGES in the example
      yesstr/nostr in LC_MESSAGES are planned to be changed at some
      point [1], so it's better to provide an example which won't
      be obsoleted by that change.

      [1] https://sourceware.org/bugzilla/show_bug.cgi?id=16975

adjtimex.2
  Michael Kerrisk
    Add feature test macro requirements

clone.2
  Michael Kerrisk
    ERRORS: add cross-reference to fork(2) for explanation of EAGAIN

fork.2
  Michael Kerrisk
    ERRORS: add pid_max and threads-max to EAGAIN

And rewrite text to be the same as pthread_create(3).

getrlimit.2
Michael Kerrisk
RLIMIT_NPROC is not enforced if CAP_SYS_ADMIN or CAP_SYS_RESOURCE

remap_file_pages.2
Rasmus Villemoes
Fix prototype
The pgoff argument has type size_t, not ssize_t (and in the
kernel it is unsigned long).

set_mempolicy.2
Rasmus Villemoes
Fix prototype for set_mempolicy(2)
The nodemask argument is const. The return type in numaif.h is long.

swapon.2
Rasmus Villemoes
Remove header from synopsis
The <asm/page.h> header is not readily available, and the comment
seems to indicate that it is for getting PAGE_SIZE. But it is
never mentioned why one would need to know that, and it is in any
case better obtained using sysconf(), provided by <unistd.h>.

a64l.3
Rasmus Villemoes
Fix prototype for a64l()
The argument is const, both according to POSIX and the
glibc headers.

adjtime.3
Rasmus Villemoes
Add required header
The prototype for adjtime(3) is declared in <sys/time.h>.

argz_add.3
Rasmus Villemoes
Fix prototypes
Update the prototypes of argz_{delete,extract,next} to agree with
glibc headers and manual.

bstring.3
Rasmus Villemoes
Fix prototypes
The length parameter n
has type size_t in bcmp(), bcopy() and
bzero().

envz_add.3
  Rasmus Villemoes
    Fix prototypes
      The envz_len parameters for envz_entry() and envz_get() are not
      passed by reference.

fpathconf.3
  Rasmus Villemoes
    Fix prototype
      The path argument to pathconf() is const.

fseek.3
  Rasmus Villemoes
    Fix prototype
      The pos argument to fsetpos() is const.

gcvt.3
  Rasmus Villemoes
    Fix prototype
      The ndigit parameter to gcvt() has type int.

getaddrinfo_a.3
  Rasmus Villemoes
    Fix prototype
      The pointer arguments to gai_suspend() are const.

getauxval.3
  Rasmus Villemoes
    Fix permissions
      There doesn't seem to be any reason for getauxval.3 to be
      executable...

getnameinfo.3
  Rasmus Villemoes
    Fix prototype
      The hostlen and servlen parameters have type socklen_t.
      (The types changed in glibc 2.2)
  Michael
 Kerrisk
    Note types of 'hostlen'; and 'servlen' in glibc < 2.2

getrpcent.3
  Rasmus Villemoes
    Fix prototype
      The argument to getrpcbyname() is const.

getrpcport.3

Rasmus Villemoes
Add #include and fix prototype
The prototype for getrpcport() is obtained by #include'ing
<rpc/rpc.h>. Also, update its prototype.

getspnam.3
Rasmus Villemoes
Fix prototype
The struct spwd argument to putspent() is const.

getutent.3
Rasmus Villemoes
Fix prototypes
The arguments to getutid(), getutline(), and pututline()
are const.

inet.3
Rasmus Villemoes
Fix prototype
The parameters to inet_makeaddr have type in_addr_t.

inet_net_pton.3
Rasmus Villemoes
srcfix, cfix
Use a consistent style throughout the man-pages.

key_setsecret.3
Rasmus Villemoes
Fix prototypes
Remove const qualifiers from arguments to key_decryptsession,
key_encryptsession, and key_setsecret.

makecontext.3
Rasmus Villemoes
Fix prototype
The second argument to swapcontext() is const.

makedev.3
Rasmus Villemoes
Fix prototype
gnu_dev_makedev, and hence its trivial macro wrapper makedev, takes
two unsigned int parameters; this is consistent with it being the
inverse of (gnu_dev_)major/minor, which return unsigned int.

malloc_trim.3
Rasmus Villemoes
Fix prototype
As mentioned further down, malloc_trim returns an integer.

mq_getattr.3
  Rasmus Villemoes
    Fix prototype
      The newattr parameter to mq_setattr is const.

newlocale.3
  Marko Myllynen
    List all available category masks
  Michael Kerrisk
    Add LC_ALL_MASK description

nl_langinfo.3
  Marko Myllynen
    Expand the example code a bit
      Better illustrate querying elements from different categories.

perror.3
   Rasmus Villemoes
    Fix declaration
      The elements of the array sys_errlist are also const.

pthread_attr_setaffinity_np.3
pthread_attr_setdetachstate.3
pthread_attr_setguardsize.3
pthread_attr_setinheritsched.3
pthread_attr_setschedparam.3
pthread_attr_setschedpolicy.3
pthread_attr_setscope.3
pthread_attr_setstack.3
pthread_attr_setstackaddr.3
pthread_attr_setstacksize.3
  Rasmus Villemoes
    Constify parameters
      Each of the pthread_attr_get* functions extract some piece of
      information from a pthread_attr_t, which is passed by const
      reference. Add the const keyword to the prototypes of these
      functions.

pthread_cleanup_push_defer_np.3
  Michael Kerrisk [Rasmus Villemoes]
    Add feature test macro requirements

pthread_create.3
  Michael Kerrisk [Carsten Grohmann]
    Add pid_max limit to EAGAIN error cases

pthread_equal.3

Peng Haitao
ATTRIBUTES: Note function that is thread-safe

The function pthread_equal() is thread safe.

pthread_exit.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function pthread_exit() is thread safe.

pthread_getcpuclockid.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function pthread_getcpuclockid() is thread safe.

pthread_setaffinity_np.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions pthread_setaffinity_np() and
pthread_getaffinity_np() are thread safe.

pthread_setconcurrency.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions pthread_setconcurrency() and
pthread_getconcurrency() are thread safe.

pthread_setname_np.3
Rasmus Villemoes
Fix prototype
The name parameter of pthread_getname_np is an output parameter and
hence not const.

pthread_setschedparam.3
Rasmus Villemoes
Fix
prototypes
Add return type for pthread_{s,g}etschedparam.

pthread_setschedprio.3
Rasmus Villemoes
Fix prototype
Add return type for pthread_setschedprio.

pthread_sigqueue.3
Rasmus Villemoes
Add missing #include <signal.h>

rcmd.3
  Rasmus Villemoes
    Fix prototypes
      Unlike the BSDs, the second argument of rcmd() and rcmd_af() has
      type unsigned short.
      The first argument of iruserok_af() has type const void*.

re_comp.3
  Rasmus Villemoes
    Fix prototypes
      re_comp and re_exec take const char* arguments.

resolver.3
  Rasmus Villemoes
    Fix prototypes and extern-declaration
      Fix const- and signedness of various char* parameters.

      Also, there is no "struct state", but _res is a struct
      __res_state. (Actually, _res is errno-like in that it is really a
      macro expanding to (*__res_state()).)

rexec.3
  Rasmus Villemoes

 Fix prototypes
      The user, passwd and cmd arguments to rexec and rexec_af are all
      const.

rtime.3
  Rasmus Villemoes
    Replace header
      The header <rpc/des_crypt.h> does not provide rtime();
      <rpc/auth_des.h> does, as is also implied in both the NOTES and
      EXAMPLE sections.

scandir.3
  Rasmus Villemoes
    Fix prototypes
      The alphasort and versionsort functions take arguments of type
      const struct dirent **, not const void *.

setlocale.3
  Michael Kerrisk [Marko Myllynen]
    Simplify locale category listing and add GNU-specific locale categories
      Some information that was here will move to locale(7).
  Marko Myllynen
    Remove now obsolete NOTES section

setnetgrent.3
  Rasmus Villemoes
    Fix prototype
      The buflen argument to getnetgrent_r has type size_t.

sigvec.3
  Rasmus Villemoes
    Fix prototype
      The vec argument to sigvec is const.

tsearch.3
   Rasmus Villemoes
    Fix prototype
      The rootp argument to tfind is "void * const *",
      not "const void **".

core.5
  Michael Kerrisk
    Core dump files are nowadays core.pid by default

locale.5
  Marko Myllynen
    Document mon_grouping and grouping properly
  Michael Kerrisk
    Note default value for 'first_workday'
  Michael Kerrisk [Marko Myllynen]
    Add brief descriptions of collating-element and collating-symbol
  Marko Myllynen
    t_fmt_ampm is needed only for locales that employ AM/PM convention
  Michael Kerrisk [Marko Myllynen]
    Remove crufty reference to /usr/lib/nls/src
      That file is nowhere to be found
  Marko Myllynen
    Clarify LC_TIME/am_pm and LC_NAME keywords usage
      am_pm should be defined only if AM/PM convention is used to signal
      applications they should not try to print them when using them in
      unwanted.

      Same
 for all LC_NAME keywords expect for name_fmt which should be
      always defined.
  Marko Myllynen
    Clarify lang_term / lang_lib
      As noted by Keld Simonsen in the lib-locales@sourceware mailing
      list:

        https://sourceware.org/ml/libc-locales/2014-q2/msg00008.html
        From: Keld Simonsen <keld at rap dot rap dot dk>

To: Marko Myllynen <myllynen at redhat dot com>
Date: Tue, 29 Apr 2014 17:02:09 +0200

lang_term reflects ISO 639-2/T (terminology) codes, while
lang_lib reflects ISO 639-2/B (bibliographic) codes.
lang_term is preferred over lang_lib codes for locale names.
There are 20 specific ISO 639-2/B codes.
Marko Myllynen
Correct the FILES section

proc.5
Michael Kerrisk
'pid_max' is a system-wide limit on number of threads and processes
Since PIDs > /proc/sys/kernel/pid_max are not allocated,
this
file thus also imposes a system-wide limit on the number of
threads and processes.

capabilities.7
Michael Kerrisk
CAP_SYS_ADMIN allows overriding RLIMIT_NPROC
Michael Kerrisk
CAP_SYS_PTRACE allows process_vm_readv(2) and process_vm_writev(2)

charsets.7
Michael Kerrisk [Marko Myllynen]
Remove crufty statement that Romanian may be switching to ISO 8859-16
Michael Kerrisk
Remove ancient paragraph on charsets supported in glibc 2.3.2
That test is rather ancient, and probably of little use.

fanotify.7
Heinrich Schuchardt
Fix to example program: fanotify read() should use aligned buffer

inotify.7
Heinrich Schuchardt
Add example program
This example of the usage of the inotify API shows the
usage of inotify_init1(2) and inotify_add_watch(2) as well
as polling and reading from the inotify file descriptor.
Heinrich Schuchardt
munmap()
does not generate inotify events

locale.7
Marko Myllynen [Michael Kerrisk]
Document the LOCPATH environment variable

Michael Kerrisk
Add further details on various categories

========== Changes in man-pages-3.69 ==========

Released: 2014-06-14, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages
---

iconv.1
Marko Myllynen [Michael Kerrisk]
New page for the iconv(1) command

iconvconfig.8
Marko Myllynen
New page for iconvconfig(8)

Newly documented interfaces in existing pages
---

fcntl.2
  Jeff Layton, Michael Kerrisk
    Document open file description locks
      As provided by the fcntl() operations F_OFD_SETLK,
      F_OFD_SETLKW, and F_OFD_GETLK

Changes to individual pages
---

locale.1
  Marko Myllynen
    Add FILES section, add charmap(5) reference
  Marko Myllynen
    Align with recent charmap(5) / repertoiremap(5) changes

execve.2
  Michael Kerrisk [NeilBrown]
    Before kernel 2.6.0, RLIMIT_NPROC had no effect for set*uid()
  Michael Kerrisk [Vasiliy Kulikov]
    RLIMIT_NPROC is checked
 only if preceded by set*uid()
  Michael Kerrisk [Vasiliy Kulikov, NeilBrown, KOSAKI Motohiro]
    Document EAGAIN error
      See also https://bugzilla.kernel.org/show_bug.cgi?id=42704

fcntl.2
  Michael Kerrisk
    Detail the limitations of traditional (process-associated) locks
  Michael Kerrisk [Jeff Layton]
    Describe how to check whether the kernel supports a particular command
  Michael Kerrisk
    ERRORS: add EINVAL for invalid 'cmd'
  Michael Kerrisk
    Add para introducing advisory locks and noting existence of OFD locks
  Michael Kerrisk [Jeff Layton]
    Add notes on F_SETLKW deadlock detection and its limitations
  Michael Kerrisk
    Add an explicit note that mandatory locking is not in POSIX
  Michael Kerrisk
    Rewrite introductory paragraphs on mandatory locking
      Make the structure more logical, and also explicitly mention
      OFD locks.
  Michael Kerrisk [Jeff Layton]

Reword discussion
of mandatory lock bug a little
Jeff Layton confirmed that the bug remains even in modern kernels.
Michael Kerrisk
Explain POSIX background to EACCES/EAGAIN error for F_GETLK
Michael Kerrisk
Add NOTES subhead for record locking and NFS
Michael Kerrisk [NeilBrown]
Note treatment of locks when an NFS client loses contact with the server
Michael Kerrisk [Jeff Layton]
nfsv4leasetime controls the "contact lost" interval for NFSv4

flock.2
Michael Kerrisk
In some modern BSDs, fcntl() and flock() locks do interact
So, reword and extend the discussion of this topic in NOTES.
Michael Kerrisk
Move NOTES text describing implementation of flock()
Michael Kerrisk [NeilBrown]
Add more details on NFS, including Linux 2.6.37 changes
Also: move NOTES text describing interaction of fcntl()
and flock() locks.

fork.2
Michael Kerrisk
Add notes on inheritance
of flock() and OFD locks across fork()

lseek.2
Michael Kerrisk
Add reference to open(2) for discussion of file descriptors and OFDs

open.2
Michael Kerrisk
Rework and extend the discussion of open file descriptions

open_by_handle_at.2
Rasmus Villemoes
Add reference to feature_test_macros(7)

recvmmsg.2
Rasmus Villemoes
Add reference to feature_test_macros(7)

remap_file_pages.2
Michael Kerrisk [Kirill A. Shutemov]
Note that remap_file_pages() is deprecated

sendmmsg.2
  Rasmus Villemoes
    Add reference to feature_test_macros(7)

seteuid.2
  Michael Kerrisk
    seteuid() and setegid() are implemented as library functions
  Michael Kerrisk
    Error checking should always be performed, even when caller is UID 0

setresuid.2
  Michael Kerrisk
    Document EAGAIN error that can occur after kernel alloc_uid() failure
  Michael Kerrisk
    Since Linux 3.1, the EAGAIN case for RLIMIT_NPROC no longer
 occurs
  Michael Kerrisk
    Correct the description of the EAGAIN error
  Michael Kerrisk
    Error checking should always be performed, even when caller is UID 0

setreuid.2
  Michael Kerrisk
    Document EAGAIN error that can occur after kernel alloc_uid() failure
  Michael Kerrisk
    Error checking should always be performed, even when caller is UID 0
  Michael Kerrisk
    Add EAGAIN error for hitting RLIMIT_NPROC limit
  Michael Kerrisk
    Since Linux 3.1, the EAGAIN case for RLIMIT_NPROC no longer occurs

setuid.2
  Michael Kerrisk
    Document EAGAIN error that can occur after kernel alloc_uid() failure
  Michael Kerrisk
    Correct the description of the EAGAIN error
  Michael Kerrisk
    Error checking should always be performed, even when caller is UID 0
  Michael Kerrisk
    Since Linux 3.1, the EAGAIN case for RLIMIT_NPROC no longer occurs

statfs.2
  Cyril Hrubis
    Update MAGIC constants

  Most of the updates are taken from /usr/include/linux/magic.h,
      some were found by grepping the Linux source code.
  Cyril Hrubis [Michael Kerrisk]

fstatfs(2) was broken on file descriptors from pipe(2)

syscalls.2
Michael Kerrisk
Note that remap_file_pages() is deprecated

basename.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions basename() and dirname() are thread safe.

catgets.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function catgets() is thread safe.

getdate.3
Rasmus Villemoes
Use blank definition of _GNU_SOURCE in example program

getdirentries.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function getdirentries() is thread safe.

getdtablesize.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function getdtablesize() is thread safe.

iconv.3
Qian Lei
[Peng Haitao]
ATTRIBUTES: Note function that is thread-safe
The function iconv() is thread safe.
Michael Kerrisk
SEE ALSO: add iconvconfig(8)

lockf.3
Qian Lei [Peng Haitao]
ATTRIBUTES: Note function that is thread-safe
The function lockf() is thread safe.

malloc_get_state.3
Rasmus Villemoes
SYNOPSIS: use correct header
The nonstandard functions malloc_set_state() and
malloc_get_state() are provided by <malloc.h> not <stdlib.h>.

malloc_usable_size.3
  Qian Lei
    ATTRIBUTES: Note function that is thread-safe
      The function malloc_usable_size() is thread safe.

matherr.3
  Qian Lei [Peng Haitao]
    ATTRIBUTES: Note function that is thread-safe
      The function matherr() is thread safe.

mkdtemp.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function mkdtemp() is thread safe.

mkstemp.3
  Peng Haitao
    ATTRIBUTES:
 Note functions that are thread-safe
      The functions mkstemp(), mkostemp(), mkstemps() and mkostemps()
      are thread safe.

mq_close.3
  Qian Lei
    ATTRIBUTES: Note function that is thread-safe
      The function mq_close() is thread safe.

mq_getattr.3
  Qian Lei
    ATTRIBUTES: Note function that is thread-safe
      The functions mq_getattr() and mq_setattr() are thread safe.

mq_open.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function mq_open() is thread safe.

mq_receive.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions mq_receive() and mq_timedreceive() are thread safe.

mq_send.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread-safe
      The functions mq_send() and mq_timedsend() are thread safe.

mq_unlink.3
  Qian Lei
    ATTRIBUTES: Note function that is thread-safe
      The function mq_unlink() is thread
 safe.

posix_fallocate.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function posix_fallocate() is thread safe.

posix_openpt.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function posix_openpt() is thread safe.

siginterrupt.3
  Peng Haitao
    ATTRIBUTES: Note function that is not thread-safe
      The function siginterrupt() is not thread safe.

system.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread-safe
      The function system() is thread safe.

charmap.5
  Marko Myllynen
    Update to match current glibc
      charmap(5) was outdated, bring it to closer to reality by fixing
      syntax descriptions to match current glibc code and practices,
      adding missing options, removing obsolete comments and references,
      and removing now incorrect examples.

locale.5
  Marko Myllynen
    Clarify AM/PM settings a bit

     localedef(1) complains if really undefined, should be empty instead.
      Also: add some SEE ALSO references.
  Marko Myllynen
    Document glibc conventions regarding days and week
      Based on existing practice and glibc community wiki page at
      https://sourceware.org/glibc/wiki/Locales

proc.5
  Michael Kerrisk [Jan Chaloupka, Walter Harms]
    Add a brief description of /proc/fs

repertoiremap.5
  Marko Myllynen
    New page for repertoiremap(5)
      Rather obsolete feature but localedef(1) refers to repertoiremaps.

bootparam.7
  Petr Gajdos
    Describe 'rootflags' and 'rootdelay' kernel parameters
      Patch based on text from Documentation/kernel-parameters.txt

charsets.7
  Marko Myllynen
    Update to reflect past developments
      Rewrite the introduction to make Unicode's prominence more obvious.
      Reformulate parts of the text to reflect current Unicode world.
      Minor clarification
 for ASCII/ISO sections, some other minor fixes.
  Marko Myllynen
    List CJK encodings in the order of C, J, K

environ.7
  Michael Kerrisk
    SEE ALSO: add env(1), printenv(1), ld.so(8)

locale.7
  Marko Myllynen
    Add some SEE ALSO references

man-pages.7
  Michael Kerrisk
    Note that .TH 'date' field is nowadays automatically updated by scripts

signal.7
  Michael Kerrisk
    Describe EINTR semantics for recvmmsg(2)
  Michael Kerrisk
    Clarify text describing EINTR semantics for socket interfaces

unicode.7
  Marko Myllynen
    Update to reflect past developments
      The unicode(7) page will look more modern with few small changes:

      - drop old BUGS section, editors cope with UTF-8 ok these days,
        and perhaps the state-of-the-art is better described elsewhere
        anyway than in a man page
      - drop old suggestion about avoiding combined characters

- refer to LANANA
for Linux zone, add registry file reference
- drop a reference to an inactive/dead mailing list
- update some reference URLs

utf-8.7
Marko Myllynen
Drop an old comment about UTF-8 replacing ISO 8859
And add locale(1) under SEE ALSO.

========== Changes in man-pages-3.70 ==========

Released: 2014-07-08, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

sprof.1
Michael Kerrisk [Marko Myllynen]

New page for the glibc sprof(1) command

Newly documented interfaces in existing pages
---

epoll_ctl.2
  NeilBrown
    Document EPOLLWAKEUP

epoll.7
  NeilBrown
    Document EPOLLWAKEUP

Changes to individual pages
---

iconv.1
iconvconfig.8
  Marko Myllynen
    Clarify gconv file terminology a bit

ldd.1
  Michael Kerrisk
    SEE ALSO: add sprof(1)

connect.2
  Michael Kerrisk
    ERRORS: add EPROTOTYPE
      See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=708394

dup.2
  Michael Kerrisk [Rich Felker]
    Fix erroneous discussion regarding closing 'newfd' before calling dup2()
      And propose a workaround
 if the caller cares about catching
      close() time errors.

      See http://stackoverflow.com/questions/23440216/race-condition-when-using-dup2#comment36888604_23444465
      and http://austingroupbugs.net/view.php?id=411
  Michael Kerrisk
    Rework and enhance discussion of dup2()
      In particular, note that dup2() performs the steps of closing
      and reusing 'newfd' atomically.
  Michael Kerrisk
    Add subhead for dup3()

epoll_ctl.2
  Michael Kerrisk
    BUGS: EPOLLWAKEUP is silently ignored without CAP_BLOCK_SUSPEND
      If the caller does not have CAP_BLOCK_SUSPEND, then EPOLLWAKEUP
      is silently ignored.

fcntl.2
  Michael Kerrisk [Tomi Salminen]
    The return value for F_SETPIPE_SZ is the pipe capacity
  Michael Kerrisk
    ERRORS: Document ENOTDIR error for F_NOTIFY
  Michael Kerrisk
    Use proper page cross-references in F_NOTIFY discussion
  Michael Kerrisk
    Suggest the
 use of real-time signals with F_NOTIFY

getitimer.2
  Michael Kerrisk
    Rewrite a few pieces to clarify some details

inotify_add_watch.2
  Michael Kerrisk
    Clarify that the target of a watch is an i-node
      The target of a watch is an i-node, not a pathname. Clarify
      the text to prevent the reader possibly misunderstanding
      that establishing watches by two different links to the same
      file might create different watch descriptors.

open.2
  Michael Kerrisk []
    O_CLOEXEC is also one the flags not ignored when O_PATH is specified

pipe.2
  Elie De Brauwer
    PIPE_BUF is defined in limits.h
      To make use of PIPE_BUF in an application one should include
      <limits.h>. Adding a reference to this inclusion.

poll.2
  Michael Kerrisk [Nadav Har'El]
    The negate-fd-to-ignore technique does not work for file descriptor 0
      See https://bugzilla.kernel.org/show_bug.cgi?id=79411

set_tid_address.2
   Michael Kerrisk [Rich Felker]
    Use "thread" rather than "process" in DESCRIPTION

Michael Kerrisk
SEE ALSO: add gettid(2)

shmop.2
Michael Kerrisk
Explain SHMLBA in much more detail

splice.2
Michael Kerrisk
Document EAGAIN error
See https://bugzilla.kernel.org/show_bug.cgi?id=48641

syscalls.2
Carlos O'Donell
Add prlimit64(2)
While trying to reconcile the new features in glibc with the
documented entries in the linux kernel man pages I noticed that
glibc exports prlimit64 for use by 32-bit applications (as does
the linux kernel), but that prlimit64 was not defined in the
syscalls list or in the prlimit-related page.

This is not the complete fix for this, but I don't have the time
to explain why and when prlimit64 should be used (or how it should
be used safely). Therefore I'm just patching the syscalls.2
list
to show that prlimit64 exists and was added in 2.6.36 (verified
with git by checking out the tags before and after).

syslog.2
Michael Kerrisk
Rework introductory paragraph
Michael Kerrisk [Robert P. J. Day]
Rework text describing loglevels
The kernel header file mentioned in the discussion of the KERN_*
constants has morphed and is no longer exported inside glibc.
And the definitions of the constants themselves changed subtly
with kernel commit 04d2c8c83d0e3ac5f78aeede51babb3236200112.
So, rewrite the description of the constants to be a bit more
abstract.
Michael Kerrisk
Rewrite parts of the page, and import /proc/sys/kernel/printk
* Move /proc/sys/kernel/printk from proc(5) to this page,
and correct various details in the discussion of that file.
* Rewrite and correct various other details on the page.
* Clean out some crufty text.
* Miscellaneous minor fixes.
Michael Kerrisk
Update SYSLOG_ACTION_CONSOLE_OFF + SYSLOG_ACTION_CONSOLE_ON description

Details changed in Linux 2.6.32

tee.2
Michael Kerrisk
Document EAGAIN error
See https://bugzilla.kernel.org/show_bug.cgi?id=48641

vmsplice.2
Michael Kerrisk
Document EAGAIN error
See https://bugzilla.kernel.org/show_bug.cgi?id=48641

ether_aton.3
Michael Kerrisk
Make description of ether_line() bug a little more informative

mallopt.3
Michael Kerrisk [Florian Weimer]
MALLOC_MMAP_THRESHOLD_ and MALLOC_MMAP_MAX_ *do* work in setgid programs
My testing on this point was bogus, overlooking details of
strace(1)'s behavior with setuid programs.

See https://sourceware.org/bugzilla/show_bug.cgi?id=12155

printf.3
Michael Kerrisk [Rich Felker]
Remove libc4 and libc5 details

Rich Felker noted that "scare text" in the man page warned about
the use of snprintf() on libc, and that some people had cited
this as a reason not to use snprintf(). Linux libc is now
ancient history, so there is no real need to keep that text.
But, while we're at it, we may as well clear out all of the
other ancient libc4 and libc5 pieces in the page. They are
nowadays more clutter than help.
Michael Kerrisk
SUSv3 and later agree with C99 for the snprintf() return value
Determined by inspection of the SUSv3 and SUSv4 specifications.
Michael Kerrisk
Remove some old text about glibc 2.0 changes
We probably don't now need such ancient info.
Michael Kerrisk
Update references to standards for C and S conversion specifiers

profil.3
Michael Kerrisk
SEE ALSO: add sprof(1)

charmap.5
  Marko Myllynen
    Various minor updates and improvements
      - more precise title
      - extend description a bit
      - document previously omitted WIDTH_DEFAULT
  Marko Myllynen
    Remove accidental ISO C compliance reference
      glibc refers in locale/programs/charmap.c to ISO C 99 section
      7.17.(2) and ISO C 99 section 5.2.1.(3) that if a character map
      is not ASCII compatible then the locale using it is not ISO C
      compliant. This does not state anything about the character set
      itself.

proc.5
  Michael Kerrisk
    Replace /proc/sys/kernel/printk discussion with reference to syslog(2)
      It makes more sense to have the /proc/sys/kernel/printk with
      the related material in syslog(2).
  Michael Kerrisk
    Rewrite /proc/sys/kernel/printk description

inotify.7
  Michael Kerrisk
    Clarify which events are generated for watched directories
      Really, with respect to watched directories, events fall into

      three classes (not two, as was shown):

      * Events that can be generated only for the watched directory.
      * Events that can be generated only for objects that are inside
        the watched directory.
      * Events that can be generated both for the watched directory
        and for objects inside the directory.

      So, mark these three classes more clearly in the list of inotify
      events.
  Heinrich Schuchardt [Michael Kerrisk]
    BUGS: Note possible bug triggered by watch descriptor reuse
      Watch descriptor IDs are returned by inotify_add_watch().
      When calling inotify_rm_watch() an IN_IGNORED is placed on the
      inotify queue pointing to the ID of the removed watch.

      inotify_add_watch() should not return a watch descriptor ID for
      which events are still on the queue but should return an
      unused ID.

      Unfortunately, the existing Kernel

code does not provide such a
guarantee.

Actually, in rare cases watch descriptor IDs are returned by
inotify_add_watch() for which events are still on the inotify
queue.

See https://bugzilla.kernel.org/show_bug.cgi?id=77111
Michael Kerrisk
Add further detail to the watch descriptor reuse bug
As well as inotify_rm_watch(), file deletion and unmounting a
filesystem can also cause a watch descriptor to be deleted.
Michael Kerrisk
The watch descriptor reuse bug may be hard to hit in practice
Explain the circumstances in detail, indicating that the
bug may be very unlikely to occur in practice.
Michael Kerrisk
Clarify description of IN_EXCL_UNLINK
Clarify the text a little, in particular making it clearer
that the target of a watch is an i-node (not a pathname).
Michael Kerrisk
Clarify IN_ONESHOT explanation

Make it clearer that the target of monitoring is an i-node,
not a pathname.
Michael Kerrisk
Make comment on 'mask' field more accurate

libc.7
Michael Kerrisk
Clarify man-pages policy on documenting C libraries other than glibc
Michael Kerrisk
Use absolute dates in discussion of libc vs glibc

pipe.7
Elie De Brauwer
Add reference that the pipe capacity can be changed
In fcntl(2) F_SETPIPE_SZ, F_GETPIPE_SZ and
/proc/sys/fs/pipe-max-size are defined, however
pipe(7) still defines the pipe capacity as being
a static entity. Adding a reference to fcntl(2).
Michael Kerrisk [Walter Harms]
Clarify that since 2.6.35, 65535 bytes is the default pipe capacity

ld.so.8
Michael Kerrisk
Clarify that LD_PROFILE can specify just a single shared object
Michael Kerrisk

Clarify that LD_PROFILE output is appended to target file
The LD_PROFILE
output is appended to any existing
contents of the target file.
Michael Kerrisk
SEE ALSO: add sprof(1)

========== Changes in man-pages-3.71 ==========

Released: 2014-08-17, Chicago

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages
---

group_member.3

Michael Kerrisk
New page documenting group_member(3)

isfdtype.3
Michael Kerrisk
New page documenting isfdtype(3)

Newly documented interfaces in existing pages
---

perf_event_open.2
Vince Weaver
Document new comm_exec flag
Linux 3.16 (more specifically, commit 82b897782d10fcc4)
added support for differentiating between process renames
caused by exec versus those caused by other methods.
Vince Weaver
Document new mmap2 record type
Linux 3.16 (more specifically, commit a5a5ba72843dd05f9)
enabled the enhanced mmap2 record support.
The interface was added in Linux 3.12 but disabled until
Linux 3.16.
Vince Weaver

Document PERF_SAMPLE_BRANCH_COND
Linux 3.16 (more specifically, commit bac52139f0b7ab31330)
adds support for gathering PERF_SAMPLE_BRANCH_COND
conditional branch values when doing PERF_SAMPLE_BRANCH_STACK
sampling.

proc.5
Michael Kerrisk
Document /proc/PID/comm
Michael Kerrisk
Document /proc/PID/pagemap
Michael Kerrisk
Document /proc/PID/personality
Michael Kerrisk
Document /proc/PID/syscall
Michael Kerrisk
Document /proc/kpagecount
Michael Kerrisk
Document /proc/kpageflags
Michael Kerrisk
Document /proc/sys/vm/overcommit_kbytes

capabilities.7

Michael Kerrisk
Add CAP_AUDIT_READ
CAP_AUDIT_READ is new in Linux 3.16.

Global changes
---

ldd.1
clone.2
execve.2
getpagesize.2
ioperm.2
msgop.2
readv.2
recv.2
select.2
send.2
seteuid.2
shmop.2
signal.2
sync.2
sysinfo.2
utime.2
abs.3
atoi.3
catopen.3
clearenv.3
ctime.3
des_crypt.3
ecvt.3
flockfile.3
fseeko.3
ftime.3
ftok.3
ftw.3
getcwd.3
getdtablesize.3
getline.3
getpass.3
getpass.3
getutent.3
glob.3
insque.3
lseek64.3
memmem.3
mkstemp.3
mktemp.3

on_exit.3
openpty.3
putenv.3
putenv.3
qecvt.3
realpath.3
realpath.3
remove.3
setbuf.3
sigpause.3
strftime.3
strptime.3
tzset.3
xcrypt.3
utmp.5
environ.7
ipv6.7
packet.7
    Michael Kerrisk
      Remove ancient Linux libc details

access.2
brk.2
chmod.2
eventfd.2
gethostname.2
getpriority.2
mmap.2
poll.2
ptrace.2
readv.2
sched_setaffinity.2
select.2
seteuid.2
signalfd.2
sync_file_range.2
timer_create.2
uname.2
wait.2
  Michael Kerrisk
    NOTES: add "C library/kernel ABI differences" subheading

Changes to individual pages
----

access.2
  Michael Kerrisk

Glibc falls back to using access() on kernels that lack faccessat()

bdflush.2
fsync.2
sync.2
proc.5
Adrian Bunk
Change "sync(1)" to "sync(8)"

bind.2
Michael Kerrisk [Ryan Hammonds]
Correct EINVAL
error description
As pointed out by Ryan:

My application is trying to bind an IPv4 UDP socket to an address. I've found that passing an invalid address length to bind() causes bind to return EINVAL. According to the bind(2) manpage, this should only occur when using unix domain sockets (which I am not).

chmod.2
Michael Kerrisk
Glibc falls back to chmod() on kernels that don't support fchmodat()
Michael Kerrisk
Glibc falls back to chown()/lchown() on kernels that lack fchownat()

epoll_wait.2
Michael Kerrisk
NOTES: describe raw epoll_pwait() system call differences

getgroups.2
Michael Kerrisk
SEE ALSO: add group_member(3)

getpriority.2
Michael Kerrisk
Enhance discussion of kernel nice range versus user-space nice range
Michael Kerrisk
Move text describing nice range on other systems

getrlimit.2
Michael Kerrisk

Add cross reference to core(5) in discussion of RLIMIT_CORE
Michael Kerrisk
Describe the "large" resource limit bug on 32-bit platforms
See https://bugzilla.kernel.org/show_bug.cgi?id=5042.

Michael Kerrisk
Glibc's setrlimit() and getrlimit() are implemented using prlimit()

kexec_load.2
Michael Kerrisk
Note limit of 16 for 'nr_segments'
Michael Kerrisk
Clarify the 'flags' bits that contain the architecture
Michael Kerrisk
Add KEXEC_ARCH_68K to list of architectures for 'flags'
Michael Kerrisk
Reword description of 'flags' a little

link.2
Michael Kerrisk
Glibc falls back to link() on kernels that lack linkat()
Unless 'flags' contains AT_SYMLINK_FOLLOW.

mkdir.2
Michael Kerrisk
Glibc falls back to mkdir() on kernels that don't support mkdirat()

perf_event_open.2
Vince Weaver
Clarify PERF_SAMPLE_STACK_USER usage
This clarifies the PERF_SAMPLE_STACK_USER
section.
I found these issue while implementing some code that uses
the option. The important change is fixing the name of the
sample_stack_user parameter, the rest is just some wording
fixes and minor clarifications.
Vince Weaver
Clarify PERF_SAMPLE_DATA_SRC usage
When checking the fields in the PERF_SAMPLE_DATA_SRC type samples
you need to shift the masks before doing the compare.

Although the value you are checking (perf_mem_data_src) is
specified as a bitfield so this might all fall apart if trying
to access the field in a cross-endian way. The Power people
were working on this issue, not sure if they resolved it.

poll.2
Michael Kerrisk
Describe fifth argument (sigsetsize) of raw ppoll() system call

process_vm_readv.2
Michael Kerrisk [Ville Ylenius]
Fix typo in example program

readlink.2
  Michael Kerrisk

    Glibc falls back to readlink() on kernels that lack readlinkat()

recv.2
  Michael Kerrisk
    'addrlen' should be NULL (not 0) if we don't need sender address

rename.2
  Michael Kerrisk
    Glibc falls back to rename() when the kernel doesn't have renameat()

sigwaitinfo.2
  Michael Kerrisk
    The raw sigtimedwait() system call has a fifth argument

symlink.2
  Michael Kerrisk
    Glibc falls back to symlink() on kernels that lack symlinkat()

sysinfo.2
  Michael Kerrisk
    Add VERSIONS section

unlink.2
  Michael Kerrisk
    Glibc falls back to unlink() or rmdir() on kernels that lack unlinkat()

atoi.3
  Michael Kerrisk
    Downgrade discussion of atoq()
      Remove most references to atoq() in this page, since this function
      was present only in Linux libc (not glibc).

cerf.3
cexp2.3
clog2.3
  Michael Kerrisk
    Update version number on "Not yet in glibc" sentence

fgetgrent.3
getgrent.3
getgrent_r.3
getgrnam.3
  Michael Kerrisk [Rob Landley]
    Clarify that 'gr_mem' is a NULL-terminated array of pointers

fseeko.3
  Michael Kerrisk
    Add VERSIONS section

ftw.3
  Michael Kerrisk
    Add VERSIONS section

getauxval.3
  Michael Kerrisk
    Document ENOENT error
      And add an entry to BUGS explaining the ambiguity that was
      present before the addition of this error.

getgrouplist.3
  Michael Kerrisk
    SEE ALSO: add group_member(3)

getline.3
  Rahul Bedarkar
    Close opened file at end of example program

memmem.3
  Michael Kerrisk
    Rewrite text of glibc 2.0 bug

printf.3
  Michael Kerrisk [Jakub Wilk]
    Clarify details of the %n conversion specifier
      See http://bugs.debian.org/756602
  Michael Kerrisk [Jakub Wilk]
    Note use of 'j', 'z', and 't' length modifiers for '%n'
      See http://bugs.debian.org/756602
  Michael Kerrisk
    Update with some SUSv3 details

setbuf.3
  Michael
 Kerrisk
    Remove ancient Linux libc and 4.x BSD details

strstr.3
  Michael Kerrisk
    Remove discussion of Linux libc bugs
      Linux libc is old enough that we needn't care any longer.

strtod.3

Michael Kerrisk
Explain NAN(n-char-sequence)

strtod.3
Michael Kerrisk
SEE ALSO: add nan(3), nanf(3), NANL(3)

updwtmp.3
Michael Kerrisk
Replace AVAILABILITY section with note to link logwtmp() using -lutil
Linux libc details are no longer needed these days.

core.5
Rahul Bedarkar
Close opened file in example program

proc.5
Michael Kerrisk
Fix kernel version numbers for /proc/PID/stat fields

proc.5
Jan Chaloupka
Add missing proc stats fields
Adding missing proc stats fields from
https://www.kernel.org/doc/Documentation/filesystems/proc.txt
Michael Kerrisk [Simon Paillard]
Remove crufty text under 'timer_stats'
Michael Kerrisk
Update /proc/PID/stat
'state' field documentation
Michael Kerrisk
Improve description of /proc/PID/stat fields added in Linux 3.3 and 3.5
Michael Kerrisk
Refer to getauxval(3) in discussion of /proc/PID/auxv
Michael Kerrisk
Rework formatting of /proc/PID/stat list
Make the field numbers more prominent.
Michael Kerrisk
Note that /proc/PID/cmdline is read-only
Michael Kerrisk
Rework discussion of CommitLimit and /proc/sys/vm/overcommit_memory
Michael Kerrisk
Improve discussion of /proc/sys/vm/overcommit_ratio

charsets.7
David Prévot [Marko Myllynen]
Tidy up list
Remove German from main list, to be consistent with earlier

removal of Dutch and French (in commit a8ed5f7430e0d1).

inotify.7
  Michael Kerrisk
    Note that IN_ONLY_DIR can be used to avoid races
  Michael Kerrisk
    Note that insertion of IN_MOVED_FROM+IN_MOVED_TO pair is not atomic
  Michael Kerrisk
     Mention use of timeout when reading IN_MOVED_TO after IN_MOVED_FROM

man-pages.7
  Michael Kerrisk
    Add description of "C library/kernel ABI differences" subsection
  Michael Kerrisk
    Rework text describing sections (stylistic improvements)

vdso.7
  Mike Frysinger
    Add new i386 vdso symbols in Linux 3.15
  Michael Kerrisk
    Note kernel version that exports new i386 symbols (Linux 3.15)

========== Changes in man-pages-3.72 ==========

Released: 2014-09-07, Mountain View

Contributors

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Apologies if I missed anyone!

New and rewritten pages
---

memusage.1
  Peter Schiffer, Michael Kerrisk [Jan Chaloupka]
    New page for glibc memusage(1) command

memusagestat.1
  Peter Schiffer [Jan Chaloupka, Michael Kerrisk]
    New page for glibc memusagestat(1) command

mtrace.1
  Peter Schiffer [Jan Chaloupka]
    New page describing the glibc mtrace(1) command

Changes to individual pages
---

connect.2
  Michael Haardt
    Note that a new socket should be used if connect() fails

fcntl.2
  Michael Kerrisk
    One must define _GNU_SOURCE to get the F_OFD_* definitions

poll.2, select.2
  Rusty Russell
    Fix erroneous description of "available for write".
      POSIX says: "POLLOUT Normal data may be written without
      blocking.". This "may" is misleading, see the POSIX
      write page:

          Write requests
 to a pipe or FIFO shall be handled in the
          same way as a regular file with the following exceptions:
          ...
          If the O_NONBLOCK flag is clear, a write request may cause
          the thread to block, but on normal completion it shall
          return nbyte.
          ...
          When attempting to write to a file descriptor (other than a
          pipe or FIFO) that supports non-blocking writes and cannot
          accept the data immediately:

          If the O_NONBLOCK flag is clear, write() shall block the
          calling thread until the data can be accepted.

If the O_NONBLOCK flag is set, write() shall not block the
thread. If some data can be written without blocking the
thread, write() shall write what it can and return the
number of bytes written. Otherwise, it shall return -1 and
set errno to [EAGAIN].

The net result is that write() of more than 1 byte on a
socket, pipe or FIFO which is "ready" may block: write()
(unlike read!) will attempt to write the entire buffer and
only return a short write under exceptional circumstances.

Indeed, this is the behaviour we see in Linux:

https://github.com/rustyrussell/ccan/commit/897626152d12d7fd13a8feb36989eb5c8c1f3485
https://plus.google.com/103188246877163594460/posts/BkTGTMHDFgZ

errno.3
Michael Kerrisk
SEE ALSO: add errno(1)

rtnetlink.3
Holger Hans Peter Freyther
Fix parameters for the send() call in the example

inotify.7
Michael Kerrisk
IN_OPEN and IN_CLOSE_NOWRITE can also occur for directories
Michael Kerrisk
IN_CLOSE_WRITE occurs only for files (not monitored directory)
Michael Kerrisk
IN_MODIFY is generated for files only (not monitored directories)
Michael Kerrisk
IN_ACCESS
occurs only for files inside directories
IN_ACCESS does not occur for monitored directory.

packet.7
Sorin Dumitru
Fix include file
It looks like most of the socket options from this man pages
are not defined in <netpacket/packet.h>. They are defined in
<linux/if_packet.h> so we should include that one.

========== Changes in man-pages-3.73 ==========

Released: 2014-09-21, Munich

Contributors

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Apologies if I missed anyone!

New and rewritten pages
---

namespaces.7
  Michael Kerrisk [Eric W. Biederman]
    New page providing overview of Linux namespaces

pid_namespaces.7
  Michael Kerrisk [Eric W. Biederman, Vasily Kulikov, Rob Landley,
                    Serge Hallyn]
    New page describing PID namespaces

user_namespaces.7
  Michael Kerrisk [Eric W. Biederman, Andy Lutomirski, Serge Hallyn]
    New page describing user namespaces.

Newly documented interfaces in existing pages
---

clone.2

Eric W. Biederman [Michael Kerrisk]
Document CLONE_NEWUSER for creating a new user namespace

setns.2
Eric W. Biederman, Michael Kerrisk
Document the PID, user, and mount namespace support
Document CLONE_NEWPID,
CLONE_NEWUSER, and CLONE_NEWNS flags.

unshare.2
Michael Kerrisk [Eric W. Biederman]
Document CLONE_NEWPID
Michael Kerrisk [Eric W. Biederman]
Document CLONE_NEWUSER
Michael Kerrisk
Document CLONE_THREAD, CLONE_SIGHAND, and CLONE_VM

Changes to individual pages
---

clone.2
Michael Kerrisk
Move some CLONE_NEWNET text to namespaces.7
Michael Kerrisk
Move some CLONE_NEWUTS text 2 to namespaces.7
Michael Kerrisk
Move some CLONE_NEWIPC text to namespaces.7
Michael Kerrisk
Reword discussion of CLONE_NEWNS, removing text also in namespaces(7)
Michael Kerrisk
Standardize text on CLONE_NEW* flags and CAP_SYS_ADMIN
Michael Kerrisk
EINVAL if (CLONE_NEWUSER|CLONE_NEWPID) && (CLONE_THREAD|CLONE_PARENT)
Michael Kerrisk
Add more detail on the meaning of CLONE_SYSVSEM

flock.2
Michael Kerrisk [J. Bruce Fields]
Don't mention "classical BSD"
in discussion of fcntl()/flock interaction
The noninteraction of flock(2) and fcntl(2) locks does
not seem to be classical BSD semantics (at least, checking
the 4.4BSD sources suggest that the lock types do interact,
although there have been other systems also where fcntl()
and flock() locks do not interact). So, fix the text
discussing "classical BSD" lock semantics.

getunwind.2
  Michael Kerrisk [Yuri Kozlov]
    Fix description of return value
      s/size of unwind table/size of the unwind data/

mount.2
  Eric W. Biederman
    Clarify use of 'mountflags' and 'data' for MS_REMOUNT

reboot.2
  Michael Kerrisk [Justin Cormack, Eric W. Biederman]
    Document effect of reboot() inside PID namespaces

semop.2
  Michael Kerrisk
    Refer to clone(2) for semantics of CLONE_SYSVSEM and semadj lists

seteuid.2
setgid.2
setresuid.2
setreuid.2
setuid.2
  Michael Kerrisk
    EINVAL
 can occur if UID/GID is not valid in caller's user namespace

setns.2
  Michael Kerrisk [Eric W. Biederman]
    Clarify capabilities required for reassociating with a mount namespace
  Michael Kerrisk
    Specify kernel version on each CLONE_NEW* flag
      And remove text on flags from VERSIONS.

unshare.2
  Michael Kerrisk
    Add an example program
  Michael Kerrisk
    Clarify semantics of CLONE_SYSVSEM
  Michael Kerrisk
    CLONE_SYSVSEM does not require CAP_SYS_ADMIN
  Michael Kerrisk
    Note flags implied by CLONE_THREAD and CLONE_VM

clock.3
  Michael Kerrisk [Vincent Lefevre]
    The implementation uses clock_gettime() was to improve *accuracy*
      (The man page text mistakenly used the word "precision".)

drand48.3
  Michael Kerrisk [Lorenzo Beretta]
    Remove crufty text about SVID 3 marking drand48() obsolete
      See http://bugs.debian.org/758293

proc.5
  Michael Kerrisk
    Move /proc/[pid]/mounts
 text to namespaces.7
  Michael Kerrisk
    Move /proc/[pid]/mountstats text to namespaces.7

capabilities.7
  Michael Kerrisk
    Refer reader to user_namespaces(7) for a discussion of capabilities
  Michael Kerrisk
    Document CAP_SETUID and CAP_SETGID for user namespace mappings
  Michael Kerrisk
    setns() needs CAP_SYS_ADMIN in the *target* namespace
  Michael Kerrisk
    Since Linux 3.8, user namespaces no longer require CAP_SYS_ADMIN

mq_overview.7
  Michael Kerrisk
    Refer to namespaces(7) for info on POSIX MQs and IPC namespaces

svipc.7
  Michael Kerrisk
    Refer to namespaces(7) for info on System V IPC and IPC namespaces

========== Changes in man-pages-3.74 ==========

Released: 2014-10-03, Munich

Contributors

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Apologies if I missed anyone!

New and rewritten pages
---

pldd.1
  Michael Kerrisk
    New page for pldd(1) command added to glibc in version 2.15

cp1252.7
  Marko Myllynen
    New page documenting CP 1252
      CP 1252 is probably one of the most used Windows Code Pages so
      let's add a page for it
 alongside with the already provided
      CP 1251 page.

      Table generated from /usr/share/i18n/charmaps/CP1252.

Newly documented interfaces in existing pages
---

mq_overview.7
  Michael Kerrisk
    Document /proc/sys/fs/mqueue/msgsize_default
  Michael Kerrisk
    Document /proc/sys/fs/mqueue/msg_default

Changes to individual pages
---

ldd.1
  Michael Kerrisk
    SEE ALSO: add pldd(1)

execve.2
  Michael Kerrisk [C. Alex North-Keys]
    Remove unneeded ".sh" extension in interpreter script example
      See https://bugzilla.kernel.org/show_bug.cgi?id=84701

fanotify_init.2
  Heinrich Schuchardt
    BUGS: O_CLOEXEC is ignored
  Michael Kerrisk [Heinrich Schuchardt]
    The 'event_f_flags' failure to check invalid flags was fixed in 3.15

fanotify_mark.2
  Michael Kerrisk
    Note that various bugs were fixed in Linux 3.16

getrlimit.2
  Michael Kerrisk
 [Doug Ledford]
    Since Linux 3.5, the accounting formula for RLIMIT_MSGQUEUE has changed

open.2
  Michael Kerrisk [Shriramana Sharma]
    Fix number and formula in description of EOVERFLOW error

readlink.2
  Michael Kerrisk [Ben Hutchings]
    Fix description of readlinkat() with empty 'pathname'
  Michael Kerrisk
    SEE ALSO: add realpath(3)

sched_setattr.2
sched_setscheduler.2
  Michael Kerrisk
    SEE ALSO: add chrt(1)

shmget.2
  Manfred Spraul [Michael Kerrisk, Davidlohr Bueso]
    Update for increase of SHMALL and SHMMAX
      The default values of SHMALL and SHMMAX have been increased.

syscalls.2
  Michael Kerrisk
    Add 3 new system calls added in Linux 3.17

vmsplice.2
  Cyril Hrubis
    vmsplice() does not fail when nr_segs==0
      This nr_segs==0 case is no-op; the call succeeds and no
      EINVAL error is returned.

dlopen.3
  Michael Kerrisk
    SEE ALSO: add pldd(1)

fseeko.3
  Michael
 Kerrisk [Thomas Mack]
    _FILE_OFFSET_BITS must be defined before including any header file

getgrent.3
  Carlos O'Donell
    Add ENOENT and EAGAIN to error list

mq_getattr.3
  Michael Kerrisk
    Add an example program
      The example program can be used to discover the default
      'mq_maxmsg' and 'mq_msgsize' values used to create a queue with
      a mq_open(3) call in which 'attr' is NULL.

mq_open.3
  Michael Kerrisk
    Two /proc files control the defaults for the attrp==NULL case
      Refer the reader to the discussion in mq_overview(7) for a
      discussion of these files, which exist since Linux 3.5.

realpath.3
  Michael Kerrisk
    SEE ALSO: add realpath(1)

proc.5
  Elie De Brauwer
    Document /proc/buddyinfo
      This patch adds a short description about the contents of
      /proc/buddyinfo and how this file can be used to assist
      in checking for memory fragmentation issues.
   Michael Kerrisk
    Mention pmap(1) in discussion of /proc/PID/smaps

armscii-8.7
  Marko Myllynen

Charset pages unification, minor cleanups

ascii.7
Marko Myllynen
Charset pages unification, minor cleanups
This and [the related *.7] patches will provide unification of charset pages, minor cleanups, and some unifying cosmetic changes. References are adjusted so that all pages include a reference to charsets(7), which contains a description of these sets, stray comments are removed, some obsolete statements (like ISO 8859-1 being the de-facto ASCII replacement) are removed, and some minor reformatting to minimize diff's between the pages are done.

The actual substance, the character tables, remain unchanged.

This series changes the following pages (under man7): ascii, armscii, cp1251, koi8-r, koi8-u, and all of iso_8859-*.

cp1251.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-10.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-11.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-13.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-14.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-15.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-16.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-1.7

Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-2.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-3.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-4.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-5.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-6.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-7.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-8.7
Marko Myllynen
Charset pages unification, minor cleanups

iso_8859-9.7
Marko Myllynen
Charset pages unification, minor cleanups

koi8-r.7
Marko Myllynen
Charset pages unification, minor cleanups
- remove stray comments, streamline description
(charsets(7) and Wikipedia provide more detailed
and up-to-date description)
- list differences between koi8-r.7 vs koi8-u.7

koi8-u.7
Marko Myllynen
Charset pages unification, minor cleanups
- remove stray comments, streamline description
(charsets(7) and Wikipedia provide more detailed

and up-to-date description)
- list differences between koi8-r.7 vs koi8-u.7

mq_overview.7
Michael Kerrisk
Update queues_max
details for Linux 3.14
And in general rework the text a little.
Michael Kerrisk
Update discussion of HARD_MSGMAX
The limit has changed in 2.6.33 and then again in 3.5.
Michael Kerrisk [Arto Bendiken]
Update details for 'queues_max' limit
Things changed in Linux 3.5.
See https://bugs.launchpad.net/bugs/1155695
Michael Kerrisk
Update details on defaults and ceiling for 'msgsize_max' limit
Michael Kerrisk
Rework discussion of HARD_MSGMAX
Michael Kerrisk [Davidlohr Bueso]
Various fixes after review from Davidlohr Bueso

sched.7
Michael Kerrisk
SEE ALSO: add taskset(1)

ld.so.8
Michael Kerrisk
SEE ALSO: add pldd(1)
Michael Kerrisk
SEE ALSO: add dlopen(3)
Michael Kerrisk
SEE ALSO: add ld(1)

========== Changes in man-pages-3.75 ==========

Released: 2014-10-15, Düsseldorf

Contributors

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Apologies if I missed anyone!

New and rewritten pages
---

pthread_rwlockattr_setkind_np.3
  Robert Schweikert [Michael Kerrisk]
    New page documenting pthread_rwlockattr_[sg]etkind_np(3)
      Documents pthread_rwlockattr_setkind_np(3) and
      pthread_rwlockattr_getkind_np(3).

New and changed links
---

pthread_rwlockattr_getkind_np.3
  Robert Schweikert
    New link to pthread_rwlockattr_setkind_np(3)

Changes to individual pages
---

readlink.2
  Michael Kerrisk [Jonny Grant]
    Add free() call to example program

readv.2
  Michael Kerrisk
     The raw preadv() and pwritev() syscalls split 'offset' into 2 arguments

signal.7
  Michael Kerrisk
    pthread_mutex_lock() and pthread_cond_wait() are restartable
      pthread_mutex_lock(, pthread_cond_wait(), and related APIs are
      automatically restarted if interrupted by a signal handler.

unix.7
  Michael Kerrisk [Carlos O'Donell, David Miller, Tetsuo Handa]
    Various additions and rewordings

Notable changes:
* Clarify some details for pathname sockets.
* Add some advice on portably coding with pathname sockets.
* Note the "buggy" behavior for pathname sockets when
  the supplied pathname is 108 bytes (after a report by
  Tetsuo Handa).

========== Changes in man-pages-3.76 ==========

Released: 2014-12-31, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

adjtimex.2
  Laurent Georget
    Add fields in struct timex description
      This patch updates the man page with the new fields added in
      struct timex since last edition of the man page.
  Laurent Georget [Michael Kerrisk]
    Document ADJ_TAI
  Michael Kerrisk
    Improve description of ADJ_OFFSET_SINGLESHOT
  Michael Kerrisk
    Add brief documentation of ADJ_MICRO and ADJ_NANO
  Michael Kerrisk
    Reformat return value list
      And remove
numeric values, since they're not needed
  Michael Kerrisk
    Other 'modes' bits are ignored on ADJ_OFFSET_*
      Other bits in 'modes' are ignored if modes contains
      ADJ_OFFSET_SINGLESHOT or ADJ_OFFSET_SS_READ.
  Michael Kerrisk
    Add nanosecond details
      Fixes https://bugzilla.kernel.org/show_bug.cgi?id=61171.
  Michael Kerrisk
    Document ADJ_OFFSET_SS_READ
  Michael Kerrisk
    Reformat 'times' flags as list
      And remove numeric values, since they're not needed.
  Michael Kerrisk
    Note effect of ADJ_NANO for ADJ_SETOFFSET

  Michael Kerrisk
    Add comment noting that timex structure contains padding bytes
  Michael Kerrisk
    Add more details to description of 'tai' field
  Michael Kerrisk
    Note meaning of "PLL" abbreviation
  Michael Kerrisk
    Clarify which 'timex' field is used by each 'modes' bit
  Michael Kerrisk
    Document timex 'status' bits
  Michael Kerrisk
     Clarify treatment of other 'modes' bits for ADJ_OFFSET_*
  Michael Kerrisk
    Update RFC number: RFC 5905 obsoletes RFC 1305
  Michael Kerrisk
    Briefly document ADJ_SETOFFSET
  Michael Kerrisk
    Note PPS (pulse per second) fields in timex structure

sigreturn.2
  Michael Kerrisk
    Add (a lot) more detail on the signal trampoline
      And rewrite much of the page.

Newly documented interfaces in existing pages
---

proc.5
  Bernhard Walle
    Document /proc/thread-self
      /proc/thread-self has been introduced in Linux 3.17 with
      commit 0097875bd41528922fb3bb5f348c53f17e00e2fd.
  Sven Hoexter [Michael Kerrisk, Kamezawa Hiroyuki]
    Document "VmSwap" field of /proc/[pid]/status
  Florian Westphal
    Document /proc/net/netfilter/nfnetlink_queue

Changes to individual pages
---

localedef.1
  Marko Myllynen
    Mention default path
 for compiled files

clock_nanosleep.2

Michael Kerrisk
Note that 'clock_id' can also be a CPU clock ID

epoll_ctl.2
Michael Kerrisk
Regular files and directories can't be monitored with epoll_ctl()

ioctl.2
Heinrich Schuchardt
Rename 'd' argument to 'fd' in text
In most other manpages file descriptors are called 'fd'.
This patches renames attribute 'd' to 'fd'.

madvise.2
Michael Kerrisk
VERSIONS: Support for madvise() is now configurable
Support for this system call now depends on the
CONFIG_ADVISE_SYSCALLS configuration option.

open.2
Michael Kerrisk
Enhance rationale discussion for openat() and friends

posix_fadvise.2
Mel Gorman
Document the behavior of partial page discard requests
It is not obvious from the interface that "partial page discard"
requests are ignored. It should be spelled out.
Michael Kerrisk [Weijie Yang]
ERRORS:
Since 2.6.16, the kernel correctly deals with the ESPIPE case
Michael Kerrisk
Support for fadvise64() is now configurable
Support for this system call now depends on the
CONFIG_ADVISE_SYSCALLS configuration option.

prctl.2
Andreas Schwab
Correct description of null-termination in PR_GET_NAME and PR_SET_NAME
The size of the process name has always been at most 16 byte
including the null terminator. This also means that the
name returned by PR_GET_NAME is always null-terminated.
Michael Kerrisk
PR_SET_NAME silently truncates strings that exceed 16 bytes

restart_syscall.2
Michael Kerrisk
Add some text explaining why restart_syscall() exists

sched_setaffinity.2
  Michael Kerrisk
    NOTES: Add paragraph on how to discover set of CPUs available on system
  Michael Kerrisk
    SEE ALSO: add nproc(1) and lscpu(1)

select.2
  Michael Kerrisk
    SEE ALSO: add
restart_syscall(2)

semop.2
  Michael Kerrisk
    Add note that interrupted semtimedop() returns 'timeout' unchanged
  Michael Kerrisk
    Remove information about semtimedop() EAGAIN that is repeated elsewhere
  Michael Kerrisk
    Add subsection head for semtimedop()

setsid.2
  Michael Kerrisk
    Rewrite some pieces and add some details
      Among other changes, add an explanation of why setsid() can't
      be called from a process group leader

sgetmask.2
  Michael Kerrisk
    Since 3.16, support for these system calls is configurable
      Support for these calls is now dependent on the setting of the
      CONFIG_SGETMASK_SYSCALL option.

sigaction.2
  Michael Kerrisk
    Document SA_RESTORER
  Michael Kerrisk
    Add some detail on the sa_restorer field
  Michael Kerrisk
    SEE ALSO: add sigreturn(2)

splice.2
  Michael Kerrisk
    Reformat description of 'fd_in' and 'off_in' to improve readability

syscall.2
   Michael Kerrisk
    SEE ALSO: add errno(3)

syscalls.2
  Michael Kerrisk
    SEE ALSO: add errno(3)
  Michael Kerrisk
    3.19 adds execveat()
  Michael Kerrisk
    Add bpf(2) to list

tee.2
  Michael Kerrisk
    Add shell session demonstrating use of the example program

tkill.2
  Michael Kerrisk [Rich Felker]
    Remove bogus text saying tgid==-1 makes tgkill() equivalent to tkill()

abort.3
  Michael Kerrisk
    Note that SIGABRT is raised as though raise(3) is called
      Also note that abort() is POSIX.1-2008 compliant.

cmsg.3
  David Wragg
    Ensure buf is suitably aligned in sending example
      Inspection of the definition of CMSG_FIRSTHDR (both in glibc and
      the suggested definition in RFC3542) shows that it yields the
      msg_control field. So when sending, the pointer placed in
      msg_control should be suitably aligned as a struct cmsghdr.
      In the sending example,
 buf was declared as a bare char array,
      and so is not necessarily suitably aligned.

      The solution here involves placing buf inside a union, and is
      based on the sockets/scm_rights_send.c sample from The Linux
      Programming Interface "dist" source code collection.

exp10.3
  Michael Kerrisk
    Before glibc 2.19, exp() did not give ERANGE error on underflow
      http://sources.redhat.com/bugzilla/show_bug.cgi?id=6787

ftw.3
  Michael Kerrisk
    FTW_CHDIR has no effect on the 'fpath' argument passed to fn()

getopt.3
  Michael Kerrisk [Jonny Grant]
    Ensure that 'nsecs' is used

ilogb.3
  Michael Kerrisk [Will Newton]
    Since glibc 2.16, ilogb() does correctly diagnose domain errors

memcmp.3
  Michael Haardt
    Document return value for n==0 case
  Michael Haardt
    Warn against use of memcmp() for comparing security-critical data

mq_open.3
  Michael Kerrisk
    Document the O_CLOEXEC
 flag
  Michael Kerrisk
    Place 'flags' constants in alphabetical order

pow.3
  Manuel López-Ibáñez
    Add note on performance characteristics of pow()

pthread_setschedparam.3
  Simon Newton
    Fix logic error in example program
      The example program will crash if -A is used, since 'attr'
      is uninitialized.

        $ ./a.out -A
        *** Error in `./a.out': free(): invalid pointer: 0xb779c3c4 ***
        Aborted (core dumped)

    Small fixes to example program

sigvec.3
  Michael Kerrisk
    Starting with version 2.21, glibc no longer exports sigvec()

sysconf.3
  Josh Triplett
    Document _SC_NGROUPS_MAX
      Already documented in getgroups(2), but not in sysconf(3).

termios.3
  Michael Kerrisk
    SEE ALSO: add tset(1)

tgamma.3

Michael Kerrisk
Since glibc 2.18, errno is correctly set to EDOM when (x == -infinity))

wordexp.3
Carlos O'Donell
Make
it clear that WRDE_NOCMD prevents command substitution
The use of WRDE_NOCMD prevents command substitution. If the flag
WRDE_NOCMD is set then no command substitution shall occur and
the error WRDE_CMDSUB will be returned if such substitution is
requested when processing the words.

The manual page as-is makes it seem like the command substitution
occurs, and an error is returned *after* the substitution.
This patch clarifies that.

locale.5
Marko Myllynen
Describe the formats of values
locale(5) describes what a locale should define but doesn't
spell out how (in what format). The patch attempts to address
this, it also has few trivial additional enhancements.

* Reference to locale(7) for category descriptions.
* Clarify first_workday in NOTES a bit.
* Add upstream BZ reference for two missing LC_ADDRESS fields.
Marko
Myllynen
Fix miscoded character

resolv.conf.5
Jan Chaloupka
Add missing no-tld-query option
Based on commit [1], the no-tld-query option exists for
resolv.conf configuration file. Description of this option
is provided in [2]. This patch just copies this option
into resolv.conf.5 man page. Plus changes 'a' member
into 'an' before 'unqualified name as if it ...'
on the third line of [2]. Based on [3], this option
was added in glibc 2.14 as solving [4] bug.

[1] https://sourceware.org/git/?p=glibc.git;a=commitdiff;h=f87dfb1f11c01f2ccdc40d81e134cd06b32e28e8
[2] http://www.daemon-systems.org/man/resolv.conf.5.html man page.
[3]
https://sourceware.org/git/?p=glibc.git;a=blob;f=NEWS;h=952f32af17e7fb49c4c1a305de673a13075bfaf5;hb=f87df
b1f11c01f2ccdc40d81e134cd06b32e28e8
[4] https://sourceware.org/bugzilla/show_bug.cgi?id=12734

credentials.7
  Josh Triplett
    Cross-reference getgroups(2)
      Since credentials.7 discusses supplementary GIDs, it should
      reference getgroups(2).

fanotify.7
  Heinrich Schuchardt
    Allow relative paths in example
      The current example code requires passing an absolute
      path to the mount to be watched.

      By passing AT_FDCWD to fanotify_mark it can use both
      absolute and relative paths.
  Heinrich Schuchardt
    fallocate(2) creates no events
      fallocate(2) should create FAN_MODIFY events but does not.
  Heinrich Schuchardt [Michael Kerrisk]
    fanotify notifies only events generated on the same mount
      Unfortunately, fanotify does not inform listeners for all paths
      under which a touched filesystem object is visible, but only the
      listener using the same path as the process touching the
      filesystem object.
  Heinrich Schuchardt
    Update BUGS
 to note bugs still not fixed in 3.17
      I bumped the Linux version number in the BUGS section to 3.17.

inotify.7
  Heinrich Schuchardt
    fallocate(2) does not trigger inotify events
      Calling fallocate(2) does not result in inotify events.

locale.7
  Marko Myllynen
    Improve LOCPATH description
      LOCPATH is ignored by privileged programs.

      Add locale archive references.

      Add FILES section.

man-pages.7
  Michael Kerrisk [Laurent Georget]
    Clarify that SEE ALSO entries may refer to pages from other projects

signal.7
  Michael Kerrisk

Mention other "slow devices"
Reads from eventfd(2), signalfd(2), timerfd(2), inotify(7),
and fanotify(7) file descriptors are also slow operations
that are restartable.
Michael Kerrisk
Fix SO_RECVTIMEO/ SO_SENDTIMEO confusion in text
Michael Kerrisk
Since Linux 3.8, reads on inotify(7) file descriptors are
restartable
Michael Kerrisk
inotify(7) reads no longer show the odd EINTR error after SIGCONT
Since kernel 3.7, reads from inotify(7) file descriptors no longer
show the (Linux oddity) behavior of failing with EINTR when the
process resumes after a stop signal + SIGCONT.
Michael Kerrisk
SEE ALSO: add sigreturn(2)

unix.7
Michael Kerrisk [Scott Harvey]
Fix buglet in code snippet in BUGS section

ld.so.8
Carlos O'Donell
Add --inhibit-cache option
The dynamic loader has 6 options, only 5 are documented.
This patch documents the sixth option i.e. `--inhibit-cache`.
Jonathan Wakely [Siddhesh Poyarekar]
Correct documentation of $ORIGIN
As noted by Siddhesh:

The ld.so man page says:

$ORIGIN (or equivalently ${ORIGIN})
This expands to the directory containing the
application executable.
Thus, an application located
in somedir/app could be compiled with

This is incorrect since it expands to the directory containing
the DSO and not the application executable. This seems like
deliberate behaviour in dl-object.c, so it needs to be fixed in
the man page.

See http://stackoverflow.com/questions/26280738/what-is-the-equivalent-of-loader-path-for-rpath-specification-on-linux/26281226#26281226

========== Changes in man-pages-3.77 ==========

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Apologies if I missed anyone!

New and rewritten pages
---

seccomp.2
  Kees Cook, Michael Kerrisk, Will Drewry [Andy Lutomirski]
    New page documenting seccomp(2)
      Combines documentation from prctl, in-kernel seccomp_filter.txt
      and dropper.c, along with details specific to the new system

call.

Newly documented interfaces in existing pages
---

netlink.7
  Stephan Mueller [Michael Kerrisk]
    Add NETLINK_CRYPTO

Changes to individual pages
---

adjtimex.2
  Laurent Georget [Richard Cochran, Jeff Epler]
    Clarify the 'ppm scaling' used in struct timex
      This patch makes explicit and clarifies the unit used for
      the fields "freq", "ppsfreq" and "stabil" in struct timex.
  Michael Kerrisk [Masanari Iida]
    Note that TIME_ERROR is the modern synonym for TIME_BAD

perf_event_open.2
  Vince Weaver
    Clarify the PERF_FLAG_FD_* flags
      This change clarifies the behavior of the PERF_FLAG_FD_OUTPUT and
      PERF_FLAG_FD_NO_GROUP flags to perf_event_open(), and removes
      the related FIXME comments.

      While writing tests to validate the behavior of these flags I
      discovered that PERF_FLAG_FD_OUTPUT has been broken
since the
      2.6.35 kernel release.

prctl.2
  Dave Hansen [Michael Kerrisk]
    Add description of Intel MPX calls
      The 3.19 kernel will have support for Intel MPX, including
      a pair of new prctl() calls (PR_MPX_ENABLE_MANAGEMENT and
      PR_MPX_DISABLE_MANAGEMENT) for enabling and disabling the
      kernel's management of the "bounds tables". Add a
      descriptions of the interface.
  Michael Kerrisk
    Add mention of seccomp(2) under PR_SET_SECCOMP
  Michael Kerrisk
    Suggest /proc/PID/status "Seccomp" as alternative to PR_GET_SECCOMP
  Michael Kerrisk
    SIGKILL can also occur PR_GET_SECCOMP in SECCOMP_MODE_FILTER mode

Kees Cook [Andy Lutomirski]
Document SECCOMP_MODE_FILTER vs EFAULT
This notes the distinction made between EINVAL and EFAULT when
attempting to use SECCOMP_MODE_FILTER with PR_SET_SECCOMP.

setns.2
pid_namespaces.7
Mike Frysinger
Elaborate
discussion of the PID namespace descendant limitation
The setns(2) man page already mentions that CLONE_NEWPID may only
be used with descendant namespaces, but this nuance could be
listed in a few more places so it is not missed.

shmget.2
Michael Kerrisk [Akihiro Motoki]
Make wording of SHMALL description a little clearer

sigaction.2
Michael Kerrisk
Add siginfo_t fields for SECCOMP_RET_TRAP

memchr.3
strstr.3
Alexandre Bique
Reference memmem(3) in SEE ALSO section

memcmp.3
Michael Kerrisk [Michael Haardt]
NOTES: add some detail on avoiding memcmp() of cryptographic data
Wording largely based on comments from Michael Haardt.

pthread_tryjoin_np.3
Jérôme Pouiller [Michael Kerrisk]
Document EINVAL error for pthread_timedjoin_np()

mem.4
Elie De Brauwer
/dev/kmem depends on CONFIG_DEVKMEM
Elie De Brauwer
Correct /dev/port group in example

mem.4 mentions that group for /dev/port should be set to 'mem'
However, all other files (/dev/mem and /dev/kmem) use the kmem
group in their examples and on my system /dev/port belongs to
kmem. Hence the 'mem' group was probably a typo:
Elie De Brauwer
Add CONFIG_STRICT_DEVMEM

Since 2.6.26 the CONFIG_NONPROMISC_DEVMEM options limits the
physical addresses which can be accessed through /dev/mem.

random.4
  Heinrich Schuchardt
    Describe handling of O_NONBLOCK
      /dev/random and /dev/urandom treat O_NONBLOCK differently.
      This should be described in the manpage.
  Heinrich Schuchardt
    Mention PRNG used by urandom
      /dev/urandom uses a pseudo-random number generator to replace
      missing entropy.

proc.5
  Michael Kerrisk
    Document "Seccomp" field of /proc/PID/status

epoll.7
  Michael Kerrisk [Ignat Loskutov]
    Use epoll_create1() rather than
 epoll_create() in the code example
      epoll_create1() is more or less the preferred API for new
      applications, since it allows for some flags and avoids the
      misdesigned epoll_create() argument, and so it seems sensible
      to use that in the example, rather than epoll_create().

tcp.7
  Troy Davis
    Clarify tcp_tw_recycle on Internet-facing hosts
      Clarify that tcp_tw_recycle will break communication with many
      general-purpose remote Internet hosts (namely, remote NAT devices)
      even when the Linux device itself is not behind NAT.

========== Changes in man-pages-3.78 ==========

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Apologies if I missed anyone!

New and rewritten pages
---

execveat.2
  David Drysdale, Michael Kerrisk [Rich Felker]
    New page for execveat(2)

memfd_create.2
  Michael Kerrisk, David Herrmann
    New page for memfd_create() system call
      Including notes about file sealing

s390_pci_mmio_write.2
  Alexey Ishchuk
    New page for s390 s390_pci_mmio_write() and s390_pci_mmio_read()
      New manual page for the new PCI MMIO memory access system

      calls, s390_pci_mmio_write() and s390_pci_mmio_read(),
      added for the s390 platform.

Newly documented interfaces in existing pages
---

fcntl.2
  David Herrmann [Michael Kerrisk]
    Document F_ADD_SEALS and F_GET_SEALS commands

proc.5
  Elie De Brauwer

Document /proc/sys/vm/compact_memory
Michael Kerrisk
Document /proc/sys/fs/nr_open

New and changed links
---

s390_pci_mmio_read.2
Michael Kerrisk
New link to new s390_pci_mmio_write(2) page

Changes to individual pages
---

dup.2
Michael Kerrisk
Add reference to RLIMIT_NOFILE for EMFILE error
Michael Kerrisk
Add reference to RLIMIT_NOFILE for EBADF error on 'newfd'.

execve.2
fexecve.3
Michael Kerrisk
SEE ALSO: add execveat(2)

fallocate.2
mmap.2
open.2
truncate.2
write.2
Michael Kerrisk
ERRORS: add EPERM for operation denied by file seal

fcntl.2
Michael Kerrisk
ERRORS: add EBUSY case for F_SETPIPE_SZ
Michael Kerrisk
Add reference to RLIMIT_NOFILE for F_DUPFD EINVAL error on 'arg'.
Michael Kerrisk
ERRORS: add open file description lock error cases

getrlimit.2
Michael Kerrisk
Update text on RLIMIT_NOFILE ceiling to refer to /proc/sys/fs/file-max

mbind.2

Michael Kerrisk [Daniel J Blueman]
Clarify EFAULT text

mmap.2
shmget.2
shm_open.3
Michael Kerrisk
SEE ALSO: add memfd_create(2)

open.2
Michael Kerrisk
Refer to RLIMIT_NOFILE for explanation of EMFILE error
Michael Kerrisk
Add execveat(2) in system call list under "Rationale for openat()"

perf_event_open.2
Vince Weaver
Clarify description of overflow events
Update the perf_event_open manpage to be more consistent when
discussing overflow events. It merges the discussion of
poll-type notifications with those generated by SIGIO
signal handlers.
This addresses the remaining FIXMEs is the document.
Vince Weaver
Remove inaccurate paragraph describing attr.config
Remove an inaccurate paragraph about values in the attr.config
field. This information was never true in any released kernel;
it somehow snuck into the manpage because it is still described
this way in tools/perf/design.txt in the kernel source tree.
Michael Kerrisk
Correct the kernel version number for PERF_COUNT_HW_CACHE_NODE
Michael Kerrisk
Add some kernel version numbers to various fields and constants

ptrace.2
sigaction.2
seccomp.2
Kees Cook
Ptrace and siginfo details
While writing some additional seccomp tests, I realized
PTRACE_EVENT_SECCOMP wasn't documented yet. Fixed this, and added
additional notes related to ptrace events SIGTRAP details.

readv.2
Michael Kerrisk
Update details
on glibc readv()/writev() wrapper behavior
And add a historical detail about Linux 2.0.

select.2
  Michael Kerrisk
    Mention RLIMIT_NOFILE as a possible cause of EINVAL error

syscall.2
  Kees Cook
    Add arm64 and mips
      Add mips and arm64 to tables, along with some further
      details on these architectures,

syscalls.2
  Michael Kerrisk
    Add s390_pci_mmio_read(2) and s390_pci_mmio_write(2)
  Michael Kerrisk
    Note kernel() version that introduced get_kernel_syms()
    Note kernel version that introduced ppc_rtas()
    Note kernel version that introduced create_module()
    Note kernel version that added setup()
  Michael Kerrisk
    Remove some details for sync_file_range2()
      Make the table a bit simpler. The details can anyway be
      found in the system call man page.

utimensat.2
  Michael Kerrisk [Elliot Hughes]
    If both tv_sec fields are UTIME_OMIT, the file need not
 exist
      As noted by Elliot, if both tv_sec fields are UTIME_OMIT,
      utimensat() will return success even if the file does not exist.

errno.3
  Michael Kerrisk
    The RLIMIT_NOFILE resource limit is a common cause of EMFILE

exec.3
  Michael Kerrisk
    SEE ALSO: add execveat(2)

fclose.3
  Carlos O'Donell
    Consistency fix: use "stream" as name for "FILE *" argument
      Harmonize all the manual pages to use "stream" for FILE*
      instead of randomly using "fp" or "stream." Choosing something
      and being consistent helps users scan the man pages quickly
      and understand what they are looking at.

fexecve.3

Michael Kerrisk
Rewrite the script+close-on-exec problem as a BUG
Also, add one or two details about this scenario.
Michael Kerrisk
The natural idiom when using fexecve() is to use the close-on-exec flag

fmemopen.3
Michael Kerrisk
Consistency fix: use "stream"
as name for "FILE *" argument

fopencookie.3
Michael Kerrisk
Consistency fix: use "stream" as name for "FILE *" argument

getgrent_r.3
Carlos O'Donell
Consistency fix: use "stream" as name for "FILE *" argument

getline.3
Michael Kerrisk
Consistency fix: use "stream" as name for "FILE *" argument

getmntent.3
Carlos O'Donell
Consistency fix: use "stream" as name for "FILE *" argument

getpw.3
Michael Kerrisk [Carlos O'Donell]
Describe return value when 'uid' is not found

getpwent_r.3
Carlos O'Donell
Consistency fix: use "stream" as name for "FILE *" argument

getspnam.3
Carlos O'Donell
Consistency fix: use "stream" as name for "FILE *" argument

malloc_info.3
Carlos O'Donell
Consistency fix: use "stream" as name for "FILE *" argument

posix_fallocate.3
Michael Kerrisk
Note that posix_fallocate() is implemented using fallocate(2)

putgrent.3

Carlos O'Donell
Consistency
fix: use "stream" as name for "FILE *" argument
Harmonize all the manual pages to use "stream" for FILE*
instead of randomly using "fp" or "stream." Choosing something
and being consistent helps users scan the man pages quickly
and understand what they are looking at.

locale.5
Akihiro Motoki
Correct variable name

proc.5
Michael Kerrisk
Remove bogus statement about NR_OPEN being a ceiling for file-max

========== Changes in man-pages-3.79 ==========

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Apologies if I missed anyone!

New and rewritten pages
---

getrandom.2

Heinrich Schuchardt, Theodore T'so, Michael Kerrisk
New page documenting getrandom(2)
Kernel 3.17 introduces a new system call getrandom(2).

kexec_load.2
Vivek Goyal, Michael Kerrisk
Add documentation of kexec_file_load(2)
Michael Kerrisk, Vivek Goyal
Rewrite and extend documentation of kexec_load().

New and changed links
---

kexec_file_load.2
Michael Kerrisk
New link to kexec_load.2

Changes to individual pages
---

personality.2
Michael Kerrisk
SEE ALSO: add setarch(8)

prctl.2
Michael Kerrisk
Unused arguments of PR_MPX_(EN,DIS}ABLE_MANAGEMENT must be zero

reboot.2
Michael Kerrisk
SEE ALSO:
add kexec_load(2)

socket.2
Stephan Mueller
document AF_ALG
Add a reference to the AF_ALG protocol accessible via socket(2).

fflush.3
Michael Kerrisk [Sergey V. Zubkov]
Clarify that flushing of input streams occurs only for seekable files
See https://bugzilla.kernel.org/show_bug.cgi?id=91931
Michael Kerrisk [Sergey V. Zubkov]
POSIX.1-2008 specifies the behavior when flushing input streams
POSIX.1-2001 did not have a specification for input streams,
but POSIX.1-2008 added one.

getopt.3
  Michael Kerrisk
    SEE ALSO: add getopt(1)

random.3
  Heinrich Schuchardt
    SEE ALSO: add getrandom(2)

termios.3
  Michael Kerrisk
    SEE ALSO: add reset(1), setterm(1), tput(1)

tzset.3
  J William Piggott
    Document behavior when TZ filespec omits the colon
      If the TZ filespec omits the leading colon, glibc will parse
      it for any valid format, i.e., it will
 still work.
  J William Piggott
    Add description for posixrules file
  J William Piggott
    Correct system timezone file path
  J William Piggott
    There are only two TZ formats
      tzset(3) currently states that there are three TZ formats. The
      first two it lists are actually variations of the POSIX-style
      TZ format, of which there are at least five variations.

      This patch corrects this to match the POSIX specification of
      TZ having only two formats.
  J William Piggott
    Filespec omitted incorrect
      Paragraph three of the DESCRIPTION section says
      that when TZ is set, but empty, then UTC is used.

      Later it says if the TZ filespec is omitted then the file
      /usr/share/zoneinfo/localtime is used. This is incorrect,
      it will use UTC in that case as well.
  J William Piggott
    Fix incorrect TZ string representation
      The TZ string
 representation indicates that the start/end
      rules are required; this is incorrect.
  J William Piggott
    Add ENVIRONMENT section + other rearrangements
      FILES section was overly verbose and included
      environment variables. Added ENVIRONMENT section,
      removing ENV VARS from the FILES section.

random.4
  Heinrich Schuchardt
    SEE ALSO: add getrandom(2)

passwd.5
  Michael Kerrisk
    SEE ALSO: add chfn(1), chsh(1)

capabilities.7
  Michael Kerrisk
    SEE ALSO: add setpriv(1)

signal.7
  Michael Kerrisk
    Add getrandom(2) to list of restartable system calls
  Michael Kerrisk
    Add F_OFD_SETLKW to list of restartable operations

========== Changes in man-pages-3.80 ==========

Released: 2015-02-21, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated
 in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

ioctl_fat.2
  Heinrich Schuchardt [Michael Kerrisk]
    New man page for the ioctl(2) FAT API
      The ioctl(2) system call may be used to retrieve information about
      the FAT file system and to set file attributes.

madvise.2
  Michael Kerrisk
    Summary: this page has been significantly reorganised and rewritten
  Michael Kerrisk
    Recast discussion of 'advice' into two groups of values
      madvise() is one of those system calls that has congealed over
      time, as has the man page. It's helpful to split the discussion
      of 'advice' into those
flags into two groups:

      * Those flags that are (1) widespread across implementations;
        (2) have counterparts in posix_madvise(3); and (3) were present
        in the initial Linux madvise implementation.
      * The rest, which are values that (1) may not have counterparts

in other implementations; (2) have no counterparts in
posix_madvise(3); and (3) were added to Linux in more recent
times.
Michael Kerrisk
Explicitly list the five flags provided by posix_fadvise()
Over time, bit rot has afflicted this page. Since the original
text was written many new Linux-specific flags have been added.
So, now it's better to explicitly list the flags that
correspond to the POSIX analog of madvise().
Jan Chaloupka [Hugh Dickins, Michael Kerrisk]
Starting with Linux 3.5, more file systems support MADV_REMOVE
Michael Kerrisk
Split EINVAL
error into separate cases
Michael Kerrisk
Explain MADV_REMOVE in terms of file hole punching
Michael Kerrisk
MADV_REMOVE can be applied only to shared writable mappings
Michael Kerrisk
MADV_REMOVE cannot be applied to locked or Huge TLB pages
Michael Kerrisk [Vlastimil Babka]
Clarify that MADV_DONTNEED has effect on pages only if it succeeds
Michael Kerrisk [Vlastimil Babka]
Clarifications for MADV_DONTNEED
Michael Kerrisk [Michal Hocko]
Improve MADV_DONTNEED description
Michael Kerrisk
MADV_DONTNEED cannot be applied to Huge TLB or locked pages
Michael Kerrisk [Vlastimil Babka]
Remove mention of "shared pages" as a cause of EINVAL for MADV_DONTNEED
Michael Kerrisk [Vlastimil Babka]
Note Huge TLB as a cause of EINVAL for MADV_DONTNEED
Michael Kerrisk [Minchan Kim]
Add mention of VM_PFNMAP in discussion of MADV_DONTNEED and MADV_REMOVE
Michael Kerrisk

Drop sentence saying that kernel may ignore 'advice'
The sentence creates misunderstandings, and does not really
add information.
Michael Kerrisk
Note that some Linux-specific 'advice' change memory-access semantics
Michael Kerrisk
NOTES: Remove crufty text about "command" versus "advice"
The point made in this fairly ancient text is more or less evident
from the DESCRIPTION, and it's not clear what "standard" is being
referred to.
Michael Kerrisk
Mention POSIX.1-2008 addition of POSIX_MADV_NOREUSE

Michael Kerrisk
Remove "POSIX.1b" from CONFORMING TO
Michael Kerrisk
Move mention of posix_fadvise() from CONFORMING TO to SEE ALSO
Michael Kerrisk
ERRORS: add EPERM error case for MADV_HWPOISON
Michael Kerrisk
Note that madvise() is nonstandard, but widespread

Newly documented interfaces in existing pages
---

proc.5
Michael Kerrisk
(Briefly) document /proc/PID/attr/socketcreate
Michael Kerrisk
(Briefly) document /proc/PID/attr/keycreate
Michael Kerrisk [Stephen Smalley]
Document /proc/PID/attr/{current,exec,fscreate,prev}
Heavily based on Stephen Smalley's text in
https://lwn.net/Articles/28222/
From: Stephen Smalley <sds@epoch.ncsc.mil>
To: LKML and others
Subject: [RFC][PATCH] Process Attribute API for Security Modules
Date: 08 Apr 2003 16:17:52 -0400
Michael Kerrisk
Document /proc/sys/kernel/auto_msgmni

socket.7
David Wilson [Michael Kerrisk]
Document SO_REUSEPORT socket option

New and changed links
---

get_thread_area.2
Andy Lutomirski
Make get_thread_area.2 a link to rewritten set_thread_area.2 page

Changes to individual pages
---

time.1
Michael Kerrisk

Make option argument formatting consistent with other pages

access.2
  Denys Vlasenko
    Explain how access() check treats capabilities
      We have users who are terribly confused why their binaries
      with CAP_DAC_OVERRIDE capability see EACCESS from access() calls,
      but are able to read the file.

      The reason is access() isn't the "can I read/write/execute this
      file?" question, it is the "(assuming that I'm a setuid binary,)
      can *the user who invoked me* read/write/execute this file?"
      question.

      That's why it uses real UIDs as documented, and why it ignores
      capabilities when capability-endorsed binaries are run by non-root
      (this patch adds this information).

      To make users more likely to notice this less-known detail,
      the patch expands the explanation with rationale for this logic
      into a separate paragraph.

arch_prctl.2
set_thread_area.2
get_thread_area.2
   Andy Lutomirski
    Improve TLS documentation
      The documentation for set_thread_area was very vague. This
      improves it, accounts for recent kernel changes, and merges
      it with get_thread_area.2.

      get_thread_area.2 now becomes a link.

      While I'm at it, clarify the related arch_prctl.2 man page.

cacheflush.2
  Ralf Baechle
    Update some portability details and bugs
  Michael Kerrisk
    Refer reader to BUGS in discussion of EINVAL error

capget.2
  Michael Kerrisk
    Document V3 capabilities constants
  Michael Kerrisk
    Rewrite discussion of kernel versions that support file capabilities
      File capabilities ceased to be optional in Linux 2.6.33.

clone.2
  Peng Haitao
    Fix description of CLONE_PARENT_SETTID
      CLONE_PARENT_SETTID only stores child thread ID in parent memory.

clone.2
execve.2
  Kevin Easton
    Document interaction
 of execve(2) with CLONE_FILES
      This patch the fact that a successful execve(2) in a process that
      is sharing a file descriptor table results in unsharing the table.

      I discovered this through testing and verified it by source
      inspection - there is a call to unshare_files() early in
      do_execve_common().

fcntl.2
  Michael Kerrisk [Jeff Layton]
    Clarify cases of conflict between traditional record and OFD locks
      Verified by experiment on Linux 3.15 and 3.19rc4.

fork.2
  Michal Hocko
    EAGAIN is not reported when task allocation fails
      I am not sure why we have:

        "EAGAIN fork() cannot allocate sufficient memory to copy
         the parent's page tables and allocate a task structure
         or the child."

      The text seems to be there from the time when man-pages
      were moved to git so there is no history for it.

      And it doesn't
 reflect reality: the kernel reports both
      dup_task_struct and dup_mm failures as ENOMEM to the
      userspace. This seems to be the case from early 2.x times
      so let's simply remove this part.
  Heinrich Schuchardt
    Child and parent run in separate memory spaces
      fork.2 should clearly point out that child and parent
      process run in separate memory spaces.
  Michael Kerrisk
    NOTES: add "C library/kernel ABI differences" subheading

getpid.2
  Michael Kerrisk

NOTES: add "C library/kernel ABI differences" subheading

getxattr.2
Michael Kerrisk
Various rewordings plus one or two details clarified
Michael Kerrisk
Add pointer to example in listxattr(2)

killpg.2
Michael Kerrisk
NOTES: add "C library/kernel ABI differences" subheading

listxattr.2
Heinrich Schuchardt
Provide example program
Michael Kerrisk
Reword discussion of size==0 case
Michael
Kerrisk
Add note on handling increases in sizes of keys or values
Michael Kerrisk
Remove mention of which filesystems implement ACLs
Such a list will only become outdated (as it already was).

migrate_pages.2
Jan Stancek
Document EFAULT and EINVAL errors
I encountered these errors while writing testcase for migrate_pages
syscall for LTP (Linux test project).

I checked stable kernel tree 3.5 to see which paths return these.
Both can be returned from get_nodes(), which is called from:
SYSCALL_DEFINE4(migrate_pages, pid_t, pid, unsigned long, maxnode,
const unsigned long __user *, old_nodes,
const unsigned long __user *, new_nodes)

The testcase does following:
EFAULT
a) old_nodes/new_nodes is area mmaped with PROT_NONE
b) old_nodes/new_nodes is area not mmapped in process address

space, -1 or area that has been just munmmaped

EINVAL
a) maxnodes overflows kernel limit
b) new_nodes contain node, which has no memory or does not exist
or is not returned for get_mempolicy(MPOL_F_MEMS_ALLOWED).

modify_ldt.2
  Andy Lutomirski
    Overhaul the documentation
      This clarifies the behavior and documents all four functions.
  Andy Lutomirski
    Clarify the lm bit's behavior
      The lm bit should never have existed in the first place. Sigh.

mprotect.2
  Mark Seaborn
    Mention effect of READ_IMPLIES_EXEC personality flag
      I puzzled over mprotect()'s effect on /proc/*/maps for a while
      yesterday -- it was setting "x" without PROT_EXEC being specified.
      Here is a patch to add some explanation.

msgget.2
  Michael Kerrisk
    Add details of MSGMNI default value

msgop.2
  Michael Kerrisk
    Clarify wording of MSGMAX and MSGMNB
 limits

perf_event_open.2
  Vince Weaver
    Clarify PERF_EVENT_IOC_REFRESH behavior
      Currently the PERF_EVENT_IOC_REFRESH ioctl, when applied to a group
      leader, will refresh all children. Also if a refresh value of 0
      is chosen then the refresh becomes infinite (never runs out).
      Back in 2011 PAPI was relying on these behaviors but I was told
      that both were unsupported and subject to being removed at any time.
      (See https://lkml.org/lkml/2011/5/24/337)
      However the behavior has not been changed.

      This patch updates the manpage to still list the behavior as
      unsupported, but removes the inaccurate description of it
      only being a problem with 2.6 kernels.

prctl.2
  Michael Kerrisk [Bill McConnaughey]
    Mention file capabilities in discussion of PR_SET_DUMPABLE
  Michael Kerrisk
    Greatly expand discussion of "dumpable" flag
      In particular,
 detail the interactions with
      /proc/sys/fs/suid_dumpable.
  Michael Kerrisk

Reorder paragraphs describing PR_SET_DUMPABLE
Michael Kerrisk
Mention SUID_DUMP_DISABLE and SUID_DUMP_USER under PR_SET_DUMPABLE
Michael Kerrisk
Executing a file with capabilities also resets the parent death signal

ptrace.2
James Hunt
Explain behaviour should ptrace tracer call execve(2)
This behaviour was verified by reading the kernel source and
confirming the behaviour using a test program.
Denys Vlasenko
Add information on PTRACE_SEIZE versus PTRACE_ATTACH differences
Extend description of PTRACE_SEIZE with the short summary of its
differences from PTRACE_ATTACH.

The following paragraph:

PTRACE_EVENT_STOP
Stop induced by PTRACE_INTERRUPT command, or group-stop, or ini-
tial ptrace-stop when a new child is attached (only if attached
using PTRACE_SEIZE), or PTRACE_EVENT_STOP if PTRACE_SEIZE was used.

has an editing error (the part after last comma makes no sense).
Removing it.

Mention that legacy post-execve SIGTRAP is disabled by PTRACE_SEIZE.

sched_setattr.2
Michael Kerrisk [Christophe Blaess]
SYNOPSIS: remove 'const' from 'attr' sched_getattr() argument

semget.2
Michael Kerrisk
Note default value for SEMMNI and SEMMSL

semop.2
Michael Kerrisk
Note defaults for SEMOPM and warn against increasing > 1000

sendfile.2
Eric Wong
Caution against modifying sent pages

setxattr.2
Michael Kerrisk
ERRORS: add ENOTSUP for invalid namespace prefix
Michael Kerrisk

Remove redundant text under ENOTSUP error
Michael Kerrisk
Note that zero-length attribute values are permitted
Michael Kerrisk
Rework text describing 'flags' argument

stat.2
Michael Kerrisk
NOTES:
add "C library/kernel ABI differences" subheading

statfs.2
Michael Kerrisk [Jan Chaloupka]
Document the 'f_flags' field added in Linux 2.6.36
Michael Kerrisk
Clarify that 'statfs' structure has some padding bytes
The number of padding bytes has changed over time, as some
bytes are used, so describe this aspect of the structure
less explicitly.
Tao Ma
Add OCFS2_SUPER_MAGIC
Michael Kerrisk
Use __fsword_t in statfs structure definition
This more closely matches modern glibc reality.
Michael Kerrisk
Add a note on the __fsword_t type
Michael Kerrisk
Document 'f_spare' more vaguely

wait.2
Michael Kerrisk
Note that waitpid() is a wrapper for wait4()
Michael Kerrisk
Note that wait() is a library function implemented via wait4()

wait4.2
Michael Kerrisk
NOTES: add "C library/kernel ABI differences" subheading

encrypt.3
Rob Somers
Improve code example
I (and some others) found that the original example code
did not seem to work as advertised. The new code (used by
permission of the original author, Jens Thoms Toerring)
was found on comp.os.linux.development.

mktemp.3

Luke Faraone
DESCRIPTION reference to BUGS corrected
mktemp(3)'s DESCRIPTION referenced NOTES, but no such
section exists. Corrected to refer to BUGS.

pthread_attr_setschedparam.3
Tobias Herzke
Describe EINVAL in ERRORS

resolver.3
host.conf.5
Simon Paillard
host.conf 'order' option deprecated, replaced by nsswitch.conf(5)
http://www.sourceware.org/bugzilla/show_bug.cgi?id=2389
http://repo.or.cz/w/glibc.git/commit/b9c65d0902e5890c4f025b574725154032f8120a

Reported at http://bugs.debian.org/270368,
http://bugs.debian.org/396633, and http://bugs.debian.org/344233.

statvfs.3
Michael
Kerrisk
Document missing 'f_flag' bit values
And reorganize information relating to which flags are in
POSIX.1.
Michael Kerrisk [Jan Chaloupka]
statvfs() now populates 'f_flag' from statfs()'s f_flag field
These changes came with glibc 2.13, and the kernel's addition of
a 'f_flags' field in Linux 2.6.36.

syslog.3
Michael Kerrisk [Doug Goldstein]
Remove unneeded <stdarg.h>
vsyslog() does not need this.

tzset.3
J William Piggott
Add offset format
tzset.3 does not illustrate the POSIX offset format.
Specifically, there is no indication in the manual
what the optional components of it are.

random.4
Michael Kerrisk
Note maximum number of bytes returned by read(2) on /dev/random
Michael Kerrisk [Mathieu Malaterre]
Since Linux 3.16, reads from /dev/urandom return at most 32 MB
See https://bugs.debian.org/775328

and
https://bugzilla.kernel.org/show_bug.cgi?id=80981#c9

core.5
Michael Kerrisk [Bill McConnaughey]
Executing a file that has capabilities also prevents core dumps
Michael Kerrisk
Document "%i" and "%I" core_pattern specifiers

intro.5
Michael Kerrisk
Remove words "and protocols"
There are no protocol descriptions in Section 5. Protocols are
in Section 7.

proc.5
Michael Kerrisk
Add reference to prctl(2) in discussion of /proc/sys/fs/suid_dumpable
And note that /proc/sys/fs/suid_dumpable defines the
value assigned to the process "dumpable" flag in certain
circumstances.
Michael Kerrisk
Note that CAP_SYS_ADMIN is required to list /proc/PID/map_files
This might however change in the future; see the Jan 2015 LKML thread:

Re: [RFC][PATCH v2] procfs: Always expose /proc/<pid>/map_files/

and make it readable

resolv.conf.5
Michael Kerrisk
SEE ALSO: add nsswitch.conf(5)

capabilities.7
Michael Kerrisk
Mention SECBIT_KEEP_CAPS as an alternative to prctl() PR_SET_KEEPCAPS
Chris Mayo
NOTES: add last kernel versions for obsolete options
The CONFIG_SECURITY_CAPABILITIES option was removed by
commit 5915eb53861c5776cfec33ca4fcc1fd20d66dd27

The CONFIG_SECURITY_FILE_CAPABILITIES option removed in
Linux 2.6.33 as already mentioned in DESCRIPTION.

pthreads.7
Michael Kerrisk
SEE ALSO: add fork(2)

unix.7
  Jan Chaloupka
    Mention SOCK_STREAM socket for ioctl_type of ioctl()
      from https://bugzilla.redhat.com/show_bug.cgi?id=1110401.

      unix.7 is not clear about socket type of ioctl_type argument of
      ioctl() function. The description of SIOCINQ is applicable only
      for SOCK_STREAM socket. For SOCK_DGRAM, udp(7) man page gives

  correct description of SIOCINQ

ldconfig.8
  Michael Kerrisk
    Place options in alphabetical order
  Michael Kerrisk
    Note glibc version number for '-l' option
  Michael Kerrisk
    Document -c/--format option
  Michael Kerrisk
    Add long form of some options
  Michael Kerrisk [Patrick Horgan]
    ld.so.conf uses only newlines as delimiters
      mtk: confirmed by reading source of parse_conf() in
      elf/ldconfig.c.
  Michael Kerrisk
    Document -V/--version option
  Michael Kerrisk
    Document -i/--ignore-aux-cache option

ld.so.8
  Michael Kerrisk
    Relocate "Hardware capabilities" to be a subsection under notes
      This is more consistent with standard man-pages headings
      and layout.
  Michael Kerrisk
    (Briefly) document LD_TRACE_PRELINKING
  Michael Kerrisk
    Remove duplicate description of LD_BIND_NOT

========== Changes in man-pages-3.81 ==========

Released:
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Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Peng Haitao <penght@cn.fujitsu.com>

Apologies if I missed anyone!

New and rewritten pages
---

attributes.7
  Alexandre Oliva, Michael Kerrisk [Carlos O'Donell]
    New page describing POSIX safety concepts

Global changes

Many pages
  Peng Haitao, Michael Kerrisk
    Reformat existing thread-safety information to use a
    tabular format, rather than plain text.

Changes to individual pages
---

mmap.2
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The function mmap() and munmap() are
 thread safe.

a64l.3
  Ma Shimiao
    Modify thread-safety information
      As annotation in glibc manual is more detailed, change the
      thread-safety information to be the same as glibc manual.

acos.3
  Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe
The function acos(), acosf() and acosl() are thread safe.

acosh.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The function acosh(), acoshf() and acoshl() are thread safe.

addseverity.3
Ma Shimiao
ATTRIBUTES: Note function is thread-safe
The function addseverity() is thread safe.

aio_cancel.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The function aio_cancel() is thread safe.

aio_fsync.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The function aio_fsync() is thread safe.

aio_read.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The function aio_read() is thread safe.

aio_suspend.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The function aio_suspend() is thread safe.

aio_write.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The function aio_write() is thread safe.

argz_add.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe

asin.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The function asin(), asinf() and asinl() are thread safe.

assert.3

Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
Its marking matches glibc marking.

assert_perror.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
Its marking matches glibc marking.

atan2.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The function atan2(), atan2f() and atan2l() are thread safe.

atanh.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The function atanh(), atanhf() and atanhl() are thread safe.

backtrace.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The markings match glibc markings.

btowc.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The function btowc() in glibc is thread safe.
Its marking matches glibc marking.

cabs.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The function cabs(), cabsf() and cabsl() are thread safe.

cacos.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The function cacos(), cacosf() and cacosl() are thread safe.

cacosh.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The functions cacosh(), cacoshf() and cacoshl() in glibc are
thread safe. Its markings match glibc markings.

canonicalize_file_name.3
Ma Shimiao

ATTRIBUTES: Note function that is thread-safe
The functions canonicalize_file_name() in glibc is thread safe.
Its marking matches glibc marking.

carg.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The function carg(), cargf() and cargl() are thread safe.

casin.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The functions casin(), casinf() and casinl() are thread safe.
Their markings match glibc markings.

casinh.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The functions casinh(), casinhf() and casinhl() in glibc are
thread safe. Its markings match glibc markings.

catan.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The functions catan(), catanf() and catanl() are thread safe.
Their markings match glibc markings.

catanh.3
Ma Shimiao
ATTRIBUTES: Note functions
that are thread-safe
The functions catanh(), catanhf() and catanhl() in glibc are
thread safe. Its markings match glibc markings.

catopen.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions catopen() and catclose() are thread safe.

cfree.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The function cfree() in glibc is thread safe.
Its marking matches glibc marking.

clog10.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe

The functions clog10(), clog10f() and clog10l() in glibc are
thread safe. Its markings match glibc markings.

clog.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The function clog(), clogf() and clogl() are thread safe.

closedir.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The function closedir() in glibc is thread safe.
Its marking matches glibc marking.

confstr.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The function confstr() is thread safe.

cosh.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The functions cosh(), coshf() and coshl() in glibc are thread safe.
Its markings match glibc markings.

cpow.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The functions cpow(), cpowf() and cpowl() in glibc are thread safe.
Its markings match glibc markings.

crypt.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

ctermid.3
Ma Shimiao
Modify thread-safety information
According to the change of source code, ctermid's level has been
changed from MT-Unsafe to MT-Safe. After modifying,
the marking
matches the glibc marking.

drand48.3
Ma Shimiao
Modify thread-safety information

As annotation in glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

drand48_r.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

ecvt.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the
thread-safety information to be same as glibc manual.

ecvt_r.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The markings match glibc markings.

encrypt.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the
thread-safety information to be the same as glibc
manual.

envz_add.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The markings match glibc markings.

exec.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions execl(), execlp(), execle(), execv(), execvp() and
execvpe() are thread safe.

exit.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

exp10.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe

exp2.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The function exp2(), exp2f() and exp2l() are thread safe.

exp.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The function exp(), expf() and expl() are thread safe.

fclose.3
  Ma Shimiao
    ATTRIBUTES: Note function that is thread-safe

     The function fclose() is thread safe.
      Its marking matches glibc marking.

fcloseall.3
  Ma Shimiao
    Modify thread-safety information
      As annotation in glibc manual is more detailed, change the
      thread-safety information to be the same as glibc manual.

fgetc.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The markings match glibc markings.

fgetwc.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The markings match glibc markings.

fgetws.3
  Ma Shimiao
    ATTRIBUTES: Note function that is thread-safe
      The marking matches glibc marking.

fmod.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The function fmod(), fmodf() and fmodl() are thread safe.

fnmatch.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread safe with exceptions
      The function fnmatch() is thread safe with exceptions.

fopen.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The markings match glibc markings.

fopencookie.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The marking matches glibc marking.

fread.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions fread() and fwrite() are thread safe.

gamma.3
Peng Haitao
ATTRIBUTES: Note functions that are not thread-safe
The functions gamma(), gammaf() and gammal() are not thread safe.
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

getcontext.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

getcwd.3
Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions getcwd(), getwd() and get_current_dir_name() are
thread safe.

getdate.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

getenv.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions getenv() and secure_getenv() are thread safe.

getfsent.3
  Peng Haitao
    ATTRIBUTES: Note functions that are not thread-safe
      The functions setfsent(), getfsent(), endfsent(), getfsspec()
      and getfsfile() are not thread safe.
  Ma Shimiao
    Modify thread-safety information
      As annotation in glibc manual is more detailed, change the
      thread-safety information to be the same as glibc manual.

getgrent.3
  Ma Shimiao
    ATTRIBUTES: Note function that is thread-safe
      Its marking matches glibc marking.
  Ma Shimiao
    Modify thread-safety information
      As annotation in glibc manual is more detailed, change the
      thread-safety information to be the same as glibc manual.

getgrnam.3
  Ma Shimiao
    Modify thread-safety information
      As annotation in glibc manual is more detailed, change the
      thread-safety information to be the same as glibc manual.

getgrouplist.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread safe with exceptions
      The function getgrouplist() is thread safe with exceptions.

getlogin.3
  Ma Shimiao
    Modify thread-safety information
      As annotation in glibc manual is more detailed, change the
      thread-safety information to be the same as glibc manual.

getopt.3
  Peng Haitao
    ATTRIBUTES: Note functions that are not thread-safe
      The functions getopt(), getopt_long() and getopt_long_only() are
      not thread safe.
  Ma Shimiao
    Modify thread-safety information
      As annotation in glibc manual is more detailed, change the
      thread-safety information to be the same as glibc manual.

getpass.3
  Ma Shimiao

Modify thread-safety information
As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

getpwent.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

getpwnam.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

gets.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
Its marking matches glibc marking.

getw.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions getw() and putw() are thread safe.

gnu_get_libc_version.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions gnu_get_libc_version() and gnu_get_libc_release() are thread safe.

hsearch.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

iconv.3
Peng Haitao
Modify thread-safety information

inet.3
Peng Haitao
ATTRIBUTES: Note functions that are thread safe with exceptions
The functions inet_aton() and inet_addr() are thread safe with exceptions.
The functions inet_network(), inet_ntoa(), inet_makeaddr(),

inet_lnaof() and inet_netof() are thread safe.
Modify thread-safety information
After researching and talking,
we think inet_network() and
inet_ntoa() should be marked with locale.
After changing, the markings match glbc markings.

inet_pton.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function inet_pton() is thread safe with exceptions.

iswdigit.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function iswdigit() is thread safe with exceptions.

iswgraph.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function iswgraph() is thread safe with exceptions.

iswlower.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function iswlower() is thread safe with exceptions.

iswprint.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function iswprint() is thread safe with exceptions.

iswpunct.3
Peng
Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function iswpunct() is thread safe with exceptions.

iswspace.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function iswspace() is thread safe with exceptions.

iswupper.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function iswupper() is thread safe with exceptions.

iswxdigit.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread safe with exceptions
      The function iswxdigit() is thread safe with exceptions.

j0.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The function j0(), j1f() jnl() and so on are thread safe.

lio_listio.3
  Ma Shimiao
    ATTRIBUTES: Note function that is thread-safe
      Its marking matches glibc marking.

log10.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
       The function log10(), log10f() and log10l() are thread safe.

log2.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The function log2(), log2f() and log2l() are thread safe.

log.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The function log(), logf() and logl() are thread safe.

makecontext.3
  Ma Shimiao
    Modify thread-safety information
      As annotation in glibc manual is more detailed, change the
      thread-safety information to be the same as glibc manual.

makedev.3
  Peng Haitao
    ATTRIBUTES: Note macros that are thread-safe
      The macros makedev(), major() and minor() are thread safe.

malloc.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The function malloc(), free(), calloc() and realloc() are
      thread safe.

mblen.3

Ma Shimiao
Modify thread-safety information
As annotation in
glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

mbstowcs.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The marking matches glibc marking.

mbtowc.3
Peng Haitao
ATTRIBUTES: Note function that is not thread-safe
The function mbtowc() is not thread safe.
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

mktemp.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function mktemp() is thread safe.

mtrace.3
Peng Haitao
ATTRIBUTES: Note functions that are not thread-safe
The functions mtrace() and muntrace() are not thread safe.

nan.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The markings match glibc markings.

nl_langinfo.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function nl_langinfo() is thread safe with exceptions.

opendir.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The markings match glibc markings.

pow10.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe

The function pow10(), pow10f() and pow10l() are thread safe.

pow.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The function pow(), powf() and powl() are thread safe.

pthread_setcancelstate.3
Michael Kerrisk
Add async-signal-safety information

ptsname.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

putenv.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-unsafe
The function putenv() is
thread unsafe.

puts.3
Peng Haitao
ATTRIBUTES: Note functions that are thread-safe
The functions fputc(), fputs(), putc(), putchar() and puts() are thread safe.

putwchar.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The marking matches glibc marking.

qecvt.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the thread-safety information to be same as glibc manual.

rand.3
Peng Haitao
ATTRIBUTES: Note macros that are thread-safe
The functions rand(), rand_r() and srand() are thread safe.

random_r.3
Ma Shimiao
Modify thread-safety information

As annotation in glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

readdir.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more
detailed, change the
thread-safety information to be same as glibc manual.

realpath.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The marking matches glibc marking.

regex.3
Peng Haitao
ATTRIBUTES: Note functions that are thread safe with exceptions
The functions regcomp() and regexec() are thread safe with
exceptions.
The functions regerror() and regfree() are thread safe.

remainder.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The markings match glibc markings.

scalb.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The function scalb(), scalbf() and scalbl() are thread safe.

setenv.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-unsafe
The function setenv() and unsetenv() are thread unsafe.

siginterrupt.3
Ma Shimiao
Modify thread-safety information
As annotation
in glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

sigset.3
Peng Haitao
ATTRIBUTES: Note macros that are thread-safe
The functions sigset(), sighold(), sigrelse() and sigignore()

are thread safe.

sinh.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The function sinh(), sinhf() and sinhl() are thread safe.

sqrt.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The function sqrt(), sqrtf() and sqrtl() are thread safe.

stdarg.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

stdio_ext.3
Ma Shimiao
Modify thread-safety information
Change the thread safety information to be the same as glibc.

strcasecmp.3
Peng Haitao
ATTRIBUTES:
Note functions that are thread safe with exceptions
The functions strcasecmp() and strncasecmp() are thread safe with exceptions.

strerror.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

strfmon.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
Its marking matches glibc marking.

strfry.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function strfry() is thread safe.

strftime.3
Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions
The function strftime() is thread safe with exceptions.

strptime.3
Peng Haitao
ATTRIBUTES: Note function that is thread safe with exceptions
The function strptime() is thread safe with exceptions.

strtok.3
Ma Shimiao
Modify thread-safety
information
As annotation in glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

strverscmp.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function strverscmp() is thread safe.

strxfrm.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The marking matches glibc marking.

syslog.3
Peng Haitao
ATTRIBUTES: Note functions that are thread safe with exceptions
The functions openlog() and closelog() are thread safe.
The functions syslog() and vsyslog() are thread safe with
exceptions.

tempnam.3
Peng Haitao
ATTRIBUTES: Note function that is thread-safe
The function tempnam() is thread safe.

termios.3
Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the
thread-safety information to
be the same as glibc manual.
Ma Shimiao
Modify thread-safety information
As this is man page for Linux, we don't need thread safety
information for bsd

tgamma.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The functions tgamma(), tgammaf() and tgammal() in glibc are
      thread safe. Its markings match glibc markings.

timegm.3
  Peng Haitao
    ATTRIBUTES: Note functions that are thread safe with exceptions
      The functions timelocal() and timegm() are thread safe with
      exceptions.

tmpfile.3
  Ma Shimiao
    ATTRIBUTES: Note function that is thread-safe
      Its markings match glibc markings.

tmpnam.3
  Peng Haitao
    Modify thread-safety information
      When the argument s is NULL, tmpnam() should be MT-Unsafe.

toupper.3
  Ma Shimiao
    Modify thread-safety information
      After researching and talking, we think toupper() and tolower()
       should not be marked with locale.
      After changing, the markings match glbc markings.

tsearch.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The functions' markings match glibc markings.

ttyname.3
  Ma Shimiao
    Modify thread-safety information
      As annotation in glibc manual is more detailed, change the
      thread-safety information to be same as glibc manual.

tzset.3
  Peng Haitao
    ATTRIBUTES: Note function that is thread safe with exceptions
      The function tzset() is thread safe with exceptions.

wcsdup.3
  Ma Shimiao
    ATTRIBUTES: Note function that is thread-safe

Its marking matches glibc marking.

wctomb.3
  Ma Shimiao
    Modify thread-safety information
      As annotation in glibc manual is more detailed, change the
      thread-safety information to be the same as glibc manual.

y0.3
  Ma Shimiao
    ATTRIBUTES: Note functions
 that are thread-safe
      The function y0(), y1f() ynl() and so on are thread safe.

man-pages.7
  Michael Kerrisk
    Refer reader to attributes(7) for details of ATTRIBUTES section
  Michael Kerrisk
    SEE ALSO: add attributes(7)

pthreads.7
  Michael Kerrisk
    SEE ALSO: add attributes(7)

standards.7
  Michael Kerrisk
    SEE ALSO: add attributes(7)

========== Changes in man-pages-3.82 ==========

Released: 2015-03-29, Paris

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The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated in changes in this release:

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Apologies if I missed anyone!

New
and rewritten pages
---

nptl.7
  Michael Kerrisk
    New page with details of the NPTL POSIX threads implementation

Newly documented interfaces in existing pages
---

user_namespaces.7
  Eric W. Biederman [Michael Kerrisk]
    Document /proc/[pid]/setgroups

Changes to individual pages
---

intro.1
  Stéphane Aulery
    Prompt is not % but $
  Stéphane Aulery
    Various improvements
      - Add reference to other common shells dash(1), ksh(1)
      - Add a reference to stdout(3)
      - Separate cp and mv descriptions
      - Add examples of special cases of cd
      - Add su(1) and shutdown(8) references for section Logout
        and poweroff
      - Move Control-D to section Logout and poweroff
      - Fix some little formatting errors
  Stéphane Aulery
    Add cross references cited
  Stéphane Aulery

  Order SEE ALSO section

clone.2
  Josh Triplett
    Document that clone() silently ignores CLONE_PID and CLONE_STOPPED
      Normally, system calls return EINVAL for flags they don't support.
      Explicitly document that clone does *not* produce an error for
      these two obsolete flags.
  Michael Kerrisk
    Small rewording of explanation of clone() wrt threads
      Clone has so many effects that it's an oversimplification to say
      that the *main* use of clone is to create a thread. (In fact,
      the use of clone() to create new processes may well be more
      common, since glibc's fork() is a wrapper that calls clone().)

getgroups.2
  Michael Kerrisk [Shawn Landden]
    Add discussion of NPTL credential-changing mechanism
      At the kernel level, credentials (UIDs and GIDs) are a per-thread
      attribute. NPTL uses a signal-based mechanism to ensure that
      when one thread changes its
 credentials, all other threads change
      credentials to the same values. By this means, the NPTL
      implementation conforms to the POSIX requirement that the threads
      in a process share credentials.
  Michael Kerrisk
    ERRORS: add EPERM for the case where /proc/PID/setgroups is "deny"

Michael Kerrisk
Note capability associated with EPERM error for setgroups(2)
Michael Kerrisk
Refer reader to user_namespaces(7) for discussion of /proc/PID/setgroups
The discussion of /proc/PID/setgroups has moved from
proc(5) to user_namespaces(7).

getpid.2
Michael Kerrisk
Note that getppid() returns 0 if parent is in different PID namespace

getsockopt.2
Konstantin Shemyak
Note RETURN VALUE details when netfilter is involved

ioctl_list.2
Heinrich Schuchardt
SEE ALSO ioctl_fat.2
Add FAT_IOCTL_GET_VOLUME_ID
SEE ALSO ioctl_fat.2
Heinrich Schuchardt

include/linux/ext2_fs.h
Include linux/ext2_fs.h does not contain any ioctl definitions
anymore.

Request codes EXT2_IOC* have been replaced by FS_IOC* in
linux/fs.h.

Some definitions of FS_IOC_* use long* but the actual code expects
int* (see fs/ext2/ioctl.c).

msgop.2
Bill Pemberton
Remove EAGAIN as msgrcv() errno
The list of errnos for msgrcv() lists both EAGAIN and ENOMSG as
the errno for no message available with the IPC_NOWAIT flag.
ENOMSG is the errno that will be set.
Bill Pemberton
Add an example program

open.2
Michael Kerrisk [Jason Vas Dias]
Mention blocking semantics for FIFO opens
See https://bugzilla.kernel.org/show_bug.cgi?id=95191

seccomp.2
Jann Horn [Kees Cook, Mikael Pettersson, Andy Lutomirski]

Add note about alarm(2) not being sufficient to limit runtime
Jann Horn
Explain blacklisting
problems, expand example
Michael Kerrisk [Kees Cook]
Add mention of libseccomp

setgid.2
Michael Kerrisk
Clarify that setgid() changes all GIDs when caller has CAP_SETGID
Michael Kerrisk [Shawn Landden]
Add discussion of NPTL credential-changing mechanism
At the kernel level, credentials (UIDs and GIDs) are a per-thread attribute. NPTL uses a signal-based mechanism to ensure that when one thread changes its credentials, all other threads change credentials to the same values. By this means, the NPTL implementation conforms to the POSIX requirement that the threads in a process share credentials.

setresuid.2
Michael Kerrisk [Shawn Landden]
Add discussion of NPTL credential-changing mechanism
At the kernel level, credentials (UIDs and GIDs) are a per-thread attribute. NPTL uses a signal-based mechanism to ensure that when one thread
changes its credentials, all other threads change
credentials to the same values. By this means, the NPTL implementation conforms to the POSIX requirement that the threads in a process share credentials.

setreuid.2
Michael Kerrisk [Shawn Landden]
Add discussion of NPTL credential-changing mechanism
At the kernel level, credentials (UIDs and GIDs) are a per-thread attribute. NPTL uses a signal-based mechanism to ensure that when one thread changes its credentials, all other threads change credentials to the same values. By this means, the NPTL implementation conforms to the POSIX requirement that the threads in a process share credentials.
Michael Kerrisk
SEE ALSO: add credentials(7)

setuid.2
Michael Kerrisk
Clarify that setuid() changes all UIDs when caller has CAP_SETUID
Michael Kerrisk [Shawn Landden]
Add discussion of NPTL

credential-changing mechanism
At the kernel level, credentials (UIDs and GIDs) are a per-thread attribute. NPTL uses a signal-based mechanism to ensure that when one thread changes its credentials, all other threads change credentials to the same values. By this means, the NPTL implementation conforms to the POSIX requirement that the threads in a process share credentials.

sigaction.2
Michael Kerrisk
Add discussion of rt_sigaction(2)
Michael Kerrisk
Note treatment of signals used internally by NPTL
The glibc wrapper gives an EINVAL error on attempts to change the disposition of either of the two real-time signals used by NPTL.

sigpending.2
Michael Kerrisk
Add discussion of rt_sigpending(2)

sigprocmask.2
Michael Kerrisk
Add discussion of rt_sigprocmask(2)
Michael Kerrisk
Note treatment of signals used internally by NPTL

The glibc wrapper silently ignores attempts to block the two real-time signals used by NPTL.

sigreturn.2
Michael Kerrisk
Add discussion of rt_sigreturn(2)

sigsuspend.2
Michael Kerrisk
Add discussion of rt_sigsuspend(2)

sigwaitinfo.2
Michael Kerrisk
Note treatment of signals used internally by NPTL
The glibc wrappers silently ignore attempts to wait for signals used by NPTL.
Michael Kerrisk
Add discussion of rt_sigtimedwait(2)

socket.2
Heinrich Schuchardt
SEE ALSO close(2)

The description mentions close(2). Hence it should also be
referenced in the SEE ALSO section.

syscall.2
Jann Horn
Add x32 ABI

umount.2
Eric W. Biederman
Document the effect of shared subtrees on umount(2)
Eric W. Biederman
Correct the description of MNT_DETACH
I recently realized that I had been reasoning improperly about
what umount(MNT_DETACH)
did based on an insufficient description
in the umount.2 man page, that matched my intuition but not the
implementation.

When there are no submounts, MNT_DETACH is essentially harmless to
applications. Where there are submounts, MNT_DETACH changes what
is visible to applications using the detach directories.
Michael Kerrisk
Move "shared mount + umount" text to a subsection in NOTES

aio_return.3
Stéphane Aulery
Document the return value on error
Reported by Alexander Holler <holler@ahsoftware.de>

clock.3
Stéphane Aulery
CLOCKS_PER_SEC = 1000000 is required by XSI, not POSIX
Debian Bug #728213 reported by Tanaka Akira <akr@fsij.org>

See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=728213

dlopen.3
Michael Kerrisk
Amend error in description of dlclose() behavior
The current text says that unloading depends on
whether
the reference count falls to zero *and no other libraries
are using symbols in this library*. That latter text has
been there since man-pages-1.29, but it seems rather dubious.
How could the implementation know whether other libraries
are still using symbols in this library? Furthermore, no
other implementation's man page mentions this point.
Seems best to drop this point.

Michael Kerrisk
Add some details for RTLD_DEFAULT
Michael Kerrisk
Add some details on RTLD_NEXT and preloading
Michael Kerrisk
RTLD_NEXT works for symbols generally, not just functions
The common use case is for functions, but RTLD_NEXT
also applies to variable symbols.
Michael Kerrisk
dlclose() recursively closes dependent libraries
Note that dlclose() recursively closes dependent libraries
that were loaded by dlopen()
Michael
Kerrisk
Rename second dlopen() argument from "flag" to "flags"
This is more consistent with other such arguments
Michael Kerrisk
Reformat text on RTLD_DEFAULT and RTLD_NEXT

fmemopen.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The markings match glibc markings.

fpathconf.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The marking matches glibc marking.

fputwc.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The marking matches glibc marking.

fputws.3
Ma Shimiao
ATTRIBUTES: Note function that is thread-safe
The marking matches glibc marking.

fseek.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The markings match glibc markings.

fseeko.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The markings match glibc markings.

gcvt.3
  Ma Shimiao
    ATTRIBUTES: Note function that is thread-safe
      The marking matches glibc marking.

getline.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The marking matches glibc marking.

getwchar.3
  Ma Shimiao
    ATTRIBUTES: Note function that is thread-safe
      The marking matches glibc marking.

hypot.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The markings match glibc markings.

iconv_open.3
  Ma Shimiao
    ATTRIBUTES: Note function that is thread-safe
      The marking matches glibc marking.

if_nameindex.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The markings match glibc markings.

initgroups.3
  Ma Shimiao
    ATTRIBUTES: Note function that is thread-safe
      The markings match glibc markings.

mq_open.3
  Torvald Riegel
    Add EINVAL error case for invalid name
      This behavior is implementation-defined
 by POSIX. If the name
      doesn't start with a '/', glibc returns EINVAL without attempting
      the syscall.

popen.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The marking matches glibc marking.

pthread_kill.3
  Michael Kerrisk
    Note treatment of signals used internally by NPTL
      The glibc pthread_kill() function gives an error on attempts
      to send either of the real-time signals used by NPTL.

pthread_sigmask.3
  Michael Kerrisk
    Note treatment of signals used internally by NPTL
      The glibc implementation silently ignores attempts to block the two
      real-time signals used by NPTL.

pthread_sigqueue.3
  Michael Kerrisk
    Note treatment of signals used internally by NPTL
      The glibc pthread_sigqueue() function gives an error on attempts
      to send either of the real-time signals used by NPTL.

resolver.3
  Stéphane Aulery [Jakub Wilk]
     Document missing options used by _res structure indicate defaults
      Missing options: RES_INSECURE1, RES_INSECURE2, RES_NOALIASES,
      USE_INET6, ROTATE, NOCHECKNAME, RES_KEEPTSIG, BLAST, USEBSTRING,
      NOIP6DOTINT, USE_EDNS0, SNGLKUP, SNGLKUPREOP, RES_USE_DNSSEC,
      NOTLDQUERY, DEFAULT

      Written from the glibc source and resolv.conf.5.

      See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=527136
  Stéphane Aulery
    RES_IGNTC is implemented

rint.3
  Matt Turner
    Document that halfway cases are rounded to even
      Per IEEE-754 rounding rules.

      The round(3) page describes the behavior of rint and nearbyint
      in the halfway cases by saying:

        These functions round x to the nearest integer, but round
        halfway cases away from zero [...], instead of to the
        nearest even integer like rint(3)

sigqueue.3
  Michael Kerrisk
    NOTES:

add "C library/kernel ABI differences" subheading
  Michael Kerrisk
    Clarify version info (mention rt_sigqueueinfo())

sigsetops.3
  Michael Kerrisk
    Note treatment of signals used internally by NPTL
      The glibc sigfillset() function excludes the two real-time
      signals used by NPTL.

sigwait.3
  Michael Kerrisk
    Note treatment of signals used internally by NPTL
      The glibc sigwait() silently ignore attempts to wait for
      signals used by NPTL.

strcoll.3
  Ma Shimiao
    ATTRIBUTES: Note function that is thread-safe
      The markings match glibc markings.

strdup.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
      The marking matches glibc marking.

tzset.3
  J William Piggott
    Add 'std' quoting information

ulimit.3
  Ma Shimiao
    ATTRIBUTES: Note function that is thread-safe
      The marking matches glibc marking.

wcstombs.3
  Ma Shimiao

   ATTRIBUTES: Note function that is thread-safe
      The marking matches glibc marking.

wctob.3
  Ma Shimiao
    ATTRIBUTES: Note function that is thread-safe
      The marking matches glibc marking.

xdr.3
  Taisuke Yamada

Clarified incompatibility and correct usage of XDR API
See http://bugs.debian.org/628099

console_codes.4
Scot Doyle
Add Console Private CSI sequence 15
An undocumented escape sequence in drivers/tty/vt/vt.c brings the
previously accessed virtual terminal to the foreground.
mtk: Patch misattributed to Taisuke Yamada in Git commit
because of a muck up on my part.
Michael Kerrisk
Add kernel version number for CSI sequence 15

random.4
Michael Kerrisk
Fix permissions shown for the devices
These days, the devices are RW for everyone.

filesystems.5
Michael Kerrisk
Remove dubious claim about comparative performance of ext2
Perhaps it was the best filesystem performance-wise in
the 20th century, when that text was written. That probably
ceased to be true quite a long time ago, though.
Stéphane Aulery
Add cross references for ext filesystems
Stéphane Aulery
Specifies the scope of this list and its limits.

host.conf.5
hosts.5
resolv.conf.5
Stéphane Aulery [Paul E Condon]
Cross references of these pages.
See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=298259

host.conf.5
Stéphane Aulery
Rework discussion of nospoof, spoofalert, spoof and RESOLV_SPOOF_CHECK
The keywords and environment variables "nospoof", "spoofalert",
"spoof" and RESOLV_SPOOF_CHECK were added to glibc 2.0.7 but
never implemented

Move descriptions to historical section and reorder it for clarity

See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=773443

hosts.5

Stéphane
Aulery [Vincent Lefevre]
Mention 127.0.1.1 for FQDN and IPv6 examples
See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=562890

proc.5
Taisuke Yamada
Document /proc/PID/status VmPin field
See https://bugs.launchpad.net/bugs/1071746
Michael Kerrisk
Document (the obsolete) /proc/PID/seccomp
Michael Kerrisk
Replace description of 'uid_map' with a reference to user_namespaces(7)
All of the information in proc(5) was also present in
user_namespaces(7), but the latter was more detailed
and up to date.
Taisuke Yamada
Fix SELinux /proc/pid/attr/current example
Since the /proc/pid/attr API was added to the kernel, there
have been a couple of changes to the SELinux handling of
/proc/pid/attr/current. Fix the SELinux /proc/pid/attr/current
example text to reflect these changes and note which kernel
versions first included
the changes.

securetty.5
Stéphane Aulery [Nicolas FRANCOIS]
Note that the pam_securetty module also uses this file
See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=528015

This patch is a modified version of the one proposed without
parts specific to Debian.

boot.7
Michael Witten
Copy edit
While a lot of the changes are issues of presentation,
there are also issues of grammar and punctuation.
Michael Witten
Mention `systemd(1)' and its related `bootup(7)'
It's important that the reader receive contemporary information.

credentials.7
Michael Kerrisk
SEE ALSO: add pthreads(7)
Michael Kerrisk
Add reference to nptl(7)

feature_test_macros.7
  Michael Kerrisk
    Update discussion of _FORTIFY_SOURCE
      Since the initial implementation a lot more checks were added.
      Describe all the checks would be too verbose (and would
 soon
      fall out of date as more checks are added). So instead, describe
      the kinds of checks that are done more generally.
      Also a few other minor edits to the text.

hier.7
  Stéphane Aulery
    First patch of a series to achieve compliance with FHS 2.3
  Stéphane Aulery
    SGML and XML directories are separated in FHS 2.3
  Stéphane Aulery
    Add missing directories defined by FHS 2.3
  Stéphane Aulery
    Identify which directories are optional
  Stéphane Aulery
    Document /initrd, /lost+found and /sys
      Ubuntu Bug #70094 reported by Brian Beck
      https://bugs.launchpad.net/ubuntu/+source/manpages/+bug/70094
  Stéphane Aulery
    Explain YP, which is not obvious

ipv6.7
  Stéphane Aulery [David Madore]
    SOL_IPV6 and other SOL_* options socket are not portable
      See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=472447

man-pages.7
  Michael Kerrisk [Bill Pemberton]

    Add indent(1) command that produces desired formatting for example code
  Stéphane Aulery
    Improve description of sections in accordance with intro pages

packet.7
  Michael Kerrisk
    Rework description of fanout algorithms as list
  Michael Kerrisk
    Remove mention of needing UID 0 to create packet socket
      The existing text makes no sense. The check is based
      purely on a capability check. (Kernel function
      net/packet/af_packet.c::packet_create()
  Michael Kerrisk
    Remove text about ancient glibc not defining SOL_PACKET

This was fixed in glibc 2.1.1, which is a long while ago.
And in any case, there is nothing special about this case;
it's just one of those times when glibc lags.
Michael Kerrisk
Rework description of 'sockaddr_ll' fields as a list
Michael Kerrisk
Various minor edits

pthreads.7
Michael Kerrisk
Add references to nptl(7)

raw.7
Michael Kerrisk
Rephrase "Linux 2.2" language to "Linux 2.2 or later"
The man page was written in the LInux 2.2 timeframe, and
some phrasing was not future-proof.

signal.7
Michael Kerrisk
Note when Linux added realtime signals
Michael Kerrisk
Correct the range of realtime signals
Michael Kerrisk
Summarize 2.2 system call changes that resulted from larger signal sets
Michael Kerrisk
SEE ALSO: add nptl(7)

tcp.7
Peter Adkins
Document removal of TCP_SYNQ_HSIZE
Looking over the man page for 'tcp' I came across a reference to
tuning the 'TCP_SYNQ_HSIZE' parameter when increasing
'tcp_max_syn_backlog' above 1024. However, this static sizing was
removed back in Linux 2.6.20 in favor of dynamic scaling - as
part of commit 72a3effaf633bcae9034b7e176bdbd78d64a71db.

user_namespaces.7
Eric W. Biederman
Update the documentation to
reflect the fixes for negative groups
Files with access permissions such as rwx---rwx give fewer
permissions to their group then they do to everyone else. Which
means dropping groups with setgroups(0, NULL) actually grants a
process privileges.

The unprivileged setting of gid_map turned out not to be safe
after this change. Privileged setting of gid_map can be

interpreted as meaning yes it is ok to drop groups. [Eric additionally noted: Setting of gid_map with privilege has been clarified to mean that dropping groups is ok. This allows existing programs that set gid_map with privilege to work without changes. That is, newgidmap(1) continues to work unchanged.]

To prevent this problem and future problems, user namespaces were changed in such a way as to guarantee a user can not obtain credentials without
privilege that they could not obtain without
the help of user namespaces.

This meant testing the effective user ID and not the filesystem user ID, as setresuid(2) and setregid(2) allow setting any process UID or GID (except the supplementary groups) to the effective ID.

Furthermore, to preserve in some form the useful applications that have been setting gid_map without privilege, the file /proc/[pid]/setgroups was added to allow disabling setgroups(2). With setgroups(2) permanently disabled in a user namespace, it again becomes safe to allow writes to gid_map without privilege.

Michael Kerrisk

Rework some text describing permission rules for updating map files

No (intentional) change to the facts, but this restructuring should make the meaning easier to grasp.

Michael Kerrisk

Update kernel version associated with 5-line limit for
map files

As at Linux 3.18, the limit is still five lines, so mention the more recent kernel version in the text.

Michael Kerrisk [Alban Crequy]

Handle /proc/PID/setgroups in the example program

Michael Kerrisk

Rework text describing restrictions on updating /proc/PID/setgroups

No (intentional) changes to factual description, but the restructured text is hopefully easier to grasp.

Michael Kerrisk

Explain why the /proc/PID/setgroups file was added

ldconfig.8

Michael Kerrisk

Note use of /lib64 and /usr/lib64 on some 64-bit architectures

ld.so.8

Michael Kerrisk

Note the use of /lib64 and /usr/lib64 on some 64-bit architectures

========== Changes in man-pages-3.83 ==========

Released: 2015-04-19, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have
been
incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

posix_madvise.3
  Michael Kerrisk
    New page documenting posix_madvise(3)

ftw.3
  Michael Kerrisk
    Reorganize the page to give primacy to nftw()
      nftw() is the better API, and POSIX.1-2008 marks ftw() obsolete.

Newly documented interfaces in existing pages
---

getdents.2
  Michael Kerrisk [Dima Tisnek]
    Document getdents64()
      See https://bugzilla.kernel.org/show_bug.cgi?id=14795

mount.2
  Michael Kerrisk, Theodore Ts'o [Eric Sandeen, Andreas Dilger,
  Omar Sandoval, Darrick J. Wong]
    Document MS_LAZYTIME

proc.5
  Michael Kerrisk
    Document /proc/sys/kernel/randomize_va_space
  Michael Kerrisk
    Document /proc/PID/fdinfo epoll format
  Michael
 Kerrisk
    Describe /proc/PID/fdinfo eventfd format
  Michael Kerrisk
    Document /proc/PID/fdinfo signalfd format

New and changed links
---

newfstatat.2
  Michael Kerrisk
    New link to fstatat64.2

prlimit64.2
  Michael Kerrisk

New link to getrlimit.2

Global changes

Various section 3 math pages
Michael Kerrisk
Note that these functions are also in POSIX.1-2001 and POSIX.1-2008

Changes to individual pages
---

getent.1
Robin H. Johnson
Document options
The options to getent are now documented, after being around for nearly a decade without changes.
Michael Kerrisk
Document help and version options

fallocate.2
Michael Kerrisk
Fix kernel version number for FALLOC_FL_ZERO_RANGE
FALLOC_FL_ZERO_RANGE was added in 3.15, not 3.14.
Michael Kerrisk
Note that SMB3 added FALLOC_FL_ZERO_RANGE support in Linux 3.17

getrlimit.2
Michael Kerrisk
Note that the underlying system call for prlimit() is prlimit64()
Michael Kerrisk
Remove "_FILE_OFFSET_BITS == 64" from prlimit() FTM requirements
"_FILE_OFFSET_BITS == 64" is not needed to get the prlimit() declaration.

ioctl_list.2
Nikos Mavrogiannopoulos
SIOCADDRT accepts in6_rtmsg in INET6 protocol
Heinrich Schuchardt
TFD_IOC_SET_TICKS
timerfd_create.2 mentions TFD_IOC_SET_TICKS. We should add it to ioctl_list.2, too.

llseek.2
Michael Kerrisk

Advise reader to use lseek(2) instead
Michael Kerrisk
llseek() exists on 32-bit platforms to support seeking to large offsets

madvise.2
David Rientjes
Specify MADV_REMOVE returns EINVAL for hugetlbfs
madvise(2) actually returns with error EINVAL for MADV_REMOVE
when used for hugetlb VMAs, not EOPNOTSUPP, and this has been
the case since MADV_REMOVE
was introduced in commit f6b3ec238d12
("madvise(MADV_REMOVE): remove pages from tmpfs shm backing
store"). Specify the exact behavior.
Michael Kerrisk
SEE ALSO: add posix_madvise(2)

poll.2
Michael Kerrisk [Andreas Baak]
SEE ALSO: add epoll(7)

posix_fadvise.2
Michael Kerrisk
Add "C library/kernel ABI differences" subsection

pread.2
Michael Kerrisk
Add "C library/kernel ABI differences" subsection

seccomp.2
Michael Kerrisk [Pierre Chifflier, Kees Cook]
Note that seccomp_data is read-only

stat.2
Michael Kerrisk
Add some details on various "stat" versions
Three versions of "stat" appeared on 32-bit systems,
dealing with structures of different (increasing) sizes.
Explain some of the details, and also note that the
situation is simpler on modern 64-bit architectures.
Michael Kerrisk
Add mention of newfstatat()

The underlying system call for fstatat() is newfstatat()
on some architectures.

symlink.2
Michael Kerrisk [Jonny Grant]
ERRORS: add linkpath=="" case for ENOENT

syscalls.2
  Michael Kerrisk
    Remove prlimit()
      There really is only the prlimit64() system call.
  Michael Kerrisk
    Add some details about the "multiple versions of system calls"
      The multiple-system-call-version phenomenon is particularly a
      feature of older 32-bit platforms. Hint at that fact in the text.

timerfd_create.2
  Cyrill Gorcunov [Michael Kerrisk]
    Document TFD_IOC_SET_TICKS ioctl() operation
  Michael Kerrisk
    Add some details to C library/kernel ABI differences

unshare.2
  Michael Kerrisk [Fabien Pichot]
    Remove mention of "System V" from discussion of CLONE_NEWIPC
      These days, CLONE_NEWIPC also affects POSIX message queues.

asprintf.3
  Zeng Linggang
    ATTRIBUTES: Note functions that
 are thread-safe

carg.3
  Michael Kerrisk
    Add introductory sentence explaining what these functions calculate

ccos.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
  Michael Kerrisk
    Add introductory sentence explaining what these functions calculate

ccosh.3
  Michael Kerrisk
    Add introductory sentence explaining what these functions calculate

cexp.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe

clock.3
  Ma Shimiao
    ATTRIBUTES: Note functions that is thread-safe

clog.3
  Michael Kerrisk
    Add introductory sentence explaining what these functions calculate

csin.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
  Michael Kerrisk
    Add introductory sentence explaining what these functions calculate

csinh.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
  Michael Kerrisk
    Add introductory sentence explaining what these functions
 calculate

csqrt.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
  Michael Kerrisk
    Simplify description of what these functions calculate

ctan.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
  Michael Kerrisk
    Add introductory sentence explaining what these functions calculate

ctanh.3
  Ma Shimiao
    ATTRIBUTES: Note functions that are thread-safe
  Michael Kerrisk
    Add introductory sentence explaining what these functions calculate

ctime.3
  Zeng Linggang
    ATTRIBUTES: Note functions that aren't thread-safe

exec.3
  Michael Kerrisk
    SYNOPSIS: Clarify calling signature for execl() and execlp()
  Michael Kerrisk [Andreas Baak]
    Correct prototype for execle()
      Make the prototype shown into correct C.

ftw.3
  Michael Kerrisk [Felix Sedlmeier]

ftw() and nftw() differ for the non-stat-able symlink case
The POSIX specification of ftw() says
that an un-stat-able
symlink may yield either FTW_NS or FTW_SL. The specification
of nftw() does not carry this statement.
Michael Kerrisk
CONFORMING TO: add POSIX.1-2008
Michael Kerrisk
Update POSIX version references in NOTES

getcwd.3
Jann Horn [Michael Kerrisk]
Note behavior for unreachable current working directory
Michael Kerrisk
Add ENOMEM error

gethostbyname.3
Michael Kerrisk [Jonny Grant]
Clarify that NO_ADDRESS and NO_DATA are synonyms
Michael Kerrisk
Add some detail for NO_DATA
Text consistent with POSIX and FreeBSD's gethostbyname() man page.
Zeng Linggang
ATTRIBUTES: Note functions that aren't thread-safe

getnetent.3
Zeng Linggang
ATTRIBUTES: Note functions that aren't thread-safe

get_nprocs_conf.3
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

getutent.3
Zeng Linggang
ATTRIBUTES: Note functions that
aren't thread-safe

glob.3
Zeng Linggang
ATTRIBUTES: Note functions that aren't thread-safe

insque.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe

login.3
Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

lseek64.3
Michael Kerrisk
Clarify details with respect to 32-bit and 64-bit systems

malloc.3
Michael Kerrisk
Add ENOMEM error

mbsnrtowcs.3
Zeng Linggang
ATTRIBUTES: Note function that isn't thread-safe

mbsrtowcs.3
Zeng Linggang
ATTRIBUTES: Note function that isn't thread-safe

mq_notify.3
Michael Kerrisk
Add "C library/kernel ABI differences" subsection

mq_open.3
Michael Kerrisk [Fabien Pichot]
NOTES: explain differences from the underlying system call
The check for the slash at the start of a pathname is done in glibc

openpty.3
Zeng Linggang
ATTRIBUTES: Note functions that aren't thread-safe

perror.3
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

posix_memalign.3
Zeng Linggang
ATTRIBUTES: Note functions that aren't thread-safe

printf.3
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe
Walter Harms [Michael Kerrisk]
Simplify the example code

qsort.3
Michael Kerrisk [Rob Landley]
alphasort() and versionsort() are not suitable for 'compar'

In glibc 2.10, the prototypes of alphasort() and versionsort()
were changed so that the arguments switched from 'const void *' to
'const struct dirent **', to match the POSIX.1-2008 specification
of alphasort(). As such, compiler warnings will result if
these functions are used as the arguments of qsort().

warning: passing argument 4 of 'qsort' from incompatible
pointer type
expected '__compar_fn_t' but argument is of type
'int (*)(const struct dirent
**, const struct dirent **)'

Therefore, remove the ancient NOTES text suggesting that
alphasort() and versionsort() can be used as suitable
'compar' arguments for qsort().

realpath.3
Michael Kerrisk [Jon Grant]
Add ENOMEM error

scandir.3
Michael Kerrisk
glibc 2.10 changed the argument types for alphasort() and versionsort()
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

scanf.3
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

setnetgrent.3
Zeng Linggang
ATTRIBUTES: Note functions that aren't thread-safe

significand.3
Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe

strcasecmp.3
Michael Kerrisk [Jonny Grant]
Clarify that strcasecmp() does a byte-wise comparison
Michael Kerrisk
CONFORMING TO: add POSIX.1-2008

unlocked_stdio.3
Zeng Linggang
ATTRIBUTES: Note functions that aren't thread-safe

updwtmp.3
  Zeng Linggang
    ATTRIBUTES: Note functions that aren't thread-safe

wcrtomb.3
  Zeng Linggang
    ATTRIBUTES: Note function that isn't thread-safe

wcsnrtombs.3
  Zeng Linggang
    ATTRIBUTES: Note function that isn't thread-safe

wcsrtombs.3
  Zeng Linggang
    ATTRIBUTES: Note function that isn't thread-safe

wordexp.3
  Zeng Linggang
    ATTRIBUTES: Note functions that aren't thread-safe

wprintf.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

proc.5
  Michael Kerrisk
    Describe "mnt_id" field of /proc/PID/fdinfo
  Michael Kerrisk
    Note that abstract sockets are included in /proc/net/unix
  Michael Kerrisk
    Update description /proc/sys/unix 'Type' field
      The existing text was very crufty. UNIX domain sockets
      support more than SOCK_STREAM for a _very_ long time now.
  Michael Kerrisk
    Add some detail to /proc/PID/timers
  Michael Kerrisk [Vlastimil Babka]

    Enhance discussion of /proc/PID/status 'VmSwap' field

epoll.7
  Michael Kerrisk
    SEE ALSO: add poll(2) and select(2)

icmp.7
  YOSHIFUJI Hideaki/
    Document net.ipv4.ping_group_range knob

nptl.7

Michael Kerrisk
Add reference to timer_create(2)

========== Changes in man-pages-4.00 ==========

Released: 2015-05-07, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

get_phys_pages.3
  William Woodruff
    Document get_phys_pages() and get_avphys_pages()

loop.4
  Urs Thuermann, Michael Kerrisk
    New page documenting the loop device

xattr.7

 Andreas Gruenbacher
    Import attr(5) man page from the 'attr' project
      After discussions with Andreas Gruenbacher, it makes sense to
      move this page into man-pages, since it mostly relates to
      kernel details. Since this is an overview page,
      we'll move it to Section 7.

Michael Kerrisk
Rename page
"xattr" is a more meaningful name than "attr" (it resonates
with the names of the system calls), so as long as we are
moving the page to a new section, we'll change the name as well,
and retain an acl(5) link so that old references remain valid.

Newly documented interfaces in existing pages
---

mmap.2
Michael Kerrisk [Andi Kleen]
Document MAP_HUGE_2MB, MAP_HUGE_1GB, and MAP_HUGE_SHIFT

shmget.2
Michael Kerrisk [Andi Kleen]
Document SHM_HUGE_2MB, SHM_HUGE_1GB, and SHM_HUGE_SHIFT

resolver.3
Michael Kerrisk [Jonathan
Nieder]
Add descriptions of some other resolver functions
Add res_ninit(), res_nquery(), res_nsearch(),
and res_nquerydomain(), res_nmkquery(), res_nsend().

tty_ioctl.4
Frédéric Maria [Stephane Fillod, Andreas Heiduk]
Document TIOCMIWAIT and TIOCGICOUNT
Michael Kerrisk
Document TIOCGEXCL
Michael Kerrisk
Document TIOGCPKT
Michael Kerrisk
Document TIOCSPTLCK
Michael Kerrisk
Document TIOCGPTLCK

New and changed links

CMSG_DATA.3
Michael Kerrisk
New link to cmsg(3)

CMSG_LEN.3
Michael Kerrisk

New link to cmsg(3)

dprintf.3
Michael Kerrisk
Convert to a link to printf.3

get_avphys_pages.3
William Woodruff
New link to new get_phys_pages.3 page

res_ninit.3
res_nmkquery.3
res_nquery.3
res_nquerydomain.3
res_nsearch.3
res_nsend.3
Michael Kerrisk
New links to resolver(3) man page

loop-control.4
Michael Kerrisk
New link to loop.4

attr.5
Michael Kerrisk
New link to xattr(7)

Global changes
---

chown.2
execve.2
prctl.2
truncate.2
proc.5
capabilities.7
ld.so.8
Michael Kerrisk
Tighter wording: 'mode bit' rather than 'permission bit'
For sticky, set-UID, and set-GID mode bits (as used in POSIX).

Changes to individual pages
---

add_key.2
keyctl.2

request_key.2
  Michael Kerrisk
    SEE ALSO: add keyrings(7)

add_key.2
request_key.2
  Michael Kerrisk
    SEE ALSO: add keyctl(3)

epoll_ctl.2
  Michael Kerrisk
    After EPOLLHUP, EOF will be seen only after all data has been consumed

epoll_wait.2
  Michael Kerrisk
    Clarify that signal mask treatment in epoll_pwait() is per-thread
      s/sigprocmask()/pthread_sigmask()/

fcntl.2
  Michael Kerrisk [Vegard Nossum]
    Note an F_SETSIG corner case

get_mempolicy.2, set_mempolicy
  Brice Goglin
    Policy is per thread, not
 per process

getxattr.2
listxattr.2
removexattr.2
setxattr.2
capabilities.7
  Michael Kerrisk
    Adjust "attr(5)" references to "xattr(7)"

ioctl.2
  Michael Kerrisk
    SEE ALSO: add console_ioctl(2) and tty_ioctl(2)

listxattr.2
xattr.7
  Michael Kerrisk
    Describe listxattr(2) E2BIG error and document it as a BUG

mkdir.2
  Michael Kerrisk
    Wording fixes + point reader at stat(2) for explanation of file mode
  Michael Kerrisk [Andreas Grünbacher]

Further tweaks to text on S_ISVTX and 'mode' argument

mknod.2
Michael Kerrisk
Rewordings + point reader at stat(2) for details of mode bits

mmap.2
Michael Kerrisk
Remove text that implies that munmap() syncs MAP_SHARED mapping to file
The existing text in this page:

MAP_SHARED Share this mapping. Updates to the mapping
are visible to other processes that map this
file, and are
carried through to the underly
ing file. The file may not actually be
updated until msync(2) or munmap() is called.

implies that munmap() will sync the mapping to the underlying
file. POSIX doesn't require this, and some light reading of the
code and some light testing (fsync() after munmap() of a large
file) also indicates that Linux doesn't do this.

msync.2
Michael Kerrisk
Rework text of DESCRIPTION
Rewrite the text somewhat, for easier comprehension.
No (intentional) changes to factual content

nfsservctl.2
Michael Kerrisk [J. Bruce Fields]
Note that nfsservctl() was replaced by files in nfsd filesystem

open.2
Michael Kerrisk [Andreas Gruenbacher]
open() honors the S_ISVTX, S_ISUID, and S_ISGID bits in 'mode'
Michael Kerrisk
Tighten wording: use 'mode bit' rather than 'permission bit'
Michael
Kerrisk [NeilBrown]
BUGS: O_CREAT | O_DIRECTORY succeeds if pathname does not exist

poll.2
Michael Kerrisk [Ian Pilcher]
Clarify that signal mask treatment in ppoll() is per-thread
s/sigprocmask()/pthread_sigmask()/
Michael Kerrisk [Sam Varshavchik]
After POLLHUP, EOF will be seen only after all data has been consumed

Michael Kerrisk
Make it clearer which bits are ignored in 'events'

prctl.2
Michael Kerrisk [David Wilcox, Filipe Brandenburger]
Note that "parent" for purposes of PR_SET_DEATHSIG is a *thread*
See https://bugzilla.kernel.org/show_bug.cgi?id=43300

sendfile.2
Michael Kerrisk [Jason Newton]
Note that sendfile does not support O_APPEND for 'out_fd'
See https://bugzilla.kernel.org/show_bug.cgi?id=82841
Michael Kerrisk [Gregor Jasny]
RETURN VALUE: note the possibility of "short sends"
See https://bugzilla.kernel.org/show_bug.cgi?id=97491
Michael Kerrisk [Askar Safin]
Clarify text on 'out_fd' and regular files in Linux 2.4
See https://bugzilla.kernel.org/show_bug.cgi?id=86001

shutdown.2
Michael Kerrisk [Stéphane Aulery]
BUGS: UNIX domain sockets now detect invalid 'how' values
Bug fixed in Linux 3.7.
See https://bugzilla.kernel.org/show_bug.cgi?id=47111

sigaction.2
Michael Kerrisk
Refer the reader to fcntl(2) F_SETSIG for further details on si_fd

stat.2
Jann Horn
Add note about stat() being racy
Andreas Gruenbacher
Improve description of some mode constants
Michael Kerrisk [Andreas Grünbacher]
Remove excessive leading zeros on some constants
Michael Kerrisk
Add text on POSIX terms "file mode bits" and "file permission bits"
Recent changes to various pages employ this distinction.
Michael Kerrisk
Tighten wording: use 'mode bit' rather than 'permission bit'
According
to POSIX, the 9 UGO*RWX bits are permissions, and
'mode' is used to refer to collectively to those bits plus sticky,
set-UID, and set_GID bits.

syslog.2
Michael Kerrisk

SEE ALSO: add dmesg(1)

umask.2
open.2
mknod.2
mkdir.2
  Andreas Gruenbacher
    Explain what default ACLs do
      Explain the effect that default ACLs have (instead of the umask)
      in umask.2. Mention that default ACLs can have an affect in
      open.2, mknod.2, and mkdir.2.

unshare.2
  Michael Kerrisk [Florian Weimer]
    Give the reader a hint that unshare() works on processes or threads
      See https://bugzilla.kernel.org/show_bug.cgi?id=59281

atexit.3
  Zeng Linggang
    ATTRIBUTES: Note function that is thread-safe

bsearch.3
  Zeng Linggang
    ATTRIBUTES: Note function that is thread-safe

cmsg.3
  Michael Kerrisk [Christopher Head]
    Fix error in SCM_RIGHTS code sample
      Remove erroneous second
 initialization of msg.msg_controllen
      in the example code for SCM_RIGHTS.
      See https://bugzilla.kernel.org/show_bug.cgi?id=15952

CPU_SET.3
  Chris Metcalf
    Clarify language about "available" cpus
      The CPU_SET.3 man page uses the adjective "available" when
      explaining what the argument to CPU_SET() means. This is
      confusing, since "available" isn't well-defined. The kernel
      has a set of adjectives (possible, present, online, and active)
      that qualify cpus, but normally none of these are what the
      cpu_set_t bit index means: it's just "which cpu", using the
      kernel's internal numbering system, even if that cpu isn't
      possible or present.

      This change removes the word "available" and adds a sentence
      warning that cpu sets may not be contiguous due to dynamic
      cpu hotplug, etc.

err.3
  Zeng Linggang
    ATTRIBUTES: Note functions
 that are thread-safe

ftw.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

gethostbyname.3
  Carlos O'Donell
    NSS plugins searched first
  Carlos O'Donell
    "order" is obsolete

gethostid.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are/aren't thread-safe

getmntent.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are/aren't thread-safe

get_nprocs_conf.3
  Michael Kerrisk
    Use exit() rather than return in main()

getopt.3
  Michael Kerrisk [Guy Harris]
    Remove crufty BUGS section
      See https://bugzilla.kernel.org/show_bug.cgi?id=90261

iconv_close.3
  Zeng Linggang
    ATTRIBUTES: Note function that is thread-safe

inet_ntop.3
  Zeng Linggang
    ATTRIBUTES: Note function that is thread-safe

longjmp.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

lsearch.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

mcheck.3

  Zeng Linggang
    ATTRIBUTES: Note functions that aren't thread-safe

on_exit.3
  Zeng Linggang
    ATTRIBUTES: Note function that is thread-safe

printf.3
  Michael Kerrisk [Egmont Koblinger]
    Merge dprintf() and vdprintf() discussion into this page
  Michael Kerrisk
    SEE ALSO: add puts(3)
  Michael Kerrisk
    Move return value discussion to proper RETURN VALUE section

putpwent.3
  Zeng Linggang
    ATTRIBUTES: Note function that is thread-safe

qsort.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

regex.3
  Michael Kerrisk [Laurence Gonsalves]
    Fix error in description of 'cflags'
      'cflags' is a bit mask of *zero* (not one) or more flags.

resolver.3
  Stéphane Aulery
    Add info about RES_INSECURE1 and RES_INSECURE2 option in debug mode

scanf.3
  Joern Heissler
    Improve description of %n specifier

setjmp.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

setlocale.3
   Zeng Linggang
    ATTRIBUTES: Note function that isn't thread-safe

setlogmask.3

Zeng Linggang
ATTRIBUTES: Note function that isn't thread-safe

sleep.3
Zeng Linggang
ATTRIBUTES: Note function that isn't thread-safe

strsignal.3
Zeng Linggang
ATTRIBUTES: Note function that isn't thread-safe

sysconf.3
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

undocumented.3
William Woodruff
Remove documented functions

tty_ioctl.4
Michael Kerrisk [Denis Du]
Fix error in code example

proc.5
Michael Kerrisk [Cameron Norman, Vasiliy Kulikov]
Document /proc mount options
Document the 'hidepid' and 'gid' mount options that were added in
Linux 3.3. See https://bugzilla.kernel.org/show_bug.cgi?id=90641
Based on text by Vasiliy Kulikov in
Documentation/filesystems/proc.txt.
Michael Kerrisk [Kirill A. Shutemov]
Improve
description of /proc/PID/status
Guillem Jover
Document /proc/PID/exe behaviour on unlinked pathnames
Michael Kerrisk [Weijie Yang]
Document /proc/PID/status VmPMD

resolv.conf.5
Stéphane Aulery [Thomas Hood]
Document use-vc option added to glibc 2.14
Fix Ubuntu bug #1110781:
https://bugs.launchpad.net/ubuntu/+source/manpages/+bug/1110781
Stéphane Aulery [Thomas Hood]
Document RES_SNGLKUPREOP
Fix Ubuntu bug #1110781:
https://bugs.launchpad.net/ubuntu/+source/manpages/+bug/1110781

tzfile.5
  Sam Varshavchik
    Add various details on version 2 format

aio.7
  Michael Kerrisk
    Add details and update URL for OLS 2003 paper on AIO

bootparam.7
  Michael Kerrisk [Alain Kalker]
    Update discussion of 'debug' option
      See https://bugzilla.kernel.org/show_bug.cgi?id=97161
  Michael Kerrisk
    Summary of multiple changes: remove cruft from this page.

      Much of the detail on hardware specifics in this page dates
      from the 20th century. (The last major update to this page was in
      man-pages-1.14!) It's hugely out of date now (many of these
      devices disappeared from the kernel years ago.) So, I've taken
      a large scythe to the page to remove anything that looks
      seriously dated. In the process, the page has shrunk to less
      than 50% of its previous size.
  Michael Kerrisk
    Remove "buff=" details
      This seems to have gone away in Linux 2.2.
  Michael Kerrisk
    Remove crufty "Mouse drivers" options
  Michael Kerrisk
    Remove crufty "General non-device-specific boot arguments" options
  Michael Kerrisk
    Remove crufty "Hard disks" options
  Michael Kerrisk
    Remove crufty "mem=" details
  Michael Kerrisk
    Remove crufty details on IBM MCA bus devices
  Michael Kerrisk
    Remove 'swap=" details

  This seems to have gone away in Linux 2.2,
  Michael Kerrisk
    Remove crufty floppy disk driver options
      In the specific case of floppy drives: the drivers still
      exist, but it's been a while since most of saw these devices
      in the wild. So, just refer the reader to the kernel source
      file for details. (The detail in this man page was after all
      originally drawn from that file.)
    Remove crufty "ISDN drivers" options
  Michael Kerrisk

Remove crufty "line printer driver" options
Michael Kerrisk
Remove crufty "Serial port drivers" options
Michael Kerrisk
Remove crufty reference to CONFIG_BUGi386
That option disappeared in Linux 2.4.
Michael Kerrisk
Remove crufty text
"bootsetups array" dates from Linux 2.0.
Michael Kerrisk
Remove crufty "Video hardware" options
Michael Kerrisk
Remove crufty SCSI device driver options

fanotify.7
Michael Kerrisk [Heinrich Schuchardt]
Since Linux 3.19, fallocate(2) generates FAN_MODIFY events

inotify.7
Michael Kerrisk [Heinrich Schuchardt]
Since Linux 3.19, fallocate(2) generates IN_MODIFY events

ip.7
Michael Kerrisk
Explain how IP_ADD_MEMBERSHIP determines its argument type
Michael Kerrisk [Jiri Pirko, Magnus REFTEL]
Clarify details of the IP_MULTICAST_IF socket option
Michael Kerrisk [Advait Dixi]
Remove dubious text that says that SO_PRIORITY sets IP TOS
See https://bugzilla.kernel.org/show_bug.cgi?id=35852
Michael Kerrisk
Relocate misplaced text describing ENOPROTOOPT error

packet.7
Graham Shaw
Add sll_protocol to list of required fields for outbound packets

pthreads.7
Michael Kerrisk [KOSAKI Motohiro]
Using thread IDs whose lifetime has expired gives undefined behavior
See https://bugzilla.kernel.org/show_bug.cgi?id=53061

raw.7
Michael Kerrisk
[Tetsuo Handa]
For incoming datagrams, sin_port is set to zero
Michael Kerrisk
Mention sendto(), recvfrom(), and so on when discussing address format

This gives the reader a little context for the following
discussion of 'sin_port'.
Michael Kerrisk
Remove crufty reference to <netinet/in.h>
Michael Kerrisk
Replace reference to RFC 1700 with pointer to IANA protocol number list

signal.7
Michael Kerrisk [Steinar H. Gunderson]
Clarify that I/O operations on disks are not interrupted by signals
See https://bugzilla.kernel.org/show_bug.cgi?id=97721

unix.7
Michael Kerrisk [Christophe Lohr]
Remove mention of UNIX_PATH_MAX
This kernel constant is not exposed to user space.
Michael Kerrisk
Note the 108 bytes for sun_path is how things are done on Linux
And refer the reader to NOTES for discussion of portability.

xattr.7
Michael Kerrisk

Document EA limits for Btrfs
Michael Kerrisk
Document VFS-imposed limits on EAs
VFS imposes a 255-byte limit on EA names, and a 64kB limit on
EA values.
Michael Kerrisk
The ext[234] block limitation applies to sum of all EAs
It is not a per-EA limit.
Michael Kerrisk
Clarify permissions required to work with 'user' EAs
Michael Kerrisk
ext2 and ext3 no longer need mounting with 'user_xattr' for user EAs
Michael Kerrisk
Add various relevant pages to SEE ALSO
Michael Kerrisk
Add CONFORMING TO section
Michael Kerrisk
Modify headings to man-pages norms
Michael Kerrisk
Btrfs also supports extended attributes
Michael Kerrisk
File capabilities are implemented using *security* attributes
Not *system* attributes
Michael Kerrisk
Describe limit on EA values for JFS, XFS, and Reiserfs

Michael Kerrisk
Explicitly mention some
of the xattr system calls in DESCRIPTION
Naming the system calls helps to orient the reader

nscd.8
Michael Kerrisk
Add mention of 'services' and 'netgroup' databases
This makes the page consistent with nscd.conf(5).

========== Changes in man-pages-4.01 ==========

Released: 2015-07-23, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages
---

bpf.2
  Alexei Starovoitov, Michael Kerrisk [Daniel Borkmann]
    New page documenting bpf(2)

__ppc_get_timebase.3
  Tulio Magno Quites Machado Filho
    New page documenting __ppc_get_timebase() and __ppc_get_timebase_freq()
      Glibc 2.16 was released with a new function for the Power
      architecture that can read its Time Base Register.
      Glibc 2.17 adds a function to read the frequency at which the Time
      Base Register of Power processors is updated.

queue.3
  Michael Kerrisk [David Leppik, Doug Klima]
    Reimport from latest FreeBSD page
      Long ago,

Doug Klima noted that many macros were not
documented in the queue(3) page. Fix by reimporting from
latest [1] FreeBSD man page.

[1] Revision 263142, Modified Fri Mar 14 03:07:51 2014 UTC

This also fixes https://sourceware.org/bugzilla/show_bug.cgi?id=1506

This time, I'll learn from past mistakes and not convert
from 'mdoc' to 'man' macros.
Michael Kerrisk
Use subsections in DESCRIPTION
Michael Kerrisk
Remove SEE ALSO reference to nonexistent tree(3)
Michael Kerrisk
Use real hyphens in code samples
Michael Kerrisk
Comment out text for functions not in glibc
Michael Kerrisk
Replace HISTORY with CONFORMING TO

Newly documented interfaces in existing pages
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rename.2
Michael Kerrisk [Miklos Szeredi]
Document RENAME_WHITEOUT
Heavily based on text by Miklos Szeredi.

New and changed links

__ppc_get_timebase_freq.3
Tulio Magno Quites Machado Filho
New link to new __ppc_get_timebase(3) page

LIST_EMPTY.3
LIST_FIRST.3
LIST_FOREACH.3
LIST_HEAD_INITIALIZER.3
LIST_INSERT_BEFORE.3
LIST_NEXT.3
SLIST_EMPTY.3
SLIST_ENTRY.3
SLIST_FIRST.3
SLIST_FOREACH.3

SLIST_HEAD.3
SLIST_HEAD_INITIALIZER.3
SLIST_INIT.3
SLIST_INSERT_AFTER.3
SLIST_INSERT_HEAD.3
SLIST_NEXT.3
SLIST_REMOVE.3
SLIST_REMOVE_HEAD.3
STAILQ_CONCAT.3
STAILQ_EMPTY.3
STAILQ_ENTRY.3
STAILQ_FIRST.3
STAILQ_FOREACH.3
STAILQ_HEAD.3
STAILQ_HEAD_INITIALIZER.3
STAILQ_INIT.3
STAILQ_INSERT_AFTER.3
STAILQ_INSERT_HEAD.3
STAILQ_INSERT_TAIL.3
STAILQ_NEXT.3
STAILQ_REMOVE.3
STAILQ_REMOVE_HEAD.3
TAILQ_CONCAT.3
TAILQ_EMPTY.3
TAILQ_FIRST.3
TAILQ_FOREACH.3
TAILQ_FOREACH_REVERSE.3
TAILQ_HEAD_INITIALIZER.3
TAILQ_INSERT_BEFORE.3
TAILQ_LAST.3
TAILQ_NEXT.3
TAILQ_PREV.3
TAILQ_SWAP.3
  Michael Kerrisk
    New links to queue.3

Global changes

Various pages
  Michael Kerrisk [Andries E. Brouwer]
    Remove "ABI" from "C library/kernel ABI differences" subheadings
      The "ABI" doesn't really convey anything significant in
      the title. These subsections are about describing differences
      between the kernel and (g)libc interfaces.

Changes to individual pages
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intro.1
  Michael Kerrisk [Andries E. Brouwer]
    Drop intro paragraph on '$?' shell variable
      As Andries notes, this piece of text is rather out of place in
      a page that was intended to provide a tutorial introduction for
      beginners logging in on a Linux system.

locale.1
  Marko Myllynen
    A minor output format clarification
      A minor clarification for the locale output format which was
      brought up at
      https://sourceware.org/bugzilla/show_bug.cgi?id=18516.

      For reference, see
      https://sourceware.org/bugzilla/show_bug.cgi?id=18516
      http://pubs.opengroup.org/onlinepubs/9699919799/utilities/locale.html

     Add CONFORMING TO section

capget.2
  Julian Orth
    Clarify that hdrp->pid==0 is equivalent gettid() not getpid()

chroot.2
  Jann Horn
    chroot() is not intended for security; document attack
      It is unfortunate that this discourages this use of chroot(2)
      without pointing out alternative solutions - for example,
      OpenSSH and vsftpd both still rely on chroot(2) for security.

      Bind mounts should theoretically be usable as a replacement, but
      currently, they have a similar problem (CVE-2015-2925) that hasn't
      been fixed in ~6 months, so I'd rather not add it to the manpage
      as a solution before a fix lands.

clock_getres.2
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

eventfd.2
  Zeng Linggang
    ATTRIBUTES: Note function that is thread-safe

execve.2

Michael Kerrisk
Elaborate on envp/argv
as NULL behavior

_exit.2
Michael Kerrisk
Open stdio frames are not flushed, temporary files are deleted
Many years ago, text was added to the page saying that it is
implementation-dependent whether stdio streams are flushed and
whether temporary are removed. In part, this change appears to
be because POSIX.1-2001 added text related to this point.
However, that seems to have been an error in POSIX, and the
text was subsequently removed for POSIX.1-2008. See
https://collaboration.opengroup.org/austin/interps/documents/9984/AI-085.txt
Austin Group Interpretation reference 1003.1-2001 #085

fallocate.2
Namjae Jeon [Michael Kerrisk]
Document FALLOC_FL_INSERT_RANGE
Michael Kerrisk
Since Linux 4.2, ext4 supports FALLOC_FL_INSERT_RANGE

fcntl.2
Michael Kerrisk
OFD locks are proposed for inclusion in the next POSIX revision

getrlimit.2
Zeng
Linggang
ATTRIBUTES: Note functions that are thread-safe

getrusage.2
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

gettid.2
Michael Kerrisk
Note that for a thread group leader, gettid() == getpid()

iopl.2
Michael Kerrisk
Remove some historical libc5 and glibc 1 details
These details are ancient, and long ago ceased to be relevant.

ioprio_set.2
Michael Kerrisk [Jens Axboe]
Document meaning of ioprio==0

mlock.2
  Michael Kerrisk [Mehdi Aqadjani Memar]
    Document another ENOMEM error case
      ENOMEM can occur if locking/unlocking in the middle of a region
      would increase the number of VMAs beyond the system limit (64k).

mmap.2
  Michal Hocko [Eric B Munson]
    Clarify MAP_POPULATE
      David Rientjes has noticed that MAP_POPULATE wording might promise
      much more than the kernel actually provides and intends to provide.
      The primary usage
 of the flag is to pre-fault the range. There is
      no guarantee that no major faults will happen later on. The pages
      might have been reclaimed by the time the process tries to access
      them.
  Michal Hocko [Eric B Munson]
    Clarify MAP_LOCKED semantics
      MAP_LOCKED had a subtly different semantic from mmap(2)+mlock(2)
      since it has been introduced.
      mlock(2) fails if the memory range cannot get populated to
      guarantee that no future major faults will happen on the range.
      mmap(MAP_LOCKED) on the other hand silently succeeds even if
      the range was populated only partially.

      Fixing this subtle difference in the kernel is rather awkward
      because the memory population happens after mm locks have been
      dropped and so the cleanup before returning failure (munlock)
      could operate on something else than the originally mapped area.

   E.g. speculative userspace page fault handler catching SEGV and
      doing mmap(fault_addr, MAP_FIXED|MAP_LOCKED) might discard portion
      of a racing mmap and lead to lost data. Although it is not clear
      whether such a usage would be valid, mmap page doesn't explicitly
      describe requirements for threaded applications so we cannot
      exclude this possibility.

      This patch makes the semantic of MAP_LOCKED explicit and suggests
      using mmap + mlock as the only way to guarantee no later major
      page faults.
  Michael Kerrisk
    ERRORS: point out that ENOMEM can occur even for munmap()

mprotect.2
  Michael Kerrisk
    Note ENOMEM error that can occur when we reach limit on maximum VMAs

open.2
read.2
write.2
  Michael Kerrisk [Mike Hayward]
    Clarify that O_NONBLOCK is a no-op for regular files and block devices

perf_event_open.2
  Vince Weaver [Joerg Roedel]
    Exclude_host/exclude_guest
 clarification
      This patch relates to the exclude_host and exclude_guest bits added
      by the following commit:

        exclude_host, exclude_guest; Linux 3.2
          commit a240f76165e6255384d4bdb8139895fac7988799
          Author: Joerg Roedel <joerg.roedel@amd.com>
          Date: Wed Oct 5 14:01:16 2011 +0200

              perf, core: Introduce attrs to count in either host or guest mode

      The updated manpage text clarifies that the "exclude_host" and
      "exclude_guest" perf_event_open() attr bits only apply in the
      context of a KVM environment and are currently x86 only.
  Vince Weaver
    Document PERF_SAMPLE_REGS_INTR
      This patch relates to the addition of PERF_SAMPLE_REGS_INTR
      support added in the following commit:

        perf_sample_regs_intr; Linux 3.19
        commit 60e2364e60e86e81bc6377f49779779e6120977f

     Author: Stephane Eranian <eranian@google.com>

              perf: Add ability to sample machine state on interrupt

      The primary difference between PERF_SAMPLE_REGS_INTR and the
      existing PERF_SAMPLE_REGS_USER is that the new support will
      return kernel register values. Also if precise_ip is
      set higher than 0 then the PEBS register state will be returned
      rather than the saved interrupt state.

      This patch incorporates feedback from Stephane Eranian and
      Andi Kleen.

prctl.2
seccomp.2
  Michael Kerrisk
    Clarify that SECCOMP_SET_MODE_STRICT disallows exit_group(2)

These days, glibc implements _exit() as a wrapper around
exit_group(2). (When seccomp was originally introduced, this was
not the case.) Give the reader a clue that, despite what glibc is
doing, what SECCOMP_SET_MODE_STRICT permits is the true _exit(2)
system call,
and not exit_group(2).

pread.2
read.2
readv.2
sendfile.2
write.2
Michael Kerrisk
Clarify that Linux limits transfers to a maximum of 0x7ffff000 bytes
See https://bugs.debian.org/629994 and
https://bugs.debian.org/630029.

pread.2
Michael Kerrisk
Rewrite RETURN VALUE section
(Also drop the text on pwrite() returning zero; that seems bogus.)

ptrace.2
Michael Kerrisk [Vegard Nossum]
PTRACE_O_TRACEEXIT clarification

readv.2
Michael Kerrisk
Remove BUGS heading
The text on mixing I/O syscalls and stdio is a general point
of behavior. It's not a bug as such.

recv.2
send.2
Michael Kerrisk
Explain some subtleties of MSG_DONTWAIT versus O_NONBLOCK

rename.2
Michael Kerrisk
Michael Kerrisk
Note that RENAME_NOREPLACE can't be employed with RENAME_EXCHANGE

sched_setaffinity.2
Michael Kerrisk
Add an example program
Michael Kerrisk [Florian Weimer]
Explain how to deal with 1024-CPU limitation of glibc's cpu_set_t type
Michael Kerrisk

Mention the use of the 'isolcpus' kernel boot option

sched_setattr.2
Julian Orth
Remove a const attribute
The attr argument of sched_setattr was documented as const but the kernel will modify the size field of this struct if it contains an invalid value. See the documentation of the size field for details.

seccomp.2
Michael Kerrisk
SEE ALSO: add bpf(2)

send.2
Michael Kerrisk
Expand on subtleties of MSG_NOSIGNAL versus ignoring SIGPIPE

sigaltstack.2
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

socket.2
Stephan Mueller
Update documentation reference for AF_ALG

truncate.2
Michael Kerrisk
ERRORS: ftruncate() can fail if the file descriptor is not writable

utimensat.2
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

After research, We think utimensat() and futimens() are thread-safe.
But, there are not markings of utimensat() and futimens() in glibc document.

clearenv.3
Zeng Linggang
ATTRIBUTES: Note function that is not thread-safe

dl_iterate_phdr.3
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

error.3
Zeng Linggang
ATTRIBUTES: Note functions that are/aren't thread-safe

fexecve.3
  Zeng Linggang
    ATTRIBUTES: Note function that is thread-safe

fpurge.3
  Zeng Linggang
    ATTRIBUTES: Note function that is thread-safe

fread.3
  Andries E. Brouwer
    Clarify terminology
      In the "RETURN VALUE" section the word item is in italics
      as if it were one of the function parameters. But the word
      "item" occurs here for the first time, earlier the text
      uses "element". [Patch improves this.]

fts.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are/aren't
 thread-safe

getaddrinfo.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

getaddrinfo_a.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

getauxval.3
  Michael Kerrisk
    File capabilities also trigger AT_SECURE
  Michael Kerrisk
    (Briefly) document AT_HWCAP2

getgrent_r.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are/aren't thread-safe

gethostbyname.3
  Michael Kerrisk [Laszlo Ersek]
    Remove mention of IPv6 addresses, which are not supported
      As reported by Laszlo Ersek:

        gethostbyname(3) fails to resolve the IPv6 address "::1",
        but the manual page says: "If name is an IPv4 or IPv6 address,
        no lookup is performed and gethostbyname() simply copies name

into the h_name field [...]".

Debian bug report:
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=455762

glibc bug
report:
http://sourceware.org/bugzilla/show_bug.cgi?id=5479

SUSv3 link for gethostbyname(3):
http://www.opengroup.org/onlinepubs/000095399/functions/gethostbyname.html

It seems that the glibc behavior is conformant, and the manual
page is in error.

getifaddrs.3
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

getnameinfo.3
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

getnetent_r.3
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

getprotoent.3
Zeng Linggang
ATTRIBUTES: Note functions that aren't thread-safe

getprotoent_r.3
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

getpw.3
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

getpwent_r.3
Zeng Linggang
ATTRIBUTES: Note functions that are/aren't thread-safe

getrpcent.3
Zeng Linggang
ATTRIBUTES:
Note functions that are/aren't thread-safe

getrpcent_r.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

getrpcport.3
  Zeng Linggang
    ATTRIBUTES: Note function that is thread-safe

getservent.3
  Zeng Linggang
    ATTRIBUTES: Note functions that aren't thread-safe

getservent_r.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

gsignal.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

key_setsecret.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

malloc_get_state.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

malloc_info.3
  Zeng Linggang
    ATTRIBUTES: Note function that is thread-safe

malloc_stats.3
  Zeng Linggang
    ATTRIBUTES: Note function that is thread-safe

malloc_trim.3
  Zeng Linggang
    ATTRIBUTES: Note function that is thread-safe

MB_LEN_MAX.3
  Michael Kerrisk
    Clarify meaning of MB_LEN_MAX
   Michael Kerrisk [Pádraig Brady]
    MB_LEN_MAX is 16 in modern glibc versions

memcpy.3
  Michael Kerrisk

NOTES: describe the glibc 2.13 changes that revealed buggy applications
Adding a note on this point seems worthwhile as a way of
emphasizing the point that the buffers must not overlap.

mq_notify.3
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

perror.3
Michael Kerrisk
Some wording improvements and clarifications

profil.3
Zeng Linggang
ATTRIBUTES: Note function that is not thread-safe

psignal.3
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

pthread_attr_init.3
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe
Michael Kerrisk
Use "%zd" for printing size_t in example code

pthread_attr_setaffinity_np.3
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

pthread_cancel.3
Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

pthread_cleanup_push.3
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

pthread_create.3
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

pthread_detach.3
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

pthread_getattr_np.3

Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

pthread_join.3
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

pthread_setname_np.3
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

pthread_tryjoin_np.3
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

putgrent.3
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

rcmd.3
Zeng Linggang
ATTRIBUTES: Note functions that are/aren't thread-safe

resolver.3
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

rpc.3
Zeng Linggang
ATTRIBUTES:
Note functions that are thread-safe

rpmatch.3
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

sem_close.3
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

sem_open.3
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

setaliasent.3
Zeng Linggang
ATTRIBUTES: Note functions that are/aren't thread-safe

setlocale.3
  Marko Myllynen
    Update CONFORMING TO
      http://pubs.opengroup.org/onlinepubs/9699919799/functions/setlocale.html

setlocale.3
  Marko Myllynen
    Tweak C/POSIX locale portability description
      As discussed earlier, the current description might be a little
      bit too stringent, let's avoid the issue by describing the
      portability aspect on a slightly higher level.

      References:

      http://pubs.opengroup.org/onlinepubs/9699919799/basedefs/V1_chap06.html
      http://pubs.opengroup.org/onlinepubs/9699919799/basedefs/V1_chap07.html
       http://pubs.opengroup.org/onlinepubs/9699919799/functions/setlocale.html

shm_open.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

strfmon.3
  Marko Myllynen
    Document strfmon_l(3)
      Describe strfmon_l(3).

      http://pubs.opengroup.org/onlinepubs/9699919799/functions/strfmon.html
  Marko Myllynen
    Fix CONFORMING TO
      AFAICS strfmon(3) is now defined in POSIX and the glibc
      implementation is as specified there.

      http://pubs.opengroup.org/onlinepubs/9699919799/functions/strfmon.html
  Marko Myllynen
    Rewrite the example
      I think the example is more accurate when we use the exact
      locale names and also the Euro sign where appropriate.

xcrypt.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

xdr.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are thread-safe

console_codes.4

Scot Doyle [Pavel
Machek, Michael Kerrisk]
Add CSI sequence for cursor blink interval
Add a Console Private CSI sequence to specify the current
console's cursor blink interval. The interval is specified
as a number of milliseconds until the next cursor display
state toggle, from 50 to 65535.

null.4
Michael Kerrisk
Note that reads from /dev/zero are interruptible since Linux 2.6.31

core.5
Michael Kerrisk
Mention 'coredump_filter' boot option

host.conf.5
Michael Kerrisk
Wording fix: s/resolv+/the resolver library/
The term "resolv+" seems to be historical cruft.

hosts.equiv.5
Carlos O'Donell
Fix format, clarify IdM needs, and provide examples.
In some recent work with a Red Hat customer I had the opportunity
to discuss the fine nuances of the ruserok() function and related
API which are used to implement rlogin and rsh.

It came to my
attention after working with QE on some automated
internal testing that there were no good examples in the hosts.equiv
manual page showing how the format was supposed to work for this
file and for ~/.rhosts, worse the "format" line showed that there
should be spaces between arguments when that would clearly lead
to incorrect behaviour. In addition some things that the format
allows you to write are just wrong like "-host -user" which makes
no sense since the host is already rejected, and should be written
as "host -user" instead. I added notes in the example to make it
clear that "-host -user" is invalid.

I fixed three things:

(a) The format line.
- Either +, or [-]hostname, or +@netgrp or -@netgrp.
- Either +, or [-]username, or +@netgrp or -@netgrp.
- You must specify something in the hostname portion so remove

optional brackets.

(b) Clarify language around credentials
- If the host is not trusted you must provide credentials to
the login system and that could be anything really and it
depends on your configuration e.g. PAM or whatever IdM you have.

(c) Provide real-world examples
- Provide several real world examples and some corner case
examples for how you would write something. Hopefully others
can add examples as they see fit.

Michael Kerrisk [Carlos O'Donell, Arjun Shankar]
Improve explanation in EXAMPLE

locale.5
Marko Myllynen
Document map to_inpunct, map to_outpunct
See e.g. fa_IR for reference.
Marko Myllynen
Document class in LC_CTYPE
See e.g. the locale zh_CN and

http://en.cppreference.com/w/cpp/string/wide/towctrans
http://en.cppreference.com/w/cpp/string/wide/wctrans
Marko Myllynen
Add iconv(1) reference
Marko Myllynen
Document character transliteration
See e.g. da_DK for reference.

(Not sure should we actually provide an example here?)
Marko Myllynen
Document era keywords
This patch completes the LC_TIME section - since these era
keywords are so tightly coupled, I'm providing them as a
single patch.

Based on
http://pubs.opengroup.org/onlinepubs/009695399/basedefs/xbd_chap07.html
http://www.open-std.org/jtc1/SC22/WG20/docs/n972-14652ft.pdf
Marko Myllynen
Document default_missing
Marko Myllynen
Document outdigit and alt_digits
See e.g. fa_IR for reference.
Marko Myllynen
Refer to locale(7) more prominently
It's probably a good idea to refer to locale(7) so that a reader

can check what a category is about before describing them in
detail.
Marko Myllynen
Document charclass and charconv
See e.g. the locales ja_JP and ko_KR and

http://en.cppreference.com/w/cpp/string/wide/towctrans
http://en.cppreference.com/w/cpp/string/wide/wctrans
Marko Myllynen
Copy is not exclusive in LC_CTYPE and LC_COLLATE
See e.g. da_DK for reference.
Marko Myllynen
Remove the FIXME for timezone
The timezone of LC_TIME is not in POSIX, only 6 (out of ~300)
glibc locales define it, the glibc code comment below from
glibc.git/programs/ld-time.c seems to suggest it's not a good
idea, and there's been a proposal in upstream [1] to remove the
existing timezone definitions from glibc locales so I think
it's actually better to leave this one undocumented:

/* XXX We don't perform any tests on the timezone value since this is
simply useless, stupid $&$!@... */

1) https://sourceware.org/ml/libc-alpha/2015-06/msg00098.html

Move the remaining LC_COLLATE FIXMEs together while at it.
Marko Myllynen
Fix country_isbn format
Both plain numbers and Unicode code points are used in
glibc locales but checking the code reveals that country_isbn
is handled like the rest of its category expect for country_num
which was clarified earlier.
Marko Myllynen
Sort according to the standard
Sort the options so that those defined in POSIX are listed first,
then followed by those defined in ISO/IEC TR 14652 in the order
of common convention in many widely used glibc locales.

Actual descriptions are unchanged.

http://pubs.opengroup.org/onlinepubs/9699919799/basedefs/V1_chap07.html
Marko Myllynen
Refer to strftime(3) where appropriate
The relationship between the locale time format syntax
and strftime()
cannot be considered as obvious.
Marko Myllynen
Document map "totitle"

See e.g. locales/i18n for reference.
Michael Kerrisk [Marko Myllynen]
Remove BUGS section saying man page is not complete
To some degree, this is true of many pages. And anyway, this
page is much better after recent work by Marko.

proc.5
Michael Kerrisk
List /proc/vmstat fields
Michael Kerrisk
Tweak /proc/vmstat text
Michael Kerrisk
Add /proc/crypto entry with a pointer to further information
Michael Kerrisk [Kees Cook]
Document /proc/sys/kernel/sysctl_writes_strict
Based on text in Documentation/sysctl/kernel.txt.
Michael Kerrisk
Move misordered /proc/[pid]/timers entry
Michael Kerrisk
Refer to bpf(2) for explanation of /proc/sys/net/core/bpf_jit_enable

repertoiremap.5
Marko Myllynen
Symbolic names AKA mnemonics
A long time ago in glibc, repertoire
maps were used (but they
were removed already in 2000), those mapping files were named
as mnemonics, so "mnemonic" is a term that would almost
certainly come up if somebody studies glibc side (perhaps even
the related standards like ISO 9945 [which I don't have access
to]) so I thought it's worth to mention to term in the man page
to make sure we're talking about the same thing, otherwise
someone might wonder is that something different or not.

IOW, symbolic names and mnemonics are often used interchangeably,
let's mention the other often used term in the page, too.

capabilities.7
Michael Kerrisk
CAP_SYS_ADMIN allows calling bpf(2)

locale.7
Marko Myllynen
LC_CTYPE determines transliteration rules on glibc systems

packet.7
[Cortland Setlow]
Fix description of binding a packet socket to an interface

pty.7
  NeilBrown [Peter Hurley]
    Clarify asynchronous nature of PTY I/O
      A PTY is not like a pipe - there may be delayed between data
      being written at one end and it being available at the other.

      This became particularly apparent after
          commit f95499c3030f
        ("n_tty: Don't wait for buffer work in read() loop")
      in Linux 3.12

      See also the mail thread at https://lkml.org/lkml/2015/5/1/35
        Date   Mon, 04 May 2015 12:32:04 -0400
        From   Peter Hurley <>
        Subject Re: [PATCH bisected regression] input_available_p()
                sometimes says 'no' when it should say 'yes'

rtld-audit.7
  Ben Woodard
    Use correct printf() specifier for pointer types
      In the example code you used %x rather than %p in the example
      code for an audit library. The problem is that it truncates the
      pointers on 64b platforms. So you get something
like:

      la_symbind64(): symname = strrchr sym->st_value = 0x7f4b8a3f8960
      ndx = 222 flags = 0x0 refcook = 8b53e5c8 defcook = 8b537e30

      rather than:

      la_symbind64(): symname = fclose sym->st_value = 0x7fa452dd49b0
      ndx = 1135 flags = 0x0 refcook = 0x7fa453f395c8 defcook = 0x7fa453f32e30

      This has bitten me a handful of times when playing around with
      audit test libraries to investigate its behavior.

sched.7
  Michael Kerrisk
    Remove ancient, wildly optimistic prediction about future of RT patches
      It seems the patches were not merged by 2.6.30...

socket.7
  Michael Kerrisk
    SEE ALSO: add bpf(2)

vdso.7
  Nathan Lynch [Mike Frysinger]

Update for ARM

The 32-bit ARM architecture in Linux has gained a vDSO as of the
4.1 release. (I was the primary author.)

Document the symbols exported by the ARM VDSO.

Accepted kernel submission:
http://lists.infradead.org/pipermail/linux-arm-kernel/2015-March/332573.html

========== Changes in man-pages-4.02 ==========

Released: 2015-08-08, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

dladdr.3

Michael Kerrisk
New page documenting dladdr() and dladdr1()
Relocate/rewrite dladdr() text formerly contained in dlopen(3).

Add documentation of dladdr1().
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

dlerror.3
Michael Kerrisk
Migrate dlerror(3) to new separate man page
Michael Kerrisk
Note that the returned message may be in a statically allocated buffer
Michael Kerrisk
Note that the returned string does not include a trailing newline
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

dlinfo.3
Michael Kerrisk
New page describing dlinfo(3)
Zeng Linggang
ATTRIBUTES: Note function that is thread-safe

dlopen.3
Michael Kerrisk
This page was substantially rewritten and
enhanced. Notably:
* the dladdr(), dlsym, dlvsym(), and dlerror() content were moved
to separate new pages;
* documentation for dlmopen was added;
* and other changes as noted below.
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe
Michael Kerrisk
Move atexit() discussion under "Initialization and Finalization"
Michael Kerrisk
Move discussion of _init() and _fini() to NOTES
Michael Kerrisk
Rework the discussion of initialization and finalization functions
Deemphasize the obsolete _init/_fini and give more prominence
to gcc constructors/destructors.
Michael Kerrisk
dlclose() will unload the object when all references have been released
Michael Kerrisk
EXAMPLE: Remove mention of "-rdynamic"
That option isn't needed for compiling and running this program.
Michael Kerrisk

Remove reference to ld.so info page
The command
"info ld.so" simply shows the man page...
Michael Kerrisk
Add VERSIONS section
Michael Kerrisk
Reorganize conformance information for 'flags'

dlsysm.3
Michael Kerrisk
Move dlsym() and dlvsym() content to new separate page
Zeng Linggang
ATTRIBUTES: Note functions that are thread-safe

Newly documented interfaces in existing pages
---

dlopen.3
Michael Kerrisk, Carlos O'Donell
Document dlmopen(3)

nl_langinfo.3
Sam Varshavchik, Michael Kerrisk
Add documentation for nl_langinfo_l(3)

__ppc_set_ppr_med.3
Gabriel F. T. Gomes
Document PPC functions providing access to PPR
GNU C Library 2.18 adds functions (__ppc_set_ppr_low(3),
__ppc_set_ppr_med(3), __ppc_set_ppr_med_low(3)) that provide
access to the Program Priority Register (PPR).

__ppc_yield.3
Gabriel F. T. Gomes
Document PPC performance-hint functions

GNU C Library 2.18 adds functions __ppc_yield(3), __ppc_mdoio(3),
and __ppc_mdoom(3) that can be used provide a hint that
performance could be improved if shared resources are released
for use by other processors.

New and changed links
---

dladdr1.3
Michael Kerrisk

New link to (new) dladdr(3) page

dlmopen.3
  Michael Kerrisk
    New link to dlopen.3

dlvsym.3
  Michael Kerrisk
    Adjust link to point to new self-contained dlsym(3) page

nl_langinfo_l.3
  Michael Kerrisk
    New link to nl_langinfo.3

__ppc_mdoio.3
  Gabriel F. T. Gomes
    New link to __ppc_yield.3

__ppc_mdoom.3
  Gabriel F. T. Gomes
    New link to __ppc_yield.3

__ppc_set_ppr_low.3
  Gabriel F. T. Gomes
    New link to __ppc_set_ppr_med.3

__ppc_set_ppr_med_low.3
  Gabriel F. T. Gomes
    New link to __ppc_set_ppr_med.3

Global changes

Very many pages
  Michael Kerrisk
    Update
 CONFORMING TO section to reflect POSIX.1-2001 and POSIX.1-2008
    details. (By now, I believe all pages should be up to date with
    respect to appropriately mentioning POSIX.1-2001 and POSIX.1-2008.)

ldd.1
sprof.1
execve.2
dlopen.3
ld.so.8
  Michael Kerrisk
    Prefer "shared object" over "shared library"

The man pages variously use "shared library" or "shared object".
Try to more consistently use one term ("shared object"), while
also pointing out on a few pages that the terms are synonymous.

Changes to individual pages
---

accept.2
  Michael Kerrisk
    Add mention of POSIX.1-2008 regarding EAGAIN vs EWOULDBLOCK

bpf.2
  Daniel Borkmann
    Various updates/follow-ups to address some fixmes
      A couple of follow-ups to the bpf(2) man-page, besides others:

       * Description of map data types
       * Explanation on eBPF tail calls and program arrays
       *
 Paragraph on tc holding ref of the eBPF program in the kernel
       * Updated ASCII image with tc ingress and egress invocations
       * __sync_fetch_and_add() and example usage mentioned on arrays
       * minor reword on the licensing and other minor fixups

execve.2
  Michael Kerrisk
    Reword text on POSIX and #!

io_getevents.2
  Michael Kerrisk
    Note return value on interruption by a signal handler
  Michael Kerrisk
    Clarify details of return value for timeout-expired case
  Michael Kerrisk
    Clarify and extend discussion of 'timeout' argument

mmap.2
  Michael Kerrisk
    Note that 'length' need not be a page-size multiple for munmap()
  Michael Kerrisk [David Rientjes, David Rientjes, Mike Kravetz]
    Describe mmap()/munmap() argument requirements for huge-page mappings
  Michael Kerrisk
    Move discussion of timestamps to NOTES
      A straight move; no changes to the content.
      This content
 is better placed in NOTES.

seccomp.2
  Michael Kerrisk
    SEE ALSO: mention libseccomp pages
    SEE ALSO: add scmp_sys_resolver(1)

sigaction.2
  Michael Kerrisk
    Correct the list of flags that were added in POSIX.1-2001

socketpair.2
  Michael Kerrisk [Goswin von Brederlow]
    Clarify use of SOCK_* flags in 'type' argument
      See http://bugs.debian.org/794217

atexit.3
  Michael Kerrisk
    SEE ALSO: add dlopen(3)

clock_getcpuclockid.3
  Michael Kerrisk
    Improve wording of EPERM error
      It's imprecise to say that this is an "optional" error
      in POSIX.1.

dl_iterate_phdr.3
  Michael Kerrisk
    Note that 'size' allows callback() to discover structure extensions
  Michael Kerrisk
    SEE ALSO: add dladdr(3)
  Michael Kerrisk
    CONFORMING TO: note that this function appears on some other systems

fseeko.3
  Michael Kerrisk
    Remove crufty NOTES section
      This ancient System
 V detail is unneeded.

getutent.3
  Michael Kerrisk
    Mention POSIX.1-2008 for the "utmpx" functions

iconv_close.3
iconv_open.3
  Michael Kerrisk
    CONFORMING TO: change "UNIX98" to "SUSv2"

malloc.3

Michael Kerrisk
Change "UNIX 98" to "SUSv2"

mktemp.3
Gleb Fotengauer-Malinovskiy
Reference mkdtemp(3) in addition to mkstemp(3)
Mention mkdtemp(3) as another secure alternative to mktemp(3).

See also https://sourceware.org/bugzilla/show_bug.cgi?id=2898.

mq_receive.3
mq_send.3
Michael Kerrisk
Clarify discussion of 'timeout'
In particular, remove the word 'ceiling', which falsely
suggests that the call might return prematurely.

nl_langinfo.3
Michael Kerrisk
Explicitly describe the return value on success
Michael Kerrisk
POSIX specifies that the caller may not modify the returned string
Michael Kerrisk
Enhance RETURN VALUE description
Note
some further cases where returned string may be
invalidated or overwritten.

perror.3
Michael Kerrisk
Reformat CONFORMING to information
Michael Kerrisk
Note that 'sys_errlist' and 'sys_nerr' are not in POSIX.1

posix_openpt.3
Michael Kerrisk
Reword text regarding systems that don't have posix_openpt()

printf.3
Michael Kerrisk
CONFORMING TO: update details for dprintf() and vdprintf()

setlogmask.3
Michael Kerrisk
Remove useless statement in CONFORMING TO
Saying that the description in PSOX.1-2001 is flawed,
without saying what the fla is, is not helpful.
(And no, I don't know what the flaw is.)

shm_open.3
  Michael Kerrisk
    Add POSIX.1-2008 details regarding group ID of new shared memory object

strfmon.3
  Michael Kerrisk
    Fix erroneous CONFORMING to
      strfmon() is in POSIX.1.

fanotify.7
  Heinrich Schuchardt
    Clarify effects of file moves
      If files or directories are moved to other mounts, the inode is
      deleted. Fanotify marks are lost.

mq_overview.7
  Michael Kerrisk
    Remove unneeded CONFORMING TO section

nptl.7
  Michael Kerrisk [Nicholas Miell]
    Note that i386 and x86-64 binaries can't share mutexes

sched.7
  Nikola Forró
    Fix descriptions of sched_get_priority_max() / sched_get_priority_min()

sem_overview.7
  Michael Kerrisk
    Remove unneeded CONFORMING TO section

shm_overview.7
  Michael Kerrisk
    Remove unneeded CONFORMING TO section

sigevent.7
  Michael Kerrisk
    Remove unneeded CONFORMING TO section

symlink.7
  Michael Kerrisk
    Update with POSIX.1-2008 details for link(2)

ld.so.8
  Michael Kerrisk [Jonathan David Amery]
    Items in LD_LIBRARY_PATH can also be delimited by semicolons
      See http://bugs.debian.org/794559.

========== Changes in man-pages-4.03 ==========

Released: 2015-12-05,
Munich

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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

perf_event_open.2
  Vince Weaver
    4.1 adds AUX sample support
  Vince Weaver
    4.1 data_offset and data_size fields
  Vince Weaver
 [Alexander Shishkin]
    Document aux_{head,tail,offset,size} support
  Vince Weaver
    4.0 update rdpmc documentation
  Vince Weaver
    4.1 adds PERF_RECORD_ITRACE_START
  Vince Weaver
    Document 4.1 clockid support
  Vince Weaver [Steven Rostedt, Masami Hiramatsu]
    4.1 PERF_EVENT_IOC_SET_BPF support
  Vince Weaver
    4.1 adds AUX_FLAG_OVERWRITE support
  Vince Weaver
    4.1 PERF_SAMPLE_BRANCH_CALL_STACK
  Vince Weaver
    4.1 adds aux_watermark
  Vince Weaver
    Add possibility of EBUSY error

prctl.2
  Andy Lutomirski [Kees Cook, Serge Hallyn]
    Document operations for ambient capabilities
  Michael Kerrisk
    Rework PR_CAP_AMBIENT text
    Note that arg4 and arg5 must be zero for CAP_AMBIENT
    RETURN VALUE: Add PR_CAP_AMBIENT + PR_CAP_AMBIENT_IS_SET case
    ERRORS: document PR_CAP_AMBIENT error cases

__ppc_set_ppr_med.3
  Gabriel F. T. Gomes
    Document PPC functions providing
 access to PPR
      GNU C Library commit 1747fcda4902a3b46183d93fb16ed9b436b2608b
      extends the priorities that can be set to the Program Priority
      Register (PPR), with the functions: __ppc_set_ppr_very_low(3)
      and __ppc_set_ppr_med_high(3).

capabilities.7
  Andy Lutomirski [Kees Cook, Serge Hallyn]
    Document ambient capabilities
  Michael Kerrisk
    Various additions and reworkings for ambient capability text

New and changed links

__ppc_set_ppr_med_high.3
  Gabriel F. T. Gomes
    New link to __ppc_set_ppr_med.3

__ppc_set_ppr_very_low.3
  Gabriel F. T. Gomes
    New link to __ppc_set_ppr_med.3

Changes to individual pages
---

mremap.2
  Eric B Munson [Michal Hocko]
    Add note about mremap() with locked areas
      When mremap() is used to move or expand a mapping that is locked
      with mlock() or equivalent it will attempt to populate the new
       area. However, like mmap(MAP_LOCKED), mremap() will not fail if
      the area cannot be populated. Also like mmap(MAP_LOCKED) this
      might come as a surprise to users and should be noted.
open.2
  Michael Kerrisk [David Drysdale]
    Remove accidental mention of O_TTY_INIT
      An earlier edit mentioned O_TTY_INIT as a file creation flag.
      That's true, according POSIX, but Linux does not implement
      this flag, so remove mention of it.

pipe.2
  Michael Kerrisk

SEE ALSO: add splice(2)

prctl.2
Michael Kerrisk
Reorder options alphabetically
Employ a pseudo-alphabetical order, ordering options after removal
of any "PR_", "PR_SET_", or "PR_GET" prefix.
Michael Kerrisk
Fix alphabetical misplacements in ERRORS

ptrace.2
Tycho Andersen
Document PTRACE_O_SUSPEND_SECCOMP flag
Michael Kerrisk
Document /proc/sys/kernel/yama/ptrace_scope
Michael Kerrisk
Note that PTRACE_ATTACH cannot be applied to nondumpable processes
Michael Kerrisk
SEE ALSO: add prctl(2)

reboot.2
Casper Ti. Vector
1-argument reboot() is also provided by alternative libc

seccomp.2
Michael Kerrisk
Describe use of 'instruction_pointer' data field
Michael Kerrisk [Kees Cook]
Note why all filters in a set are executed even after SECCOMP_RET_KILL

signalfd.2
Michael Kerrisk
Describe semantics with respect to SCM_RIGHTS

syscalls.2
Michael Kerrisk
Add mlock(2)
Michael Kerrisk
Add userfaultfd()

daemon.3
Michael Kerrisk [Johannes Stüttgen]
Note that daemon() is buggy with respect to controlling tty acquisition

dirfd.3
Jonathan Wakely
Remove outdated NOTES
As stated in the SYNOPSIS, since glibc 2.10 this function is also

declared by the relevant X/Open and POSIX macros.

dlopen.3
  Michael Kerrisk
    Make it more explicit
 that LD_BIND_NOW overrides RTLD_LAZY
  Michael Kerrisk [Florian Weimer]
    Correct the pathname used in EXAMPLE
      Quoting Florian:

        This does not work because libm.so can be a linker script:

            handle = dlopen("libm.so", RTLD_LAZY);

        The proper way to do this is to include <gnu/lib-names.h>
        and use LIBM_SO.

      See https://bugzilla.kernel.org/show_bug.cgi?id=108821
  Michael Kerrisk
    Include a shell session showing build/run in EXAMPLE
  Michael Kerrisk
    Change arguments to main() to "void" in EXAMPLE

fgetgrent.3
  Zeng Linggang
    ATTRIBUTES: Note function that is not thread-safe

fgetpwent.3
  Zeng Linggang
    ATTRIBUTES: Note function that is not thread-safe

getauxval.3
  Michael Kerrisk
    Add some details for AT_SECURE

getspnam.3
  Zeng Linggang
    ATTRIBUTES: Note functions that are/aren't thread-safe

mallinfo.3
  Zeng Linggang
     ATTRIBUTES: Note function that is not thread-safe

mallopt.3
  Carlos O'Donell
    Document M_ARENA_TEST and M_ARENA_MAX

posix_fallocate.3

Michael Kerrisk
Clarify text relating to MT-safety
Carlos O'Donell
Mention glibc emulation caveats

termios.3
Olivier TARTROU
Add missing details on behaviour of PARMRK
For a serial terminal, with a specific configuration, input bytes
with value 0377 are passed to the program as two bytes, 0377 0377.

tty_ioctl.4
Michael Kerrisk [Peter Hurley]
Note that TIOCTTYGSTRUCT went away in Linux 2.5.67

core.5
Ross Zwisler
Add info about DAX coredump filtering flags
Kernel 4.4 added two new core dump filtering flags,
MMF_DUMP_DAX_PRIVATE and MMF_DUMP_DAX_SHARED.

These flags allow us to explicitly filter DAX mappings.
This is desirable because DAX mappings, like hugetlb
mappings, have the potential to
be very large.

nsswitch.conf.5
Nikola Forró
Add list of files being read when "files" service is used
This is not mentioned anywhere. Users can assume that the file
being read is something like /etc/$DATABASE, but that's not
always the case. It's better to explicitly specify which
file is read for each respective database. The list of
files was acquired from glibc source code.

proc.5
Heinrich Schuchardt [Michael Kerrisk]
Add details for threads-max
Add detail information for threads-max.
The checks for minimum and maximum values exist since kernel 4.1.
https://lkml.org/lkml/2015/3/15/96
Heinrich Schuchardt
/proc/sys: Describe whitespace characters
Michael Kerrisk
Document 'CapAmb' in /proc/PID/status
Michael Kerrisk
Add reference to ptrace(2) for /proc/sys/kernel/yama/ptrace_scope

aio.7
  Michael Kerrisk [Meikun Wang]

  Add missing include file, <fcntl.h>, to example program

mq_overview.7
  Michael Kerrisk [Arto Bendiken]
    Document QSIZE bug that appeared in 3.5 and was fixed in 4.2

path_resolution.7
  Michael Kerrisk
    Clarify recursive resolution of symlinks and note limits

pipe.7
  Michael Kerrisk
    SEE ALSO: add splice(2)

rtld-audit.7
  Namhyung Kim
    Fix (typo) error in la_pltenter() description
      s/la_pltenter()/la_pltexit()/

      la_pltenter() is called regardless of the value of
      framesizep but la_pltexit() is called only if la_pltenter()
      returns with non-zero framesizep set. I spent long time to
      figure out why la_pltexit() is not called at all.

signal.7
  Michael Kerrisk [Michael Hocko]
    Note async-signal-safe functions added by POSIX.1-2008 TC1

tcp.7
  Daniel Borkmann [Michael Kerrisk]
    Improve paragraphs on tcp_ecn and add tcp_ecn_fallback bullet
      Improve description
 of tcp_ecn, fix the RFC number and it's
      not a boolean anymore since long time, and add a description
      for tcp_ecn_fallback.

      See also kernel doc under Documentation/networking/ip-sysctl.txt
      on tcp_ecn and tcp_ecn_fallback.

ld.so.8
  Michael Kerrisk
    LD_POINTER_GUARD has been removed in glibc 2.23
  Michael Kerrisk
    Describe secure-execution mode
  Michael Kerrisk [Maria Guseva]

Replace mentions of set-UID/set-GID programs with secure-execution mode
Inspired by a patch from Maria Guseva.
Maria Guseva [Silvan Jegen]
LD_DEBUG is effective in secure-execution mode if /etc/suid-debug exists

========== Changes in man-pages-4.04 ==========

Released: 2015-12-29, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

futex.2
  Michael Kerrisk, Thomas Gleixner, Torvald Riegel [Davidlohr Bueso, Heinrich Schuchardt, Darren Hart, Rusty Russell, Pavel Machek, Rich Felker]
    Rewrite and massively expand page

membarrier.2
  Mathieu Desnoyers [Michael Kerrisk]
    New page documenting membarrier() system call

Newly documented interfaces in existing pages
---

mlock.2
  Eric B Munson [Michal Hocko, Vlastimil Babka, Michael Kerrisk]
    Document mlock2(2) and MCL_ONFAULT

New and changed links
---

mlock2.2
  Eric B Munson
    New link to mlock.2

Global changes

Various pages
  Michael Kerrisk
    ERRORS: standardize
 text for EMFILE error

Various pages
  Michael Kerrisk
    ERRORS: standardize error text for ENOTSOCK error

Various pages
  Michael Kerrisk
    ERRORS: standardize text for ENFILE error

Changes to individual pages
---

clock_getres.2
  Michael Kerrisk
    SEE ALSO: add vdso(7)

epoll_create.2
  Michael Kerrisk
    ERRORS: add another EMFILE error case

fanotify_init.2
  Michael Kerrisk
    ERRORS: add an EMFILE error case

fork.2
  Michael Kerrisk
    Child of MT-process is restricted to async-signal-safe functions

getcpu.2
  Michael Kerrisk
    SEE ALSO: add vdso(7)

getrlimit.2
  Michael Kerrisk [Lennart Poettering]
    The init of measurement for RLIMIT_RSS is bytes, not pages

get_robust_list.2
  Michael Kerrisk
    Reword EINVAL error text

gettimeofday.2
  Carlos O'Donell
    Expand on the historical meaning of tz_dsttime
  Michael Kerrisk
    SEE ALSO: add vdso(7)

inotify_init.2

Michael Kerrisk
ERRORS: add an EMFILE error case

personality.2
Dmitry V. Levin
Note kernel and glibc versions that introduced this system call

poll.2
Richard Voigt
timeout_ts is a pointer, so use -> not . for member access
Michael Kerrisk
Shorten name of timeout argument for ppoll()
The name is overly long, and does not hint at the fact
that this argument is a pointer. Fix this by renaming:
s/timeout_ts/tmo_p/

sendfile.2
Laurent Georget
Document more ERRORS

sigreturn.2
Michael Kerrisk
SEE ALSO: add vdso(7)

socketcall.2
Michael Kerrisk
Since Linux 4.3, x86-32 provides direct system calls for the sockets API

time.2
Zack Weinberg
Explain why the glibc time() wrapper never sets 'errno'
Michael Kerrisk [H.J. Lu]
Where time() is provided by vDSO, an invalid address may give SIGSEGV
Michael Kerrisk [Paul Eggert]
Describe EOVERFLOW details
Michael Kerrisk
SEE ALSO: add vdso(7)
Michael Kerrisk
Rename 't' argument to 'tloc'

dlerror.3
Michael Kerrisk [Jonny Grant]
Clarify that the string returned by dlerror() is null terminated

dlopen.3
Michael Kerrisk
Include a shell session showing build/run in EXAMPLE
Michael Kerrisk

Change arguments to main() to "void" in EXAMPLE

drand48.3
Michael Kerrisk [Vincent Lefevre]
Correct descriptions of ranges returned by these functions
See http://bugs.debian.org/803459

errno.3
Michael Kerrisk
Note probable cause of ENFILE error

fnmatch.3
Pádraig Brady
Describe the FNM_EXTMATCH flag and pattern syntax

iconv.3
Andries E. Brouwer
NOTES: describe correct usage for flushing partially buffered input

random_r.3
Michael Kerrisk [Archie Cobbs]
Clarify need to use initstate_r()

tzset.3
Carlos O'Donell
Clarify "daylight" and remove erroneous note

random.4
Michael Kerrisk [Tom Gundersen]
Rework example scripts to assume 'poolsize' unit is bits, not bytes
Michael Kerrisk [Walter Harms]
Use modern command substitution syntax in shell session log

proc.5
Michael Kerrisk
Reaching /proc/sys/fs/file-max limit normally produces an ENFILE error

futex.7
Heinrich Schuchardt
SEE ALSO updates
Michael Kerrisk
Note some other locking primitives that are built with futexes
Heinrich Schuchardt
NPTL, avoid abbreviation
Michael Kerrisk
Note that a futex is 4 bytes on all platforms

vdso.7

Michael Kerrisk
Add note on strace(1) and vDSO

ld.so.8
H.J. Lu [Michael Kerrisk]
Document LD_PREFER_MAP_32BIT_EXEC
Michael Kerrisk
Clarify setting of LD_BIND_NOT
Michael Kerrisk
Clarify setting of LD_DYNAMIC_WEAK
Michael Kerrisk
Clarify setting of LD_TRACE_PRELINKING
Michael Kerrisk
Clarify some details
for LD_SHOW_AUXV

========== Changes in man-pages-4.05 ==========

Released: 2016-03-15, Christchurch

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The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

copy_file_range.2
  Anna Schumaker [Darrick J. Wong, Christoph Hellwig, Michael Kerrisk]
    New page documenting copy_file_range()
      copy_file_range() is a new system call for copying ranges of data
      completely in the kernel. This gives filesystems an opportunity to
      implement some kind of "copy acceleration", such as reflinks or
      server-side-copy (in the case of NFS).

personality.2
  Michael Kerrisk
    This page has been greatly expanded, to add descriptions of
    personality domains.

fmemopen.3
  Michael Kerrisk [Adhemerval Zanella]
    Significant reworking of this page:
    * Rework discussion of the (obsolete) binary mode
    * Split open_memstream(3) description into a separate page.
    * Note various fmemopen() bugs that were fixed in glibc 2.22
    * Greatly expand description of 'mode' argument
    * Rework description of 'buf' and 'len' arguments
    * Expand discussion
 of "current position" for fmemopen() stream

ntp_gettime.3
  Michael Kerrisk
    New page describing ntp_gettime(3) and ntp_gettimex(3)

open_memstream.3
  Michael Kerrisk
    New page created by split of fmemopen(3).
    At the same time, add and rework a few details in the text.

posix_spawn.3
  Bill O. Gallmeister, Michael Kerrisk
    New man page documenting posix_spawn(3) and posix_spawnp(3)

readdir.3
  Michael Kerrisk [Florian Weimer]
    Split readdir_r() content into separate page
      As suggested by Florian Weimer:

          It may make sense to move this documentation to a separate
          manual page, specific to readdir_r. This will keep the
          readdir() documentation nice and crisp. Most programmers
          will never have to consult all these details.
  Michael Kerrisk
    Near complete restructuring of the page and add some further details
  Michael Kerrisk [Florian Weimer, Rich Felker,
 Paul Eggert]
    Add a lot more detail on portable use of the 'd_name' field

readdir_r.3
  Michael Kerrisk [Florian Weimer]
    New page created after split of readdir(3).
  Michael Kerrisk [Florian Weimer]
    Explain why readdir_r() is deprecated and readdir() is preferred
  Michael Kerrisk [Florian Weimer]
    Remove misleading code example using pathconf()

lirc.4
  Alec Leamas
    New page documenting lirc device driver

Newly documented interfaces in existing pages
----

adjtimex.2
  Michael Kerrisk
    Document ntp_adjtime(3)

epoll_ctl.2
  Michael Kerrisk [Jason Baron]
    Document EPOLLEXCLUSIVE

madvise.2
  Minchan Kim [Michael Kerrisk]
    Document MADV_FREE
      Document the MADV_FREE flag added to madvise() in Linux 4.5.

proc.5
  Michael Kerrisk
    Document CmaTotal and CmaFree fields of /proc/meminfo

Michael Kerrisk
Document additional /proc/meminfo
fields
Document DirectMap4k, DirectMap4M, DirectMap2M, DirectMap1G
Michael Kerrisk
Document MemAvailable /proc/meminfo field
Michael Kerrisk
Document inotify /proc/PID/fdinfo entries
Michael Kerrisk
Document fanotify /proc/PID/fdinfo entries
Michael Kerrisk
Add some kernel version numbers for /proc/PID/fdinfo entries
Michael Kerrisk [Patrick Donnelly]
/proc/PID/fdinfo displays the setting of the close-on-exec flag
Note also the pre-3.1 bug in the display of this info.

socket.7
Craig Gallek [Michael Kerrisk, Vincent Bernat]
Document some BPF-related socket options
Document the behavior and the first kernel version for each of the
following socket options:

SO_ATTACH_FILTER
SO_ATTACH_BPF
SO_ATTACH_REUSEPORT_CBPF
SO_ATTACH_REUSEPORT_EBPF
SO_DETACH_FILTER
SO_DETACH_BPF

SO_LOCK_FILTER

New and changed links
---

isalpha_l.3
Michael Kerrisk
New link to isalpha.3

longjmp.3
Michael Kerrisk
Replace page with link to setjmp(3), which now incorporates longjmp()

ntp_adjtime.3
Michael Kerrisk
New link to adjtimex(2)

ntp_gettimex.3

Michael Kerrisk
New link to ntp_gettime.3

open_wmemstream.3
Michael Kerrisk
Update link to point to new open_memstream(2) page

posix_spawnp.3
Michael Kerrisk
New link to new posix_spawn.3 page

siglongjmp.3
Michael Kerrisk
Rewire link to point to setjmp(3)

strerror_l.3
Michael Kerrisk
New link to strerror.3
Fix missing link

Global changes

Various pages
Michael Kerrisk
Update FTM requirements (_DEFAULT_SOURCE)
Michael Kerrisk
Update feature test macro requirements
Update to use _DEFAULT_SOURCE, and also changes brought by
glibc
commit 266865c0e7b79d4196e2cc393693463f03c90bd8.

Various pages
Michael Kerrisk
Simplify FTM requirements
Looking at <features.h> (or feature_test_macros(7)), one can
see that when _XOPEN_SOURCE is defined with the value 700
(or greater), then _POSIX_C_SOURCE is defined with the value
200809L (or greater). Therefore, terms in the man pages such as

_XOPEN_SOURCE\ >=\ 700 || _POSIX_C_SOURCE\ >=\ 200809L

can be simplified to:

_POSIX_C_SOURCE\ >=\ 200809L

Various pages

Michael Kerrisk
Simplify FTM requirements
Looking at <features.h> (or feature_test_macros(7)), one can
see that when _XOPEN_SOURCE is defined with the value 600
(or greater), then _POSIX_C_SOURCE is defined with the value
200112L (or greater). Therefore, terms in the man pages such as

_XOPEN_SOURCE\ >=\ 600 || _POSIX_C_SOURCE\ >=\ 200112L

can be simplified to:

_POSIX_C_SOURCE\ >=\ 200112L

Various pages
Michael Kerrisk
Simplify FTM requirements
_XOPEN_SOURCE implies _POSIX_C_SOURCE >=2, so simplify FTM
requirements in various pages.

Various pages
Michael Kerrisk
Remove "or 'cc -std=c99'" from SYNOPSIS
Under the FTM requirements all of these pages document the
requirement for _ISOC99_SOURCE. And feature_test_macros(7) now
documents that "cc -std=c99" produces the same effect as defining
_ISOC99_SOURCE. So, all of these pages don't additionally need
to specify "or 'cc -std=c99'" under the FTM requirements
in the SYNOPSIS. Removing that redundant text also simplifies
the SYNOPSIS a little.

Various pages
Michael Kerrisk
Simplify FTM requirements
Looking at <features.h> (or feature_test_macros(7)), one can
see that when _XOPEN_SOURCE
is defined with the value 600
(or greater), then _POSIX_C_SOURCE is defined with the value
200112L (or greater). Therefore, terms in the man pages such as

_XOPEN_SOURCE\ >=\ 600 || _POSIX_C_SOURCE\ >=\ 200112L

can be simplified to:

_POSIX_C_SOURCE\ >=\ 200112L

Various pages
Michael Kerrisk
Remove references to _XOPEN_SOURCE_EXTENDED in SYNOPSIS

_XOPEN_SOURCE_EXTENDED is obsolete (it existed in SUSv1, but not
subsequent standards). _XOPEN_SOURCE >= 500 produces the same
effects as (_XOPEN_SOURCE && _XOPEN_SOURCE_EXTENDED). Modifying
the SYNOPSIS of various ages that contain:

_XOPEN_SOURCE\ >=\ 500 ||
_XOPEN_SOURCE\ &&\ _XOPEN_SOURCE_EXTENDED

to just:

_XOPEN_SOURCE\ >=\ 500

This has the following benefits:

a) Simplifying the SYNOPSIS by removing ancient

historical information.

b) Preventing users from being misled into using
_XOPEN_SOURCE_EXTENDED in new source code.

Various pages
Michael Kerrisk
Remove mention of the obsolete _POSIX_SOURCE macro from SYNOPSIS
_POSIX_SOURCE was a POSIX.1-1990 creation that was soon made
obsolete by _POSIX_C_SOURCE. Retaining mention of it
in the feature test macro requirements section of the
SYNOPSIS doesn't contain important information, and may
mislead readers into actually trying to use this macro.
A few mentions of it are maintained in a some pages where
defining _POSIX_SOURCE inhibits some behavior.

Various sockets-related pages
Michael Kerrisk [Carlos O'Donell]
Use consistent argument/variable names for socket addresses and lengths
As noted by Carlos, there's quite a bit of inconsistency across
pages. Use 'addr' and 'addrlen' consistently
in variables and
function arguments.

Various pages
Michael Kerrisk
Wording fix: "current file offset" ==> "file offset"
"File offset" is the preferred POSIX terminology.

Various pages
Michael Kerrisk
Word "descriptor" more precisely

Use either "file descriptor" or "message queue descriptor".

Various pages
  Michael Kerrisk
    ERRORS: add reference to signal(7) in description of EINTR

Changes to individual pages
---

locale.1
  Marko Myllynen
    Add "locale -c charmap" as an example
      Addresses https://bugzilla.kernel.org/show_bug.cgi?id=104511.

localedef.1
  Marko Myllynen
    Add hint on purpose of --no-archive
      Indicate why using --no-archive might be a good idea. The issue
      is that if you create a custom locale with localedef(1) and put
      it to the locale archive then during the next glibc upgrade the
      locale archive
 is updated as well and your custom locale is gone.)

accept.2
  Michael Kerrisk
    ERRORS: improve description for EBADF

adjtimex.2
  Michael Kerrisk [John Stultz]
    Various improvements after feedback from John Stultz
  Michael Kerrisk
    Remove FTM requirements
      It seems that adjtimex() never needed _BSD_SOURCE (and my
      earlier commit 5918743bc8b02b was simply a blunder).
  Michael Kerrisk
    Split EINVAL error cases
  Michael Kerrisk
    Note treatment of out-of-range buf.offset
  Michael Kerrisk
    Don't refer reader to adjtime(3)
      Probably, it's not wise to suggest adjtime(3) as the more
      portable API. Rather, ntp_adjtime(3) should be used.
  Michael Kerrisk [Naresh Kamboju]
    Update details of buf.offset EINVAL error
  Michael Kerrisk
    SEE ALSO: add ntp_gettime(3)
  Michael Kerrisk

Improve description of some PPS timex fields
Michael Kerrisk
Add ATTRIBUTES
section
William Preston [Petr Gajdos]
Update a detail in adjtimex return value description
Michael Kerrisk
Note range constraints and clamping for ADJ_FREQUENCY

bdflush.2
Michael Kerrisk
Note that glibc support for this system call went away in version 2.23

bind.2
Michael Kerrisk
Improve description of ENOENT error

bpf.2
Michael Kerrisk
Document close-on-exec semantics
The close-on-exec file descriptor flag is automatically enabled
for FDs returned by bpf().

chmod.2
Michael Kerrisk
Clarify terminology (file mode versus file permission bits)

chown.2
Michael Kerrisk
ERRORS: improve EBADF description

clone.2
unshare.2
Michael Kerrisk
Remove mention of _BSD_SOURCE and _SVID_SOURCE
The right way to expose declarations for these Linux-specific
system calls was always _GNU_SOURCE. Mentioning the historical
use of _BSD_SOURCE
and _SVID_SOURCE just clouds the issue.

connect.2
Michael Kerrisk
ERRORS: improve EBADF description

create_module.2
Michael Kerrisk
Glibc 2.23 removed last vestiges of support for this system call

delete_module.2
  Michael Kerrisk
    Glibc 2.23 removed last vestiges of support for this system call

epoll_ctl.2
  Michael Kerrisk
    Document ELOOP error for circular monitoring loops

eventfd.2
  Michael Kerrisk
    Note that eventfd info is available in /proc/PID/fdinfo

execve.2
  Michael Kerrisk [Krzysztof Adamski]
    Add EPERM error for capabilities check of capability-dumb binaries
  Michael Kerrisk
    Add reference to ld-linux.so(8)
  Michael Kerrisk
    SEE ALSO: add system(3)

fanotify_init.2
  Michael Kerrisk
    Note kernel version that allowed O_CLOEXEC for event_f_flags

fcntl.2
flock.2
  Michael Kerrisk
    SEE ALSO: add lslocks(8)

fcntl.2
  Michael Kerrisk [Jason Vas Dias]
    Rework description
 of F_SETOWN
      As suggested by Jason, make it clearer that I/O signalling
      requires the use of both F_SETOWN and O_ASYNC. While we're at,
      make a few other cleanups to the text.
  Michael Kerrisk
    Remove mention of _BSD_SOURCE to get definition of F_SETOWN/F_GETOWN
      This usage went away in glibc 2.20, and the simplest remedy
      is just to omit mention of it.

futex.2
  Michael Kerrisk
    FUTEX_CLOCK_REALTIME can now be used with FUTEX_WAIT

get_kernel_syms.2
  Michael Kerrisk
    Note that glibc does not support this system call

init_module.2
  Michael Kerrisk
    Glibc 2.23 removed last vestiges of support for this system call

ioctl_list.2
  Heinrich Schuchardt
    Include uapi/linux/wireless.h
      Add the list of wireless IOCTLs.
  Heinrich Schuchardt
    Path to sockios.h
      sockios.h is now in include/uapi
  Heinrich Schuchardt
    Add reference to netdevice.7
       netdevice.7 describes most of the IOCTLs of sockios.h
  Heinrich Schuchardt
    Transfer structure (wireless.h IOCTLs)
      The sole parameter to be passed to the wireless.h IOCTLs is
      of type struct iwreq *.

ioperm.2
  Michael Kerrisk [Alex Henrie]
    ioperm.2: Permissions are inherited across fork(2)
      See https://bugzilla.kernel.org/show_bug.cgi?id=99911

iopl.2
  Michael Kerrisk [Alex Henrie]
    Permissions are not inherited across fork(2) or preserved on execve(2)
      See https://bugzilla.kernel.org/show_bug.cgi?id=99901

lseek.2
  Michael Kerrisk
    FUSE now supports SEEK_HOLE and SEEK_DATA
  Michael Kerrisk
    NFS supports SEEK_HOLE and SEEK_DATA

  Michael Kerrisk
    SEE ALSO: add open(2)

madvise.2
  Michael Kerrisk
    Clarify MADV_HWPOISON wording to say that it applies to a page range

mknod.2
  Michael Kerrisk
    SEE ALSO: add mknod(1)

mount.2

Michael Kerrisk
SEE ALSO: add findmnt(8)

open.2
Michael Kerrisk
NOTES: mention existence of proc/PID/fd and /proc/PID/fdinfo
Mark Post [Petr Gajdos]
O_TMPFILE support is now provided bt Btrfs

pipe.2
Michael Kerrisk [Eric Blake]
Note treatment of 'pipefd' on error

poll.2
Michael Kerrisk [Josh Triplett]
Document spurious EAGAIN error that can occur on other systems
Light reworking of text proposed by Josh Triplett.

readlink.2
Michael Kerrisk
Clarify EINVAL error description

recv.2
Heinrich Schuchardt
Equivalence to read()
Describe the recv(2)-read(2) and the recvfrom(2)-recv(2)
equivalences for zero-valued arguments.
Michael Kerrisk
MSG_WAITALL has no effect for datagram sockets

recv.2
cmsg.3
Nikola Forró
Fix type of cmsg_len member of cmsghdr structure
The type shown for cmsg_len member of cmsghdr structure is socklen_t,
but the actual
type used by glibc and the kernel is size_t.
The information was obtained from glibc source code:
http://bit.ly/21m1RMp
Michael Kerrisk
Note that cmsg_len is typed as socklen_t in POSIX.1

sched_setaffinity.2
Michael Kerrisk [Florian Weimer, Florian Weimer]
Warn that CPU_ALLOC() may allocate a slightly CPU set than requested
Michael Kerrisk [Florian Weimer]
Add reference to CPU_ALLOC(3)

sched_setattr.2
  Michael Kerrisk [Akihiro Suda]
    EPERM depends on affinity mask of target thread, not calling thread

select.2
  Michael Kerrisk [Josh Triplett]
    Document spurious EAGAIN error that can occur on other systems
      Light reworking of text proposed by Josh Triplett.
  Nikos Mavrogiannopoulos
    Mention the 'fd_set' size limitation early and refer to poll(2)
      Change this because of the serious limitation of select()
      imposing a limit on the range of file descriptors that
 can
      be monitored. This is currently mentioned too late in the
      documentation (in the NOTES section). The man page should
      warn early and refer to poll(2) as soon as possible.
  Michael Kerrisk
    Add details on the glibc fixed-size fd_set limitation
      No modern application should use select() on Linux.

select_tut.2
  Michael Kerrisk
    Some readability fixes to example program
  Michael Kerrisk
    Better variable names in example program
  Michael Kerrisk
    Simplify 'if' logic in example program
  Michael Kerrisk
    Use correct type (socklen_t) for addrlen

semctl.2
  Michael Kerrisk [Davidlohr Bueso, Manfred Spraul, Philip Semanchuk]
    NOTES: note when 'sempid' is set on various implementations
      See https://bugzilla.kernel.org/show_bug.cgi?id=112271 and
      http://thread.gmane.org/gmane.linux.kernel/2162754/
        Subject: [PATCH] Don't set sempid in semctl syscall.
         Date: 2016-02-26 12:21:38 GMT

semop.2
  Michael Kerrisk
    Tweak comment describing 'sempid'

sendfile.2
  Askar Safin
    Fix incorrect description in text referring to splice(2)
  Michael Kerrisk
    SEE ALSO: add copy_file_range(2)

setpgid.2
  Michael Kerrisk
    Correct/simplify FTM requirements for BSD setpgrp() and getpgrp()

signalfd.2
  Michael Kerrisk
    Note that signalfd info is available in /proc/PID/fdinfo

sigprocmask.2
  Michael Kerrisk [Mike Frysinger]
    Explicitly refer the reader to sigsetops(3)
      This man page did not make it obvious which functions
      should be used for manipulating signals sets, nor where
      those functions were documented.

socketpair.2
  Michael Kerrisk [Eric Blake]
    Note treatment of 'sv' on error

splice.2
  Askar Safin
    Improve description of 0 return value.
      See https://bugzilla.kernel.org/show_bug.cgi?id=90911

statfs.2

 Michael Kerrisk [Jakub Wilk]
    Use consistent case for hex constants

sync.2
  Christoph Hellwig
    Clarify description and document the Linux data integrity guarantees

syscall.2
  Mike Frysinger
    Add more architectures and improve error documentation
      Move the error register documentation into the main table rather
      than listing them in sentences after the fact.

      Add sparc error return details.

      Add details for alpha/arc/m68k/microblaze/nios2/powerpc/superh/
      tile/xtensa.

syscalls.2
  Michael Kerrisk
    Add copy_file_range(2)

times.2
  Kondo, Naoya
    Fix an incorrect description in NOTES
      The text has an incorrect description in NOTES, it says
      that (2^32/HZ) - 300 is about 429 million. It is correct
      only if HZ=10 which does not look common today. So just
      removing "(i.e., about 429 million)" is good enough.

truncate.2
  Michael Kerrisk

   SEE ALSO: add truncate(1)

uselib.2
  Michael Kerrisk
    Mention CONFIG_USELIB
  Michael Kerrisk
    Note that glibc does not support this (obsolete) system call

wait.2
wait4.2
  Michael Kerrisk
    Rename the "status" argument to "wstatus"
      The fact that exit(3)/_exit(2) has an argument called
      "status" and the same name is used in the arguments to the
      wait*() calls can a little too easily lead the user into
      thinking that the two arguments hold the same information,
      when of course they don't. So, use a different name
      for the argument of the wait*() functions, to reduce
      the chances of such confusion.

backtrace.3
  Michael Kerrisk [Martin Gebert]
    Small fixes to example program

clearenv.3
  Michael Kerrisk [Matt Zimmerman]
    Clarify the use and effect of clearenv()
      See http://bugs.debian.org/679323
  Michael Kerrisk
    Variables can be added to
 the environment after calling clearenv()

clog10.3
  Michael Kerrisk
    Show an alternative equivalence for clog10()
  Michael Kerrisk

Update CONFORMING TO
Fix grammar error and add C11.

dl_iterate_phdr.3
Michael Kerrisk [Paul Pluzhnikov]
Describe 'struct dl_phdr_info' fields added in glibc 2.4
See https://bugzilla.kernel.org/show_bug.cgi?id=103011
Michael Kerrisk [Simon Que]
Note that first object visited by 'callback' is the main program
See https://bugzilla.kernel.org/show_bug.cgi?id=94141

errno.3
Michael Kerrisk
Add some explanation of ENOENT error

exec.3
Michael Kerrisk
SEE ALSO: add system(3)

exp.3
Michael Kerrisk [Joachim Wuttke]
SEE ALSO: add expm1(3)

fopen.3
Michael Kerrisk
SEE ALSO: add open_memstream(3)

fts.3
Michael Kerrisk
BUGS: glibc-2.23 now has LFS support for the fts functions

gamma.3
Michael Kerrisk [Alan Cox]

gamma() was documented in SVID 2

getaddrinfo.3
Michael Kerrisk [Andreas Schwab, Orion Poplawski]
Update FTM requirements for glibc 2.22
Since glibc 2.22 getaddrinfo() etc. are only declared for
POSIX.1-2001 or later.

getcwd.3
Michael Kerrisk
SEE ALSO: add pwd(1)

opendir.3
Michael Kerrisk

Help the reader by explicitly mentioning the use of readdir(3)

perror.3
Michael Kerrisk
Suggest use of strerror(3) in place of deprecated 'sys_errlist'

posix_fallocate.3
Jérémie Galarneau
ERRORS: add EINTR
The glibc implementation of posix_fallocate(), which calls fallocate(), may be interrupted. The fallocate() emulation also makes use of pread()/pwrite(), which may also be interrupted.

posix_memalign.3
Michael Kerrisk [Eric Blake]
Note posix_memalign()'s treatment of 'memptr' on error

pthread_setaffinity_np.3
Michael Kerrisk
SEE ALSO: add
CPU_SET(3)

queue.3
Dr. Tobias Quathamer
Remove double CONFORMING TO section

rcmd.3
Nikola Forró
Add missing condition concerning .rhosts file
The list of conditions determining if iruserok() and ruserok() functions automatically fail is incomplete. According to glibc source code, the functions also fail if the .rhosts file is hard linked anywhere.

setbuf.3
Michael Kerrisk
SEE ALSO: add stdbuf(1)

setjmp.3
Michael Kerrisk
Rewrite and merge longjmp()/siglongjmp() discussion into this page
The discussion of nonlocal gotos is much easier to read if setjmp() and longjmp() are discussed in the same page. While we're at it, rework almost the entire text and add several more details.
Michael Kerrisk
Note the interactions of longjmp() and non-async-signal-safe functions

POSIX.1-2008 TC2 adds explicit text on this point.

See http://austingroupbugs.net/view.php?id=516#c1195
Michael Kerrisk
Explain why nonlocal gotos make code harder to maintain
Michael Kerrisk
Reword warning on longjmp() to function that has already returned
Michael Kerrisk
Remove reference to obsolete _XOPEN_SOURCE_EXTENDED

sleep.3
Michael Kerrisk
SEE ALSO: add sleep(1)

strftime.3
Michael Kerrisk [Jeremy Harris]
Note which 'tm' fields are used to calculate each output string
See https://bugzilla.redhat.com/show_bug.cgi?id=1162218

strlen.3
Michael Kerrisk [Alan Aversa]
CONFORMING TO: add C11

system.3
Michael Kerrisk
SEE ALSO: add execve(2)

termios.3
Dr. Tobias Quathamer
Document line length in canonical mode
See https://git.kernel.org/cgit/linux/kernel/git/torvalds/linux.git/tree/drivers/tty/n_tty.c#n1673
See https://bugs.debian.org/797479
Michael Kerrisk
SEE ALSO: add tty(1)

Michael Kerrisk [Peter Hurley]
Further improvements to recent tweaks of canonical mode 4096 char limit

timegm.3
Michael Kerrisk [Stephen Hurd, Mats Wichmann]
Remove sample implementation of timegm()
Stephen and Mats both question the wisdom of showing a portable
non-thread-safe implementation of timegm(), and I find it
hard to disagree. So, remove this code.

See https://bugzilla.kernel.org/show_bug.cgi?id=103701
Michael Kerrisk
Expand DESCRIPTION a little

st4.4
  Dr. Tobias Quathamer
    Remove spurious copyright section

tty_ioctl.4
  Michael Kerrisk
    SEE ALSO: add ldattach(1)

elf.5
  Michael Kerrisk [Gabriel Corona, Mike Frysinger]
    Fix description of STV_PROTECTED
  Michael Kerrisk
    Improve description of STV_DEFAULT
  Michael Kerrisk
    Improve description of STV_HIDDEN
  Chris Pick
    Remove erroneous, duplicate SHN_* section
  Michael Kerrisk
 [Chris Pick]
    Reword discussion of range values a little

gai.conf.5
  Michael Kerrisk
    Add VERSIONS section

group.5
  Michael Kerrisk
    SEE ALSO: add groups(2)
    SEE ALSO: add gpasswd(1)
    SEE ALSO: add sg(1)
    SE ALSO: add gshadow(5)
    SEE ALSO: add chgrp(1)

locale.5
  Marko Myllynen [Mike Frysinger]
    tel + fax are deprecated

nsswitch.conf.5
  Nikola Forró
    Update NSS compatibility mode description

utmp.5
  Michael Kerrisk
    SEE ALSO: add lslogins(1)

aio.7
  Andreas Gruenbacher

Improve example
When aio_sigevent.sigev_notify is set to SIGEV_SIGNAL, signal
handlers called for asynchronous I/O operations will have
si->si_code set to SI_ASYNCIO. Check to make sure that
si->si_value.sival_ptr is defined.

capabilities.7
Michael Kerrisk
Explain safety check for capability-dumb binaries
Michael Kerrisk
SEE ALSO: add sg(1), su(1)
SEE ALSO: add id(1), group(5), passwd(5)

credentials.7
Michael Kerrisk
SEE ALSO: add groups(2)

environ.7
Michael Kerrisk
Describe the Bourne "NAME=value command" syntax
Michael Kerrisk
Add some details describing hos shell's environment is initialized
Michael Kerrisk
Note that child of fork(2) inherits copy of parent's environment
Michael Kerrisk
SEE ALSO: add pam_env(3)

epoll.7
Michael Kerrisk
Mention that epoll info is available via /proc/PID/fdinfo

fanotify.7
Michael Kerrisk
Refer reader to proc(5) for info on /proc/PID/fdinfo fanotify entries

feature_test_macros.7
Michael Kerrisk
Add a summary of some FTM key points
Michael Kerrisk
Give an early hint about some macros being defined by default
Michael Kerrisk
Clarify relation between _XOPEN_SOURCE >=500 and _XOPEN_SOURCE_EXTENDED
Emphasize that defining _XOPEN_SOURCE >=500 produces same

effects as defining _XOPEN_SOURCE_EXTENDED.
Michael Kerrisk
Note that man pages don't mention _XOPEN_SOURCE_EXTENDED

As per previous commit, mention of _XOPEN_SOURCE_EXTENDED
has generally been removed from the man pages.
Michael Kerrisk
Note effects of "cc -std=c99" and "cc -std=c11"
Michael Kerrisk
Clarify some _ISOC99_SOURCE / _DEFAULT_SOURCE details
Michael Kerrisk
Clarify that _XOPEN_SOURCE_EXTENDED is obsolete
Since SUSv2, _XOPEN_SOURCE_EXTENDED is no longer specified
in the standard.

inotify.7
Michael Kerrisk
Refer reader to proc(5) for info on /proc/PID/fdinfo inotify entries

ip.7
Eric Dumazet
Document IP_BIND_ADDRESS_NO_PORT socket option

mq_overview.7
Michael Kerrisk
Note that the close-on-exec flag is automatically set on MQ descriptors

namespaces.7
Michael Kerrisk
SEE ALSO: add lsns(1)
lsns(1) was recently
added in util-linux, probably to appear
in next release (2.28?).

pipe.7
Michael Kerrisk [Jason Vas Dias]
Clarify that I/O signalling requires use of both F_SETOWN and O_ASYNC
Michael Kerrisk
SEE ALSO: add mkfifo(1)

signal.7
Michael Kerrisk
Note the interactions of longjmp() and non-async-signal-safe functions
See http://austingroupbugs.net/view.php?id=516#c1195.

socket.7
Michael Kerrisk
SEE ALSO: add pcap(3)
SEE ALSO: add wireshark(1) and tcpdump(8)

standards.7
Michael Kerrisk

Add POSIX.1-2008 TC2 (POSIX.1-2016)

svipc.7
  Michael Kerrisk
    Tweak description of 'sempid'
  Michael Kerrisk
    SEE ALSO: add lsipc(1)

symlink.7
  Michael Kerrisk [Zefram]
    Some "magic" symlinks have permissions other than 0777
      See https://bugs.debian.org/743525

time.7
  Michael Kerrisk
    SEE ALSO: add timeout(1)
    SEE ALSO: add ntp_adjtime(3) and ntp_gettime(3)

unicode.7
   Dr. Tobias Quathamer
    Document private use areas
      See https://bugs.debian.org/285444

unix.7
  Heinrich Schuchardt
    Add example
      A complete example demonstrating the usage of sockets for local
      interprocess communication is added.
  Michael Kerrisk
    Introduce term "sequenced-packet" for SOCK_SEQPACKET
  Michael Kerrisk
    Some wording improvements

========== Changes in man-pages-4.06 ==========

Released: 2016-05-09, Oslo

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Apologies if I missed anyone!

New and rewritten pages
---

cgroups.7
  Serge Hallyn, Michael Kerrisk
    New page documenting cgroups

cgroup_namespaces.7
  Michael Kerrisk [Serge Hallyn]
    New page describing cgroup namespaces

Newly documented interfaces in existing pages
---

clone.2
  Michael Kerrisk
    Document CLONE_NEWCGROUP

readv.2
  Christoph Hellwig
    Document preadv2() and pwritev2()
setns.2
   Michael Kerrisk
    Document CLONE_NEWCGROUP

unshare.2
  Michael Kerrisk
    Document CLONE_NEWCGROUP

Changes to individual pages
---

clock_getres.2
  Michael Kerrisk [Rasmus Villemoes]
    Note that coarse clocks need architecture and VDSO support

clone.2
fork.2
  Nikola Forró
    Document ERESTARTNOINTR error code

clone.2
  Michael Kerrisk [Colin Ian King]
    ERRORS: add EINVAL for improperly aligned 'child_stack' value

execve.2
  Michael Kerrisk [Valery Reznic]
    Since Linux 2.6.28, recursive script interpretation is supported

fcntl.2
  Michael Kerrisk
    Note that mandatory locking is now governed by a configuration option

fsync.2
  Michael Kerrisk [Georg Sauthoff]
    Give some examples of files where sync can fail with EINVAL

getrlimit.2
  Michael Kerrisk
    SEE ALSO: add cgroups(7)

ioctl_fat.2
  Heinrich Schuchardt
    Use %04x to print volume ID
      Leading zeroes
 should be used when display a FAT volume ID.

ioprio_set.2
  Michael Kerrisk
    SEE ALSO: add cgroups(7)

lseek.2
  Michael Kerrisk
    Note that 'off_t' is an integer data type defined by POSIX

memfd_create.2
  Michael Kerrisk
    Note that memfd_create() does not have a glibc wrapper

mount.2
  Michael Kerrisk
    MS_MANDLOCK requires CAP_SYS_ADMIN (since Linux 4.5)

quotactl.2
  Michael Kerrisk
    Document Q_GETNEXTQUOTA and Q_XGETNEXTQUOTA
  Michael Kerrisk
    Rework/reorder ERRORS list
      Make into a single alphabetically ordered list
  Michael Kerrisk
    Note kernel version that removed Q_GETSTATS
  Michael Kerrisk
    Add kernel version for G_GETINFO, Q_SETINFO, and Q_GETFMT

readv.2
  Michael Kerrisk
    Clarify that 'size_t' and 'ssize_t' are integer types specified in POSIX

semctl.2
  Michael Kerrisk
    From kernel 4.6, Linux now updates 'sempid' on SETALL operations

sigaction.2
  Michael Kerrisk
     Document SEGV_BNDERR
  Michael Kerrisk
    Document SEGV_PKUERR

syscalls.2
  Michael Kerrisk
    Add preadv2() and pwritev2()

write.2
  Michael Kerrisk
    Clarify that 'size_t' and 'ssize_t' are integer types specified in POSIX

makedev.3
  Mike Frysinger
    Use <sys/sysmacros.h> in SYNOPSIS

Defining these functions via <sys/types.h> causes problems for
some folk. As noted by Zack Wein:

libstdc++ force-enables _GNU_SOURCE, which means people
writing in C++ _can't_ avoid these nonstandard macros by
using a strict conformance mode.

Since glibc has basically always used <sys/sysmacros.h>,
update the docs to have people include that instead.
Michael Kerrisk
NOTES: mention that <sys/types.h> may also define these macros

popen.3
Nikola Forró
RETURN VALUE: describe successful case
Reference:
http://pubs.opengroup.org/onlinepubs/9699919799/functions/popen.html
http://pubs.opengroup.org/onlinepubs/9699919799/functions/pclose.html

strtod.3
Michael Kerrisk [Ed Avis]
Improve a detail in RETURN VALUE

core.5
Michael Kerrisk
Document /proc/sys/kernel/core_pipe_limit

locale.5
Marko Myllynen
Adjust LC_IDENTIFICATION / abbreviation
Tiny tweak to locale.5 based on ISO/IEC TR 14652:

http://www.open-std.org/jtc1/SC22/WG20/docs/n972-14652ft.pdf
Marko Myllynen
Update LC_ADDRESS after glibc change
This patch updates locale.5 to match the recent glibc change
in commit a837257199ffab76237385b830cc7b6179fc2f18
Marko Myllynen
Complete LC_COLLATE
Here's the first attempt to (almost) complete the locale.5 manual
page by documenting all (but perhaps one) of the missing
LC_COLLATE keywords.
Mike Frysinger
country_car: Add a better description

nsswitch.conf.5

Marko Myllynen
Document group merging
Document the recently merged glibc group merge support.
Glibc commit ced8f8933673f4efda1d666d26a1a949602035ed
https://sourceware.org/glibc/wiki/Proposals/GroupMerging

proc.5
Michael Kerrisk
Move /proc/PID/cgroup discussion to cgroups(7) page
Michael Kerrisk
Add some background on why /proc/PID/mountinfo was added
Michael Kerrisk
Improve description of /proc/PID/mountinfo 'root' field
Michael Kerrisk
Add pointer to cgroups(7) for documentation of /proc/cgroups
Michael Kerrisk
Add reference to core(5) for info on /proc/sys/kernel/core_pipe_limit

cpuset.7
Michael Kerrisk
SEE ALSO: add cgroups(7)

ip.7
Benjamin Poirier
Fix incorrect sockopt name
"IP_LEAVE_GROUP" does not exist. It was perhaps a confusion with
MCAST_LEAVE_GROUP. Change the text to IP_DROP_MEMBERSHIP which has

the same function as MCAST_LEAVE_GROUP and is documented in the
ip.7 man page.

Reference:
Linux kernel net/ipv4/ip_sockglue.c do_ip_setsockopt()

namespaces.7
Michael Kerrisk
SEE ALSO: add cgroups(7), cgroup_namespaces(7)

vdso.7
Zubair Lutfullah Kakakhel [Mike Frysinger]
Update for MIPS
Document the symbols exported by the MIPS VDSO.
VDSO support was added from kernel 4.4 onwards.

See https://git.kernel.org/cgit/linux/kernel/git/torvalds/linux.git/log/arch/mips/vdso
Michael Kerrisk [Rasmus Villemoes]
The __kernel_clock_* interfaces don't support *_COARSE clocks on PowerPC

ld.so.8
  Michael Kerrisk [Alon Bar-Lev]
    Document use of $ORIGIN, $LIB, and $PLATFORM in environment variables
      These strings are meaningful in LD_LIBRARY_PATH and LD_PRELOAD.

========== Changes in man-pages-4.07 ==========

Released: 2016-07-17, Ulm

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Apologies if I missed anyone!

New and rewritten
 pages
----

ioctl_fideduperange.2
  Darrick J. Wong [Christoph Hellwig, Michael Kerrisk]
    New page documenting the FIDEDUPERANGE ioctl
      Document the FIDEDUPERANGE ioctl, formerly known as
      BTRFS_IOC_EXTENT_SAME.

ioctl_ficlonerange.2
  Darrick J. Wong [Christoph Hellwig, Michael Kerrisk]
    New page documenting FICLONE and FICLONERANGE ioctls
      Document the FICLONE and FICLONERANGE ioctls, formerly known as
      the BTRFS_IOC_CLONE and BTRFS_IOC_CLONE_RANGE ioctls.

nextup.3
  Michael Kerrisk
    New page documenting nextup(), nextdown(), and related functions

mount_namespaces.7
  Michael Kerrisk [Michael Kerrisk]
    New page describing mount namespaces

Newly documented interfaces in existing pages
---

mount.2
  Michael Kerrisk
    Document flags used to set propagation type
      Document MS_SHARED, MS_PRIVATE, MS_SLAVE, and MS_UNBINDABLE.
   Michael Kerrisk
    Document the MS_REC flag

ptrace.2
  Michael Kerrisk [Kees Cook, Jann Horn, Eric W. Biederman, Stephen Smalley]
    Document ptrace access modes

proc.5
  Michael Kerrisk
    Document /proc/[pid]/timerslack_ns
  Michael Kerrisk
    Document /proc/PID/status 'Ngid' field
  Michael Kerrisk
    Document /proc/PID/status fields: 'NStgid', 'NSpid', 'NSpgid', 'NSsid'
  Michael Kerrisk
    Document /proc/PID/status 'Umask' field

New and changed links
---

preadv2.2
pwritev2.2
  Michael Kerrisk
    New links to readv(2)

nextdown.3
nextdownf.3
nextdownl.3
nextupf.3
nextupl.3
  Michael Kerrisk
    New links to nextup(3)

Changes to individual pages
---

ldd.1

Michael Kerrisk
Add a little more detail on why ldd is unsafe with untrusted executables
Michael Kerrisk
Add more detail on the output of ldd

localedef.1
Marko Myllynen
Drop --old-style
description
The glibc upstream decided to drop localedef(1) --old-style option [1] altogether, I think we can do the same with localedef(1), the option hasn't done anything in over 16 years and I doubt anyone uses it.

add_key.2
Mitch Walker
Empty payloads are not allowed in user-defined keys

chroot.2
Michael Kerrisk
SEE ALSO: add pivot_root(2)

clone.2
Michael Kerrisk
Add reference to mount_namespaces(7) under CLONE_NEWNS description

fork.2
Michael Kerrisk
Add ENOMEM error for PID namespace where "init" has died

futex.2
Michael Kerrisk
Correct an ENOSYS error description
Since Linux 4.5, FUTEX_CLOCK_REALTIME is allowed with FUTEX_WAIT.
Michael Kerrisk [Darren Hart]
Remove crufty text about FUTEX_WAIT_BITSET interpretation of timeout
Since Linux 4.5, FUTEX_WAIT also understands FUTEX_CLOCK_REALTIME.
Michael Kerrisk [Thomas Gleixner]
Explain how to get equivalent of FUTEX_WAIT with an absolute timeout
Michael Kerrisk
Describe FUTEX_BITSET_MATCH_ANY
Describe FUTEX_BITSET_MATCH_ANY and FUTEX_WAIT and FUTEX_WAKE equivalences.
Michael Kerrisk
Note that at least one bit must be set in mask for BITSET operations
At least one bit must be set in the 'val3' mask supplied for the

FUTEX_WAIT_BITSET and FUTEX_WAKE_BITSET operations.
Michael Kerrisk [Thomas Gleixner, Darren Hart]
Fix descriptions of various timeouts
Michael Kerrisk
Clarify clock default and choices for FUTEX_WAIT

getitimer.2
Michael Kerrisk
Substantial rewrites to various parts of the page
Michael Kerrisk [Tom Callaway]
Change license to note that page may be modified
The page as originally written carried text that said the page may be freely distributed but made no statement about modification. In the 20+ years since it was first written, the page has in fact seen repeated, sometimes substantial, modifications, and only a small portion of the original text remains. One could I suppose rewrite the last few pieces that remain from the original, but as the largest contributor to the pages existing text, I'm just going to relicense it to explicitly note that modification is permitted. (I presume the failure by the original author to grant permission to modify was simply an oversight; certainly, the large number of people who have changed the page have taken that to be the case.)

See also https://bugzilla.kernel.org/show_bug.cgi?id=118311

get_mempolicy.2
Michael Kerrisk [Jörn Engel]
Correct rounding to 'maxnodes' (bits, not bytes)
Michael Kerrisk [Jörn Engel]
Fix prototype for get_mempolicy()
In numaif.h, 'addr'
is typed as 'void *'

getpriority.2
Michael Kerrisk
Make discussion of RLIMIT_NICE more prominent
The discussion of RLIMIT_NICE was hidden under the EPERM error, where it was difficult to find. Place some relevant text in DESCRIPTION.
Michael Kerrisk
Note that getpriority()/setpriority deal with same attribute as nice(2)
Michael Kerrisk [Robin Kuzmin]
Clarify equivalence between lower nice value and higher priority

get_robust_list.2
Michael Kerrisk
get_robust_list() is governed by PTRACE_MODE_READ_REALCREDS

ioctl.2
  Michael Kerrisk
    SEE ALSO: add ioctl_fideduperange(2) and ioctl_ficlonerange(2)

kcmp.2
  Michael Kerrisk
    kcmp() is governed by PTRACE_MODE_READ_REALCREDS
  Shawn Landden
    Note about SECURITY_YAMA
kill.2
  Michael Kerrisk [John Wiersba]
    Clarify the meaning if sig==0

lookup_dcookie.2
  Michael Kerrisk
    SEE ALSO: add oprofile(1)

mmap.2
   Michael Kerrisk [Rahul Bedarkar]
    EXAMPLE: for completeness, add munmap() and close() calls

mount.2
  Michael Kerrisk
    Restructure discussion of 'mountflags' into functional groups
      The existing text makes no differentiation between different
      "classes" of mount flags. However, certain flags such as
      MS_REMOUNT, MS_BIND, MS_MOVE, etc. determine the general
      type of operation that mount() performs. Furthermore, the
      choice of which class of operation to perform is performed in
      a certain order, and that order is significant if multiple
      flags are specified. Restructure and extend the text to
      reflect these details.
  Michael Kerrisk
    Relocate text on multimounting and mount stacking to NOTES
      The text was somewhat out of place in its previous location;
      NOTES is a better location.
  Michael Kerrisk
    Remove version numbers attached to flags
 that are modifiable on remount
      This information was simply bogus. Mea culpa.
  Michael Kerrisk
    Refer reader to mount_namespaces(7) for details on propagation types
  Michael Kerrisk
    SEE ALSO: s/namespaces(7)/mount_namespaces(7)/
  Omar Sandoval
    MS_BIND still ignores mountflags
      This is clear from the do_mount() function in the kernel as of v4.6.

Michael Kerrisk
Note the default treatment of ATIME flags during MS_REMOUNT
The behavior changed in Linux 3.17.
Michael Kerrisk
Clarify that MS_MOVE ignores remaining bits in 'mountflags'
Michael Kerrisk
Note kernel version that added MS_MOVE
Michael Kerrisk
MS_NOSUID also disables file capabilities
Michael Kerrisk
Relocate/demote/rework text on MS_MGC_VAL
The use of this constant has not been needed for 15 years now.
Michael Kerrisk
Clarify that 'source' and 'target' are pathnames, and can refer
to files
Michael Kerrisk
Update example list of filesystem types
Put more modern examples in; remove many older examples.
Michael Kerrisk
MS_LAZYTIME and MS_RELATIME can be changed on remount
Michael Kerrisk
Explicitly note that MS_DIRSYNC setting cannot be changed on remount
Michael Kerrisk
Move text describing 'data' argument higher up in page
In preparation for other reworking.
Michael Kerrisk
Since Linux 2.6.26, bind mounts can be made read-only

open.2
Eric Biggers
Refer to correct functions in description of O_TMPFILE

pciconfig_read.2
Michael Kerrisk [Tom Callaway]
Change license to note that page may be modified
Niki Rahimi, the author of this page, has agreed that it's okay
to change the license to note that the page can be modified.

See https://bugzilla.kernel.org/show_bug.cgi?id=118311

perf_event_open.2
Michael Kerrisk

If pid > 0, the operation is governed by PTRACE_MODE_READ_REALCREDS
Jann Horn
Document new perf_event_paranoid default
Keno Fischer [Vince Weaver]
Add a note that dyn_size is omitted if size == 0

The perf_output_sample_ustack in kernel/events/core.c only writes
a single 64 bit word if it can't dump the user registers. From the
current version of the man page, I would have expected two 64 bit
words (one for size, one for dyn_size). Change the man page to
make this behavior explicit.

prctl.2
  Michael Kerrisk
    Some wording improvements in timer slack description
  Michael Kerrisk
    Refer reader to discussion of /proc/[pid]/timerslack_ns
      Under discussion of PR_SET_TIMERSLACK, refer the reader to
      the /proc/[pid]/timerslack_ns file, documented in proc(5).

process_vm_readv.2
  Michael Kerrisk
    Rephrase permission rules in terms of a ptrace access mode check

ptrace.2
   Michael Kerrisk [Jann Horn]
    Update Yama ptrace_scope documentation
      Reframe the discussion in terms of PTRACE_MODE_ATTACH checks,
      and make a few other minor tweaks and additions.
  Michael Kerrisk, Jann Horn
    Note that user namespaces can be used to bypass Yama protections
  Michael Kerrisk
    Note that PTRACE_SEIZE is subject to a ptrace access mode check
  Michael Kerrisk
    Rephrase PTRACE_ATTACH permissions in terms of ptrace access mode check

quotactl.2
  Michael Kerrisk [Jacob Willoughby]
    'dqb_curspace' is in bytes, not blocks
      This error appears to have been injected into glibc
      when copying some headers from BSD.

      See https://bugs.debian.org/825548

recv.2
  Michael Kerrisk [Tom Gundersen]
    With pending 0-length datagram read() and recv() with flags == 0 differ

setfsgid.2
setfsuid.2
  Jann Horn [Michael Kerrisk]
    Fix note about errors from
 the syscall wrapper
      See sysdeps/unix/sysv/linux/i386/setfsuid.c in glibc-2.2.1.

(This code is not present in modern glibc anymore.)
Michael Kerrisk
Move glibc wrapper notes to "C library/kernel differences" subsection

sysinfo.2
Michael Kerrisk
Rewrite and update various pieces

umask.2
Michael Kerrisk
NOTES: Mention /proc/PID/status 'Umask' field

umount.2
Michael Kerrisk
SEE ALSO: add mount_namespaces(7)

unshare.2
Michael Kerrisk
Add reference to mount_namespaces(7) under CLONE_NEWNS description

utimensat.2
Michael Kerrisk [Rob Landley]
Note that the glibc wrapper disallows pathname==NULL

wait.2
Michael Kerrisk
Since Linux 4.7, __WALL is implied if child being ptraced
Michael Kerrisk
waitid() now (since Linux 4.7) also supports __WNOTHREAD/__WCLONE/__WALL

assert.3
Nikos Mavrogiannopoulos
Improved description
Removed text referring to text
not being helpful to users. Provide
the error text instead to allow the reader to determine whether it
is helpful. Recommend against using NDEBUG for programs to
exhibit deterministic behavior. Moved description ahead of
recommendations.
Michael Kerrisk
Clarify details of message printed by assert()

fmax.3
fmin.3
Michael Kerrisk
SEE ALSO: add fdim(3)

getauxval.3

Cownie, James H
Correct AT_HWCAP result description

inet_pton.3
Stefan Puiu
Mention byte order

malloc_hook.3
Michael Kerrisk
glibc 2.24 removes __malloc_initialize_hook

memmem.3
Michael Kerrisk [Shawn Landden]
Note that memmem() is present on some other systems

mkdtemp.3
mktemp.3
Michael Kerrisk
SEE ALSO: add mktemp(1)

printf.3
Michael Kerrisk [Shawn Landden]
Note support in other C libraries for %m and %n

strcasecmp.3
Michael Kerrisk [Ori Avtalion]
Make details
of strncasecmp() comparison clearer

strcat.3
Michael Kerrisk
Add a program that shows the performance characteristics of strcat()
In honor of Joel Spolksy's visit to Munich, let's start educating
Schlemiel The Painter.

strtoul.3
Michael Kerrisk
SEE ALSO: add a64l(3)

strxfrm.3
Michael Kerrisk [Florian Weimer]
Remove NOTES section
strxfrm() and strncpy() are not precisely equivalent in the
POSIX locale, so this NOTES section was not really correct.

See https://bugzilla.kernel.org/show_bug.cgi?id=104221

console_codes.4

console_ioctl.4
tty.4
vcs.4
charsets.7
  Marko Myllynen
    Remove console(4) references
      0f9e647 removed the obsolete console(4) page but we still have few
      references to it. The patch below removes them or converts to refs
      to console_ioctl(4) where appropriate.

console_ioctl.4
  Michael Kerrisk [Chris Gassib]
    The argument
 to KDGETMODE is an 'int'

lirc.4
  Alec Leamas
    Update after upstreamed lirc.h, bugfixes.

st.4
  Kai Mäkisara
    Fix description of read() when block is larger than request
  Kai Mäkisara
    Update MTMKPART for kernels >= 4.6
      Update the description of the MTMKPART operation of MTIOCTOP to match
      the changes in kernel version 4.6.

charmap.5
  Marko Myllynen
    Clarify keyword syntax
      Updates charmap(5) to match the syntax all the glibc
      charmap files are using currently.

elf.5
  Michael Kerrisk
    SEE ALSO: add readelf(1)

locale.5
  Marko Myllynen
    Document missing keywords, minor updates
  Marko Myllynen
    Clarify keyword syntax
  Marko Myllynen
    Adjust conformance

proc.5
namespaces.7
  Michael Kerrisk

Move /proc/PID/mounts information to proc(5)
There was partial duplication, and some extra information
in namespaces(7). Move everything
to proc(5).

proc.5
Michael Kerrisk
/proc/PID/fd/* are governed by PTRACE_MODE_READ_FSCREDS
Permission to dereference/readlink /proc/PID/fd/* symlinks is
governed by a PTRACE_MODE_READ_FSCREDS ptrace access mode check.
Michael Kerrisk
/proc/PID/timerslack_ns is governed by PTRACE_MODE_ATTACH_FSCREDS
Permission to access /proc/PID/timerslack_ns is governed by
a PTRACE_MODE_ATTACH_FSCREDS ptrace access mode check.
Michael Kerrisk
Document /proc/PID/{maps,mem,pagemap} access mode checks
Permission to access /proc/PID/{maps,pagemap} is governed by a
PTRACE_MODE_READ_FSCREDS ptrace access mode check.

Permission to access /proc/PID/mem is governed by a
PTRACE_MODE_ATTACH_FSCREDS ptrace access mode check.
Michael Kerrisk
Note /proc/PID/stat fields that are governed by PTRACE_MODE_READ_FSCREDS
Michael Kerrisk
/proc/PID/{cwd,exe,root} are
governed by PTRACE_MODE_READ_FSCREDS
Permission to dereference/readlink /proc/PID/{cwd,exe,root} is
governed by a PTRACE_MODE_READ_FSCREDS ptrace access mode check.
Michael Kerrisk
/proc/PID/io is governed by PTRACE_MODE_READ_FSCREDS
Permission to access /proc/PID/io is governed by
a PTRACE_MODE_READ_FSCREDS ptrace access mode check.
Michael Kerrisk
/proc/PID/{personality,stack,syscall} are governed by PTRACE_MODE_ATTACH_FSCREDS
Permission to access /proc/PID/{personality,stack,syscall} is
governed by a PTRACE_MODE_ATTACH_FSCREDS ptrace access mode check.
Michael Kerrisk
/proc/PID/{auxv,environ,wchan} are governed by PTRACE_MODE_READ_FSCREDS
Permission to access /proc/PID/{auxv,environ,wchan} is governed by
a PTRACE_MODE_READ_FSCREDS ptrace access mode check.
Michael Kerrisk
Move shared subtree /proc/PID/mountinfo fields to mount_namespaces(7)
Move information on shared subtree fields in /proc/PID/mountinfo
to mount_namespaces(7).
Michael Kerrisk ["Yuming Ma()"]
Note that /proc/net is now virtualized per network namespace
Michael Kerrisk
Add references to mount_namespaces(7)

repertoiremap.5
  Marko Myllynen
    Clarify keyword syntax

utmp.5
  Michael Kerrisk
    SEE ALSO: add logname(1)

capabilities.7
  Michael Kerrisk [Andy Lutomirski]
    Note on SECURE_NO_CAP_AMBIENT_RAISE for capabilities-only environment
  Michael Kerrisk
    Add a detail on use of securebits

cgroup_namespaces.7
  Michael Kerrisk
    SEE ALSO: add namespaces(7)

cgroups.7
  Michael Kerrisk
    ERRORS: add mount(2) EBUSY error

cp1251.7
cp1252.7
iso_8859-1.7
iso_8859-15.7
iso_8859-5.7
koi8-r.7
koi8-u.7
  Marko Myllynen
    Add some charset references
      Add some references to related charsets here and there.

credentials.7
  Michael Kerrisk

   SEE ALSO: add runuser(1)
    SEE ALSO: add newgrp(1)
    SEE ALSO: add sudo(8)

feature_test_macros.7
  Michael Kerrisk
    Emphasize that applications should not directly include <features.h>

man-pages.7
  Michael Kerrisk
    Clarify which sections man-pages provides man pages for

Michael Kerrisk [Josh Triplett]
Add a few more details on formatting conventions
Add some more details for Section 1 and 8 formatting.
Separate out formatting discussion into commands, functions,
and "general".

namespaces.7
Michael Kerrisk
/proc/PID/ns/* are governed by PTRACE_MODE_READ_FSCREDS
Permission to dereference/readlink /proc/PID/ns/* symlinks is
governed by a PTRACE_MODE_READ_FSCREDS ptrace access mode check.
Michael Kerrisk
Nowadays, file changes in /proc/PID/mounts are notified differently
Exceptional condition for select(), (E)POLLPRI for (e)poll
Michael Kerrisk
Remove /proc/PID/mountstats description
This is a duplicate of information in proc(5).
Michael Kerrisk
Refer to new mount_namespaces(7) for information on mount namespaces

netlink.7
Andrey Vagin
Describe netlink socket options
Michael Kerrisk
Rework version information
(No changes in technical details.)

pid_namespaces.7
Michael Kerrisk
SEE ALSO: add namespaces(7)

unix.7
Michael Kerrisk
Move discussion on pathname socket permissions to DESCRIPTION
Michael Kerrisk
Expand discussion of socket permissions
Michael Kerrisk
Fix statement about permissions needed to connect to a UNIX domain socket
Read permission is not required (verified by experiment).
Michael Kerrisk
Clarify ownership and permissions assigned during socket creation
Michael Kerrisk [Carsten Grohmann]
Update text on socket permissions on other systems
At least
some of the modern BSDs seem to check for write
permission on a socket. (I tested OpenBSD 5.9.) On Solaris 10,
some light testing suggested that write permission is still
not checked on that system.

Michael Kerrisk
Note that umask / permissions have no effect for abstract sockets
W. Trevor King
Fix example code: 'ret' check after accept populates 'data_socket'
Michael Kerrisk
Move some abstract socket details to a separate subsection
Michael Kerrisk
Note that abstract sockets automatically disappear when FDs are closed

user_namespaces.7
Michael Kerrisk [Micha Zegan]
Clarify meaning of privilege in a user namespace
Having privilege in a user NS only allows privileged
operations on resources governed by that user NS. Many
privileged operations relate to resources that have no
association with any namespace type, and only processes

with privilege in the initial user NS can perform those
operations.

See https://bugzilla.kernel.org/show_bug.cgi?id=120671
Michael Kerrisk [Micha Zegan]
List the mount operations permitted by CAP_SYS_ADMIN
List the mount operations permitted by CAP_SYS_ADMIN in a
noninitial userns.

See https://bugzilla.kernel.org/show_bug.cgi?id=120671
Michael Kerrisk [Micha Zegan]
CAP_SYS_ADMIN allows mounting cgroup filesystems
See https://bugzilla.kernel.org/show_bug.cgi?id=120671
Michael Kerrisk
Clarify details of CAP_SYS_ADMIN and cgroup v1 mounts
With respect to cgroups version 1, CAP_SYS_ADMIN in the user
namespace allows only *named* hierarchies to be mounted (and
not hierarchies that have a controller).
Michael Kerrisk
Clarify CAP_SYS_ADMIN details for mounting FS_USERNS_MOUNT filesystems
Michael Kerrisk
Correct user namespace
rules for mounting /proc
Michael Kerrisk
Describe a concrete example of capability checking
Add a concrete example of how the kernel checks capabilities in
an associated user namespace when a process attempts a privileged
operation.
Michael Kerrisk
Correct kernel version where XFS added support for user namespaces
Linux 3.12, not 3.11.

Michael Kerrisk
SEE ALSO: add ptrace(2)
SEE ALSO: add cgroup_namespaces(7)

utf-8.7:
Shawn Landden
Include RFC 3629 and clarify endianness which is left ambiguous
The endianness is suggested by the order the bytes are displayed,
but the text is ambiguous.

========== Changes in man-pages-4.08 ==========

Released: 2016-10-08, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated
in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
----

quotactl.2
  Eugene Syromyatnikov [Michael Kerrisk]
    Updated information regarding disk quota flags
      Added information regarding DQF_SYS_FILE flag; updated definition
      of V1_DQF_RSQUASH, which has been defined privately and defined
      publicly as DQF_ROOT_SQUASH.
  Eugene Syromyatnikov
    Updated information regarding XFS-specific quotactl subcommands
      Added information regarding
 structure definitions used for
      XFS-specific subcommands, updated flag constants, added
      information regarding ignored syscall arguments, added notes on
      usage of kernel UAPI header.
  Eugene Syromyatnikov
    Additions regarding project quotas
      Added information regarding presence of project quotas.

bswap.3
  Michael Kerrisk
    New page documenting bswap_16(), bswap_32(), and bswap_64()

cgroups.7
  Michael Kerrisk
    Substantial rewrites, additions, and corrections.

Newly documented interfaces in existing pages
---

readv.2
  Michael Kerrisk
    Document the pwritev2() RWF_SYNC and RWF_DSYNC flags

proc.5
  Michael Kerrisk
    Document /proc/PID/seccomp
  Jann Horn
    Document /proc/[pid]/task/[tid]/children
      Document the /proc/[pid]/task/[tid]/children interface from
      CRIU, and more importantly, document why it's usually not

   a good interface.

New and changed links
---

bswap_16.3
bswap_32.3
bswap_64.3
    New link to new bswap.3

Global changes

Various pages
  Michael Kerrisk
    Fix section ordering
      Various pages had sections in an order different from
      that prescribed in man-pages(7).

Various pages
  Michael Kerrisk [Mike Frysinger]
    Consistently use /proc/[pid] (not /proc/PID)

Various pages
  Michael Kerrisk
    Fix order of SEE ALSO entries
      Entries should be ordered first by section, and then alphabetically
      within the section.

Various pages
  Michael Kerrisk
    Order ERRORS alphabetically

Various pages
  Michael Kerrisk
    Remove section number from page self reference
      Fix places where pages refer to the function that they describe
      and include a section number in that reference. Such references
      cause some HTML-rendering tools to create self-references
in the
      page.

A few pages
  Michael Kerrisk
    Eliminate groff "cannot adjust line" warnings

Changes to individual pages
----

pldd.1
  Michael Kerrisk [Carlos O'Donell]
    Note gdb(1) command that can be used as a replacement for pldd
      Taken from Carlos O'Donnell's suggestion in
      https://sourceware.org/bugzilla/show_bug.cgi?id=18035#c2
  Michael Kerrisk
    BUGS: pldd has not worked since glibc 2.19

accept.2
  Michael Kerrisk
    Mention epoll(7) alongside poll()/select()
  Michael Kerrisk
    Demote discussion of DECNet to NOTES
      DECNet ceased to be important long ago...

adjtimex.2
  Nikola Forró
    Fix kernel version references

chroot.2
  Michael Kerrisk
    Note user namespace requirements for CAP_SYS_CHROOT

clone.2
  Keno Fischer [Josh Triplett]
    Adjust syscall prototype and expand CLONE_SETTLS description
  Michael Kerrisk [Josh Triplett,

Josh Triplett]
    Document raw syscall interfaces on various other architectures
  Michael Kerrisk
    Change types for 'ptid' and 'ctid' in syscall prototypes
      These types changed from 'void *' to 'int *' back in Linux 3.8.
  Michael Kerrisk
    EINVAL is generated by glibc wrapper for NULL 'fn' or 'child_stack'
      Clarify that this error is produced by the wrapper function, not
      the underlying system call. In particular, the point is that the
      raw system call can accommodate a NULL pointer for 'child_stack'.
  Michael Kerrisk [Elliott Hughes]
    Make the implications of CLONE_FILES more explicit
      If CLONE_FILES is not set, the duplicated FDs nevertheless share
      file offset and status flags via the open file description.
  Michael Kerrisk
    Mention kcmp() under notes

close.2
  Michael Kerrisk
    Add mention of the close-on-exec flag
  Michael Kerrisk
    Clarify discussion
 noting that close() does not flush buffer cache

epoll_wait.2
  Mike Crowe
    Clarify that the timeout is measured against CLOCK_MONOTONIC

execve.2
  Michael Kerrisk
    Mention use of 'environ' to access environment list
  Michael Kerrisk
    Note that real UID, real GID, and supplementary GIDs are unchanged

fanotify_init.2
  Heinrich Schuchardt
    Update BUGS information

fcntl.2
  Michael Kerrisk
    Note an important detail of F_SETOWN permission rules for signals
      F_SETOWN records the caller's credentials at the time of
      the fcntl() call, and it is these saved credentials that
      are used for subsequent permission checks.
  Michael Kerrisk
    Make the description of the effect of close-on-exec a little clearer
  Michael Kerrisk
    Clarify that F_GETFD and F_GETFL return flags via the function result

fork.2
  Michael Kerrisk
    PID of new process also does not match any existing session ID

fsync.2
  Michael Kerrisk
    SEE ALSO: add pwritev(2)
      Since Linux 4.7, pwritev() has flags related to I/O
      integrity completion.

getdomainname.2
  Michael Kerrisk
    Note user namespace requirements for CAP_SYS_ADMIN

getgroups.2
  Michael Kerrisk
    Note user namespace requirements for CAP_SETGID

gethostname.2
  Michael Kerrisk
    Note user namespace requirements for CAP_SYS_ADMIN

getrlimit.2
  Michael Kerrisk
    Note user namespace semantics for CAP_SYS_RESOURCE

getsid.2
  Michael Kerrisk
    Rework description to be somewhat clearer
  Michael Kerrisk
    Correct the definition of "session ID"

getunwind.2
  Michael Kerrisk
    Simplify text referring to vdso(7)
      The detail given here is redundant, since this info is also
      in vdso(7).

kcmp.2
  Michael Kerrisk
    Add an example program

kill.2
  Michael Kerrisk
    Note the user namespace requirement for CAP_KILL

killpg.2

Michael Kerrisk
Refer reader to kill(2) for signal permission rules

mlock.2
Sebastian Andrzej Siewior
Document that fork() after mlock() may be a bad idea in a RT process

mmap.2
Jann Horn
Describe treatment of 'offset' for MAP_ANONYMOUS
Michael Kerrisk [Siward de Groot]
Small improvement to description of MAP_SHARED
See https://sourceware.org/bugzilla/show_bug.cgi?id=6887

msgctl.2
msgget.2
msgop.2
semctl.2
semget.2
semop.2
shmctl.2
shmget.2
shmop.2
Michael Kerrisk
Note the user namespace requirements for CAP_IPC_OWNER

open.2
Michael Kerrisk
Clarify user namespace capability requirements for O_NOATIME
Michael Kerrisk
NOTES: kcmp() can be used to test if two FDs refer to the same OFD
Michael Kerrisk
F2FS support for O_TMPFILE was added in Linux 3.16
Michael Kerrisk
Clarify the rules about how the group ID of a new file is determined

prctl.2
Michael Kerrisk

Refer to proc(5) for effects of dumpability on ownership of /proc/PID/*
Michael Kerrisk
ERRORS: Add EACCES error for PR_SET_SECCOMP-SECCOMP_MODE_FILTER
Michael Kerrisk
Simplify list of cases where "dumpable" attribute is reset
Michael Kerrisk
Note user namespace requirements for PR_CAPBSET_DROP CAP_SETPCAP

readlink.2

Michael Kerrisk [Ursache Vladimir]
Make example program handle links that report a size of zero
Some "magic" symlinks created by the kernel (e.g., those under
/proc and /sys) report 'st_size' as zero. Modify the example
program to handle that possibility.
Michael Kerrisk
Emphasize that truncation of returned buffer generates no error

readv.2
Michael Kerrisk [Christoph Hellwig]
Clarify that RWF_DSYNC and RWF_SYNC apply only to data being written
Michael Kerrisk
Add preadv2() and pwritev2() to NAME line

reboot.2
Michael Kerrisk
Note user
namespace requirements around CAP_SYS_BOOT

rename.2
Michael Kerrisk [Tim Savannah]
Clarify that ERRORS may cause rename to fail (not to be nonatomic)

sched_setaffinity.2
Michael Kerrisk
Note user namespace requirements for CAP_SYS_NICE

seccomp.2
Michael Kerrisk
CAP_SYS_ADMIN is required only in caller's user namespace

select_tut.2
Peter Wu
Fix various issues in example program

seteuid.2
Michael Kerrisk
Note user namespace requirements for CAP_SETUID and CAP_SETGID

setgid.2
Michael Kerrisk
Note user namespace requirements for CAP_SETGID

setpgid.2
Michael Kerrisk
Add a reference to credentials(7)

setpgid.2

setsid.2
  Michael Kerrisk
    Relocate some text on sessions and sessions leaders
      Some text that was in setpgid(2) is better placed in setsid(2).

setresuid.2
  Michael Kerrisk
    Note user namespace requirements for CAP_SETUID

setreuid.2
  Michael Kerrisk

   Note user namespace requirements for CAP_SETUID and CAP_SETGID

setsid.2
  Michael Kerrisk
    Refer to credentials(7) for details for details on controlling terminal
      Refer to credentials(7) for details of how a session obtains
      a controlling terminal.

set_thread_area.2
  Michael Kerrisk
    Add get_thread_area() to NAME

setuid.2
  Michael Kerrisk
    Note user namespace requirements for CAP_SETUID

sigprocmask.2
  Keno Fischer
    Expand/clarify libc/kernel sigset_t difference

stat.2
  Michael Kerrisk [Ursache Vladimir, Mats Wichmann]
    Improve discussion of 'st_size' for /proc and /sys files
  Michael Kerrisk
    _BSD_SOURCE and _SVID_SOURCE no longer expose nanosecond timestamps

umask.2
  Michael Kerrisk
    Provide a rationale for the existence of /proc/PID/status 'Umask' field

wait.2
  Michael Kerrisk
    Remove erroneous statement that waitpid() is implemented via wait4()
      There is a fallback
 to wait4(), but only if the kernel does
      not provide a waitpid() system call.

bindresvport.3
rcmd.3
ip.7
  Michael Kerrisk
    Note user namespace requirements for CAP_NET_BIND_SERVICE

byteorder.3
  Michael Kerrisk
    SEE ALSO: add bswap(3)

dlopen.3
  Michael Kerrisk
    dlmopen() is still broken in glibc 2.24

endian.3
  Michael Kerrisk
    SEE ALSO: add bswap(3)

ffs.3
  Michael Kerrisk [Stefan Tauner]
    Correct feature test macro requirements

fmemopen.3
  Michael Kerrisk [Rich Felker]
    Remove bogus suggestion to use setbuffer()

getlogin.3
  Michael Kerrisk
    Update feature test macro requirements for cuserid()

getumask.3
  Michael Kerrisk
    Note that getumask() is still unavailable in glibc 2.24
  Michael Kerrisk
    Point to umask(2) for a thread-safe way to discover process's umask

mkstemp.3
  Quentin Rameau
    Fix _POSIX_C_SOURCE value for mkstemp()
      The correct _POSIX_C_SOURCE
 value has always been 200809L,
      not 200112L.

pthread_join.3
  Michael Kerrisk [Mats Wichmann]
    Note that the caller might do clean up after joining with a thread
  Michael Kerrisk []

Clarify use of 'retval' pointer

resolver.3
Ray Bellis
Correct arguments to res_ninit(res_state statep)

strverscmp.3
Michael Kerrisk
Add an example program

wcstombs.3
Michael Kerrisk [Igor Liferenko]
wcsrtombs() does not provide thread-safe interface to same functionality
See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=741360

core.5
Mike Frysinger [Michael Kerrisk]
Add more details for output paths and the crash handler
People sometimes assume that the crash handler runs in the same
context as the crashing process. They would be incorrect :).

proc.5
Mike Frysinger
Clarify the root symlink and mount namespaces
If the target process is in a different
mount namespace, the root
symlink actually shows that view of the filesystem.
Michael Kerrisk [Mike Frysinger]
Expand discussion of /proc/[pid]/root
Add a shell example showing that /proc/[pid]/root is more
than a symlink. Based on an example provided by Mike Frysinger
in an earlier commit message.
Michael Kerrisk
Explain rules determining ownership of /proc/PID/* files
Describe the effect of the "dumpable" attribute on ownership
of /proc/PID files.
Michael Kerrisk
Note effect of 'suid_dumpable' on ownership of /proc/PID files
Michael Kerrisk
Refer to ptrace(2) for info on effect of suid_dumpable on ptraceability
Michael Kerrisk
Add reference to core(5) in discussion of 'suid_dumpable'
Michael Kerrisk
Note that 'suid_dumpable' mode 1 is insecure
Michael Kerrisk
Document /proc/meminfo '+ShmemHugePages' and 'ShmemPmdMapped' fields

Michael Kerrisk
Document /proc/PID/status 'RssAnon', 'RssFile', and 'RssShmem' fields
Michael Kerrisk
Document /proc/PID/status 'HugetlbPages' field
Michael Kerrisk [Zefram]
Clarify that /proc/PID/statm 'shared' field counts *resident* pages
See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=741360
Michael Kerrisk
Add reference to umask(2) in discussion of /proc/PID/status 'Umask'
Michael Kerrisk
Clarify user namespace requirements for /proc/sys/fs/protected_hardlinks
Michael Kerrisk
Note changes to config option governing /proc/[pid]/task/[tid]/children
Michael Kerrisk
Clarify description of /proc/PID/statm 'lib' and 'dt' fields
These fields are always zero since Linux 2.6.
Namhyung Kim [Petr Cermak]
Add description of CLEAR_REFS_MM_HIWATER_RSS
Michael Kerrisk
Update example VM values in /proc/PID/status

capabilities.7
Michael Kerrisk
Add
note about nosuid to file capabilities section
Michael Kerrisk
SEE ALSO: add proc(5)
Michael Kerrisk
SEE ALSO: add setsid(2) and setpgid(2)

glob.7
Michael Kerrisk [Arnaud Gaillard]
Clarify that syntactically incorrect patterns are left unchanged

packet.7
Michael Kerrisk
Clarify user namespace requirements for CAP_NET_RAW

pipe.7
Michael Kerrisk [Patrick McLean]
Document FIONREAD

raw.7
Michael Kerrisk
Clarify user namespace requirements for CAP_NET_RAW
Also remove mention of UID 0 as a method or creating
a raw socket. As far as I can tell from reading the
kernel source (net/ipv4/af_inet.c), this is not true.

socket.7
  Michael Kerrisk
    SIOCSPGRP: refer to fcntl(2) F_SETOWN for correct permission rules
      The permission rules described for SIOCCPGRP are wrong. Rather
      than repeat the rules here, just refer the reader to fcntl(2),
      where
 the rules are described for F_SETOWN.

unix.7
  Michael Kerrisk [Laurent Georget, Ivan Kharpalev]
    Remove mention of recvmsg() from discussion of EPIPE error
      See https://bugzilla.kernel.org/show_bug.cgi?id=137351

ld.so.8
  Michael Kerrisk
    Expand description of LD_DEBUG
      Provide a list of the categories, and note that multiple
      categories can be specified.
  Michael Kerrisk
    Add glibc version for LD_USE_LOAD_BIAS
  Michael Kerrisk
    Clarify text describing whether secure-mode programs preload libraries
  Michael Kerrisk
    Remove discussion of environment variables understood by libc5
      libc5 disappeared long ago, so cease cluttering up this page
      with those ancient details. Thus, remove discussion of the
      following environment variables: LD_AOUT_LIBRARY_PATH,
      LD_AOUT_PRELOAD, LD_KEEPDIR, LD_NOWARN, and LDD_ARGV0.
  Michael Kerrisk
    Remove text with ancient
 libc4 and Linux libc details
  Michael Kerrisk
    Remove mention of "ELF only"
      Drawing a distinction between ELF-only features versus a,out
      ceased to be relevant long ago, so cluttering the page
      with "ELF-only" serves no purpose.

========== Changes in man-pages-4.09 ==========

Released: 2016-12-12, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

pkey_alloc.2
  Dave Hansen [Michael Kerrisk]
    New page documenting pkey_alloc(2) and pkey_free(2)

pthread_getattr_default_np.3
  Michael Kerrisk
    New page documenting pthread_getattr_default_np(3) and pthread_setattr_default_np(3)

strfromd.3
  Wainer dos Santos Moschetta
    New page documenting strfromd(3), strfromf(3), and strfroml(3)
      The ISO/IEC TS 18661-1 specifies the strfrom() class
      of functions that convert a float-point value to string.

fuse.4
  Keno Fischer [Michael Kerrisk]
    New page describing /dev/fuse
      This is my writeup of a basic description of /dev/fuse after
      playing with it for a few hours today. It is of course
 woefully
      incomplete, and since I neither have a use case nor am working
      on this code, I will not be in a position to expand it in the
      near future. However, I'm hoping this could still serve as a
      handy reference for others looking at this interface.

      [mtk: Notwithstanding the incompleteness of this page,
      it's a good base for future extension.]

tmpfs.5
  Michael Kerrisk
    New page documenting the tmpfs filesystem

pkeys.7
  Dave Hansen [Michael Kerrisk]
    New page with overview of Memory Protection Keys

random.7
  Michael Kerrisk [Theodore Ts'o, Nikos Mavrogiannopoulos, Laurent Georget]
    New page providing an overview of interfaces for obtaining randomness
      Contains material extracted from getrandom(2) and random(4),

as well as new material.

sock_diag.7
Pavel Emelyanov, Dmitry V. Levin
New page documenting NETLINK_SOCK_DIAG interface

close.2
getpriority.2
nice.2
timer_create.2
timerfd_create.2
random.4
elf.5
proc.5
sched.7
Various authors
These pages also saw substantial updates, as described under
"Changes to individual pages".

Newly documented interfaces in existing pages
---

mmap.2
Michael Kerrisk
Add (much) more detail on MAP_GROWSDOWN

mprotect.2
Dave Hansen
Document the new pkey_mprotect() system call
Eugene Syromyatnikov
Document PROT_SEM, PROT_SAO, PROT_GROWSUP, and PROT_GROWSDOWN

prctl.2
Eugene Syromyatnikov
Document PR_SET_FP_MODE and PR_GET_FP_MODE

perf_event_open.2
Vince Weaver
PERF_RECORD_SWITCH support
Linux 4.3 introduced two new record types for recording context
switches: PERF_RECORD_SWITCH and PERF_RECORD_SWITCH_CPU_WIDE.
Vince Weaver
Add PERF_SAMPLE_BRANCH_CALL branch sample type
Vince Weaver
PERF_SAMPLE_BRANCH_IND_JUMP branch_sample_type
Linux 4.2 added a new branch_sample_type: PERF_SAMPLE_BRANCH_IND_JUMP
Vince Weaver

Document PERF_RECORD_MISC_PROC_MAP_PARSE_TIMEOUT
Vince Weaver
Document sample_max_stack and /proc/sys/kernel/perf_event_max_stack
Linux 4.8 added a new sample_max_stack parameter, as well as
/proc/sys/kernel/perf_event_max_stack which limits it and a new
EOVERFLOW error return.
Dave Hansen
PERF_RECORD_LOST_SAMPLES record type
Linux 4.2 added a new record type: PERF_RECORD_LOST_SAMPLES
It is generated when hardware samples (currently only Intel PEBS)
are lost.

ptrace.2
Michael Kerrisk
Document PTRACE_SECCOMP_GET_FILTER
Michael Kerrisk
Document PTRACE_GET_THREAD_AREA and PTRACE_SET_THREAD_AREA

namespaces.7
Michael Kerrisk [Eric W. Biederman]
Document the NS_GET_USERNS and NS_GET_PARENT ioctl() operations

sched.7
Michael Kerrisk [Mike Galbraith]
Document the autogroup feature
Includes documenting autogroup nice value
Michael Kerrisk
Autogrouping breaks traditional semantics of nice in many cases
When autogrouping is enabled (the default in many distros)
there are many traditional use cases where the nice value
ceases to have any effect.
Michael Kerrisk
Add a subsection on nice value and group scheduling

New and changed links
---

killpg.2
Michael Kerrisk
New link to relocated killpg(3) page

pkey_free.2
Michael Kerrisk
New link to new pkey_alloc(2) page

pkey_mprotect.2
Michael Kerrisk

New link to mprotect(2)

pthread_setattr_default_np.3
  Michael Kerrisk
    New link to new pthread_getattr_default_np.3

strfromf.3
  Wainer dos Santos Moschetta
    New link to strfromd(3)

strfroml.3
  Wainer dos Santos Moschetta
    New link to strfromd(3)

Global changes

Various
 pages
  Michael Kerrisk
    Remove ancient libc4 and libc5 details
      It's nearly 20 years now since Linux libc went away.
      Remove some ancient details from the pages.

Various pages
  Michael Kerrisk
    Add cross references to new tmpfs(5) page

Various pages
  Michael Kerrisk
    Change section number from 2 to 3 in killpg() references

Changes to individual pages
---

accept.2
  Michael Kerrisk
    Remove editorializing comments about 'socklen_t'
  Michael Kerrisk
    Simplify the discussion of 'socklen_t'
      We don't really need to list the old OSes in this discussion.

adjtimex.2
clock_getres.2
gettimeofday.2
  Michael Kerrisk

SEE ALSO: add hwclock(8)

bind.2
connect.2
getpeername.2
getsockname.2
getsockopt.2
  Michael Kerrisk
    Replace discussion of 'socklen_t' with reference to accept(2)
      The discussion of 'socklen_t' editorializes and is repeated

   across several pages. Replace it with a reference to accept(2),
      where some details about this type are provided.

chmod.2
  Michael Kerrisk
    SEE ALSO: add chmod(1)

chown.2
  Michael Kerrisk
    SEE ALSO: add chgrp(1) and chown(1)

chroot.2
  Michael Kerrisk
    SEE ALSO: add chroot(1)

clone.2
  Michael Kerrisk
    The CLONE_*_SETTID operations store TID before return to user space
      CLONE_PARENT_SETTID and CLONE_CHILD_SETTID store the new
      TID before clone() returns to user space

close.2
  Michael Kerrisk [Daniel Wagner]
    Rework and greatly extend discussion of error handling
      Further clarify that an error return should be used only
      for diagnostic or remedial purposes.
  Michael Kerrisk
    Other UNIX implementations also close the FD, even if reporting an error
      Looking at some historical source code suggests
      that the "close() always closes regardless of error
 return"
      behavior has a long history, predating even POSIX.1-1990.
  Michael Kerrisk
    Note that future POSIX plans to require that the FD is closed on error
      See http://austingroupbugs.net/view.php?id=529#c1200.
  Michael Kerrisk
    Clarify the variation in EINTR behavior per POSIX and other systems

fallocate.2
  Darrick J. Wong
    Document behavior with shared blocks
      Note that FALLOC_FL_UNSHARE may use CoW to unshare blocks to
      guarantee that a disk write won't fail with ENOSPC.

fanotify_mark.2
  Heinrich Schuchardt
    Mention FAN_Q_OVERFLOW
      To receive overflow events it is necessary to set this bit
      in fanotify_mark().

fcntl.2
  Michael Kerrisk
    F_GETPIPE_SZ allocates next power-of-2 multiple of requested size
      Add some detail about current implementation, since this helps
      the user understand the effect of the user pipe limits added in
      Linux
 4.5 (described in pipe(7)).
  Michael Kerrisk
    Add EPERM that occurs for F_SETPIPE_SZ when user pipe limit is reached

fideduperange.2
  Darrick J. Wong [Omar Sandoval]
    Fix the discussion of maximum sizes
      Fix the discussion of the limitations on the dest_count and
      src_length parameters to the fideduperange ioctl() to reflect
      what's actually in the kernel.

fsync.2
  Michael Kerrisk
    SEE ALSO: add fileno(3)
      fileno(3) is useful if one is combining fflush(3)/fclose(3)
      and fsync(2).
  Michael Kerrisk
    SEE ALSO: add fflush(3)

getgroups.2
  Andrew Clayton
    FTM requirements fix for setgroups(2)

gethostname.2
  Michael Kerrisk
    SEE ALSO: add hostname(1)

get_mempolicy.2
  Michael Kerrisk

Note that 'addr' must be NULL when 'flags' is 0

getpriority.2
  Michael Kerrisk
    Warn that autogrouping voids the effect of 'nice' in many cases
      Refer the reader
 to sched(7) for the details.
  Michael Kerrisk
    Expand discussion of getpriority() return value
  Michael Kerrisk
    The nice value supplied to setpriority() is clamped
      Note that the nice value supplied to setpriority() is clamped
      to the permitted range.
  Michael Kerrisk
    Improve description of setpriority() return value

getpriority.2
sched.7
  Michael Kerrisk
    Move nice value details from getpriority(2) to sched(7)
      Centralizing these details in sched(7) is more logical.

getrandom.2
random.4
  Michael Kerrisk
    Consolidate and improve discussion on usage of randomness
      Currently, recommendations on how to consume randomness are
      spread across both getrandom(2) and random(4) and the general
      opinion seems to be that the text in getrandom(2) does a
      somewhat better job. Consolidate the discussion to a single
      page (getrandom(2)) and address some of the
 concerns
      expressed about the existing text in random(4).
      [Some of this text ultimately made its way into the new
      random(7) page.]

getrandom.2
  Michael Kerrisk
    Remove material incorporated into random(7)
  Michael Kerrisk
    Note advantages of fact that getrandom() doesn't use file descriptors
  Michael Kerrisk
    Clarify that getrandom() is not "reading" from /dev/{random,urandom}

getrlimit.2
  Michael Kerrisk
    Refer to sched(7) in discussion of RLIMIT_RTPRIO and RLIMIT_RTTIME
  Michael Kerrisk

Describe the range of the RLIMIT_NICE limit
Michael Kerrisk
Refer to sched(7) in the discussion of RLIMIT_NICE
Michael Kerrisk
SEE ALSO: add credentials(7)

ioctl_ficlonerange.2
ioctl_fideduperange.2
Darrick J. Wong
Clarify the behavior of the FIDEDUPERANGE ioctl

kill.2
Michael Kerrisk
SEE ALSO: add kill(1)

mbind.2
Michael Kerrisk [Christoph Lameter]

Memory policy is a per-thread attribute, not a per-process attribute

mbind.2
set_mempolicy.2
Piotr Kwapulinski [Christoph Lameter, Michael Kerrisk]
Add MPOL_LOCAL NUMA memory policy documentation

mount.2
Michael Kerrisk
SEE ALSO: add mountpoint(1)

mprotect.2
Michael Kerrisk
CONFORMING TO: note that pkey_mprotect() is Linux-specific

nice.2
Michael Kerrisk
Warn that autogrouping voids the effect of 'nice' in many cases
Michael Kerrisk
CONFORMING TO: Remove an ancient SVr4 detail on errno values
Michael Kerrisk
Rework discussion of nice() return value and standards conformance
Make the text a little clearer. In particular, clarify that the
raw system call (still) returns 0 on success.
Michael Kerrisk
Clarify the range of the nice value, and note that it is clamped
Michael Kerrisk
Add mention of RLIMIT_NICE
Michael Kerrisk
Move discussion of handling the

-1 success return to RETURN VALUE
        This detail was rather hidden in NOTES. Also, rework the text
        a little.
  Michael Kerrisk
    Clarify that nice() changes the nice value of the calling *thread*
  Michael Kerrisk
    Add "C library/kernel differences" subsection heading
  Michael Kerrisk
    Add reference to sched(7) for further details on the nice value

open.2
  Michael Kerrisk
    ubifs supports O_TMPFILE starting with Linux 4.9
  Michael Kerrisk
    Document ENOMEM that occurs when opening FIFO because of pipe hard limit

perf_event_open.2
  Vince Weaver
    Add cycles field in LBR records
      Linux 4.3 added a cycles field to the PERF_SAMPLE_BRANCH_STACK
      last branch records.
  Vince Weaver
    Update time_shift sample code
      Linux 4.3 improved the accuracy of the clock/ns conversion routines.
  Michael Kerrisk
    Clarify the use of signals for capturing overflow events

pipe.2
   Michael Kerrisk
    Add ENFILE error for user pipe hard limit reached

prctl.2
  Eugene Syromyatnikov
    Some additional details regarding the PR_GET_UNALIGNED operation
  Eugene Syromyatnikov
    Note the output buffer size for PR_GET_TID_ADDRESS operation on x32/n32
  Michael Kerrisk
    Remove numeric definitions of PR_FP_MODE_FR and PR_FP_MODE_FRE bits

ptrace.2
  Keno Fischer
    Document the behavior of PTRACE_SYSEMU stops
  Keno Fischer
    Expand documentation PTRACE_EVENT_SECCOMP traps
      In Linux 4.8, the order of PTRACE_EVENT_SECCOMP and
      syscall-entry-stops was reversed. Document both behaviors and
      their interaction with the various forms of restart.

quotactl.2
  Eugene Syromyatnikov
    Describe Q_XQUOTASYNC, which is present but no-op in recent kernels

reboot.2
  Wang Long
    Note errors for invalid commands inside a PID namespace

sched_setattr.2
  Michael Kerrisk
    Fix cross reference
 for further info on the nice value
      The information moved from getpriority(2) to sched(7).

sched_setscheduler.2
  Michael Kerrisk [Daniel Berrange]
    Mention SCHED_DEADLINE
      Give the reader a clue that there is another policy
      available that can't be set via sched_setscheduler(2).

seccomp.2
  Jann Horn
    Document changed interaction with ptrace
      Before kernel 4.8, the seccomp check will not be run again
      after the tracer is notified. Fixed in kernel 4.9.
  Michael Kerrisk
    NOTES: mention ptrace(PTRACE_SECCOMP_GET_FILTER) to dump seccomp filters

set_mempolicy.2
  Michael Kerrisk
    Reformat list of modes

setsid.2
  Michael Kerrisk
    Improve wording of text on calling setsid() after fork()+_exit()
  Michael Kerrisk
    SEE ALSO: add sched(7)
      List sched(7), because setsid(2) is part of the machinery
      of autogrouping.

sigaction.2
  Dave Hansen

 Further documentation of SEGV_PKUERR

signalfd.2
  Michael Kerrisk
    Document ssi_addr_lsb field of signalfd_siginfo

symlink.2
  Michael Kerrisk
    SEE ALSO: add namei(1)

sync_file_range.2
  Michael Kerrisk
    Fix description for ESPIPE error
      A file descriptor can't refer to a symbolic link.

syscalls.2
  Michael Kerrisk
    Add pkey_alloc(), pkey_free(), and pkey_mprotect()
      New system calls in Linux 4.9.
  Michael Kerrisk
    Add ppc_swapcontext(2)

timer_create.2
  Michael Kerrisk
    Document CLOCK_BOOTTIME
  Michael Kerrisk
    Document CLOCK_REALTIME_ALARM and CLOCK_BOOTTIME_ALARM

timerfd_create.2
  Michael Kerrisk
    Document CLOCK_BOOTTIME, CLOCK_REALTIME_ALARM, and CLOCK_BOOTTIME_ALARM
  Michael Kerrisk
    Document TFD_TIMER_CANCEL_ON_SET
  Michael Kerrisk
    Rework discussion on relative and absolute timers

unlink.2
  Michael Kerrisk
    SEE ALSO: add unlink(2)

utime.2
utimensat.2
   Michael Kerrisk
    SEE ALSO: add touch(1)

wait.2
  Michael Kerrisk
    On some architectures, waitpid() is a wrapper that calls wait4().

atof.3
  Wainer dos Santos Moschetta
    SEE ALSO: add strfromd(3)

ctime.3
  Michael Kerrisk
    Add ERRORS section
  Michael Kerrisk
    RETURN VALUE: describe return values more explicitly

errno.3
  Michael Kerrisk [Igor Liferenko]
    Add glibc error text for EILSEQ

fclose.3
fflush.3
  Michael Kerrisk
    SEE ALSO: add fileno(2)

getlogin.3
  Michael Kerrisk
    Remove deprecated _REENTRANT from FTM requirements for getlogin_r()
  Michael Kerrisk
    SEE ALSO: add logname(1)

isalpha.3
  Michael Kerrisk
    Note circumstances where 'c' must be cast to 'unsigned char'

killpg.3
  Michael Kerrisk
    Move killpg.2 from section to section 3

mallopt.3
  Michael Kerrisk [Siddhesh Poyarekar]
    Document 0 as default value of M_ARENA_MAX and explain its meaning
  Michael
 Kerrisk
    Improve description of M_ARENA_TEST
  Michael Kerrisk
    Document default value for M_ARENA_TEST
  Michael Kerrisk
    Note default value of M_PERTURB

mbsnrtowcs.3
  Michael Kerrisk [Igor Liferenko]
    Note behavior of mbsnrtowcs() for an incomplete character
      Note the behavior of mbsnrtowcs() when an incomplete character
      is found at end of the input buffer.

mbstowcs.3
wcstombs.3

Michael Kerrisk [Igor Liferenko]
Improve language relating to "initial state"
See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=839705

mbstowcs.3
Michael Kerrisk [Igor Liferenko]
Add missing include to example program
See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=845172

mq_close.3
Michael Kerrisk
DESCRIPTION: add reference to mq_notify(3)

mq_open.3
Eugene Syromyatnikov
Clarification regarding usage of mq_flags attribute in mq_open()

mq_receive.3
mq_send.3
Eugene Syromyatnikov
Clarification regarding reasons behind EBADF

printf.3
Wainer dos Santos Moschetta
SEE ALSO: add strfromd(3)

pthread_attr_init.3
Michael Kerrisk
SEE ALSO: add pthread_setattr_default_np(3)

pthread_create.3
Michael Kerrisk
SEE ALSO: add pthread_setattr_default_np(3)

ptsname.3
Michael Kerrisk
Note that ptsname_r() is proposed for future inclusion in POSIX.1
Michael Kerrisk
CONFORMING TO:: clarify that only ptsname() is standardized (so far)

remainder.3
Michael Kerrisk
Note fix to remainder(nan(""), 0) handling
The bug https://www.sourceware.org/bugzilla/show_bug.cgi?id=6779
has been fixed in glibc 2.15.
Michael Kerrisk
Document fixes for EDOM handling for range errors
The bug http://sources.redhat.com/bugzilla/show_bug.cgi?id=6783

was fixed in glibc 2.15.

setjmp.3
  Michael Kerrisk
    _BSD_SOURCE must be *explicitly*
 defined to get BSD setjmp() semantics

strtod.3
  Wainer dos Santos Moschetta
    SEE ALSO: add strfromd(3)

tgamma.3
  Michael Kerrisk
    Document fixes to give ERANGE for underflow range error
      The bug https://www.sourceware.org/bugzilla/show_bug.cgi?id=6810
      was fixed in glibc 2.19.

timegm.3
  Michael Kerrisk
    Add ERRORS section
  Michael Kerrisk [Vincent Lefevre]
    Add RETURN VALUE section

tmpnam.3
  Michael Kerrisk
    Properly document tmpnam_r(3)

toupper.3
  Michael Kerrisk
    Note circumstances where 'c' must be cast to 'unsigned char'

ttyname.3
  Michael Kerrisk
    SEE ALSO: add tty(1)

console_ioctl.4
  Michael Kerrisk
    Add brief descriptive text for KDGKBMODE modes
  Miroslav Koskar
    Add K_OFF keyboard mode

random.4
  Michael Kerrisk
    Add reference to new random(7) page
  Michael Kerrisk
    Rework formatting of /proc interfaces
      Make the information

easier to parse by formatting the file
descriptions as hanging lists. No significant content changes.
Nikos Mavrogiannopoulos [Laurent Georget]
Provide a more accurate description of /dev/urandom
This documents the "property" of /dev/urandom of being able to
serve numbers prior to pool being initialized, and removes any
suggested usages of /dev/random which are disputable
(i.e., one-time pad). Document the fact /dev/random is only
suitable for applications which can afford indeterminate delays
since very few applications can do so. Smooth the alarming
language about a theoretical attack, and mention that its
security depends on the cryptographic primitives used by the
kernel, as well as the total entropy gathered.
Michael Kerrisk [Laurent Georget, Theodore Ts'o]
Improve discussion of /dev/urandom, blocking reads, and signals
The
text currently states that O_NONBLOCK has no effect for
/dev/urandom, which is true. It also says that reads from
/dev/urandom are nonblocking. This is at the least confusing.
If one attempts large reads (say 10MB) from /dev/urandom
there is an appreciable delay, and interruption by a signal
handler will result in a short read. Amend the text to
reflect this.

elf.5
Mike Frysinger
Add subsection headers at major points
The current pages dumps all the content into one big DESCRIPTION
with no real visual break up between logically independent
sections. Add some subsection headers to make it easier to
read and scan.
Mike Frysinger
Document notes
Document the Elf{32,64}_Nhdr structure, the sections/segments that
contain notes, and how to interpret them. I've been lazy and only
included the GNU extensions here,
especially as others are not
defined in the elf.h header file as shipped by glibc.

filesystems.5
Michael Kerrisk
SEE ALSO: add fuse(4)

proc.5
Dave Hansen
Describe new ProtectionKey 'smaps' field
Michael Kerrisk
Add example ProtectionKey output for 'smaps' file

Michael Kerrisk
Add pointers to sched(7) for autogroup files
sched(7) describes /proc/sys/kernel/sched_autogroup_enabled
and /proc/PID/autogroup.
Michael Kerrisk
Add /proc/sys/fs/pipe-user-pages-{hard,soft} entries
Michael Kerrisk
Improve description of the KernelPageSize and MMUPageSize 'smaps' fields
Michael Kerrisk
Rework 'smaps' ProtectionKey text and add some details
Michael Kerrisk
Mention lslocks(8) in discussion of /proc/locks
Michael Kerrisk
Describe Shmem field of /proc/meminfo
Michael Kerrisk
Rework 'smaps' VmFlags text, and add kernel version and example output

proc.5
pipe.7
Michael Kerrisk
Move /proc/sys/fs/pipe-max-size content from proc(5) to pipe(7)

resolv.conf.5
Carlos O'Donell [Florian Weimer]
Timeout does not map to resolver API calls

utmp.5
Michael Kerrisk
SEE ALSO: add users(1)

capabilities.7
Michael Kerrisk
CAP_SYS_ADMIN governs ptrace(2) PTRACE_SECCOMP_GET_FILTER
Michael Kerrisk
CAP_SYS_ADMIN allows privileged ioctl() operations on /dev/random

cgroups.7
Michael Kerrisk
Add details on 'cpu' CFS bandwidth control

credentials.7
Michael Kerrisk
SEE ALSO: add setpriv(1)
Michael Kerrisk
SEE ALSO: add shadow(5)

feature_test_macros.7
Michael Kerrisk [Zack Weinberg]

Note that _REENTRANT and _THREAD_SAFE are now deprecated
Michael Kerrisk
Note that "cc -pthread" defines _REENTRANT

inotify.7
Michael Kerrisk
Note a subtlety of event generation when monitoring a directory

libc.7
Michael Kerrisk

Add a note on why glibc 2.x uses the soname libc.so.6
Michael Kerrisk
Add a few historical details on Linux libc4 and libc5
Just for historical interest. Details taken from
http://www.linux-m68k.org/faq/glibcinfo.html.

mdoc.7
Michael Kerrisk
Add a cross-reference to groff_mdoc(7)

mount_namespaces.7
Michael Kerrisk
SEE ALSO: add user_namespaces(7)

mount_namespaces.7
user_namespaces.7
Michael Kerrisk
Migrate subsection on mount restrictions to mount_namespaces(7)
This section material in the user_namespaces(7) page was written
before the creation of the mount_namespaces(7) manual page.
Nowadays, this material properly belongs in the newer page.

netlink.7
Dmitry V. Levin
Document NETLINK_INET_DIAG rename to NETLINK_SOCK_DIAG
Dmitry V. Levin
Add references to sock_diag(7)

pid_namespaces.7
Michael Kerrisk
Refer to namespaces(7) for information
about NS_GET_PARENT

pipe.7
Michael Kerrisk, Vegard Nossum [Vegard Nossum]
Document /proc files controlling memory usage by pipes
Document /proc/sys/fs/pipe-max-size and

/proc/sys/fs/pipe-user-pages-{soft,hard}.
Michael Kerrisk
Document pre-Linux 4.9 bugs in pipe limit checking

sched.7
Michael Kerrisk
Add a new introductory paragraph describing the nice value
Michael Kerrisk
Add more precise details on CFS's treatment of the nice value
Michael Kerrisk
Mention RLIMIT_NICE in the discussion of the nice value
Michael Kerrisk
NOTES: mention cgroups CPU controller
Michael Kerrisk
Add introductory sentence mentioning CFS scheduler
Michael Kerrisk
Add nice(2), getpriority(2), and setpriority(2) to API list
Michael Kerrisk
Make it clearer that SCHED_OTHER is always scheduled below real-time
Michael Kerrisk
Give the page a more generic NAME

The page isn't just about APIs.

standards.7
Michael Kerrisk
POSIX.1-2016 (POSIX.1-2008 TC2) has now been released

symlink.7
Michael Kerrisk
SEE ALSO: add namei(1)

uri.7
Jakub Wilk
Use "example.com" as example domain

user_namespaces.7
Michael Kerrisk
Add reference to namespaces(7) for NS_GET_USERNS operation
Michael Kerrisk
Add reference to namespaces(7) for NS_GET_PARENT operation

========== Changes in man-pages-4.10 ==========

Released: 2017-03-13, Paris

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

add_key.2
  Michael Kerrisk [Eugene Syromyatnikov, David Howells]
    Major improvements and additions
      The page has doubled in length.

ioctl_iflags.2
  Michael Kerrisk
    New page describing inode flags and ioctl() operations

ioctl_ns.2
  Michael Kerrisk
    New page created by splitting ioctl(2) operations out of namespaces(7)

keyctl.2
  Michael Kerrisk, Eugene Syromyatnikov [David Howells, Mat Martineau]
    A vast number of additions and improvements
      The
page has gone from somewhat over 100 lines to well over
      1000 lines and now more or less documents the complete interface
      provided by this system call.

getentropy.3
  Michael Kerrisk
    New page documenting getentropy(3)
      getentropy(3) is added to glibc in version 2.25.

keyrings.7
  David Howells
    New page (written by David Howells) adopted from keyutils
      Since this page documents kernel-user-space interfaces,
      it makes sense to have it as part of man-pages, rather
      than the keyutils package.
  Michael Kerrisk [Eugene Syromyatnikov, David Howells]
    Very many additions and improvements
  Michael Kerrisk
    Document /proc/keys
  Michael Kerrisk

Document /proc/sys/kernel/keys/persistent_keyring_expiry
Michael Kerrisk
Document /proc/key-users
Michael Kerrisk
Document /proc/sys/kernel/keys/gc_delay
Michael Kerrisk
Document /proc files that define
key quotas

persistent-keyring.7
Michael Kerrisk
New page (written by David Howells) adopted from keyutils
Since this page documents kernel-user-space interfaces,
it makes sense to have it as part of man-pages, rather
than the keyutils package.
Michael Kerrisk
Various clean-ups and additions

process-keyring.7
Michael Kerrisk
New page (written by David Howells) adopted from keyutils
Since this page documents kernel-user-space interfaces,
it makes sense to have it as part of man-pages, rather
than the keyutils package.
Michael Kerrisk
Various additions and improvements

request_key.2
Michael Kerrisk, Eugene Syromyatnikov [David Howells]
Very many additions and improvements
The page is now three times its former length.

session-keyring.7
Michael Kerrisk
New page (written by David Howells) adopted from keyutils
Since
this page documents kernel-user-space interfaces,
it makes sense to have it as part of man-pages, rather
than the keyutils package.
Michael Kerrisk
Various reworking and additions

signal-safety.7
Michael Kerrisk
New page created by migrating the signal-safety discussion from
signal(7). Along the way some more details got added.
Michael Kerrisk [KASAKI Motohiro]
Note async-signal-safety problems caused by pthread_atfork()

See https://bugzilla.kernel.org/show_bug.cgi?id=25292
Michael Kerrisk [KASAKI Motohiro]
Note glibc deviations from POSIX requirements
See https://bugzilla.kernel.org/show_bug.cgi?id=25292

thread-keyring.7
Michael Kerrisk
New page (written by David Howells) adopted from keyutils
Since this page documents kernel-user-space interfaces,
it makes sense to have it as part of man-pages, rather
than the keyutils package.
Michael Kerrisk
Various rewordings and additions

user-keyring.7
Michael Kerrisk
New page (written by David Howells) adopted from keyutils
Since this page documents kernel-user-space interfaces,
it makes sense to have it as part of man-pages, rather
than the keyutils package.
Michael Kerrisk
Various reworking and improvements

user-session-keyring.7
Michael Kerrisk
New page (written by David Howells) adopted from keyutils
Since this page documents kernel-user-space interfaces,
it makes sense to have it as part of man-pages, rather
than the keyutils package.
Michael Kerrisk
Various rewordings and additions

Newly documented interfaces in existing pages
---

bzero.3
Michael Kerrisk
Document explicit_bzero() (new in glibc 2.25)
Also, reword the description of bzero somewhat.

proc.5
Michael
Kerrisk
Document /proc/sys/vm/user_reserve_kbytes
Michael Kerrisk
Document /proc/sys/vm/admin_reserve_kbytes
Michael Kerrisk

Document /proc/sys/fs/mount-max
Michael Kerrisk
Document /proc/PID/status 'NoNewPrivs' field

New and changed links
---

explicit_bzero.3
Michael Kerrisk
New link to bzero.3

Changes to individual pages
---

chmod.2
Michael Kerrisk
ERRORS: add EPERM error for immutable/append-only file

chown.2
Michael Kerrisk
ERRORS: add EPERM error for immutable/append-only file

chroot.2
Michael Kerrisk
SEE ALSO: add switch_root(8)

clock_getres.2
Michael Kerrisk
Note POSIX.1 requirements re relative time services and CLOCK_REALTIME

clone.2
Michael Kerrisk
clone() does not execute fork handlers

execve.2
Michael Kerrisk
Rework text describing when effective IDs aren't transformed by execve()
Michael
Kerrisk
File capabilities can be ignored for the same reasons as set-UID/set-GID
Michael Kerrisk
The 'no_new_privs' bit inhibits transformations of the effective IDs

fork.2
Michael Kerrisk
cgroup PIDs controller may also be trigger for EAGAIN error

fsync.2
  Michael Kerrisk
    SEE ALSO: add posix_fadvise(2)

getrandom.2
  Michael Kerrisk
    Remove getentropy(3) details and defer to new getentropy(3) page
  Michael Kerrisk
    Starting with glibc 2.25, getrandom() is now declared in <sys/random.h>
  Michael Kerrisk
    glibc support was added in version 2.25

getrlimit.2
  Michael Kerrisk
    Document role of RLIMIT_NOFILE for FD passing over UNIX sockets

getxattr.2
listxattr.2
  Andreas Gruenbacher
    Document E2BIG errors

inotify_add_watch.2
  Michael Kerrisk
    Note "inode" as a synonym for "filesystem object"
      Consistent with clarifications just made in inotify(7).

ioctl.2
  Michael Kerrisk
     SEE ALSO: add ioctl_ns(2), ioctl_iflags(2)

ioctl_fat.2
  Brian Masney
    Correctly reference volume ID instead of volume label

kcmp.2
  Michael Kerrisk
    Mention the clone(2) flags relating to various kcmp() 'type' values
  Michael Kerrisk
    KCMP_FILE: note reasons why FDs may refer to same open file description

link.2
  Michael Kerrisk
    When using linkat() AT_EMPTY_PATH, 'olddirfd' must not be a directory
  Michael Kerrisk
    ERRORS: add EPERM for immutable/append-only files
  Michael Kerrisk
    Note limits where EMLINK is encountered on ext4 and Btrfs

listxattr.2
  Michael Kerrisk
    Eliminate extra E2BIG error text
      Andreas' patch added a second description of E2BIG that
      was (mostly) more detailed than the existing text. Combine
      the two texts.

lseek.2
  Michael Kerrisk
    O_APPEND overrides the effect of lseek() when doing file writes
  Michael Kerrisk
    Remove ancient
 info about whence values and return values on old systems
  Michael Kerrisk
    Remove slightly bogus advice about race conditions
      The page already (by now) contains a reference to open(2)
      for a discussion of open file descriptions. Leave it at that,
      since the reader can then deduce how things work.

madvise.2
  Michael Kerrisk
    Note that madvise() is generally about improving performance

mbind.2
  Krzysztof Kulakowski [Michael Kerrisk]
    Update MPOL_BIND description
      The behavior of MPOL_BIND changed in Linux 2.6.26.

mincore.2
  Michael Kerrisk
    SEE ALSO: add madvise(2), posix_fadvise(2), posix_madvise(3)

mlock.2
  Michael Kerrisk
    Note pre-4.9 bug in RLIMIT_MEMLOCK accounting for overlapping locks
  Michael Kerrisk
    SEE ALSO: add mincore(2)

mmap.2
  Michael Kerrisk
    mincore(2) can be used to discover which pages of a mapping are resident

mount.2
  Michael Kerrisk [Rob
 Landley]
    Refer to mount_namespaces(7) for details of default propagation type

nanosleep.2
  Michael Kerrisk
    Describe "creeping sleep" problem
      nanosleep() has a problem if used in a program that catches
      signals and those signals are delivered at a very high rate.
      Describe the problem, and note that clock_nanosleep(2)
      provides a solution.
  Michael Kerrisk
    BUGS: explicitly note that the Linux 2.4 bug was fixed in Linux 2.6

open.2
  Michael Kerrisk
    Make it clear that O_APPEND implies atomicity
  Michael Kerrisk
    Clarify distinction between file creation flags and file status flags
  Michael Kerrisk
    Note ambiguity of ELOOP error when using O_NOFOLLOW
  Michael Kerrisk
    Restructure O_NOFOLLOW text for easier parsing
  Michael Kerrisk
    Clarify that O_NOFOLLOW is now in POSIX

poll.2
select.2
  Nicolas Biscos
    Add a reference to the sigset discussion in sigprocmask(2)
      A little while back, I added a note to sigprocmask.2 that
      discussed the difference between the libc's and the kernel's
      sigset_t structures. I added that note, because I saw this being
      done wrong in a tool tracing system calls (causing subtle bugs).
      As it turns out, the same bugs existed for ppoll and pselect, for
      the same reason. I'm hoping by adding the reference here, future
      writers of similar tools will find that discussion and not make
      the same mistake.

posix_fadvise.2
  Michael Kerrisk
    Mention /proc/sys/vm/drop_caches
      It may be helpful for the reader of this page to know about
      /proc/sys/vm/drop_caches.
  Michael Kerrisk
    Reorganize some text
      Details for various flags were hidden under NOTES.
      Move them to DESCRIPTION, to make the details more
      obvious.
  Michael Kerrisk
    One can use open(2)

+ mmap(2) + mincore(2) as a 'fincore'
Note that open(2) + mmap(2) + mincore(2) can be used to get a view
of which pages of a file are currently cached.
Michael Kerrisk [Maik Zumstrull]
Note that POSIX_FADV_DONTNEED *may* try to write back dirty pages
Michael Kerrisk
SEE ALSO: mincore(2)

prctl.2
Michael Kerrisk
Clarify that the ambient capability set is per-thread
Keno Fischer
Be more precise in what causes dumpable to reset
Michael Kerrisk
The no_new_privs setting is per-thread (not per-process)
Michael Kerrisk
Mention /proc/PID/status 'NoNewPrivs' field
Michael Kerrisk
Add reference to seccomp(2) in discussion of PR_SET_NO_NEW_PRIVS

ptrace.2
Omar Sandoval
Clarify description of PTRACE_O_EXITKILL

read.2
Michael Kerrisk [Kai NODA]
Rework text in DESCRIPTION that talks about limits for 'count'
See https://bugzilla.kernel.org/show_bug.cgi?id=86061
Michael Kerrisk [Steven Luo]
Remove crufty text about EINTR and partial read
Remove bogus text saying that POSIX permits partial read
to return -1/EINTR on interrupt by a signal handler.
That statement already ceased to be true in SUSv1 (1995)!

See https://bugzilla.kernel.org/show_bug.cgi?id=193111

readv.2
Michael Kerrisk
Remove generic advice about mixing stdio and syscalls on same file
There is nothing specific to readv()/writev() about this advice.

recv.2
Michael Kerrisk [Vincent Bernat]
Remove duplicate paragraph
man-pages-1.34 included changes that duplicated an existing
paragraph. Remove that duplicate.
Michael Kerrisk
SEE ALSO: add ip(7), ipv6(7), tcp(7), udp(7), unix(7)

remap_file_pages.2
  Michael Kerrisk
    remap_file_pages() has been replaced by a slower in-kernel emulation

send.2
  Michael Kerrisk
    SEE ALSO: add ipv6(7),
 socket(7), unix(7)

setxattr.2
  Michael Kerrisk
    ERRORS: add EPERM for immutable/append-only files

signalfd.2
  Michael Kerrisk
    signalfd() doesn't play well with helper programs spawned by libraries
      See https://lwn.net/Articles/415684/.
  Michael Kerrisk
    signalfd can't be used to receive synchronously generated signals
      Signals such as the SIGSEGV that results from an invalid
      memory access can be caught only with a handler.

stat.2
  Michael Kerrisk
    EXAMPLE: extend program to also show ID of the containing device
  Michael Kerrisk
    NOTES: mention fstatat() AT_NO_AUTOMOUNT in discussion of automounting

statfs.2
  Namhyung Kim
    Add more filesystem types
      Add missing magic numbers from /usr/include/linux/magic.h

syscall.2
  Mike Frysinger
    Add endian details with 64-bit splitting
      Architectures that split 64-bit values across register pairs
      usually
 do so according to their C ABI calling convention (which
      means endianness). Add some notes to that effect, and change the
      readahead example to show a little endian example (since that is
      way more common than big endian).

      Also start a new list of syscalls that this issue does not apply
      to.
  Mike Frysinger
    Note parisc handling of aligned register pairs

While parisc would normally have the same behavior as ARM/PowerPC,
they decide to write shim syscall stubs to unpack/realign rather
than expose the padding to userspace.

tkill.2
  Jann Horn
    Document EAGAIN error for real-time signals

truncate.2
  Michael Kerrisk
    Note use of ftruncate() for POSIX shared memory objects

unlink.2
  Michael Kerrisk
    ERRORS: add EPERM error for immutable/read-only files

vfork.2
  Michael Kerrisk
    Explain why the child should not call exit(3)
  Michael Kerrisk
     Another reason to use vfork() is to avoid overcommitting memory
  Michael Kerrisk
    Note some caveats re the use of vfork()
      Inspired by Rich Felker's post at http://ewontfix.com/7/.
      See also https://sourceware.org/bugzilla/show_bug.cgi?id=14749 and
      See also https://sourceware.org/bugzilla/show_bug.cgi?id=14750.
  Michael Kerrisk
    SEE ALSO: add _exit(2)

write.2
  Michael Kerrisk [Kai NODA]
    Alert the reader that there is a limit on 'count'
      See https://bugzilla.kernel.org/show_bug.cgi?id=86061

aio_suspend.3
  Michael Kerrisk
    Note that the glibc implementation is not async-signal-safe
      See https://sourceware.org/bugzilla/show_bug.cgi?id=13172

backtrace.3
  Michael Kerrisk
    SEE ALSO: add addr2line(1) and gdb(1)

bcmp.3
bcopy.3
bzero.3
memccpy.3
memchr.3

memcmp.3
memcpy.3
memfrob.3
memmem.3
memmove.3
memset.3
  Michael Kerrisk
    SEE ALSO: add bstring(3)

exec.3
  Michael
 Kerrisk
    execl() and execle() were not async-signal-safe before glibc 2.24

fopen.3
  Michael Kerrisk [Helmut Eller]
    Describe freopen() behavior for NULL pathname argument
      See https://bugzilla.kernel.org/show_bug.cgi?id=191261
  Michael Kerrisk
    Note the open(2) flags that correspond to the 'mode' argument
  Michael Kerrisk
    Change argument name: 'path' to 'pathname'
      For consistency with open(2).
  Michael Kerrisk
    Add subsection headings for each function

fts.3
  Michael Kerrisk
    Use better argument name for fts_children() and fts_set()
  Michael Kerrisk
    Fix minor error in FTSENT structure definition
  Michael Kerrisk
    Improve explanation of 'fts_errno'
  Michael Kerrisk
    Give a hint that there are further fields in the FTSENT structure
  Michael Kerrisk
    Clarify meaning of zero as 'instr' value for fts_set()

ftw.3
  Michael Kerrisk
    Correctly handle use
 of stat info for FTW_NS in example program
  Michael Kerrisk
    Clarify that stat buffer is undefined for FTW_NS

getline.3
  Michael Kerrisk
    EXAMPLE: better error handling

Michael Kerrisk [Kent Fredic]
EXAMPLE: handle null bytes in input
Jann Horn
Document ENOMEM error case
see the error handling in libio/iogetdelim.c
Michael Kerrisk
EXAMPLE: specify file to be opened as command-line argument
Michael Kerrisk
Use better variable name in example program

getmntent.3
Michael Kerrisk [Anders Thulin]
Prefer '\\' as the escape to get a backslash
See https://bugzilla.kernel.org/show_bug.cgi?id=191611

getopt.3
Michael Kerrisk
Reword discussion of error handling and reporting
The existing description was hard to understand. Break
it into a bullet list that separates out the details
in a manner that is easier to parse.
Michael Kerrisk

Correct details of use of <stdio.h> to get getopt() declaration
Michael Kerrisk [John Wiersba]
Remove some redundant text

mq_open.3
Michael Kerrisk [Adam Martindale]
Include definition of the 'mq_attr' structure in this man page
Make the reader's life a little easier by saving them from
having to refer to mq_getattr(3).

mq_send.3
Michael Kerrisk [Adam Martindale]
Refer to mq_overview(7) for details on range of message priority

__ppc_set_ppr_med.3
Wainer dos Santos Moschetta
Note need for _ARCH_PWR8 macro
The _ARCH_PWR8 macro must be defined to get the
__ppc_set_ppr_very_low() and __ppc_set_ppr_med_high()
definitions.

printf.3
Michael Kerrisk
Document nonstandard 'Z' modifier
Michael Kerrisk

Document 'q' length modifier
Michael Kerrisk [Erik Roland van der Meer]
Fix a small bug in example code
Move the second call to va_end(ap)
to above the if-block that
precedes it, so that the va_list 'ap' will be cleaned up in
all cases.
Michael Kerrisk [Nadav Har'El]
As a nonstandard extension, GNU treats 'll' and 'L' as synonyms
See https://bugzilla.kernel.org/show_bug.cgi?id=190341.
Michael Kerrisk
Add references to setlocale(3) in discussions of locales
Michael Kerrisk
SEE ALSO: remove bogus self reference (dprintf(3))

random.3
Michael Kerrisk
Relocate information of "optimal" value of initstate() 'n' argument
The information was a bit hidden in NOTES.

random_r.3
Michael Kerrisk [Jan Ziak]
'buf.state' must be initialized to NULL before calling initstate_r()
See https://bugzilla.kernel.org/show_bug.cgi?id=192801.
Michael Kerrisk
Add some usage notes for setstate_r()
Michael Kerrisk
Note that 'buf' records a pointer to 'statebuf'
See https://sourceware.org/bugzilla/show_bug.cgi?id=3662.
Michael Kerrisk
Add BUGS section pointing out the weirdness of the initstate_r() API

resolver.3
Michael Kerrisk
RES_AAONLY, RES_PRIMARY, RES_NOCHECKNAME, RES_KEEPTSIG are deprecated
These options were never implemented; since glibc 2.25, they
are deprecated.
Michael Kerrisk
The RES_NOIP6DOTINT is removed in glibc 2.25
Michael Kerrisk
Note that RES_BLAST was unimplemented and is now deprecated
Michael Kerrisk
RES_USE_INET6 is deprecated since glibc 2.25
Michael Kerrisk
RES_USEBSTRING was removed in glibc 2.25

resolver.3
resolv.conf.5

Michael Kerrisk
Note that RES_USEBSTRING defaults to off

scandir.3
Michael Kerrisk [Ian Jackson]
Fix errors in example program
See http://bugs.debian.org/848231.
Michael Kerrisk
Improve logic of the example program

scanf.3
Michael Kerrisk
Document the quote (') modifier
for decimal conversions

sem_post.3
setjmp.3
Michael Kerrisk
SEE ALSO: add signal-safety(7)

sem_wait.3
Michael Kerrisk [Fabjan Sukalia]
Remove statement that SA_RESTART does not cause restarting
This has not been true since Linux 2.6.22. The description
of EINTR maintains a reference to signal(7), which explains
the historical details.

See https://bugzilla.kernel.org/show_bug.cgi?id=192071

sleep.3
Michael Kerrisk [Mike Frysiner]
Note that sleep() is implemented via nanosleep(2)
See https://bugzilla.kernel.org/show_bug.cgi?id=73371.
Michael Kerrisk [Mike Frysinger]
Note that sleep() sleeps for a real-time number of seconds
See https://bugzilla.kernel.org/show_bug.cgi?id=73371.
Michael Kerrisk
Convert BUGS text to "Portability notes" subsection
The existing text is not a bug, as such.
Michael Kerrisk
DESCRIPTION: minor reworking

strerror.3
Heinrich Schuchardt
Indicate reasonable buffer size for strerror_r() and strerror_l()
Add a hint which buffer size is needed for
strerror_r() and strerror_l().

strverscmp.3
  Michael Kerrisk [Vivenzio Pagliari]
    Fix comparison error in example program

system.3
  Michael Kerrisk
    In the glibc implementation, fork handlers are not executed by system()

random.4
  Michael Kerrisk [Jon Jensen]
    Note that entropy_avail will be a number in the range 0..4096

core.5
  Michael Kerrisk
    Clarify that dumping program's initial CWD is root directory
  Michael Kerrisk
    The target of core dump piping can also be a script

filesystems.5
  Michael Kerrisk
    SEE ALSO: add btrfs(5), nfs(5), tmpfs(5)

intro.5
  Michael Kerrisk
    Document the reality that by now Section 5 also covers filesystems
      There are by now, from various filesystem projects, various
      pages in Section
 5 that document different filesystems.
      Change intro(5) to reflect that.

      Documented after following: http://bugs.debian.org/847998

proc.5
  Mike Frysinger [Michael Kerrisk]
    Clarify /proc/pid/environ behavior
      /proc/pid/environ reflects process environment at
      start of program execution; it is set at time of execve(2)
  Michael Kerrisk
    Add reference to slabinfo(5) in discussion of /proc/meminfo 'Slab' field
  Michael Kerrisk
    Add entries for "keys" files that refer reader to keyrings(7)
  Michael Kerrisk
    Remove duplicate /proc/[pid]/seccomp entry
  Michael Kerrisk
    Mention other system calls that create 'anon_inode' file descriptors
      Mention a few other system calls that create file descriptors
      that display an 'anon_inode' symlink in /proc/PID/fd
  Michael Kerrisk

Add some detail on overcommit_memory value 1
Michael Kerrisk
Add reference to vdso(7)
in discussion of /proc/PID/maps

resolv.conf.5
Michael Kerrisk
ip6-bytestring was removed in glibc 2.25
Michael Kerrisk
The ipc-dotint and no-ip6-dotint options were removed in glibc 2.25
Michael Kerrisk
The 'inet6' option is deprecated since glibc 2.25

slabinfo.5
Michael Kerrisk
SEE ALSO: add slabtop(1)

capabilities.7
Michael Kerrisk [Casey Schaufler]
Add subsection with notes to kernel developers
Provide some notes to kernel developers considering how to choose
which capability should govern a new kernel feature.
Michael Kerrisk
Further enhance the recommendation against new uses of CAP_SYS_ADMIN
Michael Kerrisk
Explicitly point from CAP_SYS_ADMIN to "Notes for kernel developers"
Michael Kerrisk
Add another case for CAP_DAC_READ_SEARCH
Michael Kerrisk
Refer to execve(2) for the reasons that file capabilities may be ignored
Michael Kerrisk
Document a new use of CAP_SYS_RESOURCE
Michael Kerrisk
Add some more operations governed by CAP_SYS_ADMIN
Michael Kerrisk
Adjust references to chattr(1) to point to ioctl_iflags(2)

environ.7
Michael Kerrisk
Mention prctl(2) PR_SET_MM_ENV_START and PR_SET_MM_ENV_END operations

inotify.7
Michael Kerrisk
Point out that inotify monitoring is inode based

ip.7
Michael Kerrisk
SEE ALSO: add ip(8)

man.7
uri.7
  Jakub Wilk
    Use "www.kernel.org" in example URLs
      Apparently www.kernelnotes.org is now a spam site.

mount_namespaces.7
  Michael Kerrisk [Rob Landley]
    Rework the discussion of defaults for mount propagation types
      Add rather more detail. In particular, note the cases where the
      default propagation type is MS_PRIVATE vs MS_SHARED.

namespaces.7
  Michael Kerrisk
    EXAMPLE: fix an error in shell session
  Michael Kerrisk
    EXAMPLE: rename the example
 program
      Use a more generic name, since this program may be expanded
      in various ways in the future.
  Michael Kerrisk
    SEE ALSO: add ip-netns(8)
  Michael Kerrisk
    Remove content split out into ioctl_ns(2)

netlink.7
  Michael Kerrisk
    NETLINK_IP6_FW went away in Linux 3.5
  Michael Kerrisk
    NETLINK_W1 went away in Linux 2.6.18
  Michael Kerrisk
    Add NETLINK_SCSITRANSPORT to list
  Michael Kerrisk
    Add NETLINK_RDMA to list
  Michael Kerrisk
    NETLINK_FIREWALL was removed in Linux 3.5
  Michael Kerrisk
    NETLINK_NFLOG was removed in Linux 3.17
  Jakub Wilk
    Update libnl homepage URL
      The original URL is 404.

pid_namespaces.7
user_namespaces.7
  Michael Kerrisk
    Adjust references to namespaces(7) to ioctl_ns(2)

pid_namespaces.7
  Keno Fischer
    CLONE_SIGHAND|CLONE_VM|CLONE_NEWPID is no longer disallowed

pipe.7
  Michael Kerrisk
    Since Linux 4.9,
 pipe-max-size is ceiling for the default pipe capacity
  Michael Kerrisk
    Clarify that default pipe capacity is 16 pages
      The statement that the default pipe capacity is 65536 bytes
      is accurate only on systems where the page size is 4096B.
      See the use of PIPE_DEF_BUFFERS in the kernel source.

random.7
  Michael Kerrisk
    Mention getentropy(3)
  Michael Kerrisk
    SEE ALSO: add getentropy(3)
  Michael Kerrisk
    SEE ALSO: add getauxval(3)
      A small hint to the reader that some random bytes arrive
      in the auxiliary vector.

signal.7
  Michael Kerrisk
    SIGSYS: add reference to seccomp(2)
  Michael Kerrisk
    Change description of SIGSYS to "Bad system call"
      This is the more typical definition.
  Michael Kerrisk
    SIGPIPE: add reference to pipe(7)
  Michael Kerrisk
    SIGXFSZ: add reference to setrlimit(2)
  Michael Kerrisk
    Add a name for SIGEMT
  Michael
 Kerrisk
    SIGXCPU: add reference to setrlimit(2)
  Michael Kerrisk
    Migrated signal-safety discussion to new signal-safety(7) page

unix.7
  Michael Kerrisk [Sergey Polovko]
    Since Linux 3.4, UNIX domain sockets support MSG_TRUNC
      This was correctly noted in recv(2), but the unix(7) page
      was not correspondingly updated for the Linux 3.4 change.
  Michael Kerrisk [Willy Tarreau]

Document ETOOMANYREFS for SCM_RIGHTS send exceeding RLIMIT_NOFILE limit

user_namespaces.7
  Michael Kerrisk
    Change page cross reference: keyctl(2) ==> keyrings(7)

ld.so.8
  Michael Kerrisk
    LD_BIND_NOT has effect only for function symbols
  Michael Kerrisk
    Describe use of LD_DEBUG with LD_BIND_NOT
  Michael Kerrisk
    In secure mode, LD_AUDIT restricts the libraries that it will load
  Michael Kerrisk
    LD_AUDIT understands $ORIGIN, $LIB, and $PLATFORM

========== Changes in man-pages-4.11
 ==========

Released: 2017-05-03, Baden, Switzerland

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The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages
---

ioctl_userfaultfd.2
Michael Kerrisk, Mike Rapoport
New page describing ioctl(2) operations for userfaultfd

statx.2
David Howells, Michael Kerrisk [Andreas Dilger]
New page describing statx(2) system call added in Linux 4.11

userfaultfd.2
Mike Rapoport, Michael Kerrisk [Andrea Arcangeli]
New page describing userfaultfd(2) system call.

pthread_atfork.3
Michael Kerrisk
New page describing pthread_atfork(3)

slabinfo.5
Michael Kerrisk
Rewrite to try to bring the content close to current reality
There's still gaps to fill in, but the existing page
was in any case hugely out of date.

inode.7
  Michael Kerrisk
    New page with information about inodes
      David Howells provided a statx(2) page that duplicated much of
      the information from stat(2). Avoid such duplication
      by moving the common information in stat(2) and statx(2)
      to a new page.

Renamed pages
---

ioctl_console.2
  Michael Kerrisk
    Renamed from console_ioctl.4
      Most ioctl() man pages are in section 2, so move this one there
      for consistency.
  Michael Kerrisk
    Note type of 'argp' for a various operations
      For some commands, there was no clear statement about the type
      of the 'argp' argument.

ioctl_tty.2
   Michael Kerrisk
    Renamed from tty_ioctl(4)
      All other ioctl(2) pages are in section 2. Make this
      page consistent.
  Michael Kerrisk
    Packet mode state change events give POLLPRI events for poll(2)

Newly documented interfaces in existing pages
---

ioctl_ns.2
  Michael Kerrisk
    Document the NS_GET_NSTYPE operation added in Linux 4.11
  Michael Kerrisk
    Document the NS_GET_OWNER_UID operation added in Linux 4.11

proc.5
  Michael Kerrisk
    Document /proc/sys/kernel/sched_child_runs_first

namespaces.7
  Michael Kerrisk
    Document the /proc/sys/user/* files added in Linux 4.9

socket.7
  Francois Saint-Jacques, Michael Kerrisk
    Document SO_INCOMING_CPU

New and changed links
---

console_ioctl.4
  Michael Kerrisk
    Link for old name of ioctl_console(2) page

tty_ioctl.4
  Michael Kerrisk
    Link for old name of ioctl_tty(2)
 page

Global changes

Various pages
  Michael Kerrisk
    Change page cross-references from tty_ioctl(4) to ioctl_tty(2)
  Michael Kerrisk
    Change page cross-references for console_ioctl(4) to ioctl_console(2)

Changes to individual pages
---

alarm.2
  Michael Kerrisk
    SEE ALSO: add timer_create(2) and timerfd_create(2)

chmod.2
fsync.2
mkdir.2
mknod.2
open.2
truncate.2
umask.2
utime.2
utimensat.2
  Michael Kerrisk
    Add/replace references to inode(7)

clone.2

Michael Kerrisk
CLONE_NEWCGROUP by an unprivileged process also causes an EPERM error

clone.2
unshare.2
Michael Kerrisk
Exceeding one of the limits in /proc/sys/user/* can cause ENOSPC
Michael Kerrisk
CLONE_NEWPID yields ENOSPC if nesting limit of PID namespaces is reached
Michael Kerrisk
Exceeding the maximum nested user namespace limit now gives ENOSPC
Formerly, if the limit of 32 nested
user namespaces was exceeded,
the error EUSERS resulted. Starting with Linux 4.9, the error
is ENOSPC.

epoll_ctl.2
Michael Kerrisk
Defer to poll(2) for an explanation of EPOLLIN
Michael Kerrisk [Nicolas Biscos]
EPOLLERR is also set on write end of a pipe when the read end is closed
Michael Kerrisk [Nicolas Biscos]
Give the reader a clue that the 'events' field can be zero
'events' specified as zero still allows EPOLLHUP and
EPOLLERR to be reported.

_exit.2
Michael Kerrisk
On exit, child processes may be inherited by a "subreaper"
It is no longer necessarily true that orphaned processes
are inherited by PID 1.
Michael Kerrisk
Only the least significant byte of exit status is passed to the parent

fcntl.2
Michael Kerrisk
Mention memfd_create() in the discussion of file seals
Give the reader a clue about what kinds of objects can
be employed with file seals.
Michael Kerrisk
File seals are not generally applicable to tmpfs(5) files
As far as I can see, file seals can be applied only to
memfd_create(2) file descriptors. This was checked by experiment
and by reading mm/shmem.c::shmem_get_inode((), where one finds
the following line that applies to all new shmem files:

info->seals = F_SEAL_SEAL;

Only in the code of the memfd_create() system call is this
setting reversed (in mm/shmem.c::memfd_create):

```
if (flags & MFD_ALLOW_SEALING)
    info->seals &= ~F_SEAL_SEAL;
```

fork.2
  Michael Kerrisk
    SEE ALSO: add pthread_atfork(3)

getdents.2
open.2
stat.2
statx.2
  Michael Kerrisk
    SEE ALSO: add inode(7)

getdtablesize.2
attr.5
  Alexander Miller
    Move .so directive to first line
      Improves compatibility with the man
 and other dumb tools
      that process man page files.

getpid.2
  Michael Kerrisk
    Mention init(1) and "subreapers" in discussion of parent PID

ioctl_list.2
  Cyril Hrubis [Arnd Bergmann]
    BLKRASET/BLKRAGET take unsigned long

ioctl_ns.2
  Michael Kerrisk
    ERRORS: document ENOTTY

kexec_load.2
sched_setaffinity.2
bootparam.7
  Michael Kerrisk
    Documentation/kernel-parameters.txt is now in Documentation/admin-guide/

lseek.2
  Michael Kerrisk
    SEE ALSO: add fallocate(2)
      Both of these pages discuss file holes.

mincore.2
  Michael Kerrisk
    SEE ALSO: add fincore(1)

mmap.2
  Michael Kerrisk
    Remove ancient reference to flags that appear on some other systems
      MAP_AUTOGROW, MAP_AUTORESRV, MAP_COPY, and MAP_LOCAL may have
      appeared on some systems many years ago, but the discussion here
      mentions no details and the systems and flags probably ceased to
      be relevant
 long ago. So, remove this text.
  Michael Kerrisk
    SEE ALSO: add userfaultfd(2)

open.2
  Michael Kerrisk
    Add statx() to list of "at" calls in rationale discussion

poll.2
  Michael Kerrisk
    Expand discussion of POLLPRI
  Michael Kerrisk [Nicolas Biscos]
    POLLERR is also set on write end of a pipe when the read end is closed

posix_fadvise.2
  Michael Kerrisk
    SEE ALSO: add fincore(1)

prctl.2
  Mike Frysinger
    PR_SET_MM: Refine CONFIG_CHECKPOINT_RESTORE requirement
      The Linux 3.10 release dropped the c/r requirement and opened it
      up to all users.
  Mike Frysinger
    PR_SET_MM: Document new PR_SET_MM_MAP{,_SIZE} helpers
  Mike Frysinger
    PR_SET_MM: Document arg4/arg5 zero behavior
      The kernel will immediately reject calls where arg4/arg5 are not
      zero. See kernel/sys.c:prctl_set_mm().
  Michael Kerrisk
    Explain rationale for use of subreaper processes
  Michael
 Kerrisk
    Note semantics of child_subreaper setting on fork() and exec()
  Michael Kerrisk
    Improve description of PR_SET_CHILD_SUBREAPER

rename.2
  Michael Kerrisk [Georg Sauthoff]
    Note that there is no glibc wrapper for renameat2()

sched_setaffinity.2
  Michael Kerrisk
    SEE ALSO: add get_nprocs(3)

select.2
  Michael Kerrisk [Matthew Wilcox, Carlos O'Donell]
    Linux select() is buggy wrt POSIX in its check for EBADF errors
  Michael Kerrisk
    Show correspondence between select() and poll() readiness notifications
  Michael Kerrisk
    Give a hint that sets must be reinitialized if using select() in a loop
  Michael Kerrisk
    Refer to POLLPRI in poll(2) for info on exceptional conditions
  Michael Kerrisk
    Move mislocated text describing the self-pipe text from BUGS to NOTES

sigaction.2
  Michael Kerrisk
    Show the prototype of an SA_SIGINFO signal handler

signalfd.2
  Michael Kerrisk

 SIGKILL and SIGSTOP are silently ignored in 'mask'

sigprocmask.2
  Dmitry V. Levin
    Do not specify an exact value of rt_sigprocmask's 4th argument
      As sizeof(kernel_sigset_t) is not the same for all architectures,
      it would be better not to mention any numbers as its value.
  Michael Kerrisk
    'set' and 'oldset' can both be NULL

sigwaitinfo.2
  Michael Kerrisk
    sigwaitinfo() can't be used to accept synchronous signals

socketcall.2
  Mike Frysinger
    Document call argument

stat.2
  Michael Kerrisk
    Remove information migrated to inode(7) page

Michael Kerrisk
Restructure field descriptions as a hanging list
Michael Kerrisk
Remove "Other systems" subsection
These details about other systems were added in 1999,
and were probably of limited use then, and even less today.
However, they do clutter the page, so remove them.
Michael Kerrisk
DESCRIPTION: add
list entries for 'st_uid' and 'st_gid'
Michael Kerrisk
Add some subsection headings to ease readability
David Howells
ERRORS: correct description of ENOENT
Michael Kerrisk
Give 'struct stat' argument a more meaningful name ('statbuf')
Marcin lusarz
Tweak description of AT_EMPTY_PATH
Currently it says when dirfd is AT_FDCWD it can be something
other than directory, which doesn't make much sense. Just swap
the order of sentences.
Michael Kerrisk
Add slightly expanded description of 'st_ino' field
Michael Kerrisk
DESCRIPTION: add a list entry for 'st_ino'
Michael Kerrisk
DESCRIPTION: add a list entry for 'st_nlinks' field

syscalls.2
Michael Kerrisk
Add membarrier(2)
Michael Kerrisk
Fix kernel version for userfaultfd(2)
Michael Kerrisk
Linux 4.11 added statx()
Michael Kerrisk
Include deprecated getunwind(2) in list

wait.2
Michael Kerrisk
Orphaned children may be adopted by a "subreaper", rather by than PD 1

bzero.3
Michael Kerrisk [Zack Weinberg]
Add correct header file for explicit_bzero()

cfree.3
Michael Kerrisk

cfree() is removed from glibc in version 2.26

exit.3
Michael Kerrisk
Improve discussion of zombie processes

getentropy.3
Nikos Mavrogiannopoulos [Michael Kerrisk, Florian Weimer]
Correct header file
Michael Kerrisk [Frank Theile]
SYNOPSIS: add missing return type for getentropy() declaration

grantpt.3
Michael Kerrisk
Tell a more nuanced story about what grantpt() does or does not do

insque.3
Michael Kerrisk
SEE ALSO: add queue(3)

queue.3
Michael Kerrisk
SEE ALSO: add insque(3)

shm_open.3
Michael Kerrisk
Clarify that POSIX shared memory uses tmpfs(5)

syslog.3
Michael Kerrisk [Ian Abbott, Walter Harms]
Reorganize page text for easier parsing and better
readability
Michael Kerrisk
Various rewordings and improvements
Michael Kerrisk
Note default value for 'facility' when calling openlog()
Michael Kerrisk
SEE ALSO: add journalctl(1)

ttyname.3
Dmitry V. Levin
Document ENODEV error code
Christian Brauner
NOTES: warn about a confusing case that may occur with mount namespaces

wcsdup.3
Jan Heberer
RETURN VALUE: fix error in return value description

Return value for failure was accidentally changed from NULL to
-1 in man-pages commit 572acb41c48b6b8e690d50edff367d8b8b01702a.

elf.5
Michael Kerrisk
SEE ALSO: add elfedit(1), nm(1), size(1), strings(1), and strip(1)

nsswitch.conf.5
Florian Weimer
Mention sudoers
It turns out that sudo drops things into nsswitch.conf, too.

proc.5
Michael Kerrisk
Refer to namespaces(7) for discussion of /proc/sys/user/* files
Michael Kerrisk
Simplify /proc/slabinfo
entry
Don't repeat (out-of-date) info from slabinfo(5); just defer to
that page.

tmpfs.5
Michael Kerrisk
tmpfs supports extended attributes, but not 'user' extended attributes

environ.7
Jakub Wilk
Fix name of function that honors TMPDIR
tempnam() takes the TMPDIR environment variable into account, unlike
tmpnam(), which always creates pathnames within /tmp.

hostname.7
Marko Myllynen
Use lower case for hostname example
Marko Myllynen
Use generic names in examples
Marko Myllynen
Describe accepted characters for hostname

inotify.7
Michael Kerrisk [Nicolas Iooss]
Mounting a filesystem on top of a monitored directory causes no event

man-pages.7
Michael Kerrisk
Note preferred approach for 'duplicate' errors

pid_namespaces.7

Michael Kerrisk
The maximum nesting depth for PID namespaces is 32

user_namespaces.7
Stephan Bergmann
Fixes to example
While toying around with the userns_child_exec example program on the
user_namespaces(7) man page, I noticed two things:

* In the EXAMPLE section, we need to mount the new /proc before
looking at /proc/$$/status, otherwise the latter will print
information about the outer namespace's PID 1 (i.e., the real
init). So the two paragraphs need to be swapped.

* In the program source, make sure to close pipe_fd[0] in the
child before exec'ing.

pthreads.7
Michael Kerrisk
SEE ALSO: add pthread_rwlockattr_setkind_np(3)

pty.7
Michael Kerrisk
Mention a couple of other applications of pseudoterminals

sem_overview.7
Michael Kerrisk
SEE ALSO: add shm_overview(7)

signal.7
Michael Kerrisk
SEE ALSO: add sigreturn(2)

tcp.7
Michael Kerrisk
Note indications for OOB data given by select(2) and poll(2)
Chema Gonzalez
tcp_abc was removed in 3.9

xattr.7
Michael Kerrisk
SEE ALSO: add ioctl_iflags(2)
People sometimes confuse xattrs and inode flags. Provide a link
to the page that describes inode flags to give them a tip.

ld.so.8
Michael Kerrisk
Mention quoting when using "Rpath tokens" in LD_AUDIT and LD_PRELOAD

Michael Kerrisk
Expand description of /etc/ld.so.preload
Michael Kerrisk
Mention ldconfig(8) in discussion of /etc/ld.so.cache

zdump.8
Jakub Wilk
Add OPTIONS section heading

========== Changes in man-pages-4.12 ==========

Released: 2017-07-13, London

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The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages
---

ioctl_getfsmap.2
  Darrick J. Wong
    Document the GETFSMAP ioctl
      Document the new GETFSMAP ioctl that returns the physical layout of a
      (disk-based) filesystem.

Newly documented interfaces in existing pages
---

namespaces.7
  Kirill Tkhai [Michael Kerrisk]
    Document the /proc/[pid]/ns/pid_for_children file

Changes to individual pages
---

ldd.1
  Michael Kerrisk
    'objdump -p prog | grep NEEDED' doesn't give quite same info as 'ldd'

chmod.2
  Michael Kerrisk
    Put fchmod() feature test macro requirements in a more readable format
  Michael Kerrisk
    Note glibc 2.24 feature test macro requirements changes for fchmod()

chown.2
  Michael Kerrisk
    When file owner or group is changed, file capabilities are cleared
  Michael Kerrisk

Changes to file owner by root also clear set-UID and set-GID bits

clone.2
  Michael Kerrisk
    Update BUGS to reflect fact that PID caching was removed in glibc 2.25

epoll_wait.2
  Michael Kerrisk
    Clarify semantics of returned 'data' field
      The returned 'data' is the 'data' most recently set via
      epoll_ctl().

get_mempolicy.2
  Michael Kerrisk [Nadav Har'El, Andi Kleen]
    SYNOPSIS: fix return type of get_mempolicy()
      See https://bugzilla.kernel.org/show_bug.cgi?id=97051

getpid.2
  Carlos O'Donell, Michael Kerrisk
    Note that PID caching is removed as of glibc 2.25
      Since glibc 2.25 the PID cache is removed.

      Rationale given in the release notes:
      https://sourceware.org/glibc/wiki/Release/2.25#pid_cache_removal

ioctl.2
  Michael Kerrisk
    SEE ALSO: add ioctl_getfsmap(2)

ioctl_getfsmap.2
  Michael Kerrisk
    Fix ordering of sections
  Michael Kerrisk

   Add VERSIONS section
  Michael Kerrisk
    ERRORS: order alphabetically

madvise.2
  Michael Kerrisk
    Remove bogus text re POSIX_MADV_NOREUSE
      There is a POSIX_FADV_NOREUSE for posix_fadvise(),
      but no POSIX_MADV_NOREUSE for any API in POSIX.

membarrier.2
  Michael Kerrisk
    Add ENOSYS error for 'nohz_full' CPU setting

mount.2
  NeilBrown
    Revise description of MS_REMOUNT | MS_BIND
      MS_REMOUNT|MS_BIND affects all per-mount-point
      flag. MS_RDONLY is only special because it,
      uniquely, is both a per-mount-point flag *and* a
      per-filesystem flag.

      So the sections of per-mount-point flags and
      MS_REMOUNT can usefully be clarified.

open.2
  Michael Kerrisk
    Note some further advantages of the *at() APIs

pipe.2
  Michael Kerrisk
    SEE ALSO: add tee(2) and vmsplice(2)

readv.2
  Michael Kerrisk
    glibc 2.26 adds library support for preadv2()
 and pwritev2()

sched_setaffinity.2
  Michael Kerrisk
    Mention cpuset cgroups as a cause of EINVAL error

seccomp.2
  Mike Frysinger
    Expand SECCOMP_RET_KILL documentation

sigaction.2
  Michael Kerrisk
    Note feature test macro requirements for 'si_code' constants
  Michael Kerrisk
    Add a subheading for the description of 'si_code'
  Michael Kerrisk
    TRAP_BRANCH and TRAP_HWBKPT are present only on IA64

sigaltstack.2
  Michael Kerrisk
    Note that specifying SS_ONSTACK in ss.ss_flags decreases portability
      In the Illumos source (which presumably mirrors its Solaris
      ancestry), there is this check in the sigaltstack()
      implementation:

              if (ss.ss_flags & ~SS_DISABLE)

return (set_errno(EINVAL));

And in the FreeBSD source we find similar:

if ((ss->ss_flags & ~SS_DISABLE) != 0)

return (EINVAL);

Michael Kerrisk

Note buggy addition of ss.ss_flags==SS_ONSTACK

Note buggy addition of ss.ss_flags==SS_ONSTACK as a synonym for ss_flags==0. No other implementation does this, AFAIK. And it was not needed :-(.

Michael Kerrisk

Specifying 'ss' returns the current settings without changing them

Michael Kerrisk

Give 'oss' argument a more meaningful name: 'old_ss'

Michael Kerrisk

Some minor reworking of the text

Michael Kerrisk

ERRORS: update description of EINVAL error

splice.2
tee.2
vmsplice.2

Michael Kerrisk

SEE ALSO: add pipe(7)

splice.2

Michael Kerrisk

ERRORS: split EINVAL error cases

Michael Kerrisk

ERRORS: add EINVAL for case where both descriptors refer to same pipe

timer_create.2

Michael Kerrisk

Document the CONFIG_POSIX_TIMERS option added in Linux 4.10

wait.2

Michael Kerrisk

Note glibc 2.26 changes to feature test macro requirements for waitid()

acosh.3
asinh.3
atanh.3

Alex Henrie

Remove C89 designation.

See https://bugzilla.kernel.org/show_bug.cgi?id=196319

bsd_signal.3
  Michael Kerrisk
    Note feature test macro requirements changes for glibc 2.26

dl_iterate_phdr.3
  Michael Kerrisk
    dl_iterate_phdr() shows the order in which objects were loaded
      dl_iterate_phdr() tells us not just which objects are
      loaded, but also the order in which they are loaded
      (the "link-map order"). Since the order is relevant for
      understanding symbol resolution, give the reader this clue.
  Michael Kerrisk
    Expand the code example, and show sample output
  Michael Kerrisk
    List values for the 'p_type' field

dlsym.3
  Michael Kerrisk
    _GNU_SOURCE is needed to get RTLD_DEFAULT and RTLD_NEXT definitions

flockfile.3
  Michael Kerrisk
    Note glibc 2.24 feature test macro requirement
 changes

fpathconf.3
  Michael Kerrisk
    Rework RETURN VALUE description to add more detail
  Michael Kerrisk
    Add an errors section
  Michael Kerrisk
    Largely rewrite the description of _PC_CHOWN_RESTRICTED
  Michael Kerrisk
    Rewrite description of _PC_PIPE_BUF
      The existing description was not accurate, and lacked details.

ftw.3
  Michael Kerrisk
    BUGS: document a probable glibc regression in FTW_SLN case
      See https://bugzilla.redhat.com/show_bug.cgi?id=1422736
      and http://austingroupbugs.net/view.php?id=1121.

getaddrinfo.3
  Quentin Rameau
    Fix _POSIX_C_SOURCE value for getaddrinfo()
      The correct _POSIX_C_SOURCE value is 200112L, not 201112L in features.h.

getcontext.3
  Carlos O'Donell
    Exemplar structure should use 'ucontext_t'.

getgrent.3
  Michael Kerrisk
    Note glibc 2.22 changes for feature test macro requirements

grantpt.3
ptsname.3
unlockpt.3
  Ferdinand
 Thiessen [Michael Kerrisk]
    Update feature test macro-requirements for glibc 2.24

if_nametoindex.3
  Douglas Caetano dos Santos
    Add ENODEV error for if_nametoindex()

malloc.3
  Michael Kerrisk
    Document the reallocarray() added in glibc 2.26

nl_langinfo.3
  Michael Kerrisk
    Note feature test macro requirements for nl_langinfo_l()

posix_madvise.3
  Dr. Tobias Quathamer
    Remove paragraph about POSIX_FADV_NOREUSE
      POSIX_FADV_NOREUSE is documented for posix_fadvise, and a
      corresponding POSIX_MADV_NOREUSE flag is not specified by POSIX.
      See https://bugs.debian.org/865699

ptsname.3
  Michael Kerrisk [Arjun Shankar]
    Since glibc 2.26, ptsname_r() no longer gives EINVAL for buf==NULL

rand.3
  Michael Kerrisk
    Note glibc 2.24 feature test macro requirement changes for rand_r()

resolver.3
  Michael Kerrisk
    Add basic notes on 'op' argument of res_nmkquery() and res_mkquery()

sigpause.3

Michael Kerrisk
Note glibc 2.26 changes to feature test macro requirements

sigwait.3
Michael Kerrisk
Note glibc 2.26 feature test macro changes

strtol.3
Heinrich Schuchardt
Mention 0X prefix
The prefix 0x may be capitalized as 0X.

See ISO/IEC 9899:1999.

sysconf.3
Michael Kerrisk [Pavel Tikhomirov]
Rework RETURN VALUE description to add more detail
Make the discussion clearer, and add a few details.
Also, fix the problem report from Pavel Tikhomirov
who noted that the man page falsely said that errno
is not changed on a successful return.

Addresses https://bugzilla.kernel.org/show_bug.cgi?id=195955
Michael Kerrisk
Add ERRORS section

ttyslot.3
Michael Kerrisk
Fix error in feature test macro requirements
Michael Kerrisk
Note feature test macro requirements changes in glibc 2.24
Michael Kerrisk
Clarify
details of use of <stdlib.h> file

unlocked_stdio.3
Michael Kerrisk
Note glibc 2.24 feature test macro requirement changes

elf.5
Michael Kerrisk
SEE ALSO: add dl_iterate_phdr(3)

nsswitch.conf.5
DJ Delorie
Clarify group merge rules
This minor patch clarifies when merging is not done,
and how duplicate entries are merged.

proc.5
  Michael Kerrisk
    Document that 'iowait' field of /proc/stat is unreliable
      Text taken from Chao Fan's kernel commit 9c240d757658a3ae996.

slabinfo.5
  Michael Kerrisk [Jorge Nerin]
    SEE ALSO: add some references to relevant kernel source files

tmpfs.5
  Michael Kerrisk
    SEE ALSO: add memfd_create(2), mmap(2), shm_open(3)

capabilities.7
  Michael Kerrisk
    Clarify the effect on process capabilities when UID 0 does execve(2)
  Michael Kerrisk
    Note effect on capabilities when a process with UID != 0 does execve(2)
  Michael Kerrisk [David
 Lewis]
    Fix reversed descriptions of CAP_MAC_OVERRIDE and CAP_MAC_ADMIN
  Michael Kerrisk
    SEE ALSO: add filecap(8), netcap(8), pscap(8)

cgroup_namespaces.7
  Michael Kerrisk
    Add some further explanation of the example shell session
  Michael Kerrisk
    Fix a bug in shell session example

inode.7
  Michael Kerrisk
    Note glibc 2.24 feature test macro changes for S_IFSOCK and S_ISSOCK()

man.7
  G. Branden Robinson
    Undocument "URL" macro in man(7) in favor .UR+.UE

pid_namespaces.7
  Michael Kerrisk
    Mention /proc/[pid]/ns/pid_for_children

pipe.7
  Michael Kerrisk
    SEE ALSO: add tee(2) and vmsplice(2)

sigevent.7

Michael Kerrisk
Mention signal.h header file

signal.7
Michael Kerrisk [lilydjwg]
Since Linux 3.8, read(2) on an inotify FD is restartable with SA_RESTART
See https://bugzilla.kernel.org/show_bug.cgi?id=195711
Michael Kerrisk
read() from an inotify FD is no
longer interrupted by a stop signal
(Change was in Linux 3.8.)

tcp.7
Michael Kerrisk
Document value '2' for tcp_timestamps
Since Linux 4.10, the value '2' is meaningful for tcp_timestamps
Ruben Kerkhof
Change default value of tcp_frto
The default changed in c96fd3d461fa495400df24be3b3b66f0e0b152f9
(Linux 2.6.24).

ld.so.8
Michael Kerrisk
Greatly expand the explanation of LD_DYNAMIC_WEAK
Carlos O'Donell
Expand DT_RUNPATH details.
ld.so.8: Expand DT_RUNPATH details.

Every 3 years we get asked why DT_RUNPATH doesn't work like DT_RPATH.
The most recent question was here:
https://www.sourceware.org/ml/libc-help/2017-06/msg00013.html

We need to expand the description of DT_RUNPATH to cover this
situation and explain that the DT_RUNPATH entries apply only to the
immediate DT_NEEDED, not that of another, say dlopen'd
child object.
Michael Kerrisk
Since glibc 2.2.5, LD_PROFILE is ignored in secure-execution mode
Michael Kerrisk
Make notes on secure-execute mode more prominent
Place each note on secure-execution mode in a separate
paragraph, to make it more obvious.
Michael Kerrisk
Note that libraries in standard directories are not normally set-UID
In secure mode, LD_PRELOAD loads only libraries from standard
directories that are marked set-UID. Note that it is unusual for
a library to be marked in this way.
Michael Kerrisk

SEE ALSO: add elf(5)
Michael Kerrisk
Note version where secure-execution started ignoring LD_USE_LOAD_BIAS
Michael Kerrisk
Correct glibc version that ignores LD_SHOW_AUXV in secure-execution mode
Ignored since 2.3.4 (not 2.3.5).
Michael Kerrisk
Rewrite LD_DEBUG_OUTPUT description and note that .PID is appended

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Changes in man-pages-4.13 ==========

Released: 2017-09-15, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

pthread_mutex_consistent.3
Yubin Ruan, Michael Kerrisk
New page documenting pthread_mutex_consistent(3)

pthread_mutexattr_getpshared.3
Michael Kerrisk
New page for pthread_mutexattr_getpshared(3) and pthread_mutexattr_setpshared(3)

pthread_mutexattr_init.3
Michael Kerrisk
New page for pthread_mutexattr_init(3) and pthread_mutexattr_destroy(3)

pthread_mutexattr_setrobust.3
Yubin Ruan, Michael Kerrisk
New page for pthread_mutexattr_setrobust(3) and pthread_mutexattr_getrobust(3)

sysfs.5
Michael Kerrisk [Mark Wielaard]
New page documenting the sysfs filesystem
Just a skeleton page so far, but perhaps it will be filled out
over time.

Newly documented interfaces in existing pages

---

fcntl.2
  Jens Axboe, Michael Kerrisk
    Describe the set/get write hints commands that are added in Linux 4.13
      Document F_GET_RW_HINT, F_SET_RW_HINT, F_GET_FILE_RW_HINT, and
      F_SET_FILE_RW_HINT.

ioctl_tty.2
  Aleksa Sarai, Michael Kerrisk
    Add TIOCGPTPEER documentation

kcmp.2
   Cyrill Gorcunov
    Add KCMP_EPOLL_TFD description

keyctl.2
  Eugene Syromyatnikov
    Document the KEYCTL_RESTRICT_KEYRING operation
  Eugene Syromyatnikov [Stephan Müller]
    Document the ability to provide KDF parameters in KEYCTL_DH_COMPUTE

New and changed links
---

pthread_mutexattr_destroy.3
  Michael Kerrisk
    New link to new pthread_mutexattr_init.3 page

pthread_mutexattr_getrobust.3
pthread_mutexattr_getrobust_np.3
pthread_mutexattr_setrobust_np.3
  Michael Kerrisk
    New links to new pthread_mutexattr_setrobust.3 page

pthread_mutexattr_setpshared.3
  Michael Kerrisk
    New link to new pthread_mutexattr_getpshared.3 page

Global changes

Various pages
  Michael Kerrisk
    Use .EX/.EE for EXAMPLE programs

Various pages
  Michael Kerrisk
    Use consistent markup for code snippets
      Change .nf/.fi to .EX/.EE

Various pages
  Michael Kerrisk
    Use
 consistent markup for code snippets
      The preferred form is

          .PP/.IP
          .in +4n
          .EX
          <code>
          .EE
          .in
          .PP/.IP

Various pages
  Michael Kerrisk
    Formatting fix: replace blank lines with .PP/.IP
      Blank lines shouldn't generally appear in *roff source (other
      than in code examples), since they create large vertical
      spaces between text blocks.

Various pages
  Michael Kerrisk [Bjarni Ingi Gislason]
    Add a non-breaking space between a number and a unit (prefix)
      Based on a patch by Bjarni Ingi Gislason.

Various pages
  Michael Kerrisk [Bjarni Ingi Gislason]
    Use en-dash for ranges
      Based on a patch by Bjarni Ingi Gislason.

A few pages
  Michael Kerrisk
    Fix misordering of sections
  Michael Kerrisk
    Fix order of SEE ALSO entries

Changes to individual pages
----

ldd.1

Michael Kerrisk
Add more detail on ldd security implications, noting glibc 2.27 changes

add_key.2
backtrace.3
syslog.3
Michael Kerrisk
Fix misordered SEE ALSO entries

add_key.2
request_key.2
keyrings.7
Eugene Syromyatnikov
Update Linux documentation pointers

chown.2
Michael Kerrisk
Update kernel version in note on support for grpid/nogrpid mount options
There has been no change since Linux 2.6.25, so update the
kernel version to 4.12.

execve.2
Michael Kerrisk
SEE ALSO: add get_robust_list(2)

getrandom.2
Michael Kerrisk [Fabio Scotoni]
SYNOPSIS: make return type of getrandom() 'ssize_t'
This accords with glibc headers and the Linux kernel source.

getrlimit.2
Thiago Jung Bauermann
Mention unit used by RLIMIT_CORE and RLIMIT_FSIZE
Michael Kerrisk
Note that RLIMIT_AS and RLIMIT_DATA are rounded down to system page size
Michael Kerrisk
Mention unit for RLIMIT_DATA

getrlimit.2
mmap.2
malloc.3
Jonas Grabber
RLIMIT_DATA affects mmap(2) since Linux 4.7

get_robust_list.2
Michael Kerrisk
Detail the operation of robust futex lists
Michael Kerrisk

Since Linux 2.6.28, robust futex lists also have an effect for execve(2)
Michael Kerrisk
Clarify that "thread ID" means "kernel thread ID"
Michael Kerrisk
SEE ALSO: add pthread_mutexattr_setrobust(3)

ioctl_getfsmap.2
Darrick J. Wong
Correct semantics of FMR_OF_LAST flag

ioctl_userfaultfd.2
Mike Rapoport
Document replacement of ENOSPC with ESRCH
Mike Rapoport
Update uffdio_api.features description
There is no requirement that uffdio_api.features must be zero
for newer kernels. This field actually defines what features
space would like to enable.

io_submit.2
Sage Weil
Acknowledge possibility of short return
Note
that the return value may be a value less than 'nr'
if not all iocbs were queued at once.

ipc.2
Michael Kerrisk
SEE ALSO: add svipc(7)

keyctl.2
Eugene Syromyatnikov
mention keyctl_dh_compute(3) and keyctl_dh_compute_alloc (3)
These functions have been added in keyutils 1.5.10
Eugene Syromyatnikov
Mention ENOMEM in ERRORS
Eugene Syromyatnikov
Update kernel documentation path reference

move_pages.2
Otto Ebeling [Michael Kerrisk]
Note permission changes that occurred in Linux 4.13

mprotect.2
Michael Kerrisk [Shrikant Giridhar]
Add warning about the use of printf() in the example code

open.2

NeilBrown
Improve O_PATH documentation
- fstatfs is now permitted.
- ioctl isn't, and is worth listing explicitly
- O_PATH allows an automount point to be opened with
triggering the mount.

prctl.2
seccomp.2
Eugene Syromyatnikov

Update pointer to in-kernel seccomp documentation

prctl.2
ptrace.2
Eugene Syromyatnikov
Update pointer to in-kernel Yama documentation

prctl.2
Eugene Syromyatnikov
Update pointer to in-kernel no_new_privs flag documentation

readlink.2
Michael Kerrisk [Jason Noakes]
Fix an off-by-one error in example code

seccomp.2
Kees Cook
Clarify SECCOMP_RET_KILL kills tasks not processes

select_tut.2
Michael Kerrisk [Sergey Z.]
Clarify an ambiguity with respect to select() and EAGAIN
See https://bugzilla.kernel.org/show_bug.cgi?id=196345

set_tid_address.2
Elliott Hughes
Note that there's no glibc wrapper for set_tid_address()

socket.2
Michael Kerrisk [Yubin Ruan]
socket() uses the lowest available file descriptor

_syscall.2
Michael Kerrisk
Remove redundant comment from EXAMPLE
A discussion of the nroff source of the manual
page isn't very useful...

sysfs.2
  Michael Kerrisk
    Add a pointer to sysfs(5) to help possibly confused readers
  Michael Kerrisk
    Make it clearer near the start of the page that sysfs(2) is obsolete

timer_create.2
  Michael Kerrisk
    Strengthen the warning about use of printf() in the example program
  Michael Kerrisk
    Update cross reference: signal(7) should be signal-safety(7)

umount.2
  NeilBrown
    Revise MNT_FORCE description
      MNT_FORCE does not allow a busy filesystem to be unmounted. Only
      MNT_DETACH allows that. MNT_FORCE only tries to abort pending
      transactions, in the hope that might help umount not to block,

      Also, other filesystems than NFS support MNT_FORCE.

unshare.2
  Eugene Syromyatnikov
    Update pointer to in-kernel unshare documentation

wait.2
  Michael Kerrisk [ ]
    POSIX.1-2008 TC1 clarifies treatment of 'si_pid' for waitid() WNOHANG

cmsg.3
  Sukadev Bhattiprolu
    Add
 a scatter/gather buffer to sample code
  Michael Kerrisk
    Reorganize the text somewhat (no content changes)

crypt.3
  Konstantin Shemyak [Michael Kerrisk]
    Add description of previously undocumented 'rounds' parameter
  Konstantin Shemyak
    Encryption isn't done with SHA-xxx, but with a function based on SHA-xxx
  Konstantin Shemyak
    Clarify that ending of the salt string with '$' is optional

exit.3
  Michael Kerrisk
    Mention the prctl(2) PR_SET_PDEATHSIG operation

Michael Kerrisk
SEE ALSO: add get_robust_list(2)
Michael Kerrisk
Add a heading to delimit discussion of signals sent to other processes

exp2.3
Alex Henrie
Remove C89 designation

log1p.3
Alex Henrie
Document fixes to give EDOM or ERANGE on error

matherr.3
Michael Kerrisk
Note that glibc 2.27 removes the 'matherr' mechanism
Michael Kerrisk
Remove crufty feature test macro requirements

pow10.3
Michael
Kerrisk
Note that pow10() is now obsolete in favor of exp10()
Also, the pow10() functions are no longer supported by glibc,
starting with version 2.27.

sincos.3
Michael Kerrisk
Note that sincos() is intended to be more efficient than sin() + cos()

cciss.4
hpsa.4
Eugene Syromyatnikov [Don Brace, Meelis Roos]
Mention cciss removal in Linux 4.14
During the Linux 4.13 development cycle, the cciss driver has been
removed in favor of the hpsa driver, which has been amended with
some legacy board support.

initrd.4
proc.5
bootparam.7
Eugene Syromyatnikov
Update pointer to in-kernel initrd documentation

initrd.4
Eugene Syromyatnikov
Update pointer to in-kernel root over NFS documentation

intro.4
  Michael Kerrisk
    SEE ALSO: add mknod(1) and mknod(2)

host.conf.5
  Michael Kerrisk
    Add cross-reference to hosts(5)

locale.5
  Marko Myllynen
    Refer
 to existing locales for encoding details
      Since I don't think it would make sense to try to have different
      explanation for each glibc version on the locale(5) man page, I'm
      proposing that we apply the below patch so that we refer to
      existing locale definition files in general and not spell out the
      exact format or any certain locale as a definitive guideline.

nologin.5
  Michael Kerrisk
    Add a sentence explaining why nologin is useful

proc.5
  Eugene Syromyatnikov
    Document removal of htab-reclaim sysctl file
      This PPC-specific sysctl option has been removed in Linux 2.4.9.2,
      according to historic Linux repository commit log.
  Eugene Syromyatnikov
    Add description for cpuN lines in /proc/stat
  Eugene Syromyatnikov
    Add description for softirq line in /proc/stat
  Eugene Syromyatnikov
    Document removal of timer_stats file
  Michael Kerrisk
    Note Linux
 4.9 changes to privileges for /proc/[pid]/timerslack_ns
  Michael Kerrisk
    Show command used to mount /proc
  Michael Kerrisk
    Explicitly note in intro that some /proc files are writable
  Eugene Syromyatnikov
    Update pointer to in-kernel SysRq documentation
  Michael Kerrisk
    SEE ALSO: add sysfs(5)
  Eugene Syromyatnikov
    Update pointer to in-kernel security keys documentation
  Benjamin Peterson
    Fix path to binfmt_misc docs

Eugene Syromyatnikov
Update pointer to in-kernel MTRR documentation
Eugene Syromyatnikov
Update reference to kernel's crypto API documentation

tzfile.5
Paul Eggert
Sync from tzdb upstream
This makes tzfile.5 a copy of the tzdb version, except that the
tzdb version's first line is replaced by man-pages boilerplate.
The new version documents version 3 format, among other things.
Also, it removes the "Summary of the timezone information
file
format" section, which should no longer be needed due to
improvements in the part of the man page.

capabilities.7
Michael Kerrisk
Note semantics for a program that is set-UID-root and has capabilities
Note semantics for a program that is both set-user-ID-root and has
file capabilities.
Michael Kerrisk [Dennis Knorr]
Note that a set-UID-root program may have an empty file capability set

cgroups.7
Michael Kerrisk
SEE ALSO: systemd-cgls(1)

cpuset.7
Eugene Syromyatnikov
Update pointer to in-kernel cpusets documentation

keyrings.7
Eugene Syromyatnikov
Document description restriction for logon keys
"logon" type has additional check that enforces colon-separated
prefix in key descriptions.
Eugene Syromyatnikov
Add pointers to kernel's documentation
Mostly because of asymmetric-keys.txt, which is outside
security/keys
for some reason.

man-pages.7
Michael Kerrisk
Expand the guidance on formatting code snippets

netlink.7

  David Wilder
    Change buffer size in example code about reading netlink message
  Michael Kerrisk [Rick Jones]
    Add a comment on 8192 buffer size in example code

pthreads.7
  Michael Kerrisk
    SEE ALSO: add pthread_mutexattr_destroy(3) and pthread_mutexattr_init(3)

signal.7
  Michael Kerrisk
    Since glibc 2.26, SIGUNUSED is no longer defined

tcp.7
  Vincent Bernat
    tcp_tw_recycle is removed from Linux 4.12
      And it is completely broken.

unicode.7
  Eugene Syromyatnikov
    Update pointer to in-kernel Unicode terminal support documentation

========== Changes in man-pages-4.14 ==========

Released: 2017-11-27, Paris

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated
 in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages
---

pthread_spin_init.3
  Michael Kerrisk [Peter Zijlstra, Thomas Gleixner, Zack Weinberg,
      Florian Weimer]
    New page describing pthread_spin_init(3) and pthread_spin_destroy(3)

pthread_spin_lock.3

  Michael Kerrisk [Carlos O'Donell]
    New page describing functions that lock and unlock spin locks
      Add a page describing pthread_spin_lock(3), pthread_spin_unlock(3),
      and pthread_spin_trylock(3).

smartpqi.4
  Don Brace [Michael Kerrisk, G. Branden Robinson]
      Document the smartpqi SCSI driver

veth.4
  Tomáš Pospíšek, Eric Biederman, Michael Kerrisk
    New page documenting veth virtual ethernet devices
      Based on a page from Tomáš Pospíšek, with some clean-ups by mtk.

Removed pages
---

infnan.3:
  Michael Kerrisk
    This function was in libc4 and libc5, but never part

of glibc. It ceased to be relevant nearly 20 years
ago. Time to remove the man page.

Newly documented interfaces in existing pages
---

ioctl_userfaultfd.2
userfaultfd.2
  Prakash Sangappa [Andrea Arcangeli, Mike Rapoport]
    Add description for UFFD_FEATURE_SIGBUS

madvise.2
   Rik van Riel [Colm MacCárthaigh, Michael Kerrisk]
    Document MADV_WIPEONFORK and MADV_KEEPONFORK
  Michael Kerrisk
    Note fork() and execve() semantics for wipe-on-fork setting

membarrier.2
  Mathieu Desnoyers
    Update membarrier manpage for 4.14
      Add documentation for these new membarrier() commands:
          MEMBARRIER_CMD_PRIVATE_EXPEDITED
          MEMBARRIER_CMD_REGISTER_PRIVATE_EXPEDITED

memfd_create.2
  Mike Kravetz
    Add description of MFD_HUGETLB (hugetlbfs) support
      hugetlbfs support for memfd_create() was recently merged by Linus
      and should be in the Linux 4.14 release. To request hugetlbfs
      support a new memfd_create() flag (MFD_HUGETLB) was added.

readv.2
  Christoph Hellwig
    Document RWF_NOWAIT added in Linux 4.14

seccomp.2
  Tyler Hicks
    Document the SECCOMP_GET_ACTION_AVAIL operation added in Linux 4.14
  Tyler Hicks
    Document the SECCOMP_FILTER_FLAG_LOG
 flag added in Linux 4.14
  Tyler Hicks
    Document the SECCOMP_RET_LOG action added In Linux 4.14
  Michael Kerrisk [Kees Cook]
    Add description of SECCOMP_RET_KILL_PROCESS
  Michael Kerrisk
    Add SECCOMP_RET_KILL_THREAD description and rework SECCOMP_RET_KILL text

Michael Kerrisk
Document the seccomp audit logging feature added in Linux 4.14

seccomp.2
proc.5
Tyler Hicks
Document the seccomp /proc interfaces added in Linux 4.14
Document the seccomp /proc interfaces in Linux 4.14:
/proc/sys/kernel/seccomp/actions_avail and
/proc/sys/kernel/seccomp/actions_logged.

sigaltstack.2
Michael Kerrisk [Stas Sergeev]
Document the SS_AUTODISARM flag added in Linux 4.7

proc.5
Michael Kerrisk
Document /proc/locks
Oliver Ebert
Document /proc/kpagecgroup
Oliver Ebert
Add KPF_BALLOON, KPF_ZERO_PAGE, and KPF_IDLE for /proc/kpageflags

pid_namespaces.7
Michael Kerrisk
Document /proc/sys/kernel/ns_last_pid

New and changed links
---

pthread_spin_destroy.3
Michael Kerrisk
New link to new pthread_spin_init.3 page

pthread_spin_trylock.3
pthread_spin_unlock.3
Michael Kerrisk
New links to new pthread_spin_lock.3 page

Global changes

Various pages
Michael Kerrisk
Consistently use "x86-64", not "x86_64"
When referring to the architecture, consistently use "x86-64",

not "x86_64". Hitherto, there was a mixture of usages, with
"x86-64" predominant.

Various pages
  G. Branden Robinson
    Replace incorrect uses of Latin abbreviation "cf.".
      People seem to be using "cf." ("conferre"), which means "compare",
      to mean "see" instead, for which the Latin abbreviation would be
      "q.v." ("quod vide" -> "which see").

      In some cases "cf." might actually be the correct term but it's
       still not clear what specific aspects of a function/system call
      one is supposed to be comparing.

Changes to individual pages
---

capget.2
  Michael Kerrisk
    Clarify discussion of kernels that have no VFS capability support

clock_getres.2
  Michael Kerrisk
    clock_gettime() may be implemented in the vDSO

clone.2
  Michael Kerrisk
    Warn that the clone() wrapper modifies child_stack in the parent
  Michael Kerrisk
    Rework the discussion of the historical CLONE_PID for clarity
  Michael Kerrisk
    Add NOTES heading
  Michael Kerrisk
    Add a reference to new veth(4) page
  Michael Kerrisk
    Eliminate some redundant phrasing in discussion of "fn()"
  Michael Kerrisk
    Combine redundant paragraphs describing child_stack==NULL
  Michael Kerrisk
    Note that child_stack can be NULL when using the raw system call
  Michael Kerrisk
    Remove a redundant paragraph

connect.2
   Michael Kerrisk
    Clarify that ECONNREFUSED is for stream sockets

fcntl.2
  Michael Kerrisk [Jens Axboe]
    Inode read-write hints persist only until the filesystem is unmounted

flock.2
  Michael Kerrisk
    Move NFS details to a headed subsection
  Michael Kerrisk [Petr Uzel]
    Placing an exclusive lock over NFS requires the file is open for writing

fork.2
  Rik van Riel [Colm MacCárthaigh, Michael Kerrisk]
    Document effect of MADV_WIPEONFORK

fork.2
getsid.2
setpgid.2
setsid.2
  Ahmad Fatoum
    Include <sys/types.h> in SYNOPSIS to obtain declaration of pid_t

fsync.2
  Craig Ringer
    ERRORS: add ENOSPC

getcpu.2
  Michael Kerrisk
    getcpu() may have an implementation in the vDSO

getpid.2
  Michael Kerrisk
    Mention that PID == TGID, and note contrast with TID
  Michael Kerrisk
    SEE ALSO: add gettid(2)

getrandom.2
  Michael Kerrisk [Fabio Scotoni]
    ERRORS: add ENOSYS

getrlimit.2
   Michael Kerrisk [Scott Vokes]
    Make it clear RLIMIT_NPROC is a limit on current number of processes
      https://twitter.com/silentbicycle/status/893849097903505409

gettid.2
  Michael Kerrisk
    SEE ALSO: add getpid(2)

gettimeofday.2
  Michael Kerrisk
    Note that gettimeofday() may be implemented in the vDSO

ioctl_userfaultfd.2
  Michael Kerrisk
    Rework version information for feature bits

io_submit.2
  Goldwyn Rodrigues
    Add iocb details to io_submit
      Add more information about the iocb structure. Explains the
      fields of the I/O control block structure which is passed to the
      io_submit() call.
  Michael Kerrisk
    Add cross-reference to io_getevents(2)
  Michael Kerrisk
    Cross reference pwritev(2) in discussion of RWF_SYNC and RWF_DSYNC

membarrier.2
  Mathieu Desnoyers
    Update example to take TSO into account
      The existing example given specifically states that
 it focus on
      x86 (TSO memory model), but gives a read-read vs write-write
      ordering example, even though this scenario does not require
      explicit barriers on TSO.

      So either we change the example architecture to a weakly-ordered
      architecture, or we change the example to a scenario requiring
      barriers on x86.

      Let's stay on x86, but provide a Dekker as example instead.
  Mathieu Desnoyers
      Adapt the MEMBARRIER_CMD_SHARED return value documentation to
      reflect that it now returns -EINVAL when issued on a system
      configured for nohz_full.

memfd_create.2
  Michael Kerrisk
    Note the limit for size of 'name'

mkdir.2
  Michael Kerrisk [Raghavendra D Prabhu]
    ERRORS: document EINVAL error for invalid filename

mmap.2

Michael Kerrisk
Add explicit text noting that 'length' must be greater than 0
Currently, this detail is hidden in ERRORS.
Make it clear in
the main text.
Michael Kerrisk
SEE ALSO: add ftruncate(2)

mremap.2
Mike Kravetz [Florian Weimer, Jann Horn]
Add description of old_size == 0 functionality
Since at least the 2.6 time frame, mremap() would create a new
mapping of the same pages if 'old_size == 0'. It would also leave
the original mapping. This was used to create a 'duplicate
mapping'.

A recent change was made to mremap() so that an attempt to create a
duplicate a private mapping will fail.
Michael Kerrisk [Michal Hocko, Mike Kravetz]
BUGS: describe older behavior for old_size==0 on private mappings
Explain the older behavior, and why it changed. This is a
follow-up to Mike Kravetz's patch documenting the behavior
for old_size==0 with shared mappings.
Michael Kerrisk
Reformat EINVAL errors as a list

open.2
Michael Kerrisk

By contrast with O_RDONLY, no file permissions are required for O_PATH
Note one of the significant advantages of O_PATH: many of the
operations applied to O_PATH file descriptors don't require
read permission, so there's no reason why the open() itself
should require read permission.
Michael Kerrisk
Note use of O_PATH to provide O_EXEC functionality
Michael Kerrisk
Mention O_PATH file descriptor use with fexecve(3)
Michael Kerrisk
ERRORS: document EINVAL error for invalid filename
Michael Kerrisk
Clarify that O_TMPFILE creates a *regular* file
Michael Kerrisk
Make it explicit that O_CREAT creates a regular file
Michael Kerrisk
Since glibc 2.26, the open() wrapper always uses the openat() syscall
Michael Kerrisk
Change pathname used in discussion of rationale for openat()

/path/to/file is a little confusing as a pathname
Michael Kerrisk
Make the purpose of open() a little clearer at the start of the page

open_by_handle_at.2
NeilBrown
Clarifications needed due to NFS reexport
NeilBrown [Lennart Poettering]
Clarify MAX_HANDLE_SZ
As hinted in the kernel source, MAX_HANDLE_SZ is a hint
rather than a promise.

pipe.2
Michael Kerrisk [Marin H.]
Since Linux 4.5, fcntl() can be used to set O_DIRECT for a pipe
See https://bugzilla.kernel.org/show_bug.cgi?id=197917

pivot_root.2
Michael Kerrisk
SEE ALSO: add switch_root(8)

pkey_alloc.2
Breno Leitao
Fix argument order
Currently pkey_alloc() syscall has two arguments, and the very
first argument is still not supported and should be set to zero.
The second argument is the one that should specify the
page access rights.

ptrace.2
Michael Kerrisk
SEE ALSO: add ltrace(1)

reboot.2
Michael Kerrisk [Micha Zegan]
Fix bogus description of reboot() from non-initial PID namespace
The current text was confused (mea culpa). No signal is sent to
the init() process. Rather, depending on the 'cmd' given to
reboot(), the 'group_exit_code' value will set to either SIGHUP or
SIGINT, with the effect that one of those signals is reported to
wait() in the parent process.

See https://bugzilla.kernel.org/show_bug.cgi?id=195899
Michael Kerrisk
SEE ALSO: remove reboot(8) (synonym for halt(8)); add shutdown(8)
Michael Kerrisk
SEE ALSO: add systemctl(1), systemd(1)

recvmmsg.2
sendmmsg.2
  Elliot Hughes
    Type fixes in SYNOPSIS
      [mtk: The raw system calls use "unsigned int", but the glibc
      wrappers have "int" for the 'flags' argument.]

sched_setaffinity.2
  Michael Kerrisk
    SEE ALSO: add numactl(8)

sched_yield.2
  Michael Kerrisk [Peter Zijlstra]
    sched_yield()
 is intended for use with real-time scheduling policies

seccomp.2
  Michael Kerrisk [Adhemerval Zanella, Florian Weimer, Kees Cook]
    Add some Caveats regarding the use of seccomp filters
  Michael Kerrisk
    Document the "default" filter return action
      The kernel defaults to either SECCOMP_RET_KILL_PROCESS
      or SECCOMP_RET_KILL_THREAD for unrecognized filter
      return action values.
  Michael Kerrisk [Kees Cook]
    Change SECCOMP_RET_ACTION to SECCOMP_RET_ACTION_FULL
      In Linux 4.14, the action component of the return value
      switched from being 15 bits to being 16 bits. A new macro,
      SECCOMP_RET_ACTION_FULL, that masks the 16 bits was added,
      to replace the older SECCOMP_RET_ACTION.
  Michael Kerrisk
    Explicitly note that other threads survive SECCOMP_RET_KILL_THREAD
  Michael Kerrisk
    SEE ALSO: add strace(1)

send.2
  Grégory Vander Schueren
    Add EALREADY to ERRORS

setns.2
   Michael Kerrisk
    SEE ALSO: add nsenter(1)

shmop.2
  Yubin Ruan
    Note that return value of shmat() is page-aligned

sigaction.2

Michael Kerrisk
Rework discussion of SA_SIGINFO handler arguments
Expand and rework the text a little, in particular adding
a reference to sigreturn(2) as a source of further
information about the ucontext argument.
Michael Kerrisk
Mention that libc sets the act.sa_restorer field

sigaltstack.2
Michael Kerrisk [Walter Harms]
Reword BUGS text to be a little clearer
Michael Kerrisk
Add explicit error handling to example code
Michael Kerrisk
Add use of sigaction() to example code

sigreturn.2
Michael Kerrisk
Make it a little clearer that a stack frame is created by the kernel
Michael Kerrisk
glibc has a simple wrapper for sigreturn() that returns ENOSYS

splice.2
Michael Kerrisk
Since Linux 2.6.31,'fd_in'
and 'fd_out' may both refer to pipes

stat.2
Michael Kerrisk [Richard Knutsson]
Use lstat() instead of stat()
It's more logical to use lstat() in the example code,
since one can then experiment with symbolic links, and
also the S_IFLNK case can also occur.
NeilBrown
Correct AT_NO_AUTOMOUNT text and general revisions
Expand on the relationship between fstatat() and the other three
functions, and improve the description of AT_NO_AUTOMOUNT.
Specifically, both stat() and lstat() act the same way with
respect to automounts, and that behavior matches fstatat() with
the AT_NO_AUTOMOUNT flag.

statfs.2
Michael Kerrisk
Add some comments noting filesystems that are no longer current
Michael Kerrisk
Add comments describing a few filesystem types

time.2

Michael Kerrisk
Note that time() may be implemented in the vDSO
Michael Kerrisk
[Victor Porton]
Language fix-up: clarify that "tasks" means "work"
See https://bugzilla.kernel.org/show_bug.cgi?id=197183

userfaultfd.2
Mike Rapoport
BUGS: document spurious UFFD_EVENT_FORK

write.2
fsync.2
close.2
NeilBrown [Jeff Layton]
Update description of error codes
Since 4.13, errors from writeback are more reliably reported
to all file descriptors that might be relevant.

Add notes to this effect, and also add detail about ENOSPC and
EDQUOT which can be delayed in a similar many to EIO - for NFS
in particular.

abort.3
Michael Kerrisk
Starting with glibc 2.27, abort() does not attempt to flush streams
Michael Kerrisk
SEE ALSO: add assert(3)

backtrace_symbols_fd(3)
Stefan Puiu [Walter Harms]
backtrace_symbols_fd() can trigger a call to malloc()

daemon.3
Michael Kerrisk
SEE ALSO: add daemon(7), logrotate(8)

errno.3
Michael
Kerrisk
Note use of errno(1) to look up error names and numbers
Michael Kerrisk
Update error list for POSIX.1-2008
POSIX.1-2008 specified a couple of new errors not present in
POSIX.1-2001.
Michael Kerrisk [Walter Harms]
Note the use of perror(3) and strerror(3)
Michael Kerrisk

Recast the advice against manually declaring 'errno'
Recast the advice against manually declaring 'errno' to
a more modern perspective. It's 13 years since the original
text was added, and even then it was describing old behavior.
Cast the description to be about behavior further away in
time, and note more clearly that manual declaration will
cause problems with modern C libraries.
Michael Kerrisk
Add some missing errors
Michael Kerrisk
Error numbers are positive values (rather than nonzero values)
POSIX.1-2008 noted the explicitly
the change (to align with
the C standards) that error numbers are positive, rather
than nonzero.
Michael Kerrisk
Reorganize the text and add some subheadings
Restructure the text and add some subheadings for better
readability. No (intentional) content changes.
Michael Kerrisk [Wesley Aptekar-Cassels]
Note that error numbers vary somewhat across architectures
Added after a patch from Wesley Aptekar-Cassels that proposed
to add error numbers to the text.
Michael Kerrisk
Note the <errno.h> also provides the symbolic error names
Michael Kerrisk [Walter Harms]
Explicitly note that error numbers vary also across UNIX systems

exec.3
Michael Kerrisk
glibc 2.24 dropped CWD from the default path
Document the glibc 2.24 change that dropped CWD from the default
search path employed by execlp(), execvp() and execvpe() when
PATH
is not defined.

fexecve.3
Michael Kerrisk
O_PATH file descriptors are also usable with fexecve()
Cristian Rodríguez
fexecve() is now implemented with execveat(2), where available
Michael Kerrisk
Add some detail on the glibc implementation of fexecve() via execveat(2)

ffs.3
Michael Kerrisk
glibc 2.27 relaxes the FTM requirements for ffsl() and ffsll()

get_nprocs_conf.3
  Michael Kerrisk
    SEE ALSO: add nproc(1)

lround.3
  Michael Kerrisk [David Eckardt]
    Clarify that lround() rounds *halfway cases" away from zero
      See https://bugzilla.kernel.org/show_bug.cgi?id=194601

makedev.3
  Adrian Bunk
    glibc has deprecated exposing the definitions via <sys/types.h>

mallinfo.3
  Jakub Wilk
    Fix the example
      Remove reference to non-standard "tlpi_hdr.h" and replace calls to
      functions that were declared in this header.

malloc.3
  Michael Kerrisk
    SEE ALSO: add valgrind(1)

popen.3
   Michael Kerrisk
    Add a cross reference to Caveats in system(3)
      All of the same risks regarding system() also apply to popen().

pthread_detach.3
  Michael Kerrisk [Rahul Bedarkar]
    Improve sentence describing freeing of resources on process termination
      As reported by Rahul, the existing sentence could be read as
      meaning that resources of joined and terminated detached
      threads are freed only at process termination. Eliminate
      that possible misreading.

pthread_yield.3
  Michael Kerrisk [Peter Zijlstra]
    pthread_yield() is intended for use with real-time scheduling policies

setlocale.3
  Michael Kerrisk [Kištof Želechovski]
    The standards do not specify all of the locale categories

sockatmark.3
  Seonghun Lim
    Fix cruft in code example

stdio.3
  Michael Kerrisk
    Use proper section cross references in function list
  Michael Kerrisk
    Remove crufty
 reference to pc(1)

sysconf.3
  Michael Kerrisk
    Mention get_nprocs_conf(3)
      Mention get_nprocs_conf(3) in discussion of _SC_NPROCESSORS_CONF
      and _SC_NPROCESSORS_ONLN.

system.3
  Michael Kerrisk [Bastien Roucaries]
    Create a "Caveats" subsection to hold warnings about the use of system()
    See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=882222
  Michael Kerrisk [Bastien Roucaries]
    Mention PATH explicitly in discussion of system() and set-UID programs
  Michael Kerrisk [Bastien Roucaries]
    Note that user input for system() should be carefully sanitized
  Michael Kerrisk
    Mention file capabilities in discussion of privileged programs
  Michael Kerrisk
    Correctly note which shell Debian uses as (noninteractive) /bin/sh

core.5
  Michael Kerrisk
    Add some notes on systemd and core dumps
  Michael Kerrisk
    Dumps are not produced if core_pattern is empty and core_uses_pid is 0

  Michael Kerrisk [Per Böhlin]
    RLIMIT_CORE is not enforced when piping core dump to a program
  Michael Kerrisk
    SEE ALSO: add systemd-coredump(8)
  Michael Kerrisk
    SEE ALSO: add coredumpctl(1)

filesystems.5
  Michael Kerrisk [Jonny Grant]
    Replace crufty URL reference for 'smb' with up-to-date URL
  Michael Kerrisk [Jonny Grant]
    Refer to VFAT as an extended FAT (not DOS) filesystem

proc.5
  Michael Kerrisk [Miklos Szered, Ram Pai]
    Correct the description of the parent mount ID for /proc/PID/mountinfo

Oliver Ebert
Add mmap-exclusive bit for /proc/[pid]/pagemap
Marcus Folkesson
Update description of /proc/<pid>/oom_score
Lucas Werkmeister
Clarify permissions in /proc/[pid]/fd/
Michael Kerrisk
Add reference to pid_namespaces(7) for /proc/sys/kernel/ns_last_pid

shells.5
Michael Kerrisk
SEE ALSO: add pam_shells(8)

sysfs.5
Michael Kerrisk
Add a brief explanation
of /sys/kernel
Michael Kerrisk
Add a brief description of /sys/class/net
Michael Kerrisk
Add a brief description of /sys/kernel/mm
Michael Kerrisk
Add brief description of /sys/kernel/debug/tracing
Michael Kerrisk
Add a description of /sys/kernel/mm/hugepages

arp.7
Michael Kerrisk
SEE ALSO: add arpd(8)

capabilities.7
Michael Kerrisk
Add a reference to xattr(7) in the discussion of extended attributes
Michael Kerrisk
SEE ALSO: add captest(8)

epoll.7
Michael Kerrisk
Note existence of kcmp() KCMP_EPOLL_TFD operation

fifo.7
Michael Kerrisk
Refer reader to pipe(7) for details of I/O semantics of FIFOs

hier.7
Michael Kerrisk
SEE ALSO: add file-hierarchy(7)

icmp.7
  Michael Kerrisk
    SEE ALSO: add rdisc(8)

man-pages.7
  Michael Kerrisk
    Note that "x86-64" is generally preferred over "x86_64"
  G. Branden Robinson
    Add a use case for real
 minus character

namespaces.7
  Michael Kerrisk
    Add a reference to new veth(4) page
  Michael Kerrisk
    EXAMPLE: refer also to example in clone(2)

pid_namespaces.7
  Michael Kerrisk
    SEE ALSO: add reboot(2)
      Add because reboot(2) has special semantics for non-initial
      PID namespaces.

pthreads.7
  Michael Kerrisk
    SEE ALSO: add pthread_spin_init(3) and pthread_spin_lock(3)

socket.7
  Michael Kerrisk [Petr Malat, Tobias Klausmann]
    Correct the description of SO_RXQ_OVFL

standards.7
  Michael Kerrisk
    SEE ALSO: add getconf(1), confstr(3), pathconf(3), sysconf(3)

user_namespaces.7
  Christian Brauner [Michael Kerrisk]
    Document new 340 line idmap limit

ld.so.8
  Michael Kerrisk [Yubin Ruan]
    Simplify language around conferring capabilities
      The statement "conferring permitted or effective capabilities"
      to the process is somewhat redundant. Binaries with capabilities
       confer capabilities only to those process capability sets, so it's
      simpler to just say "confers capabilities to the process".

========== Changes in man-pages-4.15 ==========

Released: 2018-02-02, Palo Alto

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Apologies if I missed anyone!

New and rewritten pages
---

s390_sthyi.2
  QingFeng Hao [Michael Kerrisk]

New page for s390-specific s390_sthyi(2)

network_namespaces.7
  Michael Kerrisk
    New page describing network namespaces
      Based on content moved from namespaces(7)

vsock.7
  Stefan Hajnoczi [Jorgen Hansen, Michael Kerrisk]
    Document the VSOCK socket address family

Newly documented interfaces in existing pages
---

cgroups.7
  Michael Kerrisk [Tejun Heo]
     Document cgroups v2 "thread mode"
  Michael Kerrisk [Tejun Heo]
    Document cgroup v2 delegation via the 'nsdelegate' mount option
  Michael Kerrisk
    Document the cgroup.max.depth and cgroup.max.descendants files
  Michael Kerrisk
    Document 'release_agent' mount option
  Michael Kerrisk [Roman Gushchin]
    Document /sys/kernel/cgroup/delegate
  Michael Kerrisk [Roman Gushchin]
    Document /sys/kernel/cgroup/features
  Michael Kerrisk [Roman Gushchin]
    Document cgroups v2 cgroup.stat file

Global changes

Various pages
  G. Branden Robinson
    Standardize on "nonzero"
      Also add this term to the style guide in man-pages(7).

Changes to individual pages
---

bpf.2
  Nikolay Borisov
    Sync list of supported map types with 4.14 kernel

copy_file_range.2
  Michael Kerrisk
    Library support was added in glibc 2.27
  Shawn Landden
    glibc provides a
 user-space emulation where the system call is absent
  Florian Weimer
    EFBIG errors are possible, similar to write(2)
  Michael Kerrisk
    ERRORS: add EISDIR
  Michael Kerrisk
    Order ERRORS alphabetically
  Michael Kerrisk
    Add comment to code example explaining use of syscall(2)

fcntl.2
read.2
write.2
  NeilBrown
    Document "Lost locks" as cause for EIO.
      If an advisory lock is lost, then read/write requests on any
      affected file descriptor can return EIO - for NFSv4 at least.

memfd_create.2
  Michael Kerrisk
    glibc support for memfd_create() was added in version 2.27

mlock.2
  Michael Kerrisk
    Make details for MLOCK_ONFAULT a little more explicit
  Michael Kerrisk
    glibc support for mlock2() is added in version 2.27

mmap.2
  John Hubbard [Michael Hocko]
    MAP_FIXED is no longer discouraged
      MAP_FIXED has been widely used for a very long time, yet the man
      page
 still claims that "the use of this option is discouraged".
  John Hubbard
    MAP_FIXED updated documentation
        -- Expand the documentation to discuss the hazards in
          enough detail to allow avoiding them.

        -- Mention the upcoming MAP_FIXED_SAFE flag.

        -- Enhance the alignment requirement slightly.

mount.2
  Keno Fischer [Michael Kerrisk]
    Add EINVAL error condition when MS_BINDing MNT_LOCKED submounts

mprotect.2
pkey_alloc.2
  Michael Kerrisk
    Glibc support for memory protection keys was added in version 2.27

perf_event_open.2
  Michael Kerrisk
    SEE ALSO: add perf(1)

pkey_alloc.2
  Michael Kerrisk
    Clarify description of pkey_alloc() 'flags' argument

prctl.2
  Michael Kerrisk
    Defer to capabilities(7) for discussion of the "keep capabilities" flag

recvmmsg.2
sendmmsg.2
  Nikola Forró
    Point out that error handling is unreliable

seccomp.2
  Michael Kerrisk
     Clarify that SECCOMP_RET_TRAP SIGSYS signal is thread-directed

syscalls.2
  Michael Kerrisk
    Add s390-specific s390_sthyi(2) to syscall list

unshare.2
  Michael Kerrisk
    Clarify that EUSERS occurred only until kernel 4.8

errno.3
  Michael Kerrisk
    'errno -s' can be used to search for errors by string in description
  Michael Kerrisk
    Add Linux error text corresponding to ENOMEM

fgetpwent.3
  Michael Kerrisk
    Add missing ATTRIBUTES preamble

fts.3
  Michael Kerrisk [Pradeep Kumar]
    fts_pathlen = strlen(fts_path) + strlen(fts_name)

fuse.4
  Michael Kerrisk
    Places errors in alphabetical order (no content changes)

veth.4
  Michael Kerrisk
    Add network_namespaces(7)

sysfs.5
  Michael Kerrisk
    Refer to cgroups(7) for information about files in /sys/kernel/cgroup

capabilities.7
  Michael Kerrisk
    Note which capability sets are affected by SECBIT_NO_SETUID_FIXUP
      Note explicitly
 that SECBIT_NO_SETUID_FIXUP is relevant for
      the permitted, effective, and ambient capability sets.
  Michael Kerrisk
    Deemphasize the ancient prctl(2) PR_SET_KEEPCAPS command
      The modern approach is SECBITS_KEEP_CAPS.
  Michael Kerrisk
    Clarify effect of CAP_SETFCAP
      Make it clear that CAP_SETFCAP allows setting arbitrary
      capabilities on a file.
  Michael Kerrisk
    Clarify which capability sets are effected by SECBIT_KEEP_CAPS
      This flag has relevance only for the process permitted and
      effective sets.
  Michael Kerrisk
    Rephrase CAP_SETPCAP description
      * Mention kernel versions.
      * Place current kernel behavior first
  Michael Kerrisk
    SECBIT_KEEP_CAPS is ignored if SECBIT_NO_SETUID_FIXUP is set
  Michael Kerrisk
    Ambient set is also cleared when UIDs are set to nonzero value

cgroups.7
  Michael Kerrisk
    Add a more complete description
 of cgroup v1 named hierarchies
  Michael Kerrisk
    Add a section on unmounting cgroup v1 filesystems

Michael Kerrisk
Add subsection describing cgroups v2 subtree delegation
Michael Kerrisk
Mention ENOENT error that can occur when writing to subtree_control file
Michael Kerrisk
Add list of currently available version 2 controllers
Nikolay Borisov
Add information about RDMA controller
Michael Kerrisk
Rewrite the description of cgroup v2 subtree control
Michael Kerrisk [Tejun Heo]
Note Linux 4.11 changes to cgroup v2 delegation containment rules
Michael Kerrisk
systemd(1) nowadays automatically mounts the cgroup2 filesystem
Michael Kerrisk
Clarify that cgroup.controllers is read-only
Michael Kerrisk
Elaborate a little on problems of splitting threads across cgroups in v1
Michael Kerrisk [Tejun Heo]
Tweak the description of delegation of cgroup.subtree_control

ip.7
Ricardo Biehl Pasquali
INADDR_* values cannot be assigned directly to 's_addr'
Michael Kerrisk
s/INADDR_ANY/INADDR_LOOPBACK/ in discussion of htonl()
INADDR_LOOPBACK is a better example, since it is not
byte-order neutral.

namespaces.7
network_namespaces.7
Michael Kerrisk
Move content from namespaces(7) to network_namespaces(7)

pid_namespaces.7
Michael Kerrisk
SEE ALSO: add mount_namespaces(7)

sched.7
Michael Kerrisk [Andrea Parri]
Correctly describe effect of priority changes for RT threads
The placement of a thread in the run queue for its new
priority depends on the direction of movement in priority.
(This appears to contradict POSIX, except in the case of
pthread_setschedprio().)

user_namespaces.7
Michael Kerrisk

Mention NS_GET_OWNER_UID ioctl() operation

========== Changes in man-pages-4.16 ==========

Released:
2018-04-30, Munich

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The following people contributed patches/fixes or (noted in brackets
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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

membarrier.2
  Mathieu Desnoyers [Michael Kerrisk]
    Document new membarrier commands introduced in Linux 4.16
      Document the following membarrier commands introduced in
      Linux 4.16:

          MEMBARRIER_CMD_GLOBAL_EXPEDITED
            (the old enum label MEMBARRIER_CMD_SHARED is now an
            alias to preserve header backward compatibility)
          MEMBARRIER_CMD_REGISTER_GLOBAL_EXPEDITED
          MEMBARRIER_CMD_PRIVATE_EXPEDITED_SYNC_CORE
          MEMBARRIER_CMD_REGISTER_PRIVATE_EXPEDITED_SYNC_CORE

mmap.2
   Jan Kara [Ross Zwisler, Michael Kerrisk]
     Add description of MAP_SHARED_VALIDATE and MAP_SYNC
  Michal Hocko [John Hubbard, Michael Kerrisk, Jann Horn]
     Document new MAP_FIXED_NOREPLACE flag
       4.17+ kernels offer a new MAP_FIXED_NOREPLACE flag which allows
       the caller to atomically probe for a given address range.

readv.2
io_submit.2
  Jürg Billeter
     Document RWF_APPEND added in Linux 4.16

capabilities.7
  Michael Kerrisk
     Describe file capability versioning
  Michael Kerrisk [Serge E. Hallyn]
     Document namespaced-file capabilities
     [There's still more work to be done on this new text]

Changes to individual pages
---

bpf.2
  Michael Kerrisk
     Update list of architectures that support JITed eBPF
       And note kernel version numbers where support is added.
  Michael Kerrisk
     Kernel 4.15 added CONFIG_BPF_JIT_ALWAYS_ON

This causes the JIT compiler to be always on and
forces bpf_jit_enable to 1.

execve.2
Michael Kerrisk
Note that describing execve as "executing a new process" is misleading
This misdescription is so common that it's worth calling it out
explicitly.
Michael Kerrisk
More explicitly describe effect of execve() in the opening paragraph

fallocate.2
Michael Kerrisk
Since Linux 4.16, Btrfs supports FALLOC_FL_ZERO_RANGE

getrlimit.2
Michael Kerrisk
CAP_SYS_RESOURCE capability is required in *initial user namespace*

io_submit.2
Michael Kerrisk
Add kernel version numbers for various 'aio_rw_flags' flags
Michael Kerrisk
Place 'aio_rw_flags' in alphabetical order

mmap.2
Jann Horn
MAP_FIXED is okay if the address range has been reserved
Clarify that MAP_FIXED is appropriate if the specified address
range has been reserved using an existing mapping,
but shouldn't
be used otherwise.
Michael Kerrisk
Move the text on MAP_FIXED to NOTES
This text has become rather long, making it somewhat
unwieldy in the discussion of the mmap() flags. Therefore,
move it to NOTES, with a pointer in DESCRIPTION referring
the reader to NOTES.
Michael Kerrisk [Heinrich Schuchardt]
Clarify that when addr==NULL, address chosen by kernel is page-aligned
Michael Kerrisk
Add a little historical detail on the obsolete MAP_DENYWRITE

mount.2
Michael Kerrisk
ERRORS: add EBUSY for the case of trying to stack same mount twice
Michael Kerrisk

Remove a couple of obsolete EBUSY errors
As far as I can tell, these EBUSY errors disappeared
with the addition of stackable mounts in Linux 2.4.

msgget.2
semget.2
shmget.2
Michael Kerrisk
The purpose of "flags" == 0 is to obtain ID of an existing IPC object

This was implied in these pages, but the meaning of "flags" == 0
could be more explicit, as indicated by questions such as
https://stackoverflow.com/questions/49833569/flag-value-of-semget-function

open.2
Jann Horn
Document more -ETXTBSY conditions
Jakub Wilk
Add missing argument for snprintf() in example code

perf_event_open.2
Song Liu
Add type kprobe and uprobe
Two new types kprobe and uprobe are being added to
perf_event_open(), which allow creating kprobe or
uprobe with perf_event_open. This patch adds
information about these types.

ptrace.2
Jann Horn
Copy retval info for SECCOMP_GET_FILTER to right section
The "RETURN VALUE" section made a claim that was incorrect for
PTRACE_SECCOMP_GET_FILTER. Explicitly describe the behavior of
PTRACE_SECCOMP_GET_FILTER in the "RETURN VALUE" section (as
usual), but leave the
now duplicate description in the section
describing PTRACE_SECCOMP_GET_FILTER, since the
PTRACE_SECCOMP_GET_FILTER section would otherwise probably become
harder to understand.

readv.2
Michael Kerrisk
Remove redundant sentence

seccomp.2
Michael Kerrisk
Note that execve() may change syscall numbers during life of process
On a multiarch/multi-ABI platform such as modern x86, each

architecture/ABI (x86-64, x32, i386)has its own syscall numbers,
which means a seccomp() filter may see different syscall numbers
over the life of the process if that process uses execve() to
execute programs that has a different architectures/ABIs.
Michael Kerrisk
Note which architectures support seccomp BPF
Michael Kerrisk
In EXAMPLE, clearly note that x32 syscalls are >= X32_SYSCALL_BIT

shutdown.2
Carsten Grohmann
SEE ALSO: add close(2)

syscall.2
Adam
Borowski
Add riscv

wait.2
Michael Kerrisk [Robin Kuzmin]
wait() and waitpid() block the calling thread (not process)

wait4.2
Michael Kerrisk [Martin Mares]
Soften the warning against the use of wait3()/wait4()
These functions are nonstandard, but there is no replacement.

See https://bugzilla.kernel.org/show_bug.cgi?id=199215

crypt.3
encrypt.3
Carlos O'Donell [Michael Kerrisk]
Add notes about _XOPEN_CRYPT
The distribution may choose not to support _XOPEN_CRYPT in the
case that the distribution has transitioned from glibc crypt to
libxcrypt.

fseek.3
Michael Kerrisk [Andy Owen]
ERRORS: EBADF should be ESPIPE
Michael Kerrisk
Improve EPIPE error text

getcwd.3
Carlos O'Donell
Mention that "(unreachable)" is no longer returned for glibc >= 2.27.

makedev.3

Michael Kerrisk
Since glibc 2.28, <sys/types.h> no longer defines these macros

pthread_create.3
Frederic Brault
Note default thread stack size for several architectures

tsearch.3
Jann Horn
Clarify items vs nodes
The manpage claimed that tsearch() returns a pointer to a data item. This is incorrect; tsearch() returns a pointer to the corresponding tree node, which can also be interpreted as a pointer to a pointer to the data item.

Since this API is quite unintuitive, also add a clarifying sentence.
Jann Horn
tdelete() can return dangling pointers
POSIX says that deleting the root node must cause tdelete() to return some unspecified non-NULL pointer. Glibc implements it by returning a dangling pointer to the (freed) root node.
Therefore, explicitly note that tdelete() may return bad pointers that must not be accessed.

elf.5
Michael Kerrisk
SEE ALSO: add patchelf(1)

filesystems.5
Michael Kerrisk
Add an entry for tmpfs(5)

group.5
Michael Kerrisk
SEE ALSO: add vigr(8)

passwd.5
Michael Kerrisk
SEE ALSO: add vipw(8)

sysfs.5
Michael Kerrisk
Add brief note on /sys/fs/smackfs

tmpfs.5
Mike Frysinger
Document current mount options

Some of this content is moved from the mount(8) man page.
Style was based on proc(5) sections.
Michael Kerrisk
Remove reference to mount(8) for discussion of mount options
The mount options are now described in this page.
Michael Kerrisk
SEE ALSO: add Documentation/vm/transhuge.txt
Michael Kerrisk
Reformat 'huge' and 'mpol' mount option values as lists
Michael Kerrisk
Describe 'mpol' mount options
Based on text from Documentation/filesystems/tmpfs.txt.
Michael Kerrisk
Document 'huge' mount options
Based on text from Documentation/vm/transhuge.txt.
Michael Kerrisk
SEE ALSO: add set_mempolicy(2)
Michael Kerrisk
Document mpol=local mount option

capabilities.7
Michael Kerrisk
Remove redundant mention of PTRACE_SECCOMP_GET_FILTER

cgroups.7
Michael Kerrisk
cgroup.events transitions generate POLLERR as well as POLLPRI

mount_namespaces.7
Michael Kerrisk
Note another case where shared "peer groups" are formed

namespaces.7
Michael Kerrisk [Konstantin Khlebnikov]
Mention that device ID should also be checked when comparing NS symlinks
When comparing two namespaces symlinks to see if they refer to
the same namespace, both the inode number and the device ID
should be compared. This point was already made clear in
ioctl_ns(2), but was missing from this page.
Michael Kerrisk
Note an idiosyncrasy of /proc/[pid]/ns/pid_for_children
/proc/[pid]/ns/pid_for_children has a value only after first
child is
created in PID namespace. Verified by experiment.

network_namespaces.7
Michael Kerrisk
Network namespaces isolate the UNIX domain abstract socket namespace

Michael Kerrisk
Add cross reference to unix(7)
For further information on UNIX domain abstract sockets.

posixoptions.7
Carlos O'Donell
Expand XSI Options groups
We define in detail the X/Open System Interfaces i.e. _XOPEN_UNIX
and all of the X/Open System Interfaces (XSI) Options Groups.

The XSI options groups include encryption, realtime, advanced
realtime, realtime threads, advanced realtime threads, tracing,
streams, and legacy interfaces.
Michael Kerrisk
Use a more consistent, less cluttered layout for option lists
Michael Kerrisk
Make function lists more consistent and less cluttered
Use more consistent layout for lists of functions, and
remove punctuation from the lists
to make them less cluttered.

socket.7
Michael Kerrisk [Tomi Salminen]
Fix error in SO_INCOMING_CPU code snippet
The last argument is passed by value, not reference.

time.7
Michael Kerrisk [Enrique Garcia]
Mention clock_gettime()/clock_settime() rather than [gs]ettimeofday()
gettimeofday() is declared obsolete by POSIX. Mention instead
the modern APIs for working with the realtime clock.

See https://bugzilla.kernel.org/show_bug.cgi?id=199049

unix.7
Michael Kerrisk [Rusty Russell]
ERRORS: add EBADF for sending closed file descriptor with SCM_RIGHTS

vdso.7
Michael Kerrisk
VDSO symbols (system calls) are not visible to seccomp(2) filters

xattr.7
Michael Kerrisk
SEE ALSO: add selinux(8)

ld.so.8
Mike Frysinger

Make lack of separator escaping explicit
Make it clear that the delimiters in LD_PRELOAD, LD_LIBRARY_PATH,
and LD_AUDIT cannot be escaped
so people don't try various methods
(such as \:) to workaround it.
Michael Kerrisk
Remove unneeded mention of PATH in discussion of LD_LIBRARY_PATH
This brief sentence doesn't add value to the text.

========== Changes in man-pages-5.00 ==========

Released: 2019-03-06, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

s390_guarded_storage.2
  Eugene Syromyatnikov
    New page documenting s390_guarded_storage(2) s390-specific system call

address_families.7
  Michael Kerrisk [Eugene Syromyatnikov]
    New page that contains details of socket address families
      There is too much detail in socket(2). Move most of it into
      a new page instead.

bpf-helpers.7
  Michael
Kerrisk [Daniel Borkmann, Quentin Monnet]
    Add new man page for eBPF helper functions
      (autogenerated from kernel source files)

Removed Pages
---

mdoc.7
mdoc.samples.7
  Michael Kerrisk [Ingo Schwarze]
    Remove mdoc(7) and mdoc.samples(7)
      groff_mdoc(7) from the groff project provides a better
      equivalent of mdoc.samples(7) and the 'mandoc' project
      provides a better mdoc(7). And nowadays, there are virtually

no pages in "man-pages" that use mdoc markup.

Newly documented interfaces in existing pages
---

fanotify_init.2
fanotify.7
  nixiaoming [Amir Goldstein, Michael Kerrisk]
    Document FAN_REPORT_TID
      fanotify_init.2: add new flag FAN_REPORT_TID
      fanotify.7: update description of member pid in
        struct fanotify_event_metadata
  Amir Goldstein
    Document FAN_MARK_FILESYSTEM
      Monitor fanotify
 events on the entire filesystem.
  Matthew Bobrowski [Amir Goldstein]
    Document FAN_OPEN_EXEC and FAN_OPEN_EXEC_PERM

io_submit.2
  Adam Manzanares
    Document IOCB_FLAG_IOPRIO

msgctl.2
semctl.2
shmctl.2
  Davidlohr Bueso [Joe Lawrence, Michael Kerrisk]
    Document STAT_ANY commands

prctl.2
  Konrad Rzeszutek Wilk [Michael Kerrisk]
    Document PR_SET_SPECULATION_CTRL and PR_GET_SPECULATION_CTRL

sched_setattr.2
  Claudio Scordino [Michael Kerrisk]
    Document SCHED_FLAG_DL_OVERRUN and SCHED_FLAG_RECLAIM

socket.2
  Tobias Klauser
    Document AF_XDP
      Document AF_XDP added in Linux 4.18.

inotify.7
  Henry Wilson
    Document IN_MASK_CREATE

unix.7

Michael Kerrisk
Document SO_PASSSEC
Michael Kerrisk
Document SCM_SECURITY ancillary data

New and changed links
---

reallocarray.3
Michael Kerrisk
New link to malloc(3)

precedence.7
Josh Triplett
Add as a redirect
to operator.7

Global changes

Various pages
Michael Kerrisk [G. Branden Robinson]
Use '\e' rather than '\\' to get a backslash

Various pages
Michael Kerrisk [Bjarni Ingi Gislason, G. Branden Robinson]
Use zerowidth space in appropriate locations

Various pages
Michael Kerrisk
Clarify the distinction between "file descriptor" and "file description"

Various pages
Mike Rapoport
Update paths for in-kernel memory management documentation files

A few pages
Michael Kerrisk
Change references to '2.6.0-test*' series kernels to just '2.6.0'

Changes to individual pages
---

iconv.1
Marko Myllynen

SEE ALSO: add uconv(1)

localedef.1
Howard Johnson
Note that -f and -c, are reversed from what you might expect

time.1
Michael Kerrisk [Johannes Altmanninger]
Document the -q/--quiet option
Jakub Wilk
Update bug reporting address

bpf.2
Tobias
Klauser
Update JIT support list for Linux 4.18
JIT support for x86-32 was during the Linux 4.18 release cycle.
Also correct the entry for MIPS (only MIPS64 is supported).
Oded Elisha
Fix bug in example
Quentin Monnet
SEE ALSO: add bpf-helpers(7)

capget.2
Michael Kerrisk
Remove crufty sentence suggesting use of deprecated functions
Remove crufty sentence suggesting use of deprecated capsetp(3) and
capgetp(3); the manual page for those functions has long (at least
as far back as 2007) noted that they are deprecated.
Michael Kerrisk
Remove first paragraph, which repeats details from capabilities(7)

chroot.2
Michael Kerrisk
Mention /proc/[pid]/root

clock_getres.2
Michael Kerrisk [Jens Thoms Toerring]
CLOCK_MONOTONIC_RAW does not count while the system is suspended
Michael Kerrisk [Jens Thoms Toerring]
On Linux CLOCK_MONOTONIC counts
time that the system has run since boot
Michael Kerrisk [Jens Thoms Toerring]
CLOCK_MONOTONIC does not count while the system is suspended
Michael Kerrisk
ERRORS: add EINVAL error for noncanonical clock_settime() value

clone.2

Michael Kerrisk
Rework discussion of threads and signals
The discussion is phrased in terms of signals sent using kill(2),
but applies equally to a signal sent by the kernel.
Jann Horn
Pending CLONE_NEWPID prevents thread creation
Michael Kerrisk
Clarify the discussion of threads and signals
And explicitly introduce the terms "process-directed" and
"thread-directed" signals.
Eugene Syromyatnikov
Add information about clone and clone2 on IA-64
Michael Kerrisk
ERRORS: EINVAL occurs with CLONE_NEWUSER if !CONFIG_USER_NS

connect.2
Benjamin Peterson
Document error semantics of nonblocking UNIX domain sockets

epoll_ctl.2
Michael Kerrisk
Use the term "interest list" consistently

epoll_wait.2
Michael Kerrisk
Clarify the behavior when epoll_wait()-ing on an empty interest list
Michael Kerrisk
Note that epoll_wait() round robins through the set of ready descriptors

eventfd.2
Michael Kerrisk
Move text noting that eventfd() creates a FD earlier in the page

fcntl.2
Michael Kerrisk
Actual pipe capacity may in practice be less than nominal capacity
The number of bytes that can be written to the pipe may be less
(sometimes substantially less) than the nominal capacity.
Eugene Syromyatnikov
Mention that l_sysid is not used even if present
Michael Kerrisk
Briefly explain the meaning of the 'l_sysid' field in 'struct flock'

futex.2
Benjamin Peterson
Make the example use C11 atomics rather than GCC builtins

getcpu.2

Tobias Klauser [Michael Kerrisk]
getcpu() now has a glibc wrapper;
remove mention of syscall(2)
The glibc wrapper was added in glibc 2.29, release on 1 Feb 2019.

getgid.2
getpid.2
getuid.2
pipe.2
syscall.2
Eugene Syromiatnikov [Michael Kerrisk]
Describe 2nd return value peculiarity
Some architectures (ab)use second return value register for
additional return value in some system calls. Let's describe this.

getgroups.2
Michael Kerrisk
Note that a process can drop all groups with: setgroups(0, NULL)

getrlimit.2
Eugene Syromyatnikov
Note that setrlimit(RLIMIT_CPU) doesn't fail
Michael Kerrisk
Resource limits are process-wide attributes shared by all threads
This was already noted in pthreads(7), but bears repeating here.
Eugene Syromyatnikov
Correct information about large limits on 32-bit architectures

gettid.2
Michael Kerrisk
Glibc provides a wrapper since version 2.30

gettimeofday.2
Michael Kerrisk
ERRORS: add EINVAL
for noncanonical 'tv' argument to settimeofday()

gettimeofday.2
clock_getres.2
Michael Kerrisk [Jens Thoms Toerring]
ERRORS: EINVAL can occur if new real time is less than monotonic clock

getxattr.2
removexattr.2
setxattr.2
Michael Kerrisk [Andreas Gruenbacher, Enrico Scholz]
ERRORS: replace ENOATTR with ENODATA
See also https://bugzilla.kernel.org/show_bug.cgi?id=201995

inotify_add_watch.2
  Paul Millar
    Add IN_ONLYDIR based error
  Henry Wilson
    Note errors that can occur for IN_MASK_CREATE

io_submit.2
  Jeff Moyer
    Fix the description of aio_data
      aio_data is not a kernel-internal field.

madvise.2
  Michal Hocko [Niklas Hambüchen]
    MADV_FREE clarify swapless behavior

memfd_create.2
  Marc-André Lureau
    Update hugetlb file-sealing support
  Lucas De Marchi
    Fix header for memfd_create()
  Joseph C. Sible
    _GNU_SOURCE is required

mmap.2
  Elliott Hughes

  Explicitly state that the fd can be closed
  Jann Horn [Michal Hocko, William Kucharski]
    Fix description of treatment of the hint
      The current manpage reads as if the kernel will always pick a free
      space close to the requested address, but that's not the case.

mount.2
  Michael Kerrisk
    Clearly distinguish per-mount-point vs per-superblock mount flags
  Michael Kerrisk
    MS_SILENT is ignored when changing propagation type
  Michael Kerrisk
    Attempts to change MS_SILENT setting during remount are silently ignored
  Michael Kerrisk [Harry Mallon]
    Document EROFS for read-only filesystems
      See https://bugzilla.kernel.org/show_bug.cgi?id=200649
  Michael Kerrisk
    Clarify that per-superblock flags are shared during remount
  Michael Kerrisk
    Remove crufty sentence about MS_BIND + MS_REMOUNT
  Michael Kerrisk

Mention /proc/PID/mountinfo
Many people are unaware of the /proc/PID/mountinfo
file. Provide
a helpful clue here.
Michael Kerrisk
Mandatory locking also now requires CONFIG_MANDATORY_FILE_LOCKING
Michael Kerrisk [Simone Piccardi]
Add MS_STRICTATIME to list of flags that can be used in remount
Michael Kerrisk
EACCES: note some reasons why a filesystem may be read-only
Michael Kerrisk
SEE ALSO: add ioctl_iflags(2)

msgop.2
Michael Kerrisk
Correct the capability description for msgsnd() EACCESS error

nfsservctl.2
Michael Kerrisk
Add VERSIONS section noting that this system call no longer exists

open.2
Lucas Werkmeister
Document ENXIO for sockets
Michael Kerrisk
Clarify a special use case of O_NONBLOCK for devices
Eugene Syromiatnikov
Mention presence of unused O_RSYNC definition
O_RSYNC is defined in <asm/fcntl.h> on HP PA-RISC, but is not
used anyway.
Eugene Syromiatnikov
Document FASYNC usage
in Linux UAPI headers
Andrew Price
Remove O_DIRECT-related quotation
Remove a section that adds no benefit to the discussion of O_DIRECT.
Michael Kerrisk [Robin Kuzmin]
Clarify that O_NONBLOCK has no effect on poll/epoll/select

perf_event_open.2
Vince Weaver [Wang Nan]
Document the PERF_EVENT_IOC_PAUSE_OUTPUT ioctl
The PERF_EVENT_IOC_PAUSE_OUTPUT ioctl was introduced in Linux 4.7.
Vince Weaver
Fix wording in multiplexing description
Vince Weaver
Clarify exclude_idle
Vince Weaver

Document the PERF_EVENT_IOC_QUERY_BPF ioctl
Vince Weaver
Document the PERF_EVENT_IOC_MODIFY_ATTRIBUTES ioctl
Vince Weaver
Fix prctl behavior description

pivot_root.2
Elvira Khabirova
Explain the initramfs case and point to switch_root(8)
Joseph Sible [Joseph C. Sible]
Document EINVAL if root is rootfs

pkey_alloc.2
Michael Kerrisk [Szabolcs Nagy]
Switch
to glibc prototype in SYNOPSIS

poll.2
Michael Kerrisk
Note that poll() and ppoll() are not affected by O_NONBLOCK

posix_fadvise.2
Eugene Syromyatnikov
Describe the difference between fadvise64/fadvise64_64

prctl.2
Benjamin Peterson
PR_SET_MM_EXE_FILE may now be used as many times as desired
Michael Kerrisk
Add some further historical details on PR_SET_MM_EXE_FILE
Michael Kerrisk [Jann Horn]
Explain the circumstances in which the parent-death signal is sent
Michael Kerrisk
Rework the PR_SET_PDEATHSIG description a little, for easier readability
Michael Kerrisk
Add additional info on PR_SET_PDEATHSIG
The signal is process directed and the siginfo_t->si_pid
filed contains the PID of the terminating parent.
Michael Kerrisk
Note libcap(3) APIs for operating on ambient capability set
(However, the libcap APIs do not yet seem to have
manual pages...)
Michael Kerrisk
Mention libcap APIs for operating on capability bounding set

ptrace.2
Dmitry V. Levin
Do not say that PTRACE_O_TRACESYSGOOD may not work

Jann Horn
BUGS: ptrace() may set errno to zero

readdir.2
Eugene Syromyatnikov
Fix struct old_linux_dirent in accordance with current definition

readv.2
Xiao Yang [Florian Weimer]
Fix wrong errno for an unknown flag

rename.2
Michael Kerrisk
glibc 2.28 adds library support for renameat2()
Tobias Klauser
Add feature test macro for renameat2()
The glibc wrapper for renameat2() was added in glibc 2.28 and
requires _GNU_SOURCE.
Eugene Syromiatnikov
Some additional notes regarding RENAME_WHITEOUT
Lucas Werkmeister [Michael Kerrisk]
Add kernel versions for RENAME_NOREPLACE support
Michael Kerrisk
Rework list of supported filesystems for RENAME_NOREPLACE
Tobias Klauser
renameat2()
now has a glibc wrapper; remove mention of syscall(2)

s390_runtime_instr.2
Eugene Syromyatnikov
Add a note about runtime_instr.h availability

s390_sthyi.2
Eugene Syromyatnikov [Heiko Carstens]
Some minor additions

sched_setattr.2
Michael Kerrisk
Add a bit more detail for SCHED_DEADLINE

sched_setparam.2
Michael Kerrisk
Clarify that scheduling parameters are per-thread (not per-process)

seccomp.2
Michael Kerrisk
(Briefly) document SECCOMP_FILTER_FLAG_SPEC_ALLOW
Michael Kerrisk

SEE ALSO: add bpfc(1)

select.2
Michael Kerrisk
BUGS: the use of value-result arguments is a design bug
Michael Kerrisk [Robin Kuzmin]
Note that select() and pselect() are not affected by O_NONBLOCK

select_tut.2
Michael Kerrisk [Antonio Chirizzi]
Diagnose inet_aton() errors with simple fprintf() (not perror())

setgid.2
Michael Kerrisk
Clarify EPERM capability requirements with respect
to user namespaces

setns.2
Michael Kerrisk
When joining a user namespace, it must be a descendant user namespace
Michael Kerrisk
Note capability requirements for changing PID namespace
Note capability requirements for changing network, IPC, or UTS namespace
Note capability requirements for changing cgroup namespace
Michael Kerrisk
Some text restructuring and reordering

set_thread_area.2
Eugene Syromyatnikov
Mention related prctl() requests in SEE ALSO
Eugene Syromyatnikov
Mention that get_thread_area() is also Linux-specific
Eugene Syromyatnikov
Describe set_thread_area()/get_thread_area() on m68k/MIPS

setuid.2
Michael Kerrisk
Clarify EPERM capability requirements with respect to user namespaces

sigaction.2
Eugene Syromyatnikov [Michael Kerrisk]
Describe obsolete usage of struct sigcontext as signal handler argument

sigsuspend.2
Michael Kerrisk
Clarify that
sigsuspend() suspends the calling *thread*

socket.2
  Michael Kerrisk
    Remove references to external docs
      This information is all in the new address_families(7)
  Michael Kerrisk
    Add cross reference to address_families(7)
  Eugene Syromyatnikov
    Reinstate AF_VSOCK mention
  Michael Kerrisk
    Simplify list of address families
      Remove many of the details that are in address_families(7)
  Nikola Forró
    Remove notes concerning AF_ALG and AF_XDP
      All address families are now documented in address_families.7.
  Michael Kerrisk
    Remove some more obscure protocols from address family list
      The list of address families in this page is still
      overwhelmingly long. So let's shorten it.
      The removed entries are all in address_families(7).
  Michael Kerrisk
    Remove a few obsolete protocols
      Documentation for these remains in address_families(7)

socketpair.2
   Eugene Syromyatnikov
    Note that AF_TIPC also supports socketpair(2)
      Introduced by Linux commit v4.12-rc1~64^3~304^2~1.

stat.2
  Michael Kerrisk [Alessandro Vesely]
    ERRORS: ENOENT can occur where a path component is a dangling symlink
      See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=909789
  Benjamin Peterson
    SEE ALSO: add statx(2)

statx.2
  Tobias Klauser [Michael Kerrisk]
    statx() now has a glibc wrapper; remove mention of syscall(2)

syscall.2
  Eugene Syromyatnikov [Michael Kerrisk]
    Elaborate x32 ABI specifics
  snyh
    Fix wrong retval register number in alpha architecture
  Helge Deller
    parisc needs care with syscall parameters
  Michael Kerrisk
    Rework table to render within 80 columns

syscalls.2
  Eugene Syromyatnikov
    Change example of a thin syscall wrapper to chdir()
      As truncate(3) should dispatch between truncate/truncate64,
      as noted
later in the page.
  Eugene Syromyatnikov [Michael Kerrisk]
    Update syscall table
      Added: arc_gettls, arc_settls, arc_usr_cmpxchg, arch_prctl,
      atomic_barrier, atomic_cmpxchg_32, bfin_spinlock, breakpoint,
      clone2, cmpxchg, cmpxchg_badaddr, dma_memcpy, execv, get_tls,
      getdomainname, getdtablesize, gethostname, getxgid, getxpid,
      getxuid, metag_get_tls, metag_set_fpu_flags,metag_set_tls,
      metag_set_global_bit, newfstatat, old_adjtimex, oldumount,
      or1k_atomic, pread, pwrite, riscv_flush_icache,
      sched_get_affinity, sched_set_affinity, set_tls, setaltroot,
      sethae, setpgrp, spill, sram_alloc, sram_free, swapcontext,
      switch_endian, sys_debug_setcontext, syscall, sysmips, timerfd,
      usr26, usr32, xtensa.

      Uncommented: memory_ordering

      Renamed: ppc_rtas to rtas (__NR_rtas), ppc_swapcontext to
      swapcontext (__NR_swapcontext).
   Eugene Syromyatnikov
    Note about s390x and old_mmap
  Michael Kerrisk
    Add s390_guarded_storage(2)
  Michael Kerrisk
    Update syscall list for Linux 4.18
  Eugene Syromyatnikov
    Note that not all architectures return errno negated
  Helge Deller
    parisc Linux does not any longer emulate HP-UX
  Michael Kerrisk
    Comment out details of a few system calls that only ever briefly existed

unshare.2
  Michael Kerrisk [Shawn Landden]
    Same EINVAL errors as for clone(2) can also occur with unshare(2)
  Tycho Andersen
    Note EINVAL when unsharing pid ns twice
      The kernel doesn't allow unsharing a pid NS if it has
      previously been unshared.

ustat.2
  Michael Kerrisk

Starting with version 2.28, glibc no longer provides a wrapper function

vmsplice.2
  Andrei Vagin
    Note that vmsplice can splice pages from pipe to memory

wait.2
  Michael Kerrisk
    Add some cross references
 to core(5)

write.2
  Michael Kerrisk [Nadav Har'El]
    RETURN VALUE: clarify details of partial write and
      https://bugzilla.kernel.org/show_bug.cgi?id=197961
  Goldwyn Rodrigues
    Add details on partial direct I/O writes

alloca.3
  Michael Kerrisk [Robin Kuzmin]
    Prevent any misunderstanding about when allocated memory is released

bsd_signal.3
  Xiao Yang
    Fix the wrong version of _POSIX_C_SOURCE

bstring.3
  Michael Kerrisk [Emil Fihlman]
    Correct argument list for memmem() prototype

cmsg.3
  Michael Kerrisk
    Explain zero-initialization requirement for CMSG_NXTHDR()
  Michael Kerrisk
    Remove out of place mention of MSG_CTRUNC
      This detail is covered in recvmsg(2), and now also in unix(7).
  Michael Kerrisk
    Note that CMSG_FIRSTHDR can return NULL
  Michael Kerrisk
    Remove unnecessary 'fdptr' intermediate variable in example code

des_crypt.3
encrypt.3
  Michael Kerrisk

 The functions described in these pages are removed in glibc 2.28

dlsym.3

Michael Kerrisk
Describe a case where a symbol value may be NULL

errno.3
Michael Kerrisk [Robert P. J. Day]
Mention that errno(1) is part of the 'moreutils' package

exec.3
Michael Kerrisk [Eugene Syromyatnikov]
Note that SPARC provides an execv() system call

exit.3
Mike Frysinger
Note wider sysexits.h availability

ferror.3
Elliot Hughes
Warn about closing the result of fileno()

fnmatch.3
Elliott Hughes
Clarify "shell wildcard pattern"

getaddrinfo.3
Michael Kerrisk [Eric Sanchis]
Fix off-by-one error in example client program

getcwd.3
Michael Kerrisk
Rework text on use of getcwd() system call
Make it clear that all of the library functions described on this
page will use the getcwd() system call if it is present.
Michael Kerrisk
Add details on the getcwd() syscall and how it
used by libc functions
Michael Kerrisk
Reorder the text describing "(unreachable)" being returned by getcwd()

getmntent.3
Elliot Hughes
Clarify that endmntent() should be used rather than fclose()

isatty.3
Michael Kerrisk [Jakub Wilk]
Most non-tty files nowadays result in the error ENOTTY
Historically, at least FIFOs and pipes yielded the error EINVAL.

lockf.3

Ian Turner
ERRORS: add EINTR

malloc.3
Michael Kerrisk
Add reference to glibc MallocInternals wiki
Michael Kerrisk
Note that calloc() detects overflow when multiplying its arguments
Michael Kerrisk
Since glibc 2.29, reallocarray() is exposed by defining _DEFAULT_SOURCE
Info gleaned from glibc NEWS file.

pthread_attr_init.3
Michael Kerrisk [Göran Häggsjö, Jakub Wilk]
Use correct printf() specifier for "size_t" in example program

pthread_rwlockattr_setkind_np.3
Carlos O'Donell
Remove bug notes

pthread_setname_np.3
Jakub Wilk
Explain _np suffix
Add text to CONFORMING TO explaining that the "_np"
suffix is because these functions are non-portable.

putenv.3
Michael Kerrisk
Note a glibc extension: putenv("NAME") removes an environment variable

resolver.3
Michael Becker
Add documentation of res_nclose()

strcmp.3
Heinrich Schuchardt
Clarify that strcmp() is not locale aware

strcpy.3
Matthew Kilgore
Fix example code for strncpy, which could pass an incorrect length
Michael Kerrisk [Frank Theile]
Use "destination" consistently (instead of "target" sometimes)

strfry.3
Keith Thompson
Remove incorrect reference to rand(3)

string.3
strlen.3
strnlen.3
  Michael Kerrisk [Jakub Wilk]
    Use 'bytes' not 'characters'
      This is in line with POSIX terminology.

system.3
  Michael Kerrisk [Jonny Grant]
    Use '(char *) NULL' rather than '(char *) 0'
  Michael
 Kerrisk
    Note that system() can fail for the same reasons as fork(2)
  Arkadiusz Drabczyk
    Mention that 'errno' is set on error

termios.3
  Eugene Syromyatnikov
    Note an XTABS alpha issue

trunc.3
  Michael Kerrisk [Eric Benton, G. Branden Robinson]
    Make the description a little clearer
  Michael Kerrisk
    Emphasize that the return value is a floating-point number

xcrypt.3
  Jason A. Donenfeld
    Warn folks not to use these functions

lirc.4
  Sean Young
    Fix broken link
  Sean Young
    Document error returns more explicitly
  Sean Young
    lirc.h include file is in /usr/include/linux/lirc.h
  Sean Young [Alec Leamas, Mauro Carvalho Chehab]
    Remove ioctls and feature bits which were never implemented
  Sean Young
    Unsupported ioctl() operations always return ENOTTY
  Sean Young
    LIRC_MODE_LIRCCODE has been replaced by LIRC_MODE_SCANCODE
  Sean Young
    Document remaining
 ioctl (LIRC_GET_REC_TIMEOUT)
      Now all ioctls are documented.
  Sean Young

Timeout reports are enabled by default
Sean Young
Some devices are send only
Sean Young
Update SEE ALSO
Sean Young
LIRC_CAN_SET_REC_DUTY_CYCLE_RANGE was never supported
No driver ever supported such a thing.
Michael Kerrisk
Clarify the description LIRC_SET_REC_TIMEOUT

tty.4
Michael Witten
Add `vcs(4)' and `pty(7)' to the `SEE ALSO' section

vcs.4
Mattias Engdegård [Michael Witten]
Fix broken example code

core.5
Michael Kerrisk
Add cross reference to vdso(7) where "virtual DSO" is mentioned

filesystems.5
Eugene Syromyatnikov
Mention sysfs(2)

host.conf.5
Nikola Forró
Clarify glibc versions in which spoof options were removed

proc.5
Michael Kerrisk [Philip Dumont]
Document /proc/[tid]
See also https://bugzilla.kernel.org/show_bug.cgi?id=201441
Michael Kerrisk
Add an overview section describing the groups of files under /proc
Keno Fischer [Robert O'Callahan]
Correct description of NStgid
Lucas Werkmeister
Document fdinfo format for timerfd
Stephan Knauss
Mention /proc/uptime includes time spent in suspend
Michael Kerrisk
Reword /proc/PID/fdinfo timerfd field descriptions as a hanging list
Michael Kerrisk
SEE ALSO: add htop(1) and pstree(1)
fs/proc/uptime.c:uptime_proc_show() fetches time using

ktime_get_boottime which includes the time spent in suspend.
Michael Kerrisk
Document /proc/PID/status CoreDumping field
Michael Kerrisk
Mention choom(1) in discussion of /proc/[pid]/oom_score_adj
Michael Kerrisk
Add a few details on /proc/PID/fdinfo timerfd
Michael Kerrisk
Document /proc/meminfo KReclaimable field
Michael Kerrisk
Explain how to determine top-most mount in /proc/PID/mountinfo
Explain how to determine the top-most mount at a particular location by inspecting /proc/PID/mountinfo.
Michael Kerrisk [Jakub Wilk]
Remove bogus suggestion to use cat(1) to read files containing '\0'
Michael Kerrisk
Refer to mount(2) for explanation of mount vs superblock options
Michael Kerrisk
Fix description of /proc/PID/* ownership to account for user namespaces
Elvira Khabirova
Describe ambiguities in /proc/<pid>/maps
Michael Kerrisk [Nick Gregory]
Since Linux 4.5, "stack:" is no longer shown in /proc/PID/maps
Nikola Forró
Document /proc/[pid]/status Speculation_Store_Bypass field
Alan Jenkins
Vmalloc information is no longer calculated (Linux 4.4)
Michael Kerrisk [Alexander E. Patrakov, Jakub Wilk, Michael Kerrisk]
Use 'tr '\000' '\n' to display contents of /proc/PID/environ
Michael Kerrisk
Setting dumpable to 1 reverts ownership of /proc/PID/*
to effective IDs
Michael Kerrisk
Document /proc/meminfo LazyFree field
Michael Kerrisk
Fix kernel source pathname for soft-dirty documentation
Michael Kerrisk
/proc/[pid]/status VmPMD field was removed in Linux 4.15

resolv.conf.5
Nikola Forró
Document no-reload (RES_NPRELOAD) option

tzfile.5
Paul Eggert
Sync from tzdb upstream

capabilities.7

Michael Kerrisk
Fix some imprecisions in discussion of namespaced file capabilities
The file UID does not come into play when creating a v3
security.capability extended attribute.
Michael Kerrisk
Note that v3 security.attributes are transparently created/retrieved
Michael Kerrisk
Improve the discussion of when file capabilities are ignored
The text stated that the execve() capability transitions are not
performed for the same reasons that setuid and setgid mode bits
may be ignored (as
described in execve(2)). But, that's not quite
correct: rather, the file capability sets are treated as empty
for the purpose of the capability transition calculations.
Michael Kerrisk
Rework bounding set as per-thread set in transformation rules
Michael Kerrisk
Substantially rework "Capabilities and execution of programs by root"
Rework for improved clarity, and also to include missing details
on the case where (1) the binary that is being executed has
capabilities attached and (2) the real user ID of the process is
not 0 (root) and (3) the effective user ID of the process is 0
(root).
Marcus Gelderie
Add details about SECBIT_KEEP_CAPS
The description of SECBIT_KEEP_CAPS is misleading about the
effects on the effective capabilities of a process during a
switch to nonzero UIDs. The effective set is cleared based on
the
effective UID switching to a nonzero value, even if
SECBIT_KEEP_CAPS is set. However, with this bit set, the
effective and permitted sets are not cleared if the real and
saved set-user-ID are set to nonzero values.
Marcus Gelderie
Mention header for SECBIT constants
Mention that the named constants (SECBIT_KEEP_CAPS and others)
are available only if the linux/securebits.h user-space header
is included.
Michael Kerrisk
Add text introducing bounding set along with other capability sets
Michael Kerrisk [Allison Randal]
Update URL for location of POSIX.1e draft standard
Michael Kerrisk
CAP_SYS_CHROOT allows use of setns() to change the mount namespace
Michael Kerrisk [Pierre Chifflier]
Ambient capabilities do not trigger secure-execution mode
Michael Kerrisk
Add a subsection on per-user-namespace "set-user-ID-root" programs

Michael Kerrisk
Rework discussion of exec and UID 0, correcting a couple of details
Clarify the "Capabilities and execution of programs by root"
section, and correct a couple of details:
* If a process with rUID == 0 && eUID != 0 does an exec,
the process will nevertheless gain effective capabilities
if the file effective bit is set.
* Set-UID-root programs only confer a full set of capabilities
if the binary does not also have attached capabilities.
Michael Kerrisk
Update URL for libcap tarballs
The previous location does not seem to be getting updated.
(For example, at the time of this commit, libcap-2.26
had been out for two months, but was not present at
http://www.kernel.org/pub/linux/libs/security/linux-privs.
Michael Kerrisk
Clarify which capability sets capset(2) and capget(2) apply to
capset(2) and capget(2) apply
operate only on the permitted,
effective, and inheritable process capability sets.
Michael Kerrisk
Correct the description of SECBIT_KEEP_CAPS
Michael Kerrisk
Add background details on capability transformations during execve(2)
Add background details on ambient and bounding set when
discussing capability transformations during execve(2).
Michael Kerrisk
Document the 'no_file_caps' kernel command-line option

cgroup_namespaces.7
Michael Kerrisk [Troy Engel]
Clarify the example by making an implied detail more explicit.
See https://bugzilla.kernel.org/show_bug.cgi?id=201047

cgroups.7
Michael Kerrisk
Add more detail on v2 'cpu' controller and realtime threads
Explicitly note the scheduling policies that are relevant for the
v2 'cpu' controller.
Michael Kerrisk
Document the use of 'cgroup_no_v1=named' to disable v1 named hierarchies

This feature was added in Linux 5.0.
Michael Kerrisk [Mike Weilgart]
Complete partial sentence re kernel boot options and 'nsdelegate'
https://bugzilla.kernel.org/show_bug.cgi?id=201029
Michael Kerrisk
Reframe the text on delegation to include more details about cgroups v1

Michael Kerrisk [Leah Hanson]
Rework discussion of writing to cgroup.type file
In particular, it is possible to write "threaded" to a
cgroup.type file if the current type is "domain threaded".
Previously, the text had implied that this was not possible.
Michael Kerrisk [Balbir Singh, Marcus Gelderie]
Soften the discussion about delegation in cgroups v1
Balbir pointed out that v1 delegation was not an accidental
feature.

epoll.7
Michael Kerrisk
Introduce the terms "interest list" and "ready list"
Michael Kerrisk
Consistently use the term "interest list" rather than "epoll
set"
Michael Kerrisk
Reformat Q&A list
Michael Kerrisk
Note that edge-triggered notification wakes up only one waiter
Note a useful performance benefit of EPOLLET: ensuring that
only one of multiple waiters (in epoll_wait()) is woken
up when a file descriptor becomes ready.
Michael Kerrisk
Expand the discussion of the implications of file descriptor duplication
In particular, note that it may be difficult for an application
to know about the existence of duplicate file descriptors.

feature_test_macros.7
Michael Kerrisk [Andreas Westfeld]
Add more detail on why FTMs must be defined before including any header

inotify.7
Michael Kerrisk [Paul Millar]
Note ENOTDIR error that can occur for IN_ONLYDIR
Note ENOTDIR error that occurs when requesting a watch on a
nondirectory with IN_ONLYDIR.

ip.7
Bert Hubert
IP_RECVTTL error fixed

I need to get the TTL of UDP datagrams from userspace, so I set
the IP_RECVTTL socket option. And as promised by ip.7, I then get
IP_TTL messages from recvfrom. However, unlike what the manpage
promises, the TTL field gets passed as a 32 bit integer.

man.7

Michael Kerrisk
SEE ALSO: remove mdoc.samples(7)

mount_namespaces.7
Michael Kerrisk
SEE ALSO: add findmnt(8)

namespaces.7
Michael Kerrisk
List factors that may pin a namespace into existence
Various factors may pin a namespace into existence, even when it
has no member processes.
Michael Kerrisk [Tycho Kirchner]
Briefly explain why CAP_SYS_ADMIN is needed to create nonuser namespaces
Michael Kerrisk
Mention ioctl(2) in discussion of namespaces APIs
Michael Kerrisk
SEE ALSO: add pam_namespace(8)

pid_namespaces.7
Michael Kerrisk
Clarify the semantics for the adoption of orphaned
processes
Because of setns() semantics, the parent of a process may reside
in the outer PID namespace. If that parent terminates, then the
child is adopted by the "init" in the outer PID namespace (rather
than the "init" of the PID namespace of the child).
Michael Kerrisk
Note a detail of /proc/PID/ns/pid_for_children behavior
After clone(CLONE_NEWPID), /proc/PID/ns/pid_for_children is empty
until the first child is created. Verified by experiment.
Michael Kerrisk
Note that a process can do unshare(CLONE_NEWPID) only once

sched.7
Michael Kerrisk [Eugene Syromyatnikov]
In the kernel source SCHED_OTHER is actually called SCHED_NORMAL
Michael Kerrisk
SEE ALSO: add ps(1) and top(1)
Michael Kerrisk
SEE ALSO: add chcpu(1), lscpu(1)

signal.7
Michael Kerrisk [Robin Kuzmin]
Clarify that sigsuspend() and pause() suspend the calling *thread*
Helge
Deller
Add signal numbers for parisc

Michael Kerrisk
Unify signal lists into a signal table that embeds standards info
Having the signals listed in three different tables reduces
readability, and would require more table splits if future
standards specify other signals.
Michael Kerrisk
Reorder the architectures in the signal number lists
x86 and ARM are the most common architectures, but currently
are in the second subfield in the signal number lists.
Instead, swap that info with subfield 1, so the most
common architectures are first in the list.
Michael Kerrisk
Place signal numbers in a separate table
The current tables of signal information are unwieldy,
as they try to cram in too much information.
Michael Kerrisk
Insert standards info into tables
Michael Kerrisk
SEE ALSO: add clone(2)

socket.7
Michael Kerrisk
Refer reader to unix(7) for information on SO_PASSSEC
Michael Kerrisk
SEE ALSO: add address_families(7)

socket.7
unix.7
Michael Kerrisk
Move text describing SO_PEERCRED from socket(7) to unix(7)
This is, AFAIK, an option specific to UNIX domain sockets, so
place it in unix(7).

tcp.7
udp.7
Michael Kerrisk
Add a reference to socket(7) noting existence of further socket options

unix.7
Michael Kerrisk
Enhance the description of SCM_RIGHTS
The existing description is rather thin. More can be said.
Michael Kerrisk
There is a limit on the size of the file descriptor array for SCM_RIGHTS
The limit is defined in the kernel as SCM_MAX_FD (253).
Michael Kerrisk
Rework SO_PEERCRED text for greater clarity
Michael Kerrisk [Felipe Gasper]

Clarify SO_PASSCRED behavior
Michael Kerrisk
Explicitly note that SO_PASSCRED provides SCM_CREDENTIALS
messages
Michael Kerrisk
If the buffer to receive SCM_RIGHTS FDs is too small, FDs are closed
Michael Kerrisk
One must send at least one byte of real data with ancillary data
Michael Kerrisk
Ancillary data forms a barrier when receiving on a stream socket
Michael Kerrisk
When sending ancillary data, only one item of each type may be sent
Michael Kerrisk
Improve wording describing socket option argument/return values
Michael Kerrisk
Clarify treatment of incoming ancillary data if 'msg_control' is NULL
Michael Kerrisk
Note behavior if buffer to receive ancillary data is too small
Michael Kerrisk
Fix a minor imprecision in description of SCM_CREDENTIALS
Michael Kerrisk
Refer reader to socket(7) for information about SO_PEEK_OFF

user_namespaces.7
Michael Kerrisk
Rework terminology describing ownership of nonuser namespaces
Prefer the word "owns" rather than
"associated with" when
describing the relationship between user namespaces and non-user
namespaces. The existing text used a mix of the two terms, with
"associated with" being predominant, but to my ear, describing the
relationship as "ownership" is more comprehensible.

vdso.7
Helge Deller
Fix parisc gateway page description

ld.so.8
Michael Kerrisk [Florian Weimer, David Newall]
Document the --preload command-line option added in glibc 2.30
Michael Kerrisk
Note delimiters for 'list' in --audit and --inhibit-rpath
Michael Kerrisk
Place OPTIONS in alphabetical order
Michael Kerrisk
LD_PRELOAD-ed objects are added to link map in left-to-right order

zdump.8

Paul Eggert
Sync from tzdb upstream

zic.8
Paul Eggert
Sync from tzdb upstream

========== Changes in man-pages-5.01 ==========

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Contributors

The
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in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

tsearch.3
  Florian Weimer [Michael Kerrisk]
    Document the twalk_r() function added in glibc 2.30

New and changed links
---

twalk_r.3
  Michael Kerrisk
    New link to twalk(3) page

Changes to individual pages
---

accept.2
  Michael Kerrisk
    Note that 'addrlen' is left unchanged in the event of an error
      See http://austingroupbugs.net/view.php?id=836.

bpf.2
  Michael Kerrisk
    Update kernel version info for JIT compiler

clone.2
  Michael Kerrisk [Jakub Nowak]
    CLONE_CHILD_SETTID has effect before clone() returns *in the child*
      CLONE_CHILD_SETTID may not have had effect by the time clone()
      returns in the parent, which could be relevant if the
      CLONE_VM flag is employed. The relevant kernel code is in
       schedule_tail(), which is called in ret_from_fork()
      in the child.

      See https://bugzilla.kernel.org/show_bug.cgi?id=203105

execve.2
exec.3
  Michael Kerrisk [Dr. Jürgen Sauermann]
    Consistently use the term 'pathname' (not 'path')

execve.2
  Michael Kerrisk
    Note that stack+environ size is also limited to 3/4 of _STK_LIM
      In fs/exec.c::prepare_arg_pages(), we have:

limit = _STK_LIM / 4 * 3;
limit = min(limit, bprm->rlim_stack.rlim_cur / 4);
Michael Kerrisk [Dr. Jürgen Sauermann]
SEE ALSO: refer to exec(3) (rather than execl(3))

pipe.2
Michael Kerrisk
Note that 'pipefd' is left unchanged in the event of an error
See http://austingroupbugs.net/view.php?id=467.

sched_setaffinity.2
Michael Kerrisk [Brice Goglin]
Correct details of return value of sched_getaffinity() syscall

setfsgid.2
Michael Kerrisk
Rewrite for improved
clarity and defer to setfsuid() for details
Rewrite for improved clarity and defer to setfsuid(2) for the
rationale of the fsGID rather than repeating the same details
in this page.

setfsuid.2
Michael Kerrisk
Rewrite for improved clarity and to hint history more explicitly
The current text reads somewhat clumsily. Rewrite it to introduce
the eUID and fsUID in parallel, and more clearly hint at the
historical rationale for the fsUID, which is detailed lower in
the page.

socketpair.2
Michael Kerrisk
Clarify that 'sv' is left unchanged in the event of an error
See also http://austingroupbugs.net/view.php?id=483.

splice.2
Slavomir Kaslev
EAGAIN can occur when called on nonblocking file descriptors

syscalls.2
Michael Kerrisk [Andreas Korb]
Remove crufty text about i386 syscall dispatch table
The removed text long ago ceased to be
accurate. Nowadays, the
dispatch table is autogenerated when building the kernel (via
the kernel makefile, arch/x86/entry/syscalls/Makefile).

tee.2
  Slavomir Kaslev
    EAGAIN can occur when called on nonblocking file descriptors

fopen.3
  Elliot Hughes
    Explain BSD vs glibc "a+" difference
      Where is the initial read position for an "a+" stream?

      POSIX leaves this unspecified. Most BSD man pages are silent, and
      MacOS has the ambiguous "The stream is positioned at the end of
      the file", not differentiating between reads and writes other than
      to say that fseek(3) does not affect writes. glibc's documentation
      explicitly specifies that the initial read position is the
      beginning of the file.

mallinfo.3
  Elliott Hughes
    Further discourage use of mallinfo()
      The BUGS section already explains why you need to be cautious
      about using mallinfo,
 but given the number of bug reports we see
      on Android, it seems not many people are reading that far. Call it
      out up front.

malloc_trim.3
  Carlos O'Donell
    Update trimming information
      Since glibc 2.8, commit 68631c8eb92, the malloc_trim function has
      iterated over all arenas and free'd back to the OS all page runs
      that were free. This allows an application to call malloc_trim to
      consolidate fragmented chunks and free back any pages it can to
      potentially reduce RSS usage.

posix_memalign.3
  Elliot Hughes
    Some functions set errno
      True of bionic, glibc, and musl. (I didn't check elsewhere.)

resolver.3
  Michael Kerrisk [Wladimir Mutel]
    Mention that some functions set 'h_errno'

stdarg.3
  Michael Kerrisk [Vincent Lefevre]
    Remove the NOTES section describing the ancient varargs macros
      stdarg.h is now 30 years old, and gcc long ago (2004)

ceased to
implement <varargs.h>. There seems little value in keeping this
text.

See https://bugzilla.kernel.org/show_bug.cgi?id=202907
Michael Kerrisk [Egmont Koblinger]
Add a note that "..." in function signature means a variadic function
Egmont suggested adding this, because the string "..." appears
at several other points in the page, but just to indicate that
some text is omitted from example code.

strerror.3
Jakub Wilk
Don't discuss buffer size for strerror_l()
Unlike strerror_r(), strerror_l() doesn't take buffer length as an
argument.

strtol.3
strtoul.3
Jakub Wilk
SEE ALSO: add strtoimax(3), strtoumax(3)

sysconf.3
Michael Kerrisk [Hugues Evrard]
Clearly note that _SC_PAGESIZE and _SC_PAGE_SIZE are synonyms

tsearch.3
Florian Weimer
Do not use const arguments in twalk() callback
The const specifier is not
part of the prototype (it only applies
to the implementation), so showing it here confuses the reader.
Michael Kerrisk
SYNOPSIS: add missing definition of 'VISIT' type
Michael Kerrisk
Reformat twalk() and twalk_r() prototypes for easier readability

console_codes.4
Jakub Wilk
Document that \e[1;n] and \e[2;n] support 16 colors
Source: setterm_command() in drivers/tty/vt/vt.c

elf.5
Michael Kerrisk [Keegan Saunders]
A data segment does not have PF_X

proc.5
Michael Witten [Anisse Astier]

Add missing Inode field to /proc/net/unix

hostname.7
Florian Weimer
HOSTALIASES/search path processing is DNS-specific
Other NSS modules do not necessarily honor these settings.

inode.7
Michael Kerrisk
Note that timestamp fields measure time starting at the Epoch
Michael Kerrisk
Timestamp fields are structures that include a nanosecond component
Michael Kerrisk

Add references to execve(2) to describe set-UID/set-GID behaviors

========== Changes in man-pages-5.02 ==========

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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

fanotify.7
fanotify_init.2
fanotify_mark.2
  Matthew Bobrowski [Amir Goldstein, Jan Kara]
    Document FAN_REPORT_FID and directory modification events

vdso.7
  Tobias Klauser [Palmer Dabbelt]
    Document vDSO for RISCV

Renamed pages
---

sysvipc.7
  svipc(7) is renamed to sysvipc(7).
    The name sysvipc is a bit more natural, and is the name used in
    /proc/sysvipc.

New and
 changed links
---

svipc.7
  Michael Kerrisk
    Add old name of sysvipc(7) page as a link

Global changes

Various pages

Michael Kerrisk
Change reference to svipc(7) to sysvipc(7)

Changes to individual pages
---

pldd.1
G. Branden Robinson [Michael Kerrisk]
Document glibc's unbreakage of tool
After a longstanding breakage, pldd now works again (glibc 2.30).

bpf.2
Michael Kerrisk
Correct kernel version for JIT support on s390

chdir.2
Michael Kerrisk
Add ENOTDIR error for fchdir()

execve.2
Michael Kerrisk [Eugene Syromyatnikov]
Since Linux 5.1, the limit on the #! line is 255 chars (rather than 127)
Shawn Landden [Michael Kerrisk]
Add more detail about Shebangs
Michael Kerrisk
Linux is not alone in ignoring the set-UID and set-GID bits for scripts

mount.2
Michael Kerrisk
ERRORS: Add a couple of EINVAL errors
for MS_MOVE
Michael Kerrisk
SEE ALSO: add chroot(2) and pivot_root(2)

mprotect.2
Mark Wielaard
pkey_mprotect() acts like mprotect() if pkey is set to -1, not 0

mprotect.2
pkey_alloc.2
Mark Wielaard [Florian Weimer]
_GNU_SOURCE is required for the pkey functions.

pivot_root.2
Michael Kerrisk
ERRORS: EINVAL occurs if 'new_root' or its parent has shared propagation
Michael Kerrisk

'new_root' must be a mount point
It appears that 'new_root' may not have needed to be a mount
point on ancient kernels, but already in Linux 2.4.5 this changed.
Michael Kerrisk
'put_old' can't be a mount point with MS_SHARED propagation
Michael Kerrisk
SEE ALSO: add mount(2)

poll.2
Michael Kerrisk [Alan Stern]
Note that poll() equivalent code for ppoll() is not quite equivalent

prctl.2
Yang Xu [Cyrill Gorcunov]
Correct some details for PR_SET_TIMERSLACK

setxattr.2
Finn
O'Leary [Michael Kerrisk]
Add ERANGE to 'ERRORS' section

tkill.2
Michael Kerrisk
glibc 2.30 provides a wrapper for tgkill()

dlopen.3
Michael Kerrisk
Clarify the rules for symbol resolution in a dlopen'ed object
The existing text wrongly implied that symbol look up first
occurred in the object and then in main, and did not mention
whether dependencies of main where used for symbol resolution.
Michael Kerrisk
Clarify when an executable's symbols can be used for symbol resolution
The --export-dynamic linker option is not the only way that main's
global symbols may end up in the dynamic symbol table and thus be
used to satisfy symbol reference in a shared object. A symbol
may also be placed into the dynamic symbol table if ld(1)
notices a dependency in another object during the static link.
Michael Kerrisk
An object opened with RTLD_LOCAL
can be promoted to RTLD_GLOBAL
Michael Kerrisk
Note that symbol use might keep a dlclose'd object in memory
Michael Kerrisk
On dlclose(), destructors are called when reference count falls to 0
Michael Kerrisk
Make it clear that RTLD_NODELETE also affects global variables
Michael Kerrisk

Clarify that constructors are called only when library is first loaded

exec.3
Matthew Kenigsberg
Explain function groupings
I've found the exec man page quite difficult to read when trying
to find the behavior for a specific function. Since the names of
the functions are inline and the order of the descriptions isn't
clear, it's hard to find which paragraphs apply to each function.
I thought it would be much easier to read if the grouping based on
letters is stated.

getutent.3
Michael Kerrisk [Thorsten Glaser]
Fix missing include file in EXAMPLE

See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=932382

on_exit.3
Michael Kerrisk [Sami Kerola]
Stack variables may be out of scope when exit handler is invoked

strcat.3
Michael Kerrisk [Eric Sanchis]
Fix off-by-one error in example code

cpuid.4
Michael Kerrisk
SEE ALSO: add cpuid(1)

elf.5
Michael Kerrisk
SEE ALSO: add ld.so(8)

proc.5
Michael Kerrisk
Correct description of /proc/PID/status 'ShdPnd' and 'SigPnd' fields
These fields are signal masks, not counters.
Michael Kerrisk
Clarify that various mask fields in /proc/PID/status are in hexadecimal

capabilities.7
Michael Kerrisk
Add a note about using strace on binaries that have capabilities
Michael Kerrisk
Add pivot_root(2) to CAP_SYS_ADMIN list
Michael Kerrisk
CAP_FOWNER also allows modifying user xattrs on sticky directories

cgroup_namespaces.7
  Michael Kerrisk
    Some wording fixes to improve
 clarity
  Michael Kerrisk
    In the example shell session, give second shell a different prompt

credentials.7
  Michael Kerrisk
    Note that /proc/PID/status shows a process's credentials
  Michael Kerrisk
    SEE ALSO: add tcgetsid(3)

fanotify.7
  Matthew Bobrowski
    Reword FAN_REPORT_FID data structure inclusion semantics
  Michael Kerrisk
    Clarify logic in ESTALE check
  Michael Kerrisk
    Reorder text in EXAMPLE
  Michael Kerrisk
    Reformat program output to fit in 80 columns

mount_namespaces.7
  Michael Kerrisk
    Clarify implications for other NS if mount point is removed in one NS
      If a mount point is deleted or renamed or removed in one mount
      namespace, this will cause an object that is mounted at that
      location in another mount namespace to be unmounted (as verified
      by experiment). This was implied by the existing text, but it is
      better to make this detail
 explicit.
  Michael Kerrisk
    SEE ALSO: add pivot_root(2), pivot_root(8)

namespaces.7
  Michael Kerrisk
    Note initial values of hostname and domainname in a new UTS namespace

sched.7
  Michael Kerrisk
    SEE ALSO: add pthread_getschedparam(3)

signal.7
  Michal Sekletar [Oleg Nesterov, Michael Kerrisk]
    Clarify that siginfo_t isn't changed on coalescing
  Michael Kerrisk

Various fields in /proc/PID/status show signal-related information
Michael Kerrisk
Add subsection on queuing and delivery semantics for standard signals

socket.7
Michael Kerrisk
select()/poll()/epoll honor SO_RCVLOWAT since Linux 2.6.28

unix.7
Michael Kerrisk
Note SCM_RIGHTS interaction with RLIMIT_NOFILE
If the file descriptors received in SCM_RIGHTS would cause
the process to its exceed RLIMIT_NOFILE limit, the excess
FDs are discarded.

user_namespaces.7
Michael Kerrisk
Describe the effect
of file-related capabilities inside user namespaces
Michael Kerrisk
Describe how kernel treats UIDs/GIDs when a process accesses files

vdso.7
Tobias Klauser
Mention removal of Blackfin port in Linux 4.17

ld.so.8
Michael Kerrisk [Matthias Hertel]
Note some further details of secure-execution mode
Note some further details of the treatment of environment
variables in secure execution mode. In particular (as noted by
Matthias Hertel), note that ignored environment variables are also
stripped from the environment. Furthermore, there are some other
variables, not used by the dynamic linker itself, that are also
treated in this way (see the glibc source file
sysdeps/generic/unsecvars.h).

========== Changes in man-pages-5.03 ==========

Released: 2019-10-11, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

pidfd_open.2
  Michael Kerrisk [Christian Brauner, Florian Weimer,
 Daniel Colascione]
    New page documenting pidfd_open(2)

pidfd_send_signal.2
  Michael Kerrisk [Florian Weimer, Christian Brauner]
    New page documenting pidfd_send_signal(2)

pivot_root.2
  Michael Kerrisk [Eric W. Biederman, Reid Priedhorsky, Philipp Wendler]
    This page has been completely rewritten, adding a lot of missing
    details (including the use of pivot_root(".", ".")) and an example
    program. In addition, the text prevaricating on whether or not
    pivot_root() might change the root and current working directories has
    been eliminated, and replaced with a simple description of the behavior
    of the system call, which has not changed for 19 years, and will not
    change in the future. Many longstanding errors in the old version of
    the page have also been corrected.

ipc_namespaces.7
  Michael Kerrisk
    New page with content migrated from namespaces(7)

uts_namespaces.7
  Michael Kerrisk

  New page with content migrated from namespaces(7)

Newly documented interfaces in existing pages
---

clone.2
  Christian Brauner, Michael Kerrisk
    Document CLONE_PIDFD
      Add an entry for CLONE_PIDFD. This flag is available starting
      with kernel 5.2. If specified, a process file descriptor
      ("pidfd") referring to the child process will be returned in

the ptid argument.

fanotify_mark.2
  Jakub Wilk
    Document FAN_MOVE_SELF

ptrace.2
  Dmitry V. Levin [Michael Kerrisk]
    Document PTRACE_GET_SYSCALL_INFO

regex.3
  Rob Landley
    Document REG_STARTEND

New and changed links
---

res_nclose.3
  Michael Kerrisk
    Add NEW link to resolver.3

Global changes

Various pages
  Michael Kerrisk
    SEE ALSO: correct list order

Various pages
  Michael Kerrisk
    Remove section number from references to function in its own page

Various pages
  Michael Kerrisk
    ERRORS: correct alphabetical order

Changes to individual pages
---

localedef.1
  Marko Myllynen
    Describe recently added options
      Describe few recently added options (present in glibc-2.29).

clone.2
  Michael Kerrisk
    SEE ALSO: add pidfd_open(2)

copy_file_range.2
  Amir Goldstein [Dave Chinner]
    Kernel v5.3 updates

fanotify_mark.2
  Jakub Wilk
    Add kernel version numbers for some FAN_* constants

getdomainname.2
  Michael Kerrisk
    Add mention of UTS namespaces

gethostname.2
  Michael Kerrisk [Jakub Wilk]
    Mention UTS namespaces

io_submit.2
  Matti Moell [Matti Möll]
    Fix kernel version numbers for 'aio_rw_flags' flags

kill.2
  Michael Kerrisk
    SEE ALSO: add pidfd_send_signal(2)

mmap.2
  Nikola Forró
    Fix EINVAL conditions
      Since introduction of MAP_SHARED_VALIDATE, in case flags contain
      both
 MAP_PRIVATE and MAP_SHARED, mmap() doesn't fail with EINVAL,
      it succeeds.

      The reason for that is that MAP_SHARED_VALIDATE is in fact equal
      to MAP_PRIVATE | MAP_SHARED.

mount.2
  Michael Kerrisk [Reid Priedhorsky]
    Describe the concept of "parent mounts"
  Michael Kerrisk
    NOTES: add subsection heading for /proc/[pid]/{mounts,mountinfo}
  Michael Kerrisk
    Rework the text on mount namespaces a little
      Eliminate the term "Per-process namespaces" and add a reference
      to mount_namespaces(7).

move_pages.2
  Yang Xu [Michael Kerrisk]
    Mark E2BIG as deprecated
      E2BIG was removed in 2.6.29, we should mark it as deprecated.

perf_event_open.2
  Michael Kerrisk [Alexey Budankov]
    SEE ALSO: add Documentation/admin-guide/perf-security.rst

prctl.2
  Michael Kerrisk
    Clarify that PR_GET_SPECULATION_CTRL returns value as function result
  Michael Kerrisk
    Clarify
 that PR_MCE_KILL_GET returns value via function result
  Michael Kerrisk
    Clarify that PR_GET_FP_MODE returns value as function result
  Michael Kerrisk
    RETURN VALUE: add some missing entries
      Note success return for PR_GET_SPECULATION_CTRL and PR_GET_FP_MODE.

rt_sigqueueinfo.2
  Michael Kerrisk
    Note that 'si_code' can't be specified as SI_KERNEL
  Michael Kerrisk
    The rules for 'si_code' don't apply when sending a signal to oneself
      The restriction on what values may be specified in 'si_code'
      apply only when sending a signal to a process other than the
      caller itself.
  Michael Kerrisk
    Rename 'uinfo' argument to 'info'
      This is more consistent with the naming in other pages
      that refer to a 'siginfo_t' structure.
  Michael Kerrisk
    SEE ALSO: add pidfd_send_signal(2)

sched_setaffinity.2
  Michael Kerrisk
    RETURN VALUE: sched_getaffinity() syscall differs
 from the wrapper

setns.2
  Mike Frysinger
    Fix CLONE_NEWNS restriction info

sigaction.2
  Michael Kerrisk

SEE ALSO: add pidfd_send_signal(2)

signalfd.2
Andrew Clayton, Michael Kerrisk
Note about interactions with epoll & fork

statx.2
Michael Kerrisk [Simone Piccardi]
Clarify details of a case where an invalid 'mask' value may be rejected

syscall.2
Shawn Anastasio
Add information for powerpc64
Michael Kerrisk [Adam Borowski, Florin Blanaru]
Update name of syscall instruction for riscv

syscalls.2
Michael Kerrisk
Add fsconfig(), fsmount(), fsopen(), fspick(), move_mount(), open_tree()
Michael Kerrisk [(), Michael(), Kerrisk(),]
Add new syscalls in 5.1
Add io_uring_enter(), io_uring_register(), io_uring_setup(), and
pidfd_send_signal().
Michael Kerrisk
Add clone3() and pidfd_open()

uname.2
Michael Kerrisk
Replace reference to namespaces(7)
with reference to uts_namespaces(7)

errno.3
Rasmus Villemoes
Add some comments on EAGAIN/EWOULDBLOCK and EDEADLK/EDEADLOCK

fexecve.3
Michael Kerrisk [Simone Piccardi]
ENOSYS occurs only if the kernel provides no execveat() syscall
Michael Kerrisk [Simone Piccardi]
ERRORS: add ENOENT

getauxval.3
Raphael Moreira Zinsly
Add new cache geometry entries

printf.3
Vincent Lefevre
Add detail on the first digit with the %e format

pthread_setcancelstate.3
pthreads.7
signal-safety.7
  Carlos O'Donell
    Describe issues with cancellation points in signal handlers

strtok.3
  Michael Kerrisk [eponymous alias]
    Correct description of use of 'saveptr' argument in strtok_r()
  Michael Kerrisk [eponymous alias]
    The caller should not modify 'saveptr' between strtok_r() calls
  Michael Kerrisk
    Add portability note for strtok_r() '*saveptr' value
      On some implementations, '*saveptr' must be
 NULL on first call
      to strtok_r().

smartpqi.4
  Murthy Bhat [Don Brace, Kevin Barnett, Matt Perricone, Scott Benesh]
    Add sysfs entries
  Gilbert Wu [Don Brace, Kevin Barnett, Matt Perricone, Scott Benesh]
    Add module param expose ld first
  Dave Carroll [Don Brace, Kevin Barnett, Matt Perricone, Scott Benesh]
    Add module param to hide vsep

core.5
  Paul Wise
    Explain the new situation with argument splitting
      Things changed in Linux v5.3-rc3 commit 315c69261dd3 from
      splitting after template expansion to splitting beforehand.

resolv.conf.5
  Nikola Forró
    Update information about search list
      Since glibc 2.26, the number of domains in the search list is
      no longer limited.

man-pages.7
  Michael Kerrisk
    Relocate and enhance the text on semantic newlines
  Michael Kerrisk [Paul Wise]
    Paragraphs should not be separated by blank lines

mount_namespaces.7
  Michael
 Kerrisk
    Explain how a namespace's mount point list is initialized

Provide a more detailed explanation of the initialization of
the mount point list in a new mount namespace.
Michael Kerrisk [Eric W. Biederman]
Clarify description of "less privileged" mount namespaces
Michael Kerrisk
SEE ALSO: refer to example in pivot_root(2)
Michael Kerrisk [Eric W. Biederman]
It may be desirable to disable propagation after creating a namespace
After creating a new mount namespace, it may be desirable to
disable mount propagation. Give the reader a more explicit
hint about this.

mq_overview.7
sysvipc.7
Michael Kerrisk
Adjust references to namespaces(7) to ipc_namespaces(7)

namespaces.7
Michael Kerrisk
Remove content migrated to new ipc_namespaces(7) page
Michael Kerrisk
Remove content migrated to uts_namespaces(7)
Michael Kerrisk
Include manual
page references in the summary table of namespace types
Make the page more compact by removing the stub subsections that
list the manual pages for the namespace types. And while we're
here, add an explanation of the table columns.

operator.7
Michael Kerrisk [Rick Stanley]
Prefix and postfix ++/-- have different precedences
Harbison and Steele also agree on this.

signal.7
Michael Kerrisk
Enhance the text on process-directed and thread-directed signals
clone(2) has a good description of these concepts; borrow
from it liberally.
Michael Kerrisk
SEE ALSO: add pidfd_send_signal(2)

user_namespaces.7
Michael Kerrisk
Improve explanation of meaning of ownership of nonuser namespaces

========== Changes in man-pages-5.04 ==========

Released: 2019-11-19, Munich

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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

clone.2
  Michael Kerrisk [Christian Brauner, Jakub Wilk]
    Document clone3()

wait.2
  Michael Kerrisk
    Add P_PIDFD for waiting on a child referred to by a PID file descriptor

bpf-helpers.7
   Michael Kerrisk
    Refresh against kernel v5.4-rc7

New and changed links

---

clone3.2
  Michael Kerrisk
    New link to clone(2)

Changes to individual pages
---

clone.2
  Michael Kerrisk
    Rename arguments for consistency with clone3()
      Make the names of the clone() arguments the same as the fields
      in the clone3() 'args' struct:

        ctid   ==> child_pid
        ptid   ==> parent_tid
        newtls   ==> tld
        child_stack ==> stack
  Michael Kerrisk
    Consistently order paragraphs for CLONE_NEW* flags
      Sometimes the descriptions of these flags mentioned the
      corresponding section 7 namespace manual page and then the
      required capabilities, and sometimes the order was the was
      the reverse. Make it consistent.
  Michael Kerrisk [Christian Brauner, Jann Horn]
    EXAMPLE: Allocate child's
 stack using mmap(2) rather than malloc(3)
      Christian Brauner suggested mmap(MAP_STACK), rather than
      malloc(), as the canonical way of allocating a stack for the
      child of clone(), and Jann Horn noted some reasons why
      (MAP_STACK exists elsewhere, and mmap() returns a page-aligned
      block of memory, which is useful if we want to set up a guard
      page at the end of the stack).
  Michael Kerrisk [Christian Brauner]
    Tidy up the description of CLONE_DETACHED
      The obsolete CLONE_DETACHED flag has never been properly
      documented, but now the discussion CLONE_PIDFD also requires
      mention of CLONE_DETACHED. So, properly document CLONE_DETACHED,
      and mention its interactions with CLONE_PIDFD.
  Michael Kerrisk [Christian Brauner]
    Give the introductory paragraph a new coat of paint
      Change the text in the introductory paragraph (which was written

    20 years ago) to reflect the fact that clone*() does more things
      nowadays.
  Michael Kerrisk

Remove wording that suggests CLONE_NEW* flags are for containers
These flags are used for implementing many other interesting
things by now.
Michael Kerrisk
Remove various details that are already covered in namespaces pages
Remove details of UTS, IPC, and network namespaces that are
already covered in the corresponding namespaces pages in section 7.

clone.2
proc.5
Michael Kerrisk
Adjust references to namespaces(7)
Adjust references to namespaces(7) to be references to pages
describing specific namespace types.

fallocate.2
Andrew Price
Add gfs2 to the list of punch hole-capable filesystems

ioctl_iflags.2
Michael Kerrisk [Robert Edmonds]
Emphasize that FS_IOC_GETFLAGS and FS_IOC_SETFLAGS argument is 'int *'

ioctl_list.2
Michael Kerrisk

Add reference to ioctl(2) SEE ALSO section
The referenced section lists various pages that document ioctls.

mmap.2
Michael Kerrisk
Note that MAP_STACK exists on some other systems
Michael Kerrisk
Some rewording of the description of MAP_STACK
Reword a little to allow for the fact that there are now
two reasons to consider using this flag.

pidfd_open.2
Michael Kerrisk
Note the waitid() use case for PID file descriptors
Michael Kerrisk
Add a subsection header "Use cases for PID file descriptors"
Michael Kerrisk
Make it a little more explicit the CLONE_PIDFD returns a PID FD

pivot_root.2
Michael Kerrisk
EXAMPLE: allocate stack using mmap() MAP_STACK rather than malloc()

quotactl.2
  Yang Xu [Jan Kara]
    Add some details about Q_QUOTAON

seccomp.2
cgroups.7
  Michael Kerrisk
    Switch to "considerate language"

select.2
  Michael Kerrisk
    POLLIN_SET/POLLOUT_SET/POLLEX_SET
 are now defined in terms of EPOLL*
      Since kernel commit a9a08845e9acbd224e4ee466f5c1275ed50054e8, the
      equivalence between select() and poll()/epoll is defined in terms
      of the EPOLL* constants, rather than the POLL* constants.

wait.2
  Michael Kerrisk
    waitid() can be used to wait on children in same process group as caller
      Since Linux 5.4, idtype == P_PGID && id == 0 can be used to wait
      on children in same process group as caller.
  Michael Kerrisk
    Clarify semantics of waitpid(0, ...)
      As noted in kernel commit 821cc7b0b205c0df64cce59aacc330af251fa8f7,
      threads create an ambiguity: what if the calling process's PGID
      is changed by another thread while waitpid(0, ...) is blocked?
      So, clarify that waitpid(0, ...) means wait for children whose
      PGID matches the caller's PGID at the time of the call to
      waitpid().

getauxval.3
   Michael Kerrisk [Witold Baryluk]
    Clarify that AT_BASE_PLATFORM and AT_EXECFN return pointers to strings
      See https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=942207

resolv.conf.5
  Florian Weimer
    Attempt clarify domain/search interaction
      The domain directive is historic at this point; it should not
      be used.

netdevice.7
  Michael Kerrisk [Silviu Popescu]
    Small wording fix in description of SIOCGIFCONF
      SIOCGIFCONF returns "network layer" addresses (not "transport
      layer").

uts_namespaces.7
  Michael Kerrisk
    Add a little more detail on scope of UTS namespaces

========== Changes in man-pages-5.05 ==========

Released: 2020-02-09, Munich

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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

clone.2
  Adrian Reber [Christian Brauner, Michael Kerrisk]
    Add clone3() set_tid information
  Michael Kerrisk
    Document CLONE_CLEAR_SIGHAND

fcntl.2
  Joel Fernandes [Michael Kerrisk]
    Update manpage with new memfd F_SEAL_FUTURE_WRITE seal

memfd_create.2
  Joel Fernandes
    Update manpage with new memfd F_SEAL_FUTURE_WRITE seal

loop.4
   Yang Xu
    Document LOOP_SET_BLOCK_SIZE
  Yang Xu
    Document LOOP_SET_DIRECT_IO

proc.5
  Michael Kerrisk
    Document /proc/sys/vm/unprivileged_userfaultfd

Changes to individual pages
---

capget.2
  Michael Kerrisk [Yang Xu]
    Add missing details in EPERM error for setting inheritable capabilities

clone.2
  Michael Kerrisk
    Note that CLONE_THREAD causes similar behavior to CLONE_PARENT
      The introductory paragraphs note that "the calling process" is
      normally synonymous with the "the parent process", except in the
      case of CLONE_PARENT. The same is also true of CLONE_THREAD.
  Christian Brauner [Michael Kerrisk]
    Mention that CLONE_PARENT is off-limits for inits
  Michael Kerrisk [Colin Ian King]
    Add old EINVAL error for AArch64
  Michael Kerrisk
    ERRORS: add EINVAL for use of CLONE_PARENT by an init process

futex.2
  Ponnuvel Palaniyappan
    Fix
 a bug in the example

listen.2
  Michael Kerrisk [Peter Gajdos]
    The 'somaxconn' default value has increased to 4096

modify_ldt.2
set_thread_area.2
  Andy Lutomirski [Markus T Metzger]
    Fix type of base_addr

move_pages.2
  John Hubbard [Michal Hocko]
    Remove ENOENT from the list of possible return values

open.2
  Adam Borowski
    No need for /proc to make an O_TMPFILE file permanent
      In the example snippet, we already have the fd, thus there's no
      need to refer to the file by name. And, /proc/ might be not
      mounted or not accessible.
  Michael Kerrisk [Joseph C. Sible]
    In O_TMPFILE example, describe alternative linkat() call
      This was already shown in an earlier version of the page,
      but Adam Borowski's patch replaced it with an alternative.
      Probably, it is better to show both possibilities.

perf_event_open.2
  Daniel Colascione
    Mention EINTR for perf_event_open

ptrace.2
  Denys Vlasenko
    PTRACE_EVENT_STOP does not always report SIGTRAP

quotactl.2
  Michael Kerrisk
    Don't show numeric values of Q_XQUOTAON XFS_QUOTA_?DQ_* flags
      The programmer should not need to care about the numeric values,
      and their inclusion is verbosity.
  Yang Xu [Michael Kerrisk]
    Add EINVAL error of Q_XQUOTARM operation

stime.2
  Michael Kerrisk
    Note that stime() is deprecated

syscall.2
  Petr Vorel [Cyril Hrubis]
    Update feature test macro requirements

sysctl.2
  Michael Kerrisk
    This system call was removed in Linux 5.5; adjust the page accordingly

userfaultfd.2
  Yang Xu [Michael Kerrisk]
    Add EPERM error

cmsg.3
  Rich Felker
    Clarify alignment issues and correct method of accessing CMSG_DATA()
      From an email by Rich Felker:

      It came to my attention while reviewing possible breakage with
      move to 64-bit time_t that some applications
 are dereferencing
      data in socket control messages (particularly SCM_TIMESTAMP*)
      in-place as the message type, rather than memcpy'ing it to
      appropriate storage. This necessarily does not work and is not
      supportable if the message contains data with greater alignment
      requirement than the header. In particular, on 32-bit archs,
      cmsghdr has size 12 and alignment 4, but struct timeval and
      timespec may have alignment requirement 8.
  Michael Kerrisk [Rich Felker]

Modify CMSG_DATA() example to use memcpy()
See previous patch to this page for rationale

exit.3
Benjamin Peterson [Mike Frysinger]
Use hex for the status mask

ftime.3
Michael Kerrisk
Note that this function is deprecated

getpt.3
Samuel Thibault
Remove mention of O_NOCTTY
The glibc implementation of getpt has actually never been setting

malloc.3
Vegard Nossum

Clarify realloc() return value
Petr Vorel
Remove duplicate _GNU_SOURCE

console_codes.4
Adam Borowski
Document \e[90m to 97, 100 to 107
Adam Borowski
\e[21m is now underline
Since 65d9982d7e523a1a8e7c9af012da0d166f72fc56 (4.17), it follows
xterm rather than common sense and consistency, being the only
command 1..9 where N+20 doesn't undo what N did. As libvte
0.51.90 got changed the same way, this behaviour will probably
stay.
Adam Borowski
Update \e[38m and \e[48m
Supported since cec5b2a97a11ade56a701e83044d0a2a984c67b4 (3.16).

cgroups.7
Michael Kerrisk
The v2 freezer controller was added in Linux 5.2
Michael Kerrisk
Split discussion of cgroups.events file and v2 release notification
In preparation for adding a description of the "frozen" key.
Michael Kerrisk
Describe the cgroup.events "frozen" key
Michael Kerrisk
Improve the discussion of the advantages of v2 release notification

inotify.7
  Nick Shipp
    Merge late perror() into fprintf() in example code

netlink.7
  Antonin Décimo
    Fix alignment issue in example

packet.7
  kevin sztern [Michael Kerrisk]
    Add missing tpacket_auxdata field (tp_vlan_tpid)

rtnetlink.7
  Antonin Décimo
    ifa_index is an unsigned int

tcp.7
  Michael Kerrisk
    tcp_low_latency is ignored since Linux 4.14

unix.7
  Michael Kerrisk
    The PID sent with SCM_CREDENTIALS must match an existing process

vsock.7
  Mikhail Golubev [Michael Kerrisk]
    Add missing structure element
      The structure 'struct sockaddr_vm' has additional element
      'unsigned char svm_zero[]' since version v3.9-rc1.

ldconfig.8
  DJ Delorie
    Document file filter and symlink pattern expectations

========== Changes in man-pages-5.06 ==========

Released: 2020-04-11, Munich

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The
 following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages
---

openat2.2

Aleksa Sarai [Michael Kerrisk]
Document new openat2(2) syscall

pidfd_getfd.2
Michael Kerrisk [Christian Brauner]
New manual page documenting the pidfd_getfd() system call

select.2
Michael Kerrisk
Rewrite DESCRIPTION
Improve structure and readability, at the same time incorporating
text and details that were formerly in select_tut(2). Also
move a few details in other parts of the page into DESCRIPTION.
Michael Kerrisk
Consolidate the discussion of pselect into a headed subsection
Michael Kerrisk
Consolidate historical glibc pselect() details under one subhead
Michael Kerrisk
Consolidate info on usleep() emulation in one place
Michael Kerrisk
Place the discussion of the self-pipe technique in a headed subsection
Michael Kerrisk
Note that FD_SET() and FD_CLR() do not return errors
Michael Kerrisk
Remove details of historical #include requirements
The POSIX situation has been the norm for a long time now,
and including ancient details overcomplicates the page.
Michael Kerrisk
Remove some ancient information about pre-POSIX types for 'timeout'

select_tut.2
Michael Kerrisk
Eliminate duplication of info across select_tut.2 and select2
There was a lot of a duplication of info in SYNOPSIS, DESCRIPTION
RETURN VALUE, and SEE ALSO. Move all of the info to one place:
the select(2) page.

sysvipc.7
Michael Kerrisk
Rewrite this page as just a summary of the System V IPC APIs
All of the other details in this page have by now been moved into
the relevant *ctl(2) pages.

time_namespaces.7
Michael Kerrisk [Andrei Vagin, Dmitry Safonov, Thomas Gleixner]
New page documenting time namespaces

Newly documented interfaces in existing pages
---

arch_prctl.2
  Keno Fischer
    Add ARCH_SET_CPUID subcommand

clock_getres.2
  Benjamin Peterson
    Document CLOCK_TAI
  Michael Kerrisk
    Add CLOCK_REALTIME_ALARM and CLOCK_BOOTTIME_ALARM

prctl.2
  Mike Christie [Michal Hocko, Michael Kerrisk, Bart Van
 Assche]
    Document PR_SETIO_FLUSHER/GET_IO_FLUSHER

setns.2
  Michael Kerrisk
    Document CLONE_NEWTIME

statx.2
  Eric Biggers
    Document STATX_ATTR_VERITY

unshare.2
  Michael Kerrisk
    Document CLONE_NEWTIME

socket.7
  Ricardo Biehl Pasquali, Michael Kerrisk
    Add description of SO_SELECT_ERR_QUEUE
  Alejandro Colomar [Michael Kerrisk]
    Document SO_TIMESTAMPNS

Global changes

Various pages
  Michael Kerrisk
    Remove a few mentions of the ancient "Linux libc"

Various pages
  Michael Kerrisk
    Global formatting fix: disfavor nonstandard .TP indents
      In many cases, these don't improve readability, and (when stacked)

they sometimes have the side effect of sometimes forcing text
to be justified within a narrow column range.

Various pages
Michael Kerrisk [Christian Brauner]
Fix clumsy wording around "nonnegative file descriptors"

Changes to individual pages
---

clock_getres.2
Helge Deller [Michael Kerrisk]
Consecutive calls for CLOCK_MONOTONIC may return same value
Consecutive calls to clock_gettime(CLOCK_MONOTONIC) are guaranteed
to return MONOTONIC values, which means that they either return
the *SAME* time value like the last call, or a later (higher) time
value.
Eric Rannaud
Dynamic POSIX clock devices can return other errors
Michael Kerrisk
Improve description of CPU-time clocks
Michael Kerrisk
Add an example program
Michael Kerrisk
CLOCK_REALTIME_COARSE is not settable
Michael Kerrisk
Note that CPU-time clocks are not settable.
Explicitly note that CLOCK_PROCESS_CPUTIME_ID and
CLOCK_PROCESS_CPUTIME_ID are not settable.
Michael Kerrisk
Clarify that CLOCK_TAI is nonsettable
Michael Kerrisk
Clarify that CLOCK_MONOTONIC is system-wide
Michael
Kerrisk
ERRORS: add EINVAL for attempt to set a nonsettable clock
Michael Kerrisk
Move text in BUGS to NOTES
The fact that CLOCK_PROCESS_CPUTIME_ID and
CLOCK_PROCESS_CPUTIME_ID are not settable isn't a bug,
since POSIX does allow the possibility that these clocks
are not settable.
Michael Kerrisk
SEE ALSO: add time_namespaces(7)

clock_nanosleep.2
Michael Kerrisk

clock_nanosleep() can also sleep against CLOCK_TAI
Michael Kerrisk
clock_nanosleep() also supports CLOCK_BOOTTIME
Presumably (and from a quick glance at the source code)
since Linux 2.6.39, when CLOCK_BOOTTIME was introduced.

clock_nanosleep.2
timer_create.2
timerfd_create.2
Michael Kerrisk
Add various missing errors
Mostly verified by testing and reading the code.

There is unfortunately quite a bit of inconsistency across API~s:

clock_gettime clock_settime clock_nanosleep timer_create timerfd_create

CLOCK_BOOTTIME y n (EINVAL) y y y
CLOCK_BOOTTIME_ALARM y n (EINVAL) y [1] y [1] y [1]
CLOCK_MONOTONIC y n (EINVAL) y y y
CLOCK_MONOTONIC_COARSE y n (EINVAL) n (ENOTSUP) n (ENOTSUP) n (EINVAL)
CLOCK_MONOTONIC_RAW y n (EINVAL) n (ENOTSUP) n (ENOTSUP) n (EINVAL)
CLOCK_REALTIME y y y y y
CLOCK_REALTIME_ALARM y n (EINVAL) y [1] y [1] y [1]
CLOCK_REALTIME_COARSE y n (EINVAL) n (ENOTSUP) n (ENOTSUP) n (EINVAL)
CLOCK_TAI y n (EINVAL) y y n (EINVAL)
CLOCK_PROCESS_CPUTIME_ID
y n (EINVAL) y y n (EINVAL)
CLOCK_THREAD_CPUTIME_ID y n (EINVAL) n (EINVAL [2]) y n (EINVAL)
pthread_getcpuclockid() y n (EINVAL) y y n (EINVAL)

[1] The caller must have CAP_WAKE_ALARM, or the error EPERM results.

[2] This error is generated in the glibc wrapper.

connect.2
Michael Kerrisk [Eric Dumazet]
Update the details on AF_UNSPEC
Update the details on AF_UNSPEC and circumstances in which
socket can be reconnected.

dup.2
Michael Kerrisk
SEE ALSO: add pidfd_getfd(2)

epoll_ctl.2
Michael Kerrisk

Various minor additions and clarifications

epoll_wait.2
Michael Kerrisk
A few minor additions and rewrites

execve.2
Michael Kerrisk
Add a subhead for the discussion of effect on process attributes
Michael Kerrisk
Explicitly note
that argv[argc] == NULL in the new program
Michael Kerrisk
ERRORS: ENOENT does not occur for missing shared libraries
See http://sourceware.org/bugzilla/show_bug.cgi?id=12241.

_exit.2
Michael Kerrisk
Clarify that raw _exit() system call terminates only the calling thread

inotify_add_watch.2
Michael Kerrisk
EXAMPLE: add reference to example in inotify(7)

io_submit.2
Julia Suvorova
Add IOCB_CMD_POLL opcode

lseek.2
Michael Kerrisk [Matthew Wilcox]
ERRORS: ENXIO can also occur SEEK_DATA in middle of hole at end of file

madvise.2
Michael Kerrisk [Andrea Arcangeli]
Incorporate some (ancient) comments about MADV_HUGEPAGE
Back in 2011, a mail from Andrea Arcangeli noted some details
that I never got round to incorporating into the manual page.

mmap.2
Michael Kerrisk
Add a subhead for the 'flags' argument
Michael Kerrisk
Move some text hidden at the end of
DESCRIPTION to NOTES

msgctl.2
Michael Kerrisk
Add information on permission bits (based on sysvipc(7) text)

Michael Kerrisk
Copy information on 'msqid_ds' fields from sysvipc(7)

open.2
Michael Kerrisk
Clarify that O_NOFOLLOW is relevant (only) for basename of 'pathname'
Aleksa Sarai
Add references to new openat2(2) page
Michael Kerrisk
Note EINVAL error for invalid character in basename of 'pathname'

pidfd_open.2
Michael Kerrisk
Mention pidfd_getfd(2)

poll.2
Michael Kerrisk
Add an example program
Michael Kerrisk
Mention epoll(7) in the introductory paragraph
Michael Kerrisk
Improve description of EFAULT error
Michael Kerrisk
Fix description of ENOMEM error

select_tut.2
Michael Kerrisk
Adjust header file includes in example
Employ <sys/select.h>, rather than the historical header files.

semctl.2
Michael Kerrisk
Copy information
on 'semid_ds' fields from sysvipc(7)
Michael Kerrisk
Add a reference to the example in shmop(2)
Michael Kerrisk
Add information on permission bits (based on sysvipc(7) text)

semget.2
Michael Kerrisk
EXAMPLE: add an example program

semop.2
Michael Kerrisk
Add a reference to the semop(2) example in shmop(2)

shmctl.2

Michael Kerrisk
Add information on permission bits (based on sysvipc(7) text)
Michael Kerrisk
Note that execute permission is not needed for shmat() SHM_EXEC
Michael Kerrisk
Copy information on 'shmid_ds' fields from sysvipc(7)
Michael Kerrisk
Some small improvements to the description of the 'shmid_ds' structure

shmget.2
Michael Kerrisk
Add a reference to the example in shmop(2)

shmop.2
Michael Kerrisk
EXAMPLE: add a pair of example programs
Add example programs demonstrating usage of shmget(2), shmat(2),
semget(2), semctl(2),
and semop(2).

sigaction.2
signal.7
Zack Weinberg
Document kernel bugs in delivery of signals from CPU exceptions

stat.2
Michael Kerrisk
Clarify definitions of timestamp fields
In particular, make it clear that atime and mtime relate to the
file *data*.

syscalls.2
Michael Kerrisk
Add new Linux 5.6 system calls
Michael Kerrisk
Note that the 5.x series followed 4.20

timer_create.2
Michael Kerrisk
timer_create(2) also supports CLOCK_TAI
Michael Kerrisk
Mention clock_getres(2) for further details on the various clocks

timerfd_create.2
Michael Kerrisk [Thomas Gleixner]
Note a case where timerfd_settime() can fail with ECANCELED
Michael Kerrisk [devi R.K, Thomas Gleixner]
Negative changes to CLOCK_REALTIME may cause read() to return 0

Michael Kerrisk
Rework text for EINVAL for invalid clock ID
Michael Kerrisk
Refer reader to clock_getres(2) for
further details on the clocks

unshare.2
Michael Kerrisk
Add CLONE_NEWCGROUP and CLONE_NEWTIME to example program

exit.3
Michael Kerrisk [Walter Harms]
Small improvement to the discussion of 'status' argument

ftok.3
Michael Kerrisk
EXAMPLE: add a reference to the example in semget(2)

getifaddrs.3
Michael Kerrisk [Michael Galassi]
EXAMPLE: remove unneeded loop variable

nl_langinfo.3
Eugene Syromyatnikov
Document era-related locale elements
Eugene Syromyatnikov
Add information about AM/PM time format locale elements
Eugene Syromyatnikov
Mention the respective strftime(3) conversion specifications

sem_init.3
Michael Kerrisk
Add references to example code in shm_open(3) and sem_wait(3)

sem_post.3
Michael Kerrisk
Add a reference to code example code in shm_open(3)

shm_open.3
Michael Kerrisk
EXAMPLE: add some example programs

strcmp.3
Michael Kerrisk

Add an example program
Michael Kerrisk [Andrew Micallef, Walter Harms]
Rework text describing return value to be clearer

Michael Kerrisk
Note that the comparison is done using unsigned char
Michael Kerrisk
SEE ALSO: add ascii(7)

strftime.3
Eugene Syromyatnikov [Michael Kerrisk]
Refer to the relevant nl_langinfo(3) items
Eugene Syromyatnikov
Expand %E and %O description
Eugene Syromyatnikov
Consistently document fall-back format string

proc.5
Mike Frysinger
Clarify /proc/[pid]/cmdline mutability

cgroups.7
Michael Kerrisk
Update list of cgroups v2 controllers
Update the list of cgroups v2 controllers (several controllers were missing).
Michael Kerrisk
Add a subsection on cgroup v2 mount options and include 'nsdelegate'
Michael Kerrisk
Document the cgroups v2 'memory_localevents' mount option
Michael Kerrisk
SEE ALSO: add Documentation/admin-guide/cgroup-v2.rst

namespaces.7
Michael Kerrisk
Add time namespaces information
Michael Kerrisk
Eliminate some superfluous info from display of /proc/PID/ns links

path_resolution.7
Aleksa Sarai
Update to mention openat2(2) features

socket.7
Michael Kerrisk
Note SCM message types for SO_TIMESTAMP and SO_TIMESTAMPNS

tcp.7
Michael Kerrisk
SEE ALSO: mention Documentation/networking/ip-sysctl.txt

time.7

Michael Kerrisk
Add small subsection on clocks and time namespaces

unix.7
Heinrich Schuchardt
Correct example

vsock.7
Stefano Garzarella [Jorgen Hansen, Stefan Hajnoczi]
Add VMADDR_CID_LOCAL description

========== Changes in man-pages-5.07 ==========

Released: 2020-06-09, Munich

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Apologies if I missed anyone!

New and rewritten pages
---

ioctl_fslabel.2
  Eric Sandeen
    New page documenting filesystem get/set label ioctl(2) operations

Removed pages
---

ioctl_list.2
  Michael Kerrisk [Heinrich Schuchardt, Eugene Syromyatnikov]
    This page was first added more than 20 years ago. Since
    that time it has seen hardly any update, and is by now
    very much out of date, as reported by Heinrich Schuchardt
    and confirmed by Eugene Syromyatnikov.

    As Heinrich says:

      Man-pages like netdevices.7 or ioctl_fat.2 are what is
      needed to help a user who does not want to read through the
      kernel code.

      If ioctl_list.2 has not been reasonably maintained since
      Linux 1.3.27 and hence is not a reliable source of
      information, shouldn't it be dropped?

    My answer is, yes (but

let's move a little info into ioctl(2)).

Newly documented interfaces in existing pages
---

adjtimex.2
  Arnd Bergmann [Richard Cochran, Michael Kerrisk]
    Document clock_adjtime(2)

clock_getres.2
  Richard Cochran [Michael Kerrisk]
    Explain dynamic clocks

clone.2
  Christian Brauner, Michael Kerrisk
    Document the clone3() CLONE_INTO_CGROUP flag

mremap.2
  Brian Geffon, Michael Kerrisk [Lokesh Gidra]
    Document MREMAP_DONTUNMAP

open.2
  Joseph C. Sible [Michael Kerrisk]
    Document fs.protected_fifos and fs.protected_regular

prctl.2
  Dave Martin
    Add PR_SPEC_INDIRECT_BRANCH for SPECULATION_CTRL prctls
  Dave Martin
    Add PR_SPEC_DISABLE_NOEXEC for SPECULATION_CTRL prctls
  Dave Martin
    Add PR_PAC_RESET_KEYS (arm64)

ptrace.2
  Joseph C. Sible
    Document PTRACE_SET_SYSCALL

proc.5
  Michael Kerrisk
    Document /proc/sys/fs/protected_regular
  Michael
 Kerrisk
    Document /proc/sys/fs/protected_fifos
  Michael Kerrisk
    Document /proc/sys/fs/aio-max-nr and /proc/sys/fs/aio-nr

New and changed links

---

clock_adjtime.2
  Arnd Bergmann
    New link to adjtimex(2)

Global changes

Various pages
  Michael Kerrisk
    Retitle EXAMPLE section heading to EXAMPLES
      EXAMPLES appears to be the wider majority usage across various
      projects' manual pages, and is also what is used in the POSIX
      manual pages.

Various pages
  Michael Kerrisk
    Correct bogus POSIX.1 standards names
      POSIX.1-2003 ==> POSIX.1-2001 TC1
      POSIX.1-2004 ==> POSIX.1-2001 TC2
      POSIX.1-2013 ==> POSIX.1-2008 TC1
      POSIX.1-2016 ==> POSIX.1-2008 TC2

Various pages
  Michael Kerrisk
    Add section number in page cross-reference.

Various pages
  Kir Kolyshkin
    Add missing commas in SEE ALSO

Various pages
  Michael Kerrisk
     Remove AVAILABILITY section heading
      In the few pages where this heading (which is "nonstandard" within
      man-pages) is used, it always immediately follows CONFORMING TO
      and generally contains information related to standards. Remove
      the section heading, thus incorporating AVAILABILITY into
      CONFORMING TO.

Various pages
  Michael Kerrisk
    Remove section number in page self-references

Various pages
  Michael Kerrisk

Put SEE ALSO entries in alphabetical order

Various pages
  Michael Kerrisk
    Place SH sections in standard order
      Fix various pages that deviated from the norm described in
      man-pages(7).

Various "aio" pages
  Michael Kerrisk [Andi Kleen, Jeff Moyer]
    Change uses of aio_context_t to io_context_t

Changes to individual pages
---

bpf.2
  Peter Wu
    Update enum bpf_map_type and enum bpf_prog_type
  Richard Palethorpe
     Change note on unprivileged access
       The kernel now allows calls to bpf() without CAP_SYS_ADMIN
       under some circumstances.

clone.2
  Michael Kerrisk
    Add kernel version numbers for clone_args fields
  Michael Kerrisk
    Combine separate NOTES sections

close.2
  Michael Kerrisk [Lukas Czerner, Peter Schiffer, Thierry Lelegard]
    Note behavior when close() happens in a parallel thread
      If one thread is blocked in an I/O system call on a file descriptor
      that is closed in another thread, then the blocking system call
      does not return immediately, but rather when the I/O operation
      completes. This surprises some people, but is longstanding
      behavior.

connect.2
  Stefan Puiu
    Can return EACCES because of SELinux

execve.2
  Michael Kerrisk [Eric Hopper]
    Changes to the "dumpable" flag may change ownership of /proc/PID files
  Michael Kerrisk
    Improve/correct

discussion of changes to dumpable flag during execve(2)
The details were not quite accurate. Defer to prctl(2)
for the more complete picture.
Nikola Forró
Clarify signal sent to the process on late failure
Michael Kerrisk
SEE ALSO: add capabilities(7)

fanotify_init.2
Amir Goldstein [Matthew Bobrowski]
Move out of place entry FAN_REPORT_FID
It was inserted in the middle of the FAN_CLASS_ multi flags bit
and broke the multi flag documentation.
Michael Kerrisk [Alexander Morozov, Amir Goldstein, Jan Kara]
Remove mention of FAN_Q_OVERFLOW as an input value in 'mask'
See https://bugzilla.kernel.org/show_bug.cgi?id=198569.
Amir Goldstein [Jan Kara, Matthew Bobrowski]
Clarification about FAN_EVENT_ON_CHILD and new events
Amir Goldstein [Jan Kara, Matthew Bobrowski]
Clarification about FAN_MARK_MOUNT and FAN_REPORT_FID

getdents.2
Petr Vorel [Michael
Kerrisk]
Mention glibc support for getdents64()
Support was added in glibc 2.30.
Chris Lamb
Correct linux_dirent definition in example code
It is "unsigned long" earlier up in the file

gettid.2
Michael Kerrisk [Joseph C. Sible]
Document header file and feature test macro requirements for gettid()

ioctl.2
Michael Kerrisk
SEE ALSO: add ioctl_fslabel(2)
Michael Kerrisk
Remove mentions of ioctl_list(2)
Michael Kerrisk
Move subsection on "ioctl structure" from ioctl_list(2) to ioctl(2)

io_setup.2
Michael Kerrisk
Tweak description of /proc/sys/fs/aio-max-nr

mbind.2
Li Xinhai [Michael Kerrisk]

Remove note about MPOL_MF_STRICT been ignored

mmap.2
Michael Kerrisk [Heinrich Schuchardt]
Don't mark MAP_ANON as deprecated

move_pages.2
Yang Shi [Michal Hocko]
Returning positive value is a new error case

mremap.2
Michael Kerrisk
Remove
mention of "Segmentation fault" in EFAULT text
"Segmentation fault" (SIGSEGV) is not exactly the same thing as
EFAULT.
Michael Kerrisk
Reorder some paragraphs in NOTES
Michael Kerrisk
Move a paragraph from DESCRIPTION to NOTES

msgctl.2
Michael Kerrisk
Correct description of 'msg_ctime' field
Verified by inspecting kernel source.

nfsservctl.2
Michael Kerrisk
SEE ALSO: add nfsd(7)

open.2
Michael Kerrisk
Some '*at' APIs have functionality that isn't in conventional APIs
Note that another reason to use the *at() APIs is to access
'flags' functionality that is not available in the corresponding
conventional APIs.
Michael Kerrisk
Add a few more APIs to list in "Rationale for openat()..."
There have been a few more dirfd APIs added in recent times.
Michael Kerrisk
Explain ways in which a 'directory file descriptor' can be
obtained
Michael Kerrisk
Add openat2() to list of APIs that take a 'dirfd' argument

openat2.2
Michael Kerrisk [Aleksa Sarai]
Various changes after feedback from Aleksa Sarai

poll.2
  Michael Kerrisk
    Add license to example program

prctl.2
  Dave Martin
    Sort prctls into alphabetical order
  Dave Martin
    Clarify that prctl can apply to threads
      The current synopsis for prctl(2) misleadingly claims that prctl
      operates on a process. Rather, some (in fact, most) prctls operate
  Dave Martin [Dave Hansen]
    Document removal of Intel MPX prctls
  Dave Martin
    Fix mis-description of thread ID values in procfs
  Dave Martin
    Work around bogus constant "maxsig" in PR_SET_PDEATHSIG
  Michael Kerrisk
    Add reference to proc(5) for /proc/self/task/[tid]/comm
  Dave Martin [Michael Kerrisk]
    Add health warning
  Dave Martin
    Clarify the unsupported hardware case of EINVAL

rename.2
   Michael Kerrisk
    SEE ALSO: add rename(1)

s390_runtime_instr.2
  Heiko Carstens [Eugene Syromyatnikov, Michael Kerrisk]
    Document signum argument behavior change
      Document that the signum argument is ignored in newer kernels, but
      that user space should pass a valid real-time signal number for
      backwards compatibility.

semctl.2
  Michael Kerrisk [Manfred Spraul]
    Correct description of sem_ctime field

semget.2
  Michael Kerrisk
    Add license to example program

shmctl.2
  Michael Kerrisk
    Correct 'shm_ctime' description

shmop.2
  Michael Kerrisk
    Add license to example programs

statfs.2
  Michael Kerrisk [David Adam]
    Add SMB2 constant to filesystem types list

syscall.2
  Dave Martin [Will Deacon]
    arm64: Fix syscall number register size
  Dave Martin [Russell King]
    arm: Use real register names for arm/OABI

sysfs.2
  Michael Kerrisk
    SEE
 ALSO: add proc(5) and sysfs(5)

utimensat.2
  Goldwyn Rodrigues
    Immutable flag returns EPERM
      Linux kernel commit 337684a1746f "fs: return EPERM on immutable
      inode" changed the return value of the utimensat(2) from -EACCES
      to -EPERM in case of an immutable flag.

wait4.2
  Michael Kerrisk
    Update wait3() feature test macro requirements for changes in glibc 2.26

cexp2.3
  Michael Kerrisk
    Still not present in glibc 2.31

cmsg.3
  Michael Kerrisk
    CONFORMING TO: note which CMSG_* APIs are in current and upcoming POSIX

dirfd.3
  Michael Kerrisk
    SEE ALSO: add openat(2)

dlsym.3
  Alexander Monakov
    Extend discussion of NULL symbol values
      Avoid implying that use of IFUNC is the only way to produce a
      symbol with NULL value. Give more scenarios how a symbol may get
      NULL value, but explain that in those scenarios dlsym() will fail

with Glibc's ld.so due
to an implementation inconsistency.

err.3
Michael Kerrisk
EXAMPLES: use EXIT_FAILURE rather than 1 as exit status

expm1.3
Michael Kerrisk
The expm1() bogus underflow floating-point exception has been fixed
See https://www.sourceware.org/bugzilla/show_bug.cgi?id=6778
Michael Kerrisk
The bogus invalid floating-point exception bug has been fixed
https://www.sourceware.org/bugzilla/show_bug.cgi?id=6814.

fdim.3
Michael Kerrisk
BUGS: these functions did not set errno on some architectures
https://www.sourceware.org/bugzilla/show_bug.cgi?id=6796

ftw.3
Michael Kerrisk
glibc eventually fixed a regression in FTW_SLN behavior
For details, see:
https://bugzilla.redhat.com/show_bug.cgi?id=1422736
http://austingroupbugs.net/view.php?id=1121
https://bugzilla.redhat.com/show_bug.cgi?id=1422736

getauxval.3
YunQiang Su
MIPS, AT_BASE_PLATFORM passes
ISA level

getdtablesize.3
Michael Kerrisk
Remove redundant statement that getdtablesize() is a library function

malloc.3
Michael Kerrisk
Add 'reallocarray' in NAME
Michael Kerrisk
Add VERSIONS section noting when reallocarray() was added to glibc

newlocale.3
Michael Kerrisk [Piotr Caban]
Fix a valgrind issue in example program
See https://bugzilla.kernel.org/show_bug.cgi?id=202977.

nextafter.3
  Michael Kerrisk
    Since glibc 2.23, these functions do set errno
      See https://www.sourceware.org/bugzilla/show_bug.cgi?id=6799.

posix_spawn.3
  Olivier Gayot [Adhemerval Zanella]
    Clarify by using name of steps rather than syscalls
  Olivier Gayot [Adhemerval Zanella]
    Document implementation using clone() since glibc 2.24
  Olivier Gayot [Adhemerval Zanella]
    Document POSIX_SPAWN_USEVFORK
      Added a few lines about POSIX_SPAWN_USEVFORK so that it appears

 clearly that since glibc 2.24, the flag has no effect.
  Olivier Gayot [Adhemerval Zanella]
    Document the POSIX_SPAWN_SETSID attribute

pow.3
  Michael Kerrisk
    BUGS: pow() performance problem for some (rare) inputs has been fixed
      See https://sourceware.org/bugzilla/show_bug.cgi?id=13932
  Michael Kerrisk
    Several bugs in glibc's pow() implementation were fixed in glibc 2.16
      See https://www.sourceware.org/bugzilla/show_bug.cgi?id=3866.
  Michael Kerrisk
    Add a subheading to mark off historical bugs that are now fixed

printf.3
  Tobias Stoeckmann
    Prevent signed integer overflow in example

ptsname.3
  Bruno Haible
    Fix description of failure behaviour of ptsname_r()

random.3
  John Marshall
    Change "RAND_MAX" tp "2^31-1"

scalb.3
  Michael Kerrisk
    These functions now correctly set errno for the EDOM and ERANGE cases
      See https://www.sourceware.org/bugzilla/show_bug.cgi?id=6803
       and https://www.sourceware.org/bugzilla/show_bug.cgi?id=6804

scalbln.3
  Michael Kerrisk

These functions now correctly set errno for the ERANGE case
See https://www.sourceware.org/bugzilla/show_bug.cgi?id=6803

scanf.3
Michael Kerrisk [Jürgen Sauermann]
Clarify that 'x' specifier allows a 0x/0X prefix in input string

sem_getvalue.3
Michael Kerrisk [Andrea Galbusera]
Note that glibc's sem_getvalue() doesn't return EINVAL errors
See https://bugzilla.kernel.org/show_bug.cgi?id=204273

setlogmask.3
Michael Kerrisk
Note that LOG_UPTO() is included in the next POSIX release

shm_open.3
Michael Kerrisk
Add license to example programs

sincos.3
Michael Kerrisk
The glibc implementation does now give EDOM for a domain error
See https://www.sourceware.org/bugzilla/show_bug.cgi?id=15467

stdarg.3
Michael Kerrisk
SEE ALSO: add vprintf(3), vscanf(3), vsyslog(3)

strcmp.3
Michael Kerrisk
Add license to example programs

strftime.3
Urs Thuermann
ISO week number can be 52, add example

y0.3
Michael Kerrisk
These functions now correctly diagnose a pole error
https://sourceware.org/bugzilla/show_bug.cgi?id=6807
Michael Kerrisk
errno is now correctly set to ERANGE on underflow
https://www.sourceware.org/bugzilla/show_bug.cgi?id=6808

loop.4
Michael Kerrisk [Vlad]
'lo_flags' is nowadays "r/w"

See https://bugzilla.kernel.org/show_bug.cgi?id=203417

veth.4
  Devin J. Pohly
    Add a more direct example
      iproute2 allows you to specify the netns for either side of a veth
      interface at creation time. Add an example of this to veth(4) so
      it doesn't sound like you have to move the interfaces in a
      separate step.

core.5
  Michael Kerrisk [Jonny Grant]
    Mention 'sysctl -w' as a way of changing core_pattern
 setting
  Michael Kerrisk [Jonny Grant]
    Note that not dumping core of an unreadable binary is a security measure
  Michael Kerrisk [Jonny Grant]
    Explain that core_pattern %e is process/thread 'comm' value
      The 'comm' value is typically the same as the (possibly
      truncated) executable name, but may be something different.

filesystems.5
  Michael Kerrisk
    SEE ALSO: add sysfs(5) and xfs(5)

locale.5
  Michael Kerrisk [Helge Kreutzmann]
    Improve description of 'first_weekday'

proc.5
  Michael Kerrisk
    Note kernel version for /proc/PID/smaps VmFlags "wf" flag
  Michael Kerrisk
    Add "um" and "uw" to VmFlags in /proc/[pid]/smaps
  Michael Kerrisk
    Add "mp" to VmFlags in /proc/[pid]/smaps
  Michael Kerrisk
    Note kernel version that removed /proc/PID/smaps VmFlags "nl" flag
  Ian Rogers
    Add "wf" to VmFlags in /proc/[pid]/smaps
  Michael Kerrisk
    Note kernel version for /proc/PID/smaps
 VmFlags "dd" flag
  Michael Kerrisk
    Add "sf" to VmFlags in /proc/[pid]/smaps
  Michael Kerrisk [Kirill A. Shutemov]
    Remove "mp" under VmFlags in /proc/[pid]/smaps
  Michael Kerrisk [Eric Hopper]

Alert the reader that UID/GID changes can reset the "dumpable" attribute
Keno Fischer
Fix an outdated note about map_files
The restriction to CAP_SYS_ADMIN was removed from map_files in 2015.
Michael Kerrisk [Helge Kreutzmann]
Better explanation of some /proc/ide fields
Michael Kerrisk
TASK_COMM_LEN limit includes the terminating '\0'
Clarify this detail in the discussion of /proc/[pid]/comm.
Michael Kerrisk
Add a detail to /proc/[pid]/comm
Note the connection to the "%e" specifier in
/proc/sys/kernel/core_pattern.

securetty.5
Michael Kerrisk [Helge Kreutzmann]
Improve wording of .SH one-line description

tzfile.5
Michael Kerrisk
Sync
to 2020a tzdb release
From https://www.iana.org/time-zones, version 2020a.
Michael Kerrisk
Explain UT abbreviation

ascii.7
Michael Kerrisk [Helge Kreutzmann]
SEE ALSO: fix sort order in entries

bpf-helpers.7
Michael Kerrisk
Resync against kernel 5.7

cgroups.7
Marcus Gelderie
Mention cgroup.sane_behavior file
The cgroup.sane_behavior file returns the hard-coded value "0" and
is kept for legacy purposes. Mention this in the man-page.
Michael Kerrisk
Note the existence of the clone3() CLONE_INTO_CGROUP flag

credentials.7
Michael Kerrisk
Alert reader that UID/GID changes can affect process capabilities
Michael Kerrisk
Changes to process UIDs/GIDs can effect the "dumpable" attribute
Michael Kerrisk

Add a list of the APIs that change a process's credentials

fanotify.7
  Amir Goldstein [Jan Kara, Matthew Bobrowski]
    Fix fanotify_fid.c example
   Michael Kerrisk
    Wrap some long lines in example program

fanotify.7
fanotify_mark.2
  Amir Goldstein [Matthew Bobrowski]
    Clarify FAN_ONDIR in output mask
      FAN_ONDIR was an input only flag before introducing
      FAN_REPORT_FID. Since the introduction of FAN_REPORT_FID, it can
      also be in output mask.

hier.7
  Thomas Piekarski [Gary Perkins]
    Updating from FHS 2.3 to 3.0
      See https://bugzilla.kernel.org/show_bug.cgi?id=206693

inotify.7
  Michael Kerrisk [Jason Etherton]
    Add missing #include in example program

ip.7
  Michael Kerrisk [Martin Doucha]
    Note a few more valid 'protocol' values
      See https://bugzilla.kernel.org/show_bug.cgi?id=204981
  Michael Kerrisk
    SEE ALSO: add netdevice(7)

man-pages.7
  Michael Kerrisk
    Rename EXAMPLE to EXAMPLES
  Michael Kerrisk
    Describe COPYRIGHT section
      man-pages doesn't use COPYRIGHT sections in manual pages,
but
      various projects do. Make some recommendations about placement
      of the section.
  Michael Kerrisk
    Add REPORTING BUGS section
      man-pages doesn't have a REPORTING BUGS section in manual pages,
      but many other projects do. Make some recommendations about
      placement of that section.
  Michael Kerrisk
    Mention AUTHORS in summary section list

Although man-pages doesn't use AUTHORS sections, many projects do
use an AUTHORS section in their manual pages, so mention it in
man-pages to suggest some guidance on the position at which
to place that section.

mount_namespaces.7
Michael Kerrisk
SEE ALSO: add mount(8), umount(8)

namespaces.7
Michael Kerrisk
Document /proc/sys/user/max_time_namespaces

netlink.7
Michael Kerrisk [Idan Katz]
Update path for NETLINK_CONNECTOR docs in kernel source tree
Michael Kerrisk [Fabien Siron]
Note that NETLINK_SOCK_DIAG is preferred over NETLINK_INET_DIAG

pid_namespaces.7
Michael Kerrisk
Note that /proc/sys/kernel/ns_last_pid is virtualized per PID NS
Michael Kerrisk
Correct capability requirements for write to /proc/sys/kernel/ns_last_pid
CAP_SYS_ADMIN is needed in the user NS that owns the PID NS.

rtnetlink.7
Jan Moskyto Matejka [Michael Kerrisk]
Add missing RTA_* attributes

standards.7
Michael Kerrisk [Geoff Clare]
Add some more standards
Add: SUSv4 2016 edition, POSIX.1-2017, and SUSv4 2018 edition
Michael Kerrisk
Remove mention of bogus "POSIX" names
The terms POSIX.1-{2003,2004,2013,2016} were inventions of
my imagination, as confirmed by consulting Geoff Clare of
The Open Group. Remove these names.

symlink.7
Michael Kerrisk
Describe differences in the treatment of symlinks in the dirname
Describe differences in
the treatment of symlinks in the dirname
part of pathname.

tcp.7

Michael Kerrisk [vrafaeli@msn.com]
Update info on tcp_syn_retries default value
See https://bugzilla.kernel.org/show_bug.cgi?id=202885.

user_namespaces.7
Michael Kerrisk [Léo Stefanesco]
Clarify that "system time" means "calendar time"

xattr.7
Achilles Gaikwad
Add attr(1) as relevant page to SEE ALSO

ldconfig.8
Florian Weimer
Mention new default for --format in glibc 2.32

zdump.8
Michael Kerrisk [Marco Curreli, Paul Eggert]
Update to latest upstream tz release
Look under "Latest version", which is 2020a.

========== Changes in man-pages-5.08 ==========

Released: 2020-08-13, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated in changes in this release:

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Apologies if I missed anyone!

Newly documented interfaces in existing pages
---

prctl.2
  Dave Martin
    Add SVE prctls (arm64)
      Add documentation for the PR_SVE_SET_VL and PR_SVE_GET_VL
      prctls added in Linux 4.15 for arm64.
  Dave Martin [Catalin Marinas]
    Add tagged address ABI control prctls (arm64)
      Add documentation for the PR_SET_TAGGED_ADDR_CTRL and
      PR_GET_TAGGED_ADDR_CTRL prctls added in Linux 5.4 for arm64.

setns.2
  Michael Kerrisk
    Document the use of PID file descriptors with setns()
      Starting with Linux 5.8, setns() can take a PID file descriptor as
      an argument, and move the caller
 into or more of the namespaces of
      the thread referred to by that descriptor.

capabilities.7
  Michael Kerrisk

Document CAP_BPF
Michael Kerrisk
Add CAP_PERFMON

symlink.7
Aleksa Sarai
Document magic links more completely

Global changes

A few pages
Michael Kerrisk
Use \` rather than `
\` produces better rendering in PDF.

Various pages
Michael Kerrisk [Geoff Clare]
Use "\(ti" instead of "~"
A naked tilde ("~") renders poorly in PDF. Instead use "\(ti",
which renders better in a PDF, and produces the same glyph
when rendering on a terminal.

Various pages
Michael Kerrisk [Geoff Clare]
Use "\(ha" rather than "^" in code
This renders better in PDF.

Various pages
Mike Frysinger
Drop "coding: UTF-8" header
This header is used inconsistently -- man pages are UTF-8 encoded
but not setting this marker.
It's only respected by the man-db
package, and seems a bit anachronistic at this point when UTF-8
is the standard default nowadays.

Various pages
Mike Frysinger
Trim leading blank comment line
Very few pages do this, so trim them.

Various pages
Mike Frysinger
Use standard .\" comment style
The \" comment produces blank lines. Use the .\" that the vast
majority of the codebase uses instead.

Various pages
  Mike Frysinger [G. Branden Robinson]
    Various pages: Drop t comment header
      Historically, a comment of the following form at the top of a
      manual page was used to indicate too man(1) that the use of tbl(1)
      was required in order to process tables:

        '\" t

      However, at least as far back as 2001 (according to Branden),
      man-db's man(1) automatically uses tbl(1) as needed, rendering
      this comment unnecessary.
 And indeed many existing pages in
      man-pages that have tables don't have this comment at the top of
      the file. So, drop the comment from those files where it is
      present.

Changes to individual pages
----

ioctl_tty.2
  Michael Kerrisk
    Fix a confusing wording error in description of TIOCSPTLCK

iopl.2
  Thomas Piekarski [victorm007@yahoo.com]
    Updating description of permissions and disabling interrupts
      Update description of permissions for port-mapped I/O set
      per-thread and not per-process. Mention that iopl() can not
      disable interrupts since Linux 5.5 anymore and is in general
      deprecated and only provided for legacy X servers.

      See https://bugzilla.kernel.org/show_bug.cgi?id=205317

keyctl.2
  Oleksandr Kravchuk
    Declare auth_key to fix a compilation error in example code

lseek.2
  Andrew Price
    List gfs2 support for SEEK_HOLE/SEEK_DATA

mount.2
   Michael Kerrisk
    ERRORS: add EINVAL for bind mount of mount namespace inode

open.2
  Michael Kerrisk
    Say a bit more about what happens when 'mode' is wrongly omitted

pidfd_open.2
  Michael Kerrisk
    Add the setns(2) use case for PID file descriptors
  Michael Kerrisk
    Close the pidfd in EXAMPLE
      Close the PID file descriptor in the example program, to hint to
      the reader that like every other kind of file descriptor, a PID FD
      should be closed.

prctl.2
  Michael Kerrisk
    The parent death signal is cleared on some credential changes
      See kernel/cred.c::commit_creds() in the Linux 5.6 source code.

seccomp.2
  Andy Lutomirski
    Improve x32 and nr truncation notes

send.2
recv.2
  Alyssa Ross
    Add msg_iovlen POSIX note
      msg_iovlen is incorrectly typed (according to POSIX) in addition
      to msg_controllen, but unlike msg_controllen, this wasn't
       mentioned for msg_iovlen.

setns.2
  Michael Kerrisk
    EXAMPLE: use O_CLOEXEC when opening namespace file descriptor
  Michael Kerrisk
    It is possible to setns() to the caller's current PID namespace
      The page currently incorrectly says that 'fd' must refer to
      a descendant PID namespace. However, 'fd' can also refer to
      the caller's current PID namespace. Verified by experiment,
      and also comments in kernel/pid_namespace.c (Linux 5.8-rc1).

sync.2
  Jeff Layton
    syncfs() now returns errors if writeback fails
      A patch has been merged for v5.8 that changes how syncfs() reports
      errors. Change the sync() manpage accordingly.

syscalls.2
  Michael Kerrisk

Add faccessat2(), added in Linux 5.8

sysctl.2
Michael Kerrisk
glibc removed support for sysctl() starting in version 2.32

atoi.3
Arkadiusz Drabczyk
Explain disadvantages of atoi()
Michael Kerrisk
Relocate BUGS section
Michael Kerrisk
Add NOTES section explaining 0 return value on error
And note that this is not specified by POSIX.

fread.3
Arkadiusz Drabczyk
Add example
Arkadiusz Drabczyk
Explain that file position is moved after calling fread()/fwrite()
Corresponding manpage on FreeBSD already contains that
information.

getpt.3
posix_openpt.3
pts.4
Michael Kerrisk
Use the term "pseudoterminal multiplexor device" for /dev/ptmx
Let's use some consistent terminology for this device.

posix_memalign.3
Bruno Haible
Clarify how to free the result of posix_memalign

pthread_rwlockattr_setkind_np.3
Carlos O'Donell [Kumar Kartikeya Dwivedi]
Clarify a PTHREAD_RWLOCK_PREFER_WRITER_NP detail

queue.3
Alejandro Colomar
Remove wrong code from example
Alejandro Colomar
Comment out text for functions not in glibc (related: 6559169cac)

pts.4
Michael Kerrisk
Remove NOTES on BSD pseudoterminals
This information is already covered better in pty(7). No need to

mention it again here.

hosts.5
  Thomas Bartelsmeier
    Clarify capability for IPv6 outside of examples
      Resolves https://bugzilla.kernel.org/show_bug.cgi?id=208279

proc.5
  Jakub Wilk
    Use "pwd -P" for printing cwd
      "/bin/pwd" happens to work with the GNU coreutils implementation,
      which has -P as the default, contrary to POSIX requirements.

      Use "pwd -P" instead, which is shorter, easier to type, and should
      work everywhere.
  Arkadiusz Drabczyk
    Inform that comm in /proc/pid/{stat,status} might also be truncated
      pgrep for example searches for a process name in /proc/pid/status

resolv.conf.5
  Michael Kerrisk [Helge Kreutzmann]
    Clarify that ip6-bytestring was removed in 2.25

capabilities.7
  Dan Kenigsberg
    Clarify
 that CAP_SYS_NICE relates to *lowering* the nice value
  Saikiran Madugula
    CAP_SYS_RESOURCE: add two more items for POSIX message queues
      CAP_SYS_RESOURCE also allows overriding /proc/sys/fs/mqueue/msg_max
      and /proc/sys/fs/mqueue/msgsize_max.
  Michael Kerrisk [Dan Kenigsberg]
    Clarify wording around increasing process nice value
  Michael Kerrisk
    SEE ALSO: add getpcaps(8)

cgroups.7
cpuset.7
  Sven Hoexter
    Update kernel cgroup documentation references
      cgroups-v1/v2 documentation got moved to the "admin-guide" subfolder
      and converted from .txt files to .rst

ip.7
  Michael Kerrisk [Stephen Hemminger]
    Remove mention of ipfw(4) which was in long obsolete ipchains project

man-pages.7

Michael Kerrisk
Add some notes on generating optimal glyphs
Getting nice renderings of ^ ` and ~ requires special
steps in the page source.

pty.7
Michael Kerrisk

Explicitly mention CONFIG_LEGACY_PTYS
Explicitly mention CONFIG_LEGACY_PTYS, and note that it is disabled
by default since Linux 2.6.30.
Michael Kerrisk
Relocate a paragraph to NOTES

standards.7
Michael Kerrisk
Add an entry for POSIX.1-1988
Michael Kerrisk [Geoff Clare]
Correct various details in the explanation of XPG/POSIX/SUS

ld.so.8
Florian Weimer [Michael Kerrisk]
List more places in which dynamic string tokens are expanded
This happens for more than just DT_RPATH/DT_RUNPATH.
Arkadiusz Drabczyk
Explain that empty entry in LD_LIBRARY_PATH means cwd

zic.8
Michael Kerrisk
Sync to 2020a tzdb release
From https://www.iana.org/time-zones, version 2020a.

========== Changes in man-pages-5.09 ==========

Released: 2020-11-01, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog
below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages
---

circleq.3

Alejandro Colomar
New page with 'circleq' content extracted from queue(3)

list.3
Alejandro Colomar
New page with 'list' content extracted from queue(3)

pthread_attr_setsigmask_np.3
Michael Kerrisk
New page for pthread_attr_setsigmask_np() + pthread_attr_getsigmask_np()

Add a page documenting the pthread_attr_setsigmask_np(3) and
pthread_attr_getsigmask_np(3) functions added in glibc 2.32.

slist.3
Alejandro Colomar
New page with 'slist' content extracted from queue(3)

stailq.3
Alejandro Colomar
New page with 'stailq' content extracted from queue(3)

tailq.3
Alejandro Colomar
New page with 'tailq' content extracted from queue(3)

system_data_types.7
Alejandro Colomar, Michael Kerrisk
A new page documenting a wide range of system data types.

kernel_lockdown.7
David Howells, Heinrich Schuchardt [Michael Kerrisk]
New page documenting the Kernel Lockdown feature

queue.7
Alejandro Colomar
Create summary page for 'queue' APIs
The former queue(3) page was rather unwieldy, as it attempted to
describe too many APIs. After splitting that content out into a
number of smaller pages (circleq.3, list.3, slist.3, stailq.3,
and
tailq.3) move the much-reduced queue(3) page, which is now
essentially a summary of those APIs, from Section 3 to Section 7.

Newly documented interfaces in existing pages
---

fanotify_init.2
fanotify.7
  Amir Goldstein [Jan Kara, Matthew Bobrowski]
    Document FAN_REPORT_DIR_FID

fanotify_init.2
fanotify.7
  Amir Goldstein [Jan Kara, Matthew Bobrowski]
    Document FAN_REPORT_NAME

statx.2
  Ira Weiny
    Add STATX_ATTR_DAX

strerror.3
  Michael Kerrisk
    Document strerrorname_np() and strerrordesc_np()
      strerrorname_np() and strerrordesc_np() were added in glibc 2.32.

strsignal.3
  Michael Kerrisk
    Document sigabbrev_np() and sigdescr_np().
      sigabbrev_np() and sigdescr_np() were added in glibc 2.32.

loop.4
  Yang Xu
    Document LOOP_CONFIGURE ioctl
  Yang Xu
    Document LO_FLAGS_DIRECT_IO flag

capabilities.7
  Michael Kerrisk
    Document the CAP_CHECKPOINT_RESTORE
 capability added in Linux 5.9

ip.7
  Stephen Smalley [Paul Moore]
    Document IP_PASSSEC for UDP sockets

ip.7
socket.7
  Stephen Smalley
    Document SO_PEERSEC for AF_INET sockets
  Sridhar Samudrala
    Document SO_INCOMING_NAPI_ID

socket.7

unix.7
  Stephen Smalley [Serge Hallyn, Simon McVittie]
    Add initial description for SO_PEERSEC

New and changed links
---

aiocb.3
clock_t.3
clockid_t.3
dev_t.3
div_t.3
double_t.3
fenv_t.3
fexcept_t.3
FILE.3
float_t.3
gid_t.3
id_t.3
imaxdiv_t.3
int8_t.3
int16_t.3
int32_t.3
int64_t.3
intN_t.3
intmax_t.3
intptr_t.3
lconv.3
ldiv_t.3
lldiv_t.3
off_t.3
pid_t.3
ptrdiff_t.3
regex_t.3
regmatch_t.3
regoff_t.3
siginfo_t.3
sigset_t.3
sigval.3
size_t.3
ssize_t.3
suseconds_t.3
time_t.3
timer_t.3
timespec.3
timeval.3
uid_t.3

uint8_t.3
uint16_t.3
uint32_t.3
uint64_t.3
uintN_t.3
uintptr_t.3
va_list.3
void.3
Alejandro Colomar, Michael kerrisk
New links to system_data_types(7)

CIRCLEQ_ENTRY.3
CIRCLEQ_HEAD.3
CIRCLEQ_INIT.3
CIRCLEQ_INSERT_AFTER.3
CIRCLEQ_INSERT_BEFORE.3
CIRCLEQ_INSERT_HEAD.3
CIRCLEQ_INSERT_TAIL.3
CIRCLEQ_REMOVE.3
Alejandro Colomar
Link to the new circleq(3) page instead of queue(3)

LIST_EMPTY.3
LIST_ENTRY.3
LIST_FIRST.3
LIST_FOREACH.3
LIST_HEAD.3
LIST_HEAD_INITIALIZER.3
LIST_INIT.3
LIST_INSERT_AFTER.3
LIST_INSERT_BEFORE.3
LIST_INSERT_HEAD.3
LIST_NEXT.3
LIST_REMOVE.3
Alejandro Colomar
Link to the new list.3 page instead of queue.3

SLIST_EMPTY.3
SLIST_ENTRY.3
SLIST_FIRST.3
SLIST_FOREACH.3
SLIST_HEAD.3
SLIST_HEAD_INITIALIZER.3
SLIST_INIT.3
SLIST_INSERT_AFTER.3
SLIST_INSERT_HEAD.3
SLIST_NEXT.3
SLIST_REMOVE.3

SLIST_REMOVE_HEAD.3
  Alejandro Colomar
    Link to the new slist(3) page instead of queue(3)

STAILQ_CONCAT.3
STAILQ_EMPTY.3
STAILQ_ENTRY.3
STAILQ_FIRST.3
STAILQ_FOREACH.3
STAILQ_HEAD.3
STAILQ_HEAD_INITIALIZER.3
STAILQ_INIT.3
STAILQ_INSERT_AFTER.3
STAILQ_INSERT_HEAD.3
STAILQ_INSERT_TAIL.3
STAILQ_NEXT.3
STAILQ_REMOVE.3
STAILQ_REMOVE_HEAD.3
  Alejandro Colomar
    Link to the new stailq(3) page instead of queue(3)

TAILQ_CONCAT.3
TAILQ_EMPTY.3
TAILQ_ENTRY.3
TAILQ_FIRST.3
TAILQ_FOREACH.3
TAILQ_FOREACH_REVERSE.3
TAILQ_HEAD.3
TAILQ_HEAD_INITIALIZER.3
TAILQ_INIT.3
TAILQ_INSERT_AFTER.3
TAILQ_INSERT_BEFORE.3
TAILQ_INSERT_HEAD.3
TAILQ_INSERT_TAIL.3
TAILQ_LAST.3
TAILQ_NEXT.3
TAILQ_PREV.3
TAILQ_REMOVE.3
TAILQ_SWAP.3
  Alejandro Colomar
    Link to the new tailq(3) page instead of queue(3)

getcwd.2
mq_notify.2
mq_open.2
mq_timedreceive.2
mq_timedsend.2
mq_unlink.2

Michael Kerrisk
Reinstate links to section 3 pages that document system calls
Some of the links removed in commit 247c654385128fd0748 should
have been kept, because in some cases there are real system
calls whose wrapper functions are documented in Section 3.

queue.3
Alejandro Colomar
Link to queue(7)

sigabbrev_np.3
Michael Kerrisk
New link to strsignal.3

sigdescr_np.3
Michael Kerrisk
New link to strsignal.3

strerrordesc_np.3
Michael Kerrisk
New link to strerror(3)

strerrorname_np.3
Michael Kerrisk
New link to strerror(3)

sys_siglist.3
Michael Kerrisk
New link to strsignal(3)

Global changes

Various pages
Alejandro Colomar
Use ``sizeof`` consistently through all the examples in the
following way:

- Use the name of the variable instead of its type as argument for
``sizeof``.

Various pages
Alejandro Colomar
Use sizeof() to get buffer size (instead of hardcoding macro name)

Various pages
Michael Kerrisk

Use \(aq instead of ' inside monospace fonts

Use \(aq to get an unslanted single quote inside monospace code blocks. Using a simple ' results in a slanted quote inside PDFs.

Various pages

Michael Kerrisk, Alejandro Colomar

Use C99 style to declare loop counter variables

Rather than:

```
sometype x;

for (x = ....; ...)
```

use

```
for (sometype x = ...; ...)
```

This brings the declaration and use closer together (thus aiding readability) and also clearly indicates the scope of the loop counter variable.

Various pages

Alejandro Colomar

Switch printf() casts to use [u]intmax_t + %ju / %jd

Let's move to the 21st century. Instead of casting system data types to long/long long/etc. in printf() calls, instead cast to intmax_t or uintmax_t, the largest available signed/unsigned integer types.

Various pages

Alejandro Colomar

Omit 'int' keyword for 'short', 'long' and 'long long' types

Various pages

Alejandro Colomar

Remove unneeded casts

Various pages

Alejandro Colomar

In printf(): s/0x%/%#/ except when followed by X instead of x

Use printf()'s '#' flag character to prepend the string "0x".

However, when the number is printed in uppercase, and the prefix is in lowercase, the string "0x" needs to be manually written.

Various pages

Michael Kerrisk
Use C99-style declarations for readability
Rather than writing things such as:

```
struct sometype *x;
...
x = malloc(sizeof(*x));
```

let's use C99 style so that the type info is in the same line as
the allocation:

```
struct sometype *x = malloc(sizeof(*x));
```

Various pages
Alejandro Colomar
Cast to 'unsigned long' rather than 'long' when printing with "%lx"

stdarg.3
Alejandro Colomar
Declare variables with different types in different lines
In particular, don's mix a variable and a pointer declaration
on the same line: TYPE x, *p;

Changes to individual pages
---

memusage.1
Michael Kerrisk
EXAMPLES: remove doubled calculations
The same calculations are repeated in malloc() and printf() calls.
For better readability, do the calculations once.
Michael Kerrisk
Use %zu rather than %zd when printing 'size_t' values

clock_getres.2
Alejandro Colomar
EXAMPLES: use 'const' when appropriate
Alejandro Colomar [Jakub Wilk]
Cast 'time_t' to 'int' for printf() and fix the length modifiers
Michael Kerrisk [Tony May]
Fix type and variable name in dynamic clock code example

clone.2
Michael Kerrisk
CAP_CHECKPOINT_RESTORE can now be used to employ 'set_tid'

epoll_ctl.2

Michael Kerrisk
epoll instances can be nested to a maximum depth of 5
This limit appears to be an off-by-one count against
EP_MAX_NESTS (4).
Michael Kerrisk
Move some version info from CONFORMING TO to VERSIONS

eventfd.2
Alejandro Colomar
Use 'PRIxN' macros when printing
C99 fixed-width integer types

futex.2
Alejandro Colomar
Use appropriate types

getdents.2
Alejandro Colomar
SYNOPSIS: add missing header and feature test macro

intro.2
intro.3
credentials.7
feature_test_macros.7
standards.7
Michael Kerrisk
SEE ALSO: add system_data_types(7)

ioctl_ns.2
stat.2
Alejandro Colomar [Konstantin Bukin]
Fix signedness of printf specifiers

membarrier.2
Alejandro Colomar
Note that glibc does not provide a wrapper

mprotect.2
Alejandro Colomar
Use "%p" rather than casting to 'long' when printing pointer values

mq_getsetattr.2
Alejandro Colomar
Use 'const' when appropriate

msgop.2
Yang Xu
Add restriction on ENOSYS error

open.2
  Michael Kerrisk [henrik@optoscale.no]
    ERRORS: add EBUSY

openat.2
  Alejandro Colomar
    SYNOPSIS: return long
      The Linux kernel uses long as the return type for this syscall.
      As glibc provides
 no wrapper, use the same type the kernel uses.

open_by_handle_at.2
  Alejandro Colomar
    Use "%u" rather than "%d" when printing 'unsigned int' values

perf_event_open.2
  Alexey Budankov
    Update the man page with CAP_PERFMON related information

recv.2
send.2
  Michael Kerrisk
    Add cross references to pages with further info about ancillary data

sched_getattr.2
  Aleksa Sarai
    Update to include changed size semantics

seccomp.2
  Michael Kerrisk [Jann Horn]
    Warn reader that SECCOMP_RET_TRACE can be overridden
      Highlight to the reader that if another filter returns a
      higher-precedence action value, then the ptracer will not
      be notified.
  Michael Kerrisk [Rich Felker]
    Warn against the use of SECCOMP_RET_KILL_THREAD
      Killing a thread with SECCOMP_RET_KILL_THREAD is very likely
      to leave the rest of the process in a broken state.
  Michael Kerrisk [Rich Felker]

   EXAMPLES: use SECCOMP_RET_KILL_PROCESS rather than SECCOMP_RET_KILL
  Alejandro Colomar
    Use ARRAY_SIZE() macro instead of raw sizeof division

setns.2
  Michael Kerrisk
    Correct the version for time namespace support

sigaction.2
  Michael Kerrisk [Alejandro Colomar]
    Use correct POSIX type for siginfo_t.si_value

syscalls.2
  Michael Kerrisk
    Move system calls from discontinued ports out of main syscall list
      Various ports that had their own indigenous system calls have
      been discontinued. Remove those system calls (none of which had
      manual pages!) to a separate part of the page, to avoid
      cluttering the main list of system calls.
  Michael Kerrisk
    Add close_range (Linux 5.9)

timerfd_create.2
  Alejandro Colomar
    Use 'PRIxN' macros when printing C99 fixed-width integer types

userfaultfd.2
  Michael Kerrisk
    Use a better type (uint64_t) for 'len' in EXAMPLES
  Alejandro
 Colomar
    Use 'PRIx64' rather than "%llx" when printing 64-bit fixed-width types

argz_add.3
envz_add.3
  Michael Kerrisk [Jonny Grant]
    Point out that 'error_t' is an integer type

bsearch.3
  Alejandro Colomar
    Fix intermediate type and remove unneeded casts

bswap.3
  Jakub Wilk
    Use strtoull() for parsing 64-bit numbers

dlopen.3
  Michael Kerrisk
    Clarify DT_RUNPATH/DT_RPATH details
      It is the DT_RUNPATH/DT_RPATH of the calling object (not the
      executable) that is relevant for the library search. Verified
      by experiment.

errno.3
  Michael Kerrisk [Alejandro Colomar]

Note that the pthreads APIs do not set errno

fopencookie.3
Alejandro Colomar
printf()'s .* expects an int; cast accordingly
Alejandro Colomar
Fix bugs in example

fread.3
Alejandro Colomar
Move ARRAY_SIZE logic into macro

freeaddrinfo.3
Marko Hrastovec
Fix memory leaks in freeaddrinfo()
examples

getline.3
Alejandro Colomar
Use %zd rather than %zu when printing 'ssize_t' values

lseek64.3
Michael Kerrisk
Since glibc 2.28. the 'llseek' symbol is no longer available

mallinfo.3
Michael Kerrisk
The 'usmblks' field is nowadays always 0

offsetof.3
Alejandro Colomar
Use "%zu" rather than "%zd" when printing 'size_t' values

perror.3
Michael Kerrisk
sys_errlist and sys_nerr are no longer exposed by <stdio.h>
The change came with the release of glibc 2.32.

posix_fallocate.3
Érico Rolim
Add EOPNOTSUPP error code.

psignal.3
strsignal.3
Michael Kerrisk
Consolidate information on 'sys_siglist' in one page (strsignal(3))

pthread_attr_init.3

Michael Kerrisk
SEE ALSO: add pthread_attr_init(3)

pthread_attr_init.3
pthread_create.3
pthread_getattr_np.3
Michael Kerrisk
Use correct type (size_t) for some variables

pthread_getattr_np.3
Alejandro Colomar
Use "%zu" and "%zx" when printing 'size_t' values

pthread_sigmask.3
Michael Kerrisk
SEE ALSO: add pthread_attr_setsigmask_np(3)

qsort.3
Alejandro Colomar
Fix casts
Alejandro Colomar
SYNOPSIS: move code from queue.3 to stailq.3

regex.3
Alejandro Colomar
Add example program
Alejandro Colomar
Remove unnecessary include

strsignal.3
Michael Kerrisk [Hauke Fath]
Note that starting with v2.32, glibc no longer exports 'sys_siglist'
Michael Kerrisk
Further addition on version range for sys_siglist
Michael Kerrisk
Note that 'sys_siglist' is nonstandard

strtod.3
Jonathan Wakely
Fix return value for underflow

strtol.3
Alejandro Colomar
EXAMPLES: simplify errno checking
Alejandro Colomar
EXAMPLES: as the default base, use special value 0
Alejandro Colomar
EXAMPLES: delimit output string using ""

tsearch.3
  Alejandro Colomar
    Simplify
 type usage and remove unneeded casts
  Alejandro Colomar
    Use size_t for malloc() argument

loop.4
  Yang Xu
    Add some details about lo_flags

core.5
  Alejandro Colomar
    Use adequate type

locale.5
  Florian Weimer
    Decimal points, thousands separators must be one character

proc.5
  Michael Kerrisk
    Update capability requirements for accessing /proc/[pid]/map_files
  Jann Horn [Mark Mossberg]
    Document inaccurate RSS due to SPLIT_RSS_COUNTING
  Michael Kerrisk
    Note "open file description" as (better) synonym for "file handle"

resolv.5
  Florian Weimer
    Document the trust-ad option

aio.7
  Alejandro Colomar
    Use perror() directly

bpf-helpers.7
  Michael Kerrisk [Jakub Wilk]
    Resync with current kernel source

capabilities.7
  Michael Kerrisk
    Under CAP_SYS_ADMIN, group "sub-capabilities" together
      CAP_BPF, CAP_PERFMON, and CAP_CHECKPOINT_RESTORE have all been

   added to split out the power of CAP_SYS_ADMIN into weaker pieces.
      Group all of these capabilities together in the list under
      CAP_SYS_ADMIN, to make it clear that there is a pattern to these

capabilities.
Michael Kerrisk
CAP_SYS_ADMIN implies CAP_CHECKPOINT_RESTORE
But the latter, weaker capability is preferred.
Michael Kerrisk
Add kernel doc reference for CAP_PERFMON

fanotify.7
Alejandro Colomar
Pass array to read(2) directly instead of a pointer to it

fanotify.7
fanotify_mark.2
Amir Goldstein [Jan Kara, Matthew Bobrowski]
Generalize documentation of FAN_REPORT_FID

feature_test_macros.7
Jakub Wilk
Update list of macros that inhibit default definitions

man.7
Michael Kerrisk [G. Branden Robinson]
Clarify that alternating typeface macros print arguments without spaces

man-pages.7
Michael Kerrisk
Add some more requests re code examples
Michael Kerrisk
Soften the statement that ideal programs should be short

namespaces.7
Michael Kerrisk
A 'time_for_children' symlink can also pin a namespace

pid_namespaces.7
Michael Kerrisk
Update capability requirements for /proc/sys/kernel/ns_last_pid

pthreads.7
Michael Kerrisk
Explicitly note that pthreads APIs return an errno-style value on error

rtld-audit.7
Florian Weimer [Carlos O'Donell]
Clarify la_version handshake
Returning its argument without further checks is almost always
wrong for la_version.
Alejandro Colomar

Use "%u" rather than "%d" when printing 'unsigned int' values

sigevent.7
  Michael Kerrisk
    Note that 'sigev_notify_thread_id' is Linux-specific

socket.7
  Michael Kerrisk
    SEE ALSO: add ipv6(7)

========== Changes in man-pages-5.10 ==========

Released: 2020-12-21, Munich

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The following people contributed patches/fixes
 or (noted in brackets
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Apologies if I missed
anyone!

Newly documented interfaces in existing pages
---

access.2
  Michael Kerrisk
    Document faccessat2()
      faccessat2() was added in Linux 5.8 and enables a fix to
      longstanding bugs in the faccessat() wrapper function.

membarrier.2
  Peter Oskolkov [Alejandro Colomar]
    Update for Linux 5.10
      Linux kernel commit 2a36ab717e8fe678d98f81c14a0b124712719840
      (part of 5.10 release) changed sys_membarrier prototype/parameters
      and added two new commands [MEMBARRIER_CMD_PRIVATE_EXPEDITED_RSEQ
      and MEMBARRIER_CMD_REGISTER_PRIVATE_EXPEDITED_RSEQ].

mount.2
statfs.2
  Ross Zwisler
    Add NOSYMFOLLOW flags to mount(2) and statfs(2)

New and changed links
---

faccessat2.2
  Michael Kerrisk
    New link to access.2

CIRCLEQ_EMPTY.3
CIRCLEQ_FIRST.3
CIRCLEQ_FOREACH.3
CIRCLEQ_FOREACH_REVERSE.3
CIRCLEQ_HEAD_INITIALIZER.3
CIRCLEQ_LAST.3
CIRCLEQ_LOOP_NEXT.3
CIRCLEQ_LOOP_PREV.3
CIRCLEQ_NEXT.3
CIRCLEQ_PREV.3
  Michael Kerrisk
    Add missing links to circleq.3

pthread_attr_getsigmask_np.3

Michael Kerrisk
New link to pthread_attr_setsigmask_np.3

Global changes

Various pages
Alejandro Colomar
Use Oxford comma

Changes to individual pages
---

access.2
Michael Kerrisk
BUGS: note that faccessat() wrapper function emulation ignores ACLs

bpf.2
Michael Kerrisk
Place EXAMPLES section in correct location

cacheflush.2
Alejandro Colomar
Document Architecture-specific variants
Alejandro Colomar [Heinrich Schuchardt]
Document __builtin___clear_cache() as a more portable alternative

chroot.2
memfd_create.2
tailq.3
Michael Kerrisk [Alejandro Colomar]
Fix unbalanced .nf/.fi

clock_getres.2
Michael Kerrisk
Place ERRORS in alphabetical order

clone.2
sigaltstack.2
Michael Kerrisk
clone(CLONE_VM)
disables the alternate signal stack

getrlimit.2
Michael Kerrisk
State more precisely the range of kernel versions that had RLIMIT_LOCKS

getrusage.2
  Michael Kerrisk
    Note that the 'vtimes' symbol exists only up to glibc 2.32

io_cancel.2
io_destroy.2
io_getevents.2
io_setup.2
io_submit.2
  Alejandro Colomar
    SYNOPSIS: s/io_context_t/aio_context_t/
      Linux uses aio_context_t for these syscalls,
      and it's the type provided by <linux/aio_abi.h>.
      Use it in the SYNOPSIS.

      libaio uses 'io_context_t', but that difference is already noted
      in NOTES.

io_setup.2
  Alejandro Colomar
    SYNOPSIS: return long

link.2
  Mathias Rav
    ERRORS: add ENOENT when target is deleted
      Linux kernel commit aae8a97d3ec30788790d1720b71d76fd8eb44b73 (part
      of kernel release v2.6.39) added a check to disallow creating a
      hard link to an unlinked file.

llseek.2

 Michael Kerrisk
    Note size of 'loff_t' type
  Michael Kerrisk
    Point the reader to lseek64(3) for info about llseek(3)
  Michael Kerrisk
    Some mild rewriting to ease reading of the info in this page

mmap.2
  Michael Kerrisk
    Clarify SIGBUS text and treatment of partial page at end of a mapping

msgctl.2
  Michael Kerrisk
    Make comments in 'msqid_ds' definition more compact
  Michael Kerrisk
    Place list of field descriptions in same order as structure definition

Michael Kerrisk
Use field name "msg_cbytes" rather than "__msg_cbytes"
Michael Kerrisk
Add description of 'msg_cbytes' field

openat.2
Colin Ian King
Fix include path, should be linux/openat2.h

perf_event_open.2
Namhyung Kim [Alejandro Colomar]
Update man page with recent kernel changes
Alejandro Colomar
Assign calculated value explicitly to 'config'

restart_syscall.2
Alejandro Colomar
SYNOPSIS: Fix restart_syscall()
return type

set_tid_address.2
Alejandro Colomar
SYNOPSIS: Fix set_tid_address() return type

shmctl.2
Michael Kerrisk
Place list of field descriptions in same order as structure definition

sigaction.2
Michael Kerrisk
Clarify description of SA_NODEFER
Clarify description of SA_NODEFER, and note interaction with
act.sa_mask.
Michael Kerrisk
Add a cross-reference to signal(7) for further info on 'ucontext_t'

sigaltstack.2
Michael Kerrisk
Clarify that the alternate signal stack is per-thread
Clarify that the alternate signal stack is per-thread (rather
than process-wide).

spu_create.2
Michael Kerrisk
Add kernel version numbers for SPU_CREATE_AFFINITY_SPU/_MEM
Michael Kerrisk
Relocate paragraph on 'mode' argument
Michael Kerrisk [Alejandro Colomar]

Clarify that spu_create() now has 4 arguments but once had only 3

subpage_prot.2
Alejandro Colomar
SYNOPSIS: Fix return type: s/long/int/

syscalls.2
Michael Kerrisk
Add process_madvise()
Michael Kerrisk
Note that sysctl() was removed in Linux 5.5

timer_getoverrun.2
Michael Kerrisk
timer_getoverrun() now clamps the overrun count to DELAYTIMER_MAX
See https://bugzilla.kernel.org/show_bug.cgi?id=12665.

uselib.2
posix_memalign.3
profil.3
rtime.3
Michael Kerrisk
Remove some text about libc/libc5
With this change, there remain almost no vestiges of information
about the long defunct Linux libc.

errno.3
Michael Kerrisk
Note another possible cause of the EMFILE error

getcontext.3
Michael Kerrisk
Mention SA_SIGINFO flag when talking about 3-argument signal handler
Michael Kerrisk
SEE ALSO: add signal(7)

list.3
Michael Kerrisk
NAME: remove LIST_PREV, which is not documented in this page

lseek64.3
Michael Kerrisk
Remove
section numbers from interface list
Michael Kerrisk
Remove sentence saying lseek64() is an alias for llseek()
Michael Kerrisk
NOTES: describe the origin of lseek64() in LFS

nextafter.3
  Michael Kerrisk
    Remove duplicate "BUGS" section heading

pthread_tryjoin_np.3
  Michael Kerrisk [Mike Crowe]
    Note that pthread_timedjoin_np() uses CLOCK_REALTIME, but there's a bug

rcmd.3
  Michael Kerrisk
    SEE ALSO: remove intro(2)

strnlen.3
  Michael Kerrisk [Heinrich Schuchardt]
    Fix a small inconsistency in the text

elf.5
  Michael Kerrisk
    SEE ALSO: add objcopy(1)

filesystems.5
  Ahelenia Ziemiaska [Alejandro Colomar]
    Fix link to user space tooling for ncpfs
  Ahelenia Ziemiaska [Alejandro Colomar]
    Note ncpfs removal from kernel

attributes.7
  Michael Kerrisk
    SEE ALSO: add signal-safety(7)

fanotify.7
  Amir Goldstein [Jan Kara]
    Fix outdated description

kernel_lockdown.7
   Michael Kerrisk
    Remove unneeded quotes

packet.7
  Baruch Siach [Alejandro Colomar]
    Update references to kernel documentation

pthreads.7
  Michael Kerrisk
    Rephrase function list in terms of POSIX rather than SUS
      The list was using an inconsistent mixture of "POSIX" and "SUS".

signal.7
  Michael Kerrisk [Heinrich Schuchardt, Dave Martin]
    Add some details on the execution of signal handlers
      Add a "big picture" of what happens when a signal handler
      is invoked.
  Michael Kerrisk
    Add pidfd_send_signal() to list of APIs for sending signals
  Michael Kerrisk
    Mention 'ucontext_t' in the discussion of signal handler execution
  Michael Kerrisk
    SEE ALSO: add swapcontext(3)

signal-safety.7
  Michael Kerrisk
    Note async-signal-safety details for errno

standards.7
  Michael Kerrisk
    Add URL for POSIX.1-2008/SUSv4
  Michael Kerrisk
    Add LFS (Large File Summit)
   Michael Kerrisk [Rob Landley]
    Fix some URLs for locations of the standards
  Michael Kerrisk
    Relocate the discussion on POSIX manual pages

tcp.7
  Alejandro Colomar [Philip Rowlands]
    tcp_syncookies: It is now an integer [0, 2]
      Since Linux kernel 3.12, tcp_syncookies can have the value 2,
      which sends out cookies unconditionally.

========== Changes in man-pages-5.11 ==========

Released: 2021-03-21, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages
---

close_range.2
  Stephen Kitt, Michael Kerrisk [Christian Brauner]
    New page documenting close_range(2)

process_madvise.2
  Suren Baghdasaryan, Minchan Kim [Michal Hocko, Alejandro Colomar,
  Michael Kerrisk]
    Document process_madvise(2)

fileno.3
  Michael Kerrisk
    Split fileno(3) content out of ferror(3) into new page
      fileno(3) differs from the other functions in various ways.
      For example, it is governed by different standards,
      and can set 'errno'. Conversely, the other functions
      are about examining the status of a stream, while
      fileno(3) simply obtains the underlying file descriptor.

      Furthermore, splitting this function out allows
      for some cleaner upcoming changes in ferror(3).

Newly documented interfaces in existing pages
---

epoll_wait.2
  Willem de Bruijn [Dmitry V. Levin]
    Add documentation of epoll_pwait2()
      Expand the epoll_wait() page with epoll_pwait2(), an epoll_wait()
      variant that takes a struct timespec to enable nanosecond
      resolution timeout.

fanotify_init.2
fanotify.7
  Jan Kara [Steve Grubb]
    Document FAN_AUDIT flag and FAN_ENABLE_AUDIT

madvise.2
  Michael Kerrisk
    Add descriptions of MADV_COLD and MADV_PAGEOUT
      Taken from process_madvise(2).

openat2.2
  Jens Axboe
    Add RESOLVE_CACHED

prctl.2
  Gabriel Krisman Bertazi

Document Syscall User Dispatch

mallinfo.3
  Michael Kerrisk
    Document mallinfo2() and note that mallinfo() is deprecated
      Document the mallinfo2() function
 added in glibc 2.33.
    Update example program to use mallinfo2()

system_data_types.7
  Alejandro Colomar
    Add off64_t to system_data_types(7)

ld.so.8
  Michael Kerrisk
    Document the --argv0 option added in glibc 2.33

New and changed links
---

epoll_pwait2.2
  Dmitry V. Levin
    New link to epoll_wait(2)

mallinfo2.3
  Michael Kerrisk
    New link to mallinfo(3)

off64_t.3
  Alejandro Colomar
    New link to system_data_types(7)

Global changes

Various pages
  Alejandro Colomar
    SYNOPSIS: Use 'restrict' in prototypes
      This change has been completed for *all* relevant pages
      (around 135 pages in total).

Various pages
  Alejandro Colomar [Zack Weinberg]
    Remove unused <sys/types.h>
      The manual pages are already inconsistent in which headers need
      to be included. Right now, not all of the types used by a

function have their required
header included in the SYNOPSIS.

If we were to add the headers required by all of the types used by functions, the SYNOPSIS would grow too much. Not only it would grow too much, but the information there would be less precise.

Having system_data_types(7) document each type with all the information about required includes is much more precise, and the info is centralized so that it's much easier to maintain.

So let's document only the include required for the function prototype, and also the ones required for the macros needed to call the function.

<sys/types.h> only defines types, not functions or constants, so it doesn't belong to man[23] (function) pages at all.

I ignore if some old systems had headers that required you to include <sys/types.h> *before* them (incomplete headers), but if so, those implementations
would be broken, and those headers
should probably provide some kind of warning. I hope this is not the case.

[mtk: Already in 2001, POSIX.1 removed the requirement to include <sys/types.h> for many APIs, so this patch seems well past due.]

A few pages
  Alejandro Colomar
    Add notes about missing glibc wrappers

_exit.2
abort.3
err.3
exit.3
pthread_exit.3
setjmp.3
  Alejandro Colomar
    SYNOPSIS: Use 'noreturn' in prototypes
      Use standard C11 'noreturn' in these manual page for functions that do not return.

Various pages
  Ganimedes Colomar [Alejandro Colomar]
    Normalize SYNOPSIS notes about nonexistent glibc wrappers
      To easily distinguish documentation about glibc wrappers from

documentation about kernel syscalls, let's have a normalized
'Note' in the SYNOPSIS, and a further explanation in the page body
(NOTES in most of them),
as already happened in many (but not all)
of the manual pages for syscalls without a wrapper. Furthermore,
let's normalize the messages, following membarrier.2 (because it's
already quite extended), so that it's easy to use grep to find
those pages.
Normalize NOTES about nonexistent glibc wrappers
This commit normalizes texts under sections other than SYNOPSIS
(most of them in NOTES).

Global changes (formatting fixes and minor edits)

Various pages
Michael Kerrisk
ERRORS: remove redundant statement that 'errno' is set
This is implied in every other manual page. There is no need to
state it explicitly in these pages.

Various pages
Michael Kerrisk
Use periods more consistently inside code comments
In general, complete sentences in free-standing comments
should be terminated by periods.

A
few pages
Michael Kerrisk
Better table formatting
In particular, allow for rendering in widths different from
(especially less than) 80 columns.

Various pages
Michael Kerrisk
Consistency fix-up in FTMs
Generally, place '||' at start of a line, rather than the end of
the previous line.

Rationale: this placement clearly indicates that each piece
is an alternative.

Various pages
Michael Kerrisk [Alejandro Colomar]
Bring more whitespace consistency in SYNOPSIS
The use of vertical white space in the SYNOPSIS sections

is rather inconsistent. Make it more consistent, subject to the
following heuristics:

* Prefer no blank lines between function signatures by default.
* Where many functions are defined in the SYNOPSIS, add blank
  lines where needed to improve readability, possibly by using

blank lines to separate logical groups of functions.

Various pages
  Alejandro Colomar
    Consistently use 'unsigned int'
      Most pages use 'unsigned int' (and the kernel too).
      Make them all do so.

Various pages
  Michael Kerrisk
    Various improvements in wording in RETURN VALUE

Various pages
  Michael Kerrisk
    s/Glibc versions </Glibc </ in Feature Test Macro discussions
      Use a more compact notation that will render less wide
      on the terminal.

Various pages
  Michael Kerrisk
    Standardize wording around setting of 'errno' on error
      In the RETURN VALUE sections, a number of different wordings
      are used in to describe the fact that 'errno' is set on error.
      There's no reason for the difference in wordings, since the same
      thing is being described in each case. Switch to a standard
      wording that is the same as FreeBSD and similar to the wording

used in POSIX.1.

      In this change, "to indicate the cause of the error"
      is changed to "to indicate the error".

Various pages
  Michael Kerrisk
    Add missing .nf/.fi in FTM info

Various pages
  Michael Kerrisk
    Simplify mark-up for Feature Test Macro requirements
      Different source styles are used in different pages to achieve the
      same formatted output, and in some cases the source mark-up is a

rather convoluted combination of .RS/.RE/.TP/.PD macros. Simplify this greatly, and unify all of the pages to use more or less the same source code style. This makes the source code rather easier to read, and may simplify future scripted global changes.

The feature test macro info is currently bracketed by .nf/.fi pairs. This is not strictly necessary (i.e., it makes no difference to the rendered output), but for the moment we keep these
"brackets" in case they may be replaced with something else.

Various pages
Michael Kerrisk
Use real minus signs in pathnames

Various pages
Michael Kerrisk
Standardize wording around setting of 'errno' on error
In the RETURN VALUE sections, a number of different wordings are used in to describe the fact that 'errno' is set on error. There's no reason for the difference in wordings, since the same thing is being described in each case. Switch to a standard wording that is the same as FreeBSD and similar to the wording used in POSIX.1.

In this change, reword various cases saying that 'errno' is set "appropriately" to "is set to indicate the error".

Various pages
Michael Kerrisk
Improve formatting in ATTRIBUTES
Make the formatting more consistent inside the tables in the ATTRIBUTES sections. Make the source code more uniform; in

particular, eliminate the use of custom tweaks using 'lbwNN'/'lwNN' and .br macros. In addition, ensure that hyphenation and text justification do not occur inside the tables.

Various pages
Michael Kerrisk
Use .nf/.fi in SYNOPSIS
The majority of pages use .nf/.fi in SYNOPSIS, but there are still many that don't and use .br to achieve newlines. Fix many of those. This brings greater consistency to the pages, which eases editing and may ease future scripted edits to the pages.

Various pages
Michael Kerrisk

Standardize wording around setting of 'errno' on error
In the RETURN VALUE sections, a number of different wordings are used in to describe the fact that 'errno' is set on error. There's no reason for the difference in wordings, since the same thing is being described in each case. Switch to a standard wording that is the
same as FreeBSD and similar to the wording used in POSIX.1.

In this change, miscellaneous descriptions of the setting of 'errno' are reworded to the norm of "is set to indicate the error".

Various pages
Michael Kerrisk
Use "\-" to generate real minus in circumstances where appropriate
Use \- for math formulas, pathnames, manual page cross references, etc.

Various pages
Michael Kerrisk
Inside code blocks (.EX/.EE) use \- to get real minus signs
A real minus can be cut and pasted...

Various pages
Alejandro Colomar
Remove explicit blank lines, replacing them with .PP when appropriate

Various pages
Michael Kerrisk
Use internally consistent continuation indents in SYNOPSIS
In the SYNOPSIS, a long function prototype may need to be continued over to the next line. The continuation line is indented according to the following
rules:

1. If there is a single such prototype that needs to be continued, then align the continuation line so that when the page is rendered on a fixed-width font device (e.g., on an xterm) the continuation line starts just below the start of the argument list in the line above. (Exception: the indentation may be adjusted if necessary to prevent a very long continuation line or a further continuation line where the function prototype is very long.)

   Thus:

   int tcsetattr(int fd, int optional_actions,

const struct termios *termios_p);

2. But, where multiple functions in the SYNOPSIS require
continuation lines, and the function names have different
lengths, then align all continuation lines to start in the
same column. This provides a nicer rendering
in PDF output
(because the SYNOPSIS uses a variable width font where
spaces render narrower than most characters).

Thus:

int getopt(int argc, char * const argv[],
const char *optstring);
int getopt_long(int argc, char * const argv[],
const char *optstring,
const struct option *longopts, int *longindex);

Various pages
Michael Kerrisk
Standardize wording around setting of 'errno' on error
In the RETURN VALUE sections, a number of different wordings
are used in to describe the fact that 'errno' is set on error.
There's no reason for the difference in wordings, since the same
thing is being described in each case. Switch to a standard
wording that is the same as FreeBSD and similar to the wording
used in POSIX.1.

In
this change, fix some instances stating that 'errno' is set
"appropriately" to instead say "to indicate the error".

Various System V IPC pages
Michael Kerrisk
Improve wording describing RETURN VALUE and setting of 'errno'

Changes to individual pages
---

alloc_hugepages.2
Michael Kerrisk
CONFORMING TO: reword to reflect that these system calls are long gone

cacheflush.2
Alejandro Colomar
Update SYNOPSIS for glibc wrapper
Glibc uses 'void *' instead of 'char *'.

And the prototype is declared in <sys/cachectl.h>.

clone.2
  Valentin Kettner
    Fix types in clone_args
      A file descriptor is an int so it should be stored through an int
      pointer while parent_tid should have the same type as child_tid
      which is pid_t pointer.

close.2
  Michael Kerrisk
    SEE ALSO: add close_range(2)

copy_file_range.2
  Alejandro Colomar
    Document glibc
 wrapper instead of kernel syscall
      Glibc uses 'off64_t' instead of 'loff_t'.

delete_module.2
  Alejandro Colomar
    SYNOPSIS: Fix prototype parameter types
      The Linux kernel uses 'unsigned int' instead of 'int' for the
      'flags' parameter. As glibc provides no wrapper, use the same
      type the kernel uses.

epoll_create.2
  Michael Kerrisk
    CONFORMING TO: mention that epoll_create1() is Linux-specific

epoll_wait.2
  Michael Kerrisk
    CONFORMING TO: mention that epoll_pwait() is Linux-specific

execve.2
  Palmer Dabbelt
    Correct the versions of Linux that don't have ARG_MAX argv/envp size

execveat.2
  Alejandro Colomar
    Fix prototype
      It's been 6 years since execveat(2) was added to the kernel,
      and there's still no glibc wrapper. Let's document the kernel
      syscall prototype.

getcpu.2
  Michael Kerrisk [Alejandro Colomar]
    Rewrite page to describe glibc wrapper

function
Since glibc 2.29, there is a wrapper for getcpu(2).
The wrapper has only 2 arguments, omitting the unused
third system call argument. Rework the manual page
to reflect this.

getgid.2
getuid.2
Michael Kerrisk
Note that these interfaces never modify 'errno'
See https://www.austingroupbugs.net/view.php?id=511
and the POSIX.1-2008 specifications of the interfaces.

gethostname.2
Michael Kerrisk
Update FTM requirements for gethostname()

getpagesize.2
getdtablesize.3
Michael Kerrisk
Update/correct FTM requirements

getrusage.2
Michael Kerrisk
Starting in 2.33, glibc no longer provides vtimes()

ioctl_tty.2
Michael Kerrisk
Reformat argument type information
The current mark-up renders poorly. To resolve this, move
the type information into a separate line.

ipc.2
Alejandro Colomar
Fix prototype parameter types

kcmp.2
Michael Kerrisk
Since Linux 5.12, kcmp() availability is unconditional
kcmp() is no longer dependent on CONFIG_CHECKPOINT_RESTORE.

keyctl.2
Alejandro Colomar
SYNOPSIS: Fix prototype parameter types
The Linux kernel uses 'unsigned long'.
There's no reason to use the typedef '__kernel_ulong_t'.

lookup_dcookie.2

Alejandro Colomar
Use standard types: u64 -> uint64_t

madvise.2
Michael Kerrisk
SEE ALSO: add process_madvise(2)

mlock.2
Alejandro Colomar
mlock2(): Fix prototype parameter types
The documented prototype for mlock2() was a mix of the
glibc wrapper prototype and the kernel syscall prototype.
Let's document the glibc wrapper prototype, which is shown below.
Michael Kerrisk
CONFORMING TO: note more explicitly which APIs are in the standards

mmap2.2
Alejandro Colomar
Fix prototype parameter types
There are many
slightly different prototypes for this syscall,
but none of them is like the documented one.
Of all the different prototypes,
let's document the asm-generic one.

mount.2
Michael Kerrisk
Note that the 'data' argument can be NULL

move_pages.2
Alejandro Colomar
Add notes about missing glibc wrappers

open.2
rename.2
Alyssa Ross
Refer to tmpfs rather than shmem
If I'm understanding correctly, tmpfs is a filesystem built on
shmem, so I think it's more correct (and probably much more
widely understandable) to refer to tmpfs here.

pciconfig_read.2
Alejandro Colomar
SYNOPSIS: Fix prototype parameter types
Use the glibc prototypes instead of the kernel ones.
Exception: use 'int' instead of 'enum'.

pidfd_open.2

Michael Kerrisk
Note the process_madvise(2) use case for PID file descriptors

readlink.2
Michael Kerrisk [Jonny Grant]
Emphasize that the returned buffer is not null-terminated

s390_pci_mmio_write.2
Alejandro Colomar
SYNOPSIS: Add 'const' qualifier
s390_pci_mmio_write() uses 'const void *' instead of 'void *'.

sched_setattr.2
Alejandro Colomar
Add note about missing glibc wrappers

semctl.2
Yang Xu [Alejandro Colomar, Manfred Spraul]
Correct SEM_STAT_ANY description

socketcall.2
Alejandro Colomar
Add note about missing glibc wrapper

splice.2
Alejandro Colomar
Use 'off64_t' instead of 'loff_t'
The kernel syscall uses 'loff_t', but the glibc wrapper uses 'off64_t'.
Let's document the wrapper prototype, as in other pages.

spu_create.2
Alejandro Colomar
SYNOPSIS: Fix prototype parameter type
The 'flags' parameter of spu_create() uses 'unsigned int'.

spu_run.2
Alejandro Colomar
SYNOPSIS: Fix prototype parameter types
The 2nd and 3rd parameters of spu_run()
use 'uint32_t *'.

stat.2
Jonathan Wakely [Alejandro Colomar]
Remove <unistd.h> from SYNOPSIS
There seems to be no reason <unistd.h> is shown here, so remove it.
Michael Kerrisk
Move the obsolete _BSD_SOURCE FTM to the end of the FTM info

syscall.2
  Peter H. Froehlich
    Update superh syscall convention

syscalls.2
  Michael Kerrisk
    Add epoll_pwait2()

tkill.2
  Alejandro Colomar
    SYNOPSIS: Fix prototype parameter types
      All but the last parameters of t[g]kill() use 'pid_t',
      both in the kernel and glibc.

vmsplice.2
  Alejandro Colomar
    SYNOPSIS: Fix prototype parameter type
      The 3rd parameter of vmsplice() uses 'size_t' in glibc.

bstring.3
  Michael Kerrisk
    SEE ALSO: add string(3)

circleq.3
list.3
slist.3
stailq.3
tailq.3
  Alejandro Colomar
    Improve readability, especially in SYNOPSIS

circleq.3
  Alejandro Colomar
    Fix CIRCLEQ_LOOP_*() return
 type

crypt.3
  Michael Kerrisk
    Reformat FTM info (in preparation for next patch)
  Michael Kerrisk
    Update crypt() FTM requirements to note glibc 2.28 changes

ecvt.3
gcvt.3
  Michael Kerrisk
    Update FTM requirements

error.3

Michael Kerrisk [Alejandro Colomar, Walter Harms]
Clarify the meaning of 'status==0' for error(3)

ferror.3
Michael Kerrisk
Remove fileno(3) content that was migrated to new fileno(3) page
Michael Kerrisk
Add a RETURN VALUE section
Michael Kerrisk
POSIX.1-2008: these functions won't change 'errno' if 'stream' is valid
See https://www.austingroupbugs.net/view.php?id=401.

fread.3
Alessandro Bono
EXAMPLES: swap size and nmemb params
It works both ways, but this one feels more right. We are reading
four elements sizeof(*buffer) bytes each.

fseeko.3
Michael Kerrisk
Move info about obsolete FTM from SYNOPSIS to NOTES
This
makes the SYNOPSIS more consistent with other pages.

ftime.3
Michael Kerrisk
glibc 2.33 has removed ftime()

ftw.3
Alejandro Colomar
SYNOPSIS: Remove duplicate header

gethostbyname.3
Michael Kerrisk
Move mention of <sys/socket.h> from SYNOPSIS to DESCRIPTION
The functions are all declared in <netdb.h>. <sys/socket.h> is only
needed for the AF_* constants.

gethostid.3
Michael Kerrisk
Update FTM requirements for gethostid()

get_phys_pages.3
Alejandro Colomar [Jakub Wilk]
glibc gets the info from sysinfo(2) since 2.23

grantpt.3
ptsname.3

unlockpt.3
  Michael Kerrisk
    Remove mention of _XOPEN_SOURCE_EXTENDED FTM
      This rather ancient FTM is not mentioned in other pages for
      reasons discussed in feature_test_macros(7). Remove this FTM
      from the three pages where it does appear.

malloc.3
  Alejandro Colomar [Johannes Pfister]
    Document that realloc(p,
 0) is specific to glibc and nonportable

malloc_hook.3
  Alejandro Colomar
    SYNOPSIS: Use 'volatile' in prototypes

malloc_trim.3
  Dmitry Vorobev
    Remove mention of free() call
      'malloc_trim' was and is never called from the 'free' function.

pthread_create.3
  Michael Kerrisk [Paran Lee]
    Fix undeclared variable error in example program
  Michael Kerrisk
    Fix a signedness error in the example code

puts.3
  Michael Kerrisk
    Reorder functions more logically (group related functions together)

qecvt.3
  Michael Kerrisk
    Update feature test macro requirements

setbuf.3
  Michael Kerrisk
    POSIX doesn't require errno to be unchanged after successful setbuf()
      See https://www.austingroupbugs.net/view.php?id=397#c799

setlocale.3
  Michael Kerrisk [Alejandro Colomar, Bruno Haible]
    Restructure a particularly difficult sentence

simpleq.3
stailq.3
queue.7
SIMPLEQ_*.3

Alejandro Colomar

Document SIMPLEQ_*() as an alias to STAILQ_*() macros

strerror.3
Alejandro Colomar
strerrorname_np() and strerrordesc_np() first appeared on glibc 2.32

string.3
Michael Kerrisk
SEE ALSO: add bstring(3)

system.3
Alejandro Colomar [Ciprian Dorin Craciun]
Document bug and workaround when the command name starts with a hyphen

environ.7
Bastien Roucariès
Reorder the text
Move the text describing how to set environment variable before
the list(s) of variables in order to improve readability.
Bastien Roucariès
Document convention of string in environ
Document the name=value system and that nul byte is forbidden.
Bastien Roucariès
Document that HOME, LOGNAME, SHELL, USER are set at login time
and point to the su(1) manual page.
Bastien Roucariès
Add see also ld.so(8) for LD_ variables
Michael Kerrisk [Bastien Roucariès]
Improve the description
of PATH
Add more details of how PATH is used, and mention the legacy
use of an empty prefix.
Bastien Roucariès [Alejandro Colomar, Bastien Roucaries, Vincent Lefevre]
Document valid values of pathnames for SHELL, PAGER and EDITOR/VISUAL
Michael Kerrisk [Bastien Roucariès]
Note the default if PAGER is not defined
Michael Kerrisk
Be a little more precise when discussing 'exec'
Say "execve(2)" instead of "exec(3)", and note that this step
starts a new program (not a new process!).
Michael Kerrisk [Bastien Roucariès]
Relocate and reword the mention of _GNU_SOURCE

man-pages.7
Michael Kerrisk
Document "acknowledgement" as the preferred spelling

Michael Kerrisk
Add some notes on comments in example code
Michael Kerrisk
Add a FORMATTING AND WORDING CONVENTIONS section
In man-pages-5.11, a large number of pages were edited to achieve

greater consistency in the SYNOPSIS, RETURN VALUE and ATTRIBUTES
sections. To avoid future inconsistencies, try to capture some of
the preferred conventions in text in man-pages(7).
Michael Kerrisk
Note some rationale for the use of real minus signs

netdevice.7
Pali Rohár [Alejandro Colomar]
Update documentation for SIOCGIFADDR SIOCSIFADDR SIOCDIFADDR

netlink.7
Pali Rohár [Alejandro Colomar]
Fix minimal Linux version for NETLINK_CAP_ACK
NETLINK_CAP_ACK option was introduced in commit 0a6a3a23ea6e which first
appeared in Linux version 4.3 and not 4.2.
Pali Rohár [Alejandro Colomar]
Remove IPv4 from description
rtnetlink is not only used for IPv4
Philipp Schuster
Clarify details of netlink error responses
Make it clear that netlink error responses (i.e., messages with
type NLMSG_ERROR (0x2)), can be longer than sizeof(struct
nlmsgerr).
In certain circumstances, the payload can be longer.

shm_overview.7
Michael Kerrisk
SEE ALSO: add memfd_create(2)

sock_diag.7
Pali Rohár [Alejandro Colomar]
Fix recvmsg() usage in the example

tcp.7
Enke Chen
Documentation revision for TCP_USER_TIMEOUT

uri.7
Michael Kerrisk
Note that 'logical' quoting is the norm in Europe

========== Changes in man-pages-5.12 ==========

Released: 2021-06-20, Christchurch

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages
----

seccomp_unotify.2
  Michael Kerrisk [Tycho Andersen, Jann Horn, Kees Cook, Christian Brauner
                Sargun Dhillon]
    New page documenting the seccomp user-space notification mechanism

MAX.3
  Alejandro Colomar
    New page to document MAX() and MIN()

Newly documented interfaces in existing pages
----

seccomp.2
  Tycho Andersen [MichaelKerrisk]
    Document SECCOMP_GET_NOTIF_SIZES
  Tycho Andersen
    Document SECCOMP_FILTER_FLAG_NEW_LISTENER   [Michael Kerrisk]
  Tycho Andersen
    Document SECCOMP_RET_USER_NOTIF [Michael Kerrisk]

set_mempolicy.2
  Huang Ying [Alejandro Colomar, "Huang, Ying"]
    Add mode flag MPOL_F_NUMA_BALANCING

userfaultfd.2
  Peter Xu
 [Alejandro Colomar, Mike Rapoport]
    Add UFFD_FEATURE_THREAD_ID docs
  Peter Xu [Alejandro Colomar, Mike Rapoport]
    Add write-protect mode docs

proc.5
  Michael Kerrisk
    Document /proc/sys/vm/sysctl_hugetlb_shm_group

system_data_types.7
  Alejandro Colomar
    Add 'blksize_t'
  Alejandro Colomar
    Add 'blkcnt_t'
  Alejandro Colomar
    Add 'mode_t'
  Alejandro Colomar
    Add 'struct sockaddr'
  Alejandro Colomar
    Add 'cc_t'
  Alejandro Colomar
    Add 'socklen_t'

New and changed links
---

blkcnt_t.3
  Alejandro Colomar
    New link to system_data_types(7)

blksize_t.3
  Alejandro Colomar
    New link to system_data_types(7)

cc_t.3
  Alejandro Colomar
    New link to system_data_types(7)

MIN.3
  Michael Kerrisk
    New link to MIN.3

mode_t.3
  Alejandro Colomar
    New link to system_data_types(7)

sockaddr.3
  Alejandro Colomar
    New link to system_data_types(7)

socklen_t.3
   Alejandro Colomar
    New link to system_data_types(7)

Global changes

Many pages
  Alejandro Colomar
    SYNOPSIS: Use syscall(SYS_...); for system calls without a wrapper

Many pages
  Alejandro Colomar
    SYNOPSIS: Document why each header is required

Many pages
  Alejandro Colomar
    SYNOPSIS: Remove unused includes

Various pages
  Alejandro Colomar
    Add note about the use of syscall(2)

Various pages
  Alejandro Colomar
    SYNOPSIS: Miscellaneous fixes to includes

A few pages
  Alejandro Colomar
    SYNOPSIS: Add missing 'const'

Changes to individual pages
---

dup.2
  Michael Kerrisk
    Rewrite the description of dup() somewhat
      As can be seen by any number of StackOverflow questions, people
      persistently misunderstand what dup() does, and the existing manual
      page text, which talks of "copying" a file descriptor doesn't help.
       Rewrite the text a little to try to prevent some of these
      misunderstandings, in particular noting at the start that dup()
      allocates a new file descriptor.
  Michael Kerrisk
    Clarify what silent closing means
  Alejandro Colomar
    SYNOPSIS: Use consistent comments through pages

epoll_wait.2
  Alejandro Colomar
    Move misplaced subsection to NOTES from BUGS

execveat.2
  Michael Kerrisk
    Library support has been added in glibc 2.34

_exit.2
  Michael Kerrisk
    Add a little more detail on the raw _exit() system cal

exit_group.2
  Alejandro Colomar
    Use 'noreturn' in prototypes

flock.2
  Aurelien Aptel [Alejandro Colomar]
    Add CIFS details
      CIFS flock() locks behave differently than the standard.
      Give an overview of those differences.

ioperm.2
  Alejandro Colomar
    Remove obvious comment

memfd_create.2
mmap.2
shmget.2
  Michael Kerrisk [Yang Xu]

 Document the EPERM error for huge page allocations
      This error can occur if the caller is does not have CAP_IPC_LOCK
      and is not a member of the sysctl_hugetlb_shm_group.

mmap.2
  Bruce Merry
    Clarify that MAP_POPULATE is best-effort

mount.2
  Topi Miettinen
    Document SELinux use of MS_NOSUID mount flag

open.2
  Alejandro Colomar [Walter Harms]
    Fix bug in linkat(2) call example
      AT_EMPTY_PATH works with empty strings (""), but not with NULL
      (or at least it's not obvious).
  Michael Kerrisk
    Make it clearer that an FD is an index into the process's FD table
      Sometimes people are confused, thinking a file descriptor is just a
      number....

perfmonctl.2
  Michael Kerrisk
    This system call was removed in Linux 5.10

pipe.2
  Alejandro Colomar
    SYNOPSIS: Fix incorrect prototype
  Michael Kerrisk
    Rearrange SYNOPSIS so that minority version pipe() is at end

ptrace.2
   Dmitry V. Levin [Alejandro Colomar, Mathieu Desnoyers]
    Mention PTRACE_GET_SYSCALL_INFO in RETURN VALUE section

seccomp.2
  Michael Kerrisk
    Reorder list of SECCOMP_SET_MODE_FILTER flags alphabetically
      (No content changes.)
  Michael Kerrisk
    SEE ALSO: add seccomp_unotify(2)

select.2
  Michael Kerrisk
    Strengthen the warning regarding the low value of FD_SETSIZE
      All modern code should avoid select(2) in favor of poll(2)
      or epoll(7).
  Michael Kerrisk
    Relocate sentence about the fd_set value-result arguments to BUGS

syscalls.2
  Michael Kerrisk
    perfmonctl(2) was removed in Linux 5.10

bswap.3
  Alejandro Colomar
    bswap_*() are implemented using functions
      Even though it's true that they are macros,
      it's transparent to the user.

      The user will see their results casted to unsigned types
      after the conversion due to the underlying
 functions,
      so it's better to document these as the underlying functions,
      specifying the types.

cmsg.3
unix.7

Michael Kerrisk
Refer to seccomp_unotify(2) for an example of SCM_RIGHTS usage

cpow.3
Alejandro Colomar
Use 'complex' after the type consistently

ctime.3
Michael Kerrisk [Katsuhiro Numata]
Restore documentation of 'tm_gmtoff' field

errno.3
Alejandro Colomar [Florian Weimer, Mark Kettenis]
Fix ENODATA text
ENODATA is an XSI STREAMS extension (not base POSIX).

exec.3
Josh Triplett [Alejandro Colomar]
Clarify that execvpe() uses PATH from the caller, not envp
Josh Triplett [Alejandro Colomar]
Fix description of 'e' variants
The envp argument specifies the environment of the new process
image, not "the environment of the caller".

fflush.3
Alejandro Colomar
SEE ALSO: Add fpurge(3)

getline.3
[Ahelenia Ziemiaska, Alejandro
Colomar]
!*lineptr is sufficient
No implementation or spec requires *n to be 0 to allocate
a new buffer.

getopt.3
James O. D. Hunt [Alejandro Colomar]
Clarify behaviour

printf.3
Utkarsh Singh [Alejandro Colomar]
Add overall structure of format string

pthread_attr_setinheritsched.3
pthread_attr_setschedparam.3
Alejandro Colomar
SYNOPSIS: Use 'restrict' in prototypes

pthread_mutexattr_setrobust.3
  Michael Kerrisk
    Note that the *_np() APIs are deprecated since glibc 2.34
  Alejandro Colomar
    SYNOPSIS: Remove incorrect 'const'

pthread_mutex_consistent.3
  Michael Kerrisk
    Note that pthread_mutexattr_setrobust() is now deprecated

pthread_yield.3
  Michael Kerrisk
    Note that this function is deprecated since glibc 2.34

rpc.3
  Alejandro Colomar
    SYNOPSIS: Fix prototypes (misc.)

scanf.3
  Alyssa Ross [Alejandro Colomar]
    Clarify that %n supports type modifiers

xdr.3
   Alejandro Colomar
    SYNOPSIS: Fix prototype types
      Use the same types glibc uses, and add a missing 'const'.

capabilities.7
  Michael Kerrisk
    CAP_IPC_LOCK also governs memory allocation using huge pages

environ.7
  Josh Triplett [Alejandro Colomar]
    Remove obsolete admonishment of the GZIP environment variable

kernel_lockdown.7
  dann frazier [Alejandro Colomar]
    Remove description of lifting via SysRq (not upstream)
      The patch that implemented lockdown lifting via SysRq ended up
      getting dropped[*] before the feature was merged upstream. Having
      the feature documented but unsupported has caused some confusion
      for our users.

mount_namespaces.7
namespaces.7
  Michael Kerrisk
    Relocate reference to pam_namespace(8) from namespaces.7 to
    mount_namespaces.7.

signal.7
  Michael Kerrisk
    Add reference to seccomp_unotify(2)
      The seccomp user-space notification
 feature can cause changes in
      the semantics of SA_RESTART with respect to system calls that
      would never normally be restarted. Point the reader to the page
      that provide further details.

vsock.7
  Alyssa Ross
    ioctls are on /dev/vsock, not sockets

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* /man-pages-5-13-tar-gz/man-pages-5.13/man3/stailq.3
* /man-pages-5-13-tar-gz/man-pages-5.13/man7/queue.7
*
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1.254 tiff 4.3.0

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1.255 alsa-ucm-conf 1.2.6.3

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1.256 python3-gitdb 4.0.9

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1.257 python3-attrs 21.4.0

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1.258 subversion 1.14.2

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1.260 python3-grpcio 1.45.0

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/grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/util/field_mask_util.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/reflection_tester.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/stubs/status_macros.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/stubs/stl_util.h
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/repeated_field_unittest.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/package_info.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/map_lite_unittest.proto
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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/grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/util/json_format.proto
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/util/internal/type_info.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/repeated_ptr_field.h

* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_message.cc
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/grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/stubs/common_unittest.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_extension.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/compiler/java/java_shared_code_generator.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/generated_message_table_driven.cc
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_helpers.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/wrappers.proto
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/arena.h
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/util/type_resolver_util.cc
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_extension.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/util/internal/json_escaping.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/stubs/mathutil.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/util/internal/field_mask_utility.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_enum.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_primitive_field.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/stubs/status_test.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/stubs/time.h
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/compiler/python/python_generator.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/stubs/bytestream.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/stubs/once.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/map_entry_lite.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/compiler/command_line_interface_unittest.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/util/internal/default_value_objectwriter.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/descriptor_database.cc
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/grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/field_mask.proto
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/stubs/stringpiece.cc
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/grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/compiler/java/java_enum.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_tools/_proto/google/protobuf/type.proto

* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/compiler/command_line_interface.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_source_generator_base.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/third_party/protobuf/src/google/protobuf/dynamic_message.h
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Found in path(s):
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/test/mock_stream.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/support/sync_custom.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/fork.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/load_reporting.h
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 /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/sync_custom.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/channel_argument_option.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/support/error_details.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/fork.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/byte_buffer.h
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```
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1.45.0/third_party/protobuf/src/google/protobuf/compiler/zip_output_unittest.sh
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
1.45.0/third_party/protobuf/src/google/protobuf/io/gzip_stream_unittest.sh
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/impl/serialization_traits.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/impl/codegen/method_handler_impl.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/security/auth_metadata_processor.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/impl/codegen/create_auth_context.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/health_check_service_interface.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/impl/rpc_method.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/impl/codegen/slice.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/impl/server_initializer.h
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/support/thd_id.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/test/server_context_test_spouse.h

* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/security/server_credentials.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/support/server_callback.h
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*
/grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/impl/codegen/config.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/impl/server_builder_plugin.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/client_context.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc++/impl/codegen/call_hook.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/call_op_set_interface.h
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/server_interceptor.h
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/sync_stream.h
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/channel_interface.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/grpc_security_constants.h
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 /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/test/server_context_test_spouse.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/php_generator.h
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/create_channel_posix.h
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/core_codegen.h
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/status.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/php_generator_helpers.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/propagation_bits.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/rpc_service_method.h

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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/resource_quota.h
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/health_check_service_interface.h
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/grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/config.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/connectivity_state.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/node_generator.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/sync.h
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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/grpc.h
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*/
/// If set, grpc is free to use the HTTP GET verb for sending the request,

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* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/event_engine/event_engine.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/event_engine/endpoint_config.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/event_engine/port.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_tools/test/simple.proto
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/xds_server_builder.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/security/authorization_policy_provider.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_tools/test/complicated.proto
*
 /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/ext/admin_services.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-
1.45.0/grpc_root/include/grpc/event_engine/internal/memory_allocator_impl.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/security/tls_certificate_verifier.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_tools/main.cc
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.2
Name: grpcio-tools
Version: 1.45.0
Summary: Protobuf code generator for gRPC
Home-page: https://grpc.io

Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Description: gRPC Python Tools
    ==========

    Package for gRPC Python tools.

    Supported Python Versions

    Python >= 3.6

    Installation

    The gRPC Python tools package is available for Linux, Mac OS X, and Windows.

    Installing From PyPI
    ~~~~~~~~~~~~~~~~~~~~

    If you are installing locally...

    ::

      $ pip install grpcio-tools

    Else system wide (on Ubuntu)...

    ::

      $ sudo pip install grpcio-tools

    If you're on Windows make sure that you installed
 the :code:`pip.exe` component
    when you installed Python (if not go back and install it!) then invoke:

    ::

      $ pip.exe install grpcio-tools

    Windows users may need to invoke :code:`pip.exe` from a command line ran as
    administrator.

    n.b. On Windows and on Mac OS X one *must* have a recent release of :code:`pip`
    to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest
    version!

    You might also need to install Cython to handle installation via the source
    ~~~~~~~~~~~~~~~~~~~~

distribution if gRPC Python's system coverage with wheels does not happen to
include your system.

Installing From Source
~~~~~~~~~~~~~~~~~~~~~~

Building from source requires that you have the Python headers (usually a
package named :code:`python-dev`) and Cython installed. It further requires a
GCC-like compiler to go smoothly; you can
probably get it to work without
GCC-like stuff, but you may end up having a bad time.

::

```
$ export REPO_ROOT=grpc  # REPO_ROOT can be any directory of your choice
$ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT
$ cd $REPO_ROOT
$ git submodule update --init

$ cd tools/distrib/python/grpcio_tools
$ python ../make_grpcio_tools.py

# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .
```

You cannot currently install Python from source on Windows. Things might work
out for you in MSYS2 (follow the Linux instructions), but it isn't officially
supported at the moment.

Troubleshooting
~~~~~~~~~~~~~~~

Help, I ...

* **... see a** :code:`pkg_resources.VersionConflict` **when I try
to install
grpc**

This is likely because :code:`pip` doesn't own the offending dependency,
which in turn is likely because your operating system's package manager owns
it. You'll need to force the installation of the dependency:

:code:`pip install --ignore-installed $OFFENDING_DEPENDENCY`

For example, if you get an error like the following:

::

Traceback (most recent call last):
File "<string>", line 17, in <module>
...
File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
raise VersionConflict(dist, req)
pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))

You can fix it by doing:

::

sudo pip install --ignore-installed six

* **... see compiler errors
on some platforms when either installing from source or from the source distribution**

If you see

::

/tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
#include "Python.h"
^
compilation terminated.

You can fix it by installing `python-dev` package. i.e

::

sudo apt-get install python-dev

If you see something similar to:

::

third_party/protobuf/src/google/protobuf/stubs/mathlimits.h:173:31: note: in expansion of macro 'SIGNED_INT_MAX'
static const Type kPosMax = SIGNED_INT_MAX(Type); \\
^

And your toolchain is GCC (at the time of this writing, up through at least
GCC 6.0), this is probably a bug where GCC chokes on constant expressions
when the :code:`-fwrapv` flag is specified. You should consider setting your
environment with :code:`CFLAGS=-fno-wrapv` or using clang (:code:`CC=clang`).

Usage

Given protobuf include directories :code:`$INCLUDE`, an output directory
:code:`$OUTPUT`, and proto files :code:`$PROTO_FILES`, invoke as:

::

```
 $ python -m grpc_tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT
$PROTO_FILES
```

To use as a build step in distutils-based projects, you may use the provided
command class in your :code:`setup.py`:

::

```
 setuptools.setup(
   # ...
   cmdclass={
    'build_proto_modules': grpc_tools.command.BuildPackageProtos,
   }
   # ...
 )
```

Invocation of the command will walk the project tree and transpile every
:code:`.proto`
file into a :code:`_pb2.py` file in the same directory.

Note that this particular approach requires :code:`grpcio-tools` to be
installed on the machine before the setup script is invoked (i.e. no
combination of :code:`setup_requires` or :code:`install_requires` will provide
access to :code:`grpc_tools.command.BuildPackageProtos` if it isn't already
installed). One way to work around this can be found in our
:code:`grpcio-health-checking`
`package <https://pypi.python.org/pypi/grpcio-health-checking>`_:

::

```
 class BuildPackageProtos(setuptools.Command):
   """Command to generate project *_pb2.py modules from proto files."""
   # ...
   def run(self):
     from grpc_tools import command
     command.build_package_protos(self.distribution.package_dir[''])
```

Now including :code:`grpcio-tools` in :code:`setup_requires` will provide the
command on-setup as desired.

For more information on command classes, consult :code:`distutils` and
:code:`setuptools` documentation.

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3
Classifier: License :: OSI Approved :: Apache Software License
Requires-Python: >=3.6

Found in path(s):
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/PKG-INFO
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpcio_tools.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

/*
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* Copyright 2015 gRPC authors.
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* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
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*   http://www.apache.org/licenses/LICENSE-2.0
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */

Found in path(s):
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/grpc_types.h
No license file was found, but licenses were detected in source scan.

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You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/protoc_lib_deps.py
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_tools/test/BUILD.bazel
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/BUILD
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_tools/_protoc_compiler.pyx
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/_parallel_compile_patch.py
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_version.py

* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/setup.py
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_tools/__init__.py
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_tools/test/protoc_test.py
*
 /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_tools/protoc.py
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_tools/command.py
No license file was found, but licenses were detected in source scan.

```
/*
*
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* You may obtain a copy of the License at
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
*/
```

Found in path(s):
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/support/channel_arguments.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/async_unary_call.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/server_builder_option.h
*
 /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/byte_buffer_reader.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/completion_queue.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/support/workaround_list.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/support/string_util.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/client_unary_call.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/server_interface.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/objective_c_plugin.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/ruby_generator.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/generic/generic_stub.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/metadata_map.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/grpcpp.h
*
 /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/cpp_plugin.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/server_context.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/sync_posix.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/core_codegen_interface.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/slice.h

* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/schema_interface.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/string_ref.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/rpc_method.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/support/atm.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/python_generator_helpers.h
*
 /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/proto_utils.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/support/async_stream.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/alarm.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/support/log_windows.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/time.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/serialization_traits.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/method_handler.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/grpc_library.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/support/time.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/async_generic_service.h
*
 /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/security/server_credentials.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/channel.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/create_auth_context.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/cpp_generator.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/support/interceptor.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/slice.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/python_private_generator.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/csharp_generator.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/python_generator.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/proto_buffer_reader.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/support/slice.h
*
 /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/ruby_generator_helpers-inl.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/status.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/support/method_handler.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/ruby_generator_map-inl.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/completion_queue_tag.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/objective_c_generator_helpers.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/csharp_generator.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/support/sync_stream.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/create_channel.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/atm.h
*
 /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/python_generator.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/server.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/support/log.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/call_hook.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/node_plugin.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/grpc_security.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/slice_buffer.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/support/stub_options.h

* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/support/time.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/slice.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/protobuf_plugin.h
*
 /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/support/status.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/sync_generic.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/method_handler_impl.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/service_type.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/byte_buffer.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/support/atm_windows.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/byte_buffer_reader.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/compression.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/log.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/config_protobuf.h
*
 /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/call.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/impl/codegen/stub_options.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/objective_c_generator.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/support/alloc.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/support/server_interceptor.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/support/sync.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/support/status_code_enum.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/atm_windows.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/ext/proto_server_reflection_plugin.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/status.h
*
 /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/byte_buffer.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/port_platform.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpcpp/security/auth_metadata_processor.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/support/sync_windows.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/csharp_generator_helpers.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/include/grpc/impl/codegen/atm_gcc_atomic.h
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/python_plugin.cc
* /grpcio-tools-1-45-0-tar-gz/grpcio-tools-1.45.0/grpc_root/src/compiler/csharp_plugin.cc
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and valid for as
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Corresponding Source in
the same way through the same place at no
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1.265 libnewt 0.52.23

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1.266 s-nail 14.9.24

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1.268 colorama 0.4.6

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1.269 chardet 5.1.0

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1.270 rich 12.6.0

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

Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2		2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
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- Erik Rose
- Brian Rosner
- Vinay Sajip
- Victor Stinner
- Alexandre Vassalotti
- Nadeem Vawda
Metadata-Version: 1.0
Name: setuptools
Version: 0.6c9
Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!
Home-page: http://pypi.org/pypi/setuptools
Author: Phillip J. Eby
Author-email: distutils-sig@python.org
License: PSF or ZPL
Description: ================================

    Installing and Using Setuptools
    ================================

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

    Installation Instructions

    Windows
    =======

    Install setuptools using the provided ``.exe`` installer. If you've previously
    installed older versions of setuptools, please delete all ``setuptools*.egg``
    and ``setuptools.pth`` files from your system's ``site-packages`` directory
    (and any other ``sys.path`` directories) FIRST.

    If you are upgrading a previous version of setuptools that was installed using
    an ``.exe`` installer,
 please be sure to also *uninstall that older version*
    via your system's "Add/Remove Programs" feature, BEFORE installing the newer
    version.

Once installation is complete, you will find an ``easy_install.exe`` program in your Python ``Scripts`` subdirectory. Be sure to add this directory to your ``PATH`` environment variable, if you haven't already done so.

RPM-Based Systems
==========

Install setuptools using the provided source RPM. The included ``.spec`` file assumes you are installing using the default ``python`` executable, and is not specific to a particular Python version. The ``easy_install`` executable will be installed to a system ``bin`` directory such as ``/usr/bin``.

If you wish to install to a location other than the default Python installation's default ``site-packages`` directory (and ``$prefix/bin`` for scripts), please use the ``.egg``-based
installation approach described in the
following section.

Cygwin, Mac OS X, Linux, Other
==========

1. Download the appropriate egg for your version of Python (e.g. ``setuptools-0.6c9-py2.4.egg``). Do NOT rename it.

2. Run it as if it were a shell script, e.g. ``sh setuptools-0.6c9-py2.4.egg``. Setuptools will install itself using the matching version of Python (e.g. ``python2.4``), and will place the ``easy_install`` executable in the default location for installing Python scripts (as determined by the standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than ``site-packages`` or your default distutils installation locations for libraries and scripts, you may include EasyInstall command-line options such as ``--prefix``, ``--install-dir``, and so on, following the ``.egg`` filename
on the same
command line. For example::

sh setuptools-0.6c9-py2.4.egg --prefix=~

You can use ``--help`` to get a full options list, but we recommend consulting the `EasyInstall manual`_ for detailed instructions, especially `the section on custom installation locations`_.

.. _EasyInstall manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _the section on custom installation locations: http://peak.telecommunity.com/DevCenter/EasyInstall#custom-

installation-locations

Cygwin Note

If you are trying to install setuptools for the **Windows** version of Python
(as opposed to the Cygwin version that lives in ``/usr/bin``), you must make
sure that an appropriate executable (``python2.3``, ``python2.4``, or
``python2.5``) is on your **Cygwin** ``PATH`` when invoking the egg. For
example, doing the following at a Cygwin bash prompt will install setuptools
 for the **Windows** Python found at ``C:\\Python24``::

ln -s /cygdrive/c/Python24/python.exe python2.4
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg
rm python2.4

Downloads
=========

All setuptools downloads can be found at `the project's home page in the Python
Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: http://pypi.org/pypi/setuptools

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

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

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

---
Using
Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for
learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `Package Compatibility Notes`_ (user-maintained)
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig
mailing list`_. If you have written (or know of) any tutorials, documentation,
plug-ins, or other resources for setuptools users, please let us know about
them there, so this reference list can be updated. If you have working,
tested patches to correct problems or add features, you may submit them to
the `setuptools bug tracker`_.

.. _setuptools bug tracker: http://bugs.python.org/setuptools/
.. _Package Compatibility Notes: http://peak.telecommunity.com/DevCenter/PackageNotes
.. _The Internal Structure of Python Eggs: http://peak.telecommunity.com/DevCenter/EggFormats
.. _The setuptools Developer's Guide: http://peak.telecommunity.com/DevCenter/setuptools
.. _The pkg_resources API reference: http://peak.telecommunity.com/DevCenter/PkgResources
.. _The EasyInstall user's guide and reference manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

Credits
---

* The original design for the ``.egg`` format and the ``pkg_resources`` API was
co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first
version of ``pkg_resources``, and supplied the OS X operating system version
compatibility algorithm.

* Ian Bicking implemented many early "creature
comfort" features of
easy_install, including support for downloading via Sourceforge and
Subversion repositories. Ian's comments on the Web-SIG about WSGI
application deployment also inspired the concept of "entry points" in eggs,
and he has given talks at PyCon and elsewhere to inform and educate the
community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various
aspects of ``easy_install``, and supplied the doctests for the command-line
``.exe`` wrappers on Windows.

* Phillip J. Eby is the principal author and maintainer of setuptools, and
first proposed the idea of an importable binary distribution format for
Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open
Source Applications Foundation, to provide a plug-in infrastructure for the
Chandler PIM application.
In addition, many OSAF staffers (such as Mike
"Code Bear" Taylor) contributed their time and stress as guinea pigs for the
use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

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Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: Python Software Foundation License
Classifier: License :: OSI Approved :: Zope Public License
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Classifier: Topic :: System :: Systems Administration
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1.273 tzdata 2024a

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1.274 python3-django 3.2.23

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==========
Advice for new contributors
==========

New contributor and not sure what to do? Want to help but just don't know how
to get started? This is the section for you.

.. admonition:: Get up and running!

  If you are new to contributing to Django, the :doc:`/intro/contributing`
  tutorial will give you an introduction to the tools and the workflow.

This page contains more general advice on ways you can contribute to Django,
and how to approach that.

If you are looking for a reference on the details of making code contributions,
see the :doc:`/internals/contributing/writing-code/index` documentation.

First steps
==========

Start with these steps to discover Django's development process.

* **Triage tickets**

  If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you
  can reproduce it and it seems valid, make a note that you confirmed the bug
  and accept the ticket. Make sure the ticket is filed under the correct
  component
  area. Consider writing a patch that adds a test for the bug's
  behavior, even if you don't fix the bug itself. See more at
  :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity
  with the codebase and the process**

  Mark the appropriate flags if a patch needs docs or tests. Look through the
  changes a patch makes, and keep an eye out for syntax that is incompatible
  with older but still supported versions of Python. :doc:`Run the tests
  </internals/contributing/writing-code/unit-tests>` and make sure they pass.
  Where possible and relevant, try them out on a database other than SQLite.
  Leave comments and feedback!

* **Keep old patches up to date**

  Oftentimes the codebase will change between a patch being submitted and the
  time it gets reviewed. Make sure it still applies cleanly and functions as
  expected. Updating a patch is both useful and important! See more on
  :doc:`writing-code/submitting-patches`.

*
  Write some documentation

  Django's documentation is great but it can always be improved. Did you find
  a typo? Do you think that something should be clarified? Go ahead and
  suggest a documentation patch! See also the guide on
  :doc:`writing-documentation`.

  .. note::

     The `reports page`_ contains links to many useful Trac queries, including
     several that are useful for triaging tickets and reviewing patches as
     suggested above.

     .. _reports page: https://code.djangoproject.com/wiki/Reports

* **Sign the Contributor License Agreement**

  The code that you write belongs to you or your employer. If your
  contribution is more than one or two lines of code, you need to sign the

`CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough
explanation.

.. _CLA: https://www.djangoproject.com/foundation/cla/
.. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/
.. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
==========

As
a newcomer on a large project, it's easy to experience frustration. Here's
some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or
that you want to learn about**

You don't already have to be an expert on the area you want to work on; you
become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words.
When reading Trac, you need to take into account who says things, and when
they were said. Support for an idea two years ago doesn't necessarily mean
that the idea will still have support. You also need to pay attention to who
hasn't spoken -- for example, if an experienced contributor hasn't been
recently involved in a discussion, then a ticket may not have the support
required to get into
Django.

* **Start small**

It's easier to get feedback on a little issue than on a big one. See the
`easy pickings`_.

* **If you're going to engage in a big task, make sure that your idea has
support first**

This means getting someone else to confirm that a bug is real before you fix
the issue, and ensuring that there's consensus on a proposed feature before
you go implementing it.

* **Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this
ticket is correct" or "this patch needs work", but it's the only way the

project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain,
but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

* **Be patient**

It's not always easy for your ticket or your patch to be reviewed quickly. This isn't personal. There are a lot of tickets and pull requests to
get
through.

Keeping your patch up to date is important. Review the ticket on Trac to ensure that the *Needs tests*, *Needs documentation*, and *Patch needs improvement* flags are unchecked once you've addressed all review comments.

Remember that Django has an 8 month release cycle, so there's plenty of time for your patch to be reviewed.

Finally, a well-timed reminder can help. See :ref:`contributing code FAQ <new-contributors-faq>` for ideas here.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1
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A. HISTORY OF THE SOFTWARE
==========

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
the GPL. All Python licenses, unlike the GPL, let you distribute
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GPL-compatible licenses make it possible to combine Python with
other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer
has told CNRI's lawyer that 1.6.1
is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.

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1.277 protobuf-c 1.4.1

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1.278 intel-microcode 20240312

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1.279 linux-firmware 20240220

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WIS GO7007SB Public Linux Driver

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

CONFIG_HOTPLUG - Support for hot-pluggable devices
CONFIG_MODULES - Enable loadable module support
CONFIG_KMOD - Automatic kernel module loading
CONFIG_FW_LOADER - Hotplug firmware loading support
CONFIG_I2C - I2C support

CONFIG_VIDEO_DEV - Video For Linux
CONFIG_SOUND - Sound card support
CONFIG_SND - Advanced Linux Sound Architecture
CONFIG_USB - Support for Host-side USB
CONFIG_USB_DEVICEFS - USB device filesystem
CONFIG_USB_EHCI_HCD - EHCI
HCD (USB 2.0) support

Additionally, to use the example application, the following options need to
be enabled in the ALSA section:

CONFIG_SND_MIXER_OSS - OSS Mixer API
CONFIG_SND_PCM_OSS - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed.
These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>.
Hotplugging is used for loading firmware into the Cypruss EZ-USB chip using
fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules
will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the
currently-running kernel, or if the module should be built for a kernel
other than the currently-running kernel, an additional
parameter will need
to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be
installed by running:

```
$ make install
```

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra"
and the firmware files will be placed in the appropriate hotplug firmware
directory, usually /lib/firmware. In addition, USB maps and scripts will
be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB
control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about
the local TV standards be passed to the driver in order
to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

TV band	force_band
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are
several stereo audio carrier systems in use, including NICAM and
three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

TV band	Audio subcarrier	force_mpx_mode
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4

PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with
only compressed formats supported, the new driver
should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified

number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The
V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel
16-bit
little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any
or all fields can be set
to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

__u32 gop_size — The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.

__u32 max_b_frames — The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)

enum go7007_aspect_ratio aspect_ratio — The aspect ratio to be encoded in the meta-data of the compressed format.

Choices are:

GO7007_ASPECT_RATIO_1_1
GO7007_ASPECT_RATIO_4_3_NTSC
GO7007_ASPECT_RATIO_4_3_PAL
GO7007_ASPECT_RATIO_16_9_NTSC
GO7007_ASPECT_RATIO_16_9_PAL

__u32 flags — Bit-wise OR of control flags (below)

Flags in struct go7007_comp_params:

GO7007_COMP_CLOSED_GOP — Only produce self-contained GOPs, used to produce streams appropriate for random seeking.

GO7007_COMP_OMIT_SEQ_HEADER Omit the stream sequence header.

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

enum go7007_mpeg_video_standard
mpeg_video_standard The MPEG video standard in which to compress the video.

Choices are:
GO7007_MPEG_VIDEO_MPEG1

GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4

__u32 flags Bit-wise OR of control flags (below)

__u32 pali The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream. Not valid for MPEG1.

Choices for MPEG2 are:
GO7007_MPEG2_PROFILE_MAIN_MAIN

Choices for MPEG4 are:
GO7007_MPEG4_PROFILE_S_L0
GO7007_MPEG4_PROFILE_S_L1

GO7007_MPEG4_PROFILE_S_L2
GO7007_MPEG4_PROFILE_S_L3
GO7007_MPEG4_PROFILE_ARTS_L1
GO7007_MPEG4_PROFILE_ARTS_L2
GO7007_MPEG4_PROFILE_ARTS_L3
GO7007_MPEG4_PROFILE_ARTS_L4
GO7007_MPEG4_PROFILE_AS_L0
GO7007_MPEG4_PROFILE_AS_L1
GO7007_MPEG4_PROFILE_AS_L2
GO7007_MPEG4_PROFILE_AS_L3
GO7007_MPEG4_PROFILE_AS_L4
GO7007_MPEG4_PROFILE_AS_L5

Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE Force all compression parameters and bitrate control settings to comply

with DVD MPEG2 stream requirements.
This overrides most compression and
bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option
is enabled in the kernel
configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

```
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
```

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed

video devices
(xawtv and gorecord, for example).

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The
  install script should automatically detect whether the old hotplug
  scripts or the new udev rules should be used. To force the use of
  hotplug, run "make install USE_UDEV=n". To force the use of udev, run
  "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app
  for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can
  cause buffer overruns and frame drops, even at low framerates, due to
  inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height
  values of 96,
 128, 160, 192, 256, 320, and 384 do not work in NTSC mode.
  All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio
  or the TV tuner.
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*
* $Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
*/
File: LLM_sp_sha2.c

/*
 * FILE: sha2.h
* AUTHOR: Aaron D. Gifford <me@aarongifford.com>
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*
* $Id: sha2.h,v 1.1 2001/11/08 00:02:01 adg Exp adg $
*/
File: LLM_sp_sha2.h

==========

2.

/* utility to create the register check tables
* this includes inlined list.h safe for userspace.
*
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*
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*   Jerome
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*   Dave Airlie
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*/
File: comm_lib.h

==========

3.

/* crypto/aes/aes.h -*- mode:C; c-file-style: "eay" -*- */
/* ==
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*

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* ====================================================================
*
```

*/
File Name list: aes.h, aes_locl.h

==========

4.

/* crypto/aes/aes_core.c -*- mode:C; c-file-style: "eay" -*- */
/**
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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*/
File: aes_core.c

==========

5.

/*==========

EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes.h#1 $
$DateTime: 2006/12/11 00:43:21 $ $Author: davidf $

when who what, where, why

```
--------  ---     -------------------------------------------------------
11/12/04   rv      changes to correct LINT errors
02/02/04   rwh     Small mods to open
 source.

=====================================================================================*/

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  Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

*/
File: aes.h

/*=====================================================================================

                    EDIT HISTORY FOR FILE

 $Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes_tab.h#1 $
 $DateTime: 2006/12/11 00:43:21 $ $Author: davidf $

when       who     what, where, why
--------   ---     -------------------------------------------------------
11/12/04   rv      changes to correct LINT errors
02/02/04
   rwh     Small mods to open source.

=====================================================================================*/
/*lint -e146 -e303 */
/* 146: Assuming a binary constant */
/* 303: String too long (try +macros) */


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```

*/
File: aes_tab.h

==
6.
==
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#
#
#
==
File: Conftest.py

==
7.
==
/ ***
*
* Fowler/Noll/Vo- hash
*
* The basis of this hash algorithm was taken from an idea sent
* as reviewer comments to the IEEE POSIX P1003.2 committee by:
*
*   Phong Vo (http://www.research.att.com/info/kpv/)
*   Glenn Fowler (http://www.research.att.com/~gsf/)

```
*
* In a subsequent ballot round:
*
*      Landon Curt Noll (http://www.isthe.com/chongo/)
*
* improved on their algorithm.  Some people tried this hash
* and found that it worked rather well.  In an EMail message
* to Landon, they named it the ``Fowler/Noll/Vo'' or FNV hash.
*
* FNV hashes are designed to be fast while maintaining a low
* collision rate. The FNV speed allows one to quickly hash
 lots
* of data while maintaining a reasonable collision rate.  See:
*
*      http://www.isthe.com/chongo/tech/comp/fnv/index.html
*
* for more details as well as other forms of the FNV hash.
*
*
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*
* By:
* chongo <Landon Curt Noll> /\oo/\
*      http://www.isthe.com/chongo/
*
* Share and Enjoy! :-)
*/
File: fm_fnv_hash.h, fm_fnv_hash.c

================================================================================
8.
================================================================================

/*
 *  $Header: //source/qcom/qct/core/api/kernel/main/latest/libstd/stringl/stringl.h#13 $
*  $DateTime: 2013/07/24 11:35:54 $
*/

/* $OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp $ */
/* $NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp $ */
```

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*
* @(#)string.h 5.10 (Berkeley) 3/9/91
*/
File: stringl.h

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9.
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* @(#)string.h 5.10 (Berkeley) 3/9/91
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==========

File:
 atomic_ops.h

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/*
* Author: Malcolm
 Purvis <malcolmp@ok-labs.com>
* Author: Carlos Dyonisio <medaglia@ok-labs.com>
*/
==========

File: qurt_atomic_ops.h

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/*
* Author: Malcolm Purvis <malcolmp@ok-labs.com>
*
* This file is only included by the main atomic_ops.h, so all of that
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File: htt_common.h

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File:
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File: ipv6.h

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==========

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```

```
*/
================================================================================
File: stail_queue.h

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//
//  @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
// $Id: //components/rel/wlanfw_cmn.cnss/1.0/cnss_proc/wlan/fwcommon/include/queue.h#1 $
//
================================================================================
File:
 targaddrs.h

/*
```

```
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File: aes_gcm.h

*/
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* Galois/Counter Mode (GCM) and GMAC with AES
*
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File: aes_wrap.h

*/
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/*
* AES-based functions
*
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* -
AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
* Copyright (c) 2003-2005, Jouni Malinen <jkmaline@cc.hut.fi>
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==
File: sha2.h

/*
* FILE: sha2.h
* AUTHOR: Aaron D. Gifford - http://www.aarongifford.com/

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*
* $Id: //depot/sw/branches/qca_rome_main/perf_pwr_offload/drivers/target/include/sha2.h#1 $
*/
==========
File: wal_dfs.h

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File: if_ethersubr.h

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//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_ethersubr.h#3 $
//

==========

File: wal_dfs.c

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File: ieee_crc32.c

/*
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* code or tables extracted from it, as desired without
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*
* First, the polynomial itself and its table of feedback terms. The
* polynomial is
* X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
*
* Note that we take it "backwards" and put the highest-order term in
* the lowest-order bit. The X^32 term is "implied"; the LSB is the
* X^31 term, etc. The X^0 term (usually shown as "+1") results in
* the MSB being 1
*
* Note that the usual hardware shift register implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way

```
*  we hand it to the UART in the order low-byte to high-byte; the UART
*  sends each low-bit
 to hight-bit; and the result is transmission bit
*  by bit from highest- to lowest-order term without requiring any bit
*  shuffling on our part.  Reception works similarly
*
*  The feedback terms table consists of 256, 32-bit entries.  Notes
*
*      The table can be generated at runtime if desired; code to do so
*      is shown later.  It might not be obvious, but the feedback
*      terms simply represent the results of eight shift/xor opera
*      tions for all combinations of data and CRC register values
*
*      The values must be right-shifted by eight bits by the "updcrc
*      logic; the shift must be unsigned (bring in zeroes).  On some
*      hardware you could probably optimize the shift in assembler by
*      using byte-swap instructions
*      polynomial $edb88320
*
*
* CRC32 code derived from work by Gary S. Brown.
*/
```

```
==========================================================================
File: aes.c

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/*
* AES (Rijndael) cipher
*
* Modifications to public domain implementation:
* - support only 128-bit keys
* - cleanup
* - use C pre-processor to make it easier to change S table access
* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at
*   cost of reduced throughput (quite small difference on Pentium 4,
*   10-25% when using -O1 or -O2 optimization)
*
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*/

/*
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael
 cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*/
==========
File: aes_gcm.c

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* Galois/Counter Mode (GCM) and GMAC with AES
*
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* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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File: common.h

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* wpa_supplicant/hostapd / common helper functions, etc.
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File: md5.c

```
//
//
 $Id: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/src/misc/crypto/md5.c#1 $
//
// This code implements the MD5 message-digest algorithm.
// The algorithm is due to Ron Rivest.  This code was
// written by Colin Plumb in 1993, no copyright is claimed.
// This code is in the public domain; do with it what you wish.
//
// 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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File: wmi_tlv_helper.c

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File: hca_HwComponentBbLithium_dfs_phyerr_tlv.cpp

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File: hca_HwComponentBbLithium_dfs_process_radarevent.cpp

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File: hca_HwComponentBbLithium_dfs_radar_report.h
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File: phyUtilsStrlcpy.c

/* $OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert Exp $ */

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File: dfs_init.c

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//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19 thorpej Exp $
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
//

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*
* @(#)if_llc.h 8.1 (Berkeley) 6/10/93
* $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
*/

==========

File: qvit_init_api.h

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File: sha2.c

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* WPA Supplicant / wrapper functions for crypto libraries
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*
* This file defines the cryptographic
 functions that need to be implemented
* for wpa_supplicant and hostapd. When TLS is not used, internal

* implementation of MD5, SHA1, and AES is used and no external libraries are
* required. When TLS is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the
* crypto library used by the TLS implementation is expected to be used for
* non-TLS needs, too, in order to save space by not implementing these
* functions twice.
*
* Wrapper code for using each crypto library is in its own file (crypto*.c)
* and one of these files is build and linked in to provide the functions
* defined here.
*/

==========

File: fils.c

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File:
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```
* WPA/RSN - Shared functions for supplicant and authenticator
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File: mywpa_common.h

```
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* WPA definitions shared between hostapd and wpa_supplicant
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File: sha256-kdf.c

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* HMAC-SHA256 KDF (RFC 5295) and HKDF-Expand(SHA256) (RFC 5869)
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File: sha384-internal.c

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File: sha512_i.h

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Firmware provided as part of an XC4000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@kernellabs.org> on July 1, 2009.

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/* zlib.h -- interface of the 'zlib' general purpose compression
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version 1.2.3, July 18th, 2005

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

//
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//
/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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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.
*/

/*
* Written by Aaron D. Gifford <me@aarongifford.com>
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*/

/*-
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* code or tables extracted from it, as desired without restriction.
*
* First, the polynomial itself and its table of feedback terms. The
* polynomial is
* X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
*
* Note that we take it "backwards" and put the highest-order term in
* the lowest-order bit. The X^32 term is "implied"; the LSB is the
* X^31 term, etc. The X^0 term (usually shown as "+1") results in
* the MSB being 1
*
* Note that the usual hardware shift register implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order
 term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way
* we hand it to the UART in the order low-byte to high-byte; the UART

```
*  sends each low-bit to hight-bit; and the result is transmission bit
*  by bit from highest- to lowest-order term without requiring any bit
*  shuffling on our part.  Reception works similarly
*
*  The feedback terms table consists of 256, 32-bit entries.  Notes
*
*      The table can be generated at runtime if desired; code to do so
*      is shown later.  It might not be obvious, but the feedback
*      terms simply represent the results of eight shift/xor opera
*      tions for all combinations of data and CRC register values
*
*      The values must be right-shifted by eight bits by the "updcrc
*      logic; the shift must be unsigned (bring in zeroes).  On some
*      hardware you could probably optimize the shift in assembler by
*      using byte-swap instructions
*      polynomial
 $edb88320
*
```

```
/*
  The AES algorithm Rijndael implemented for block and key sizes of 128,
  192 and 256 bits (16, 24 and 32 bytes) by Brian Gladman.

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  for some ideas that are used in this implementation.

  Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.
```

```
/*
* hash_32 - 32 bit Fowler/Noll/Vo hash code
*
* Fowler/Noll/Vo hash
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*

/*
* sha1.c
*
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*
* Modified by Aaron D. Gifford <agifford@infowest.com>
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/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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--------------------------------------------------------------------------
/*
* hmac_sha1.c
*
* Version
 1.0.0
*
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Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org>
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```
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```
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* EAP peer state machines (RFC 4137)
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*
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* - AES-128 CTR mode encryption
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 crypto.h

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* This file defines the cryptographic functions that need to be implemented
* for wpa_supplicant and hostapd. When TLS is not used,
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* implementation of MD5, SHA1, and AES is used and no external libraries are
* required. When TLS is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the
* crypto library used by the TLS implementation is expected to be used for
* non-TLS needs, too, in order to save space by not implementing these
* functions twice.
*
* Wrapper code for using each crypto library is in its own file (crypto*.c)
* and one of these files is build and linked in to provide the functions
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*/
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File: common.h

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File: atomic_ops.h

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*/
/*
* Author: Malcolm Purvis <malcolmp@ok-labs.com>
* Author: Carlos Dyonisio <medaglia@ok-labs.com>
*/

==========

File: qurt_atomic_ops.h

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*/
/*
* Author: Malcolm Purvis <malcolmp@ok-labs.com>
*
* This file is only included by the main atomic_ops.h, so all of that
* file's definitions are available.
*/

==========

File: ieee_crc32.c

/*
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* code or tables extracted from it, as desired without restriction.
*
* First, the polynomial itself and its table of feedback terms. The
* polynomial is
* X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
*
* Note that we take it "backwards" and put the highest-order term in
* the lowest-order bit. The X^32 term is "implied"; the LSB is the
* X^31 term, etc. The X^0 term (usually shown as "+1") results in
* the MSB being 1
*
* Note that the usual hardware shift register
 implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in

```
*  order from highest-order term to lowest-order term.  UARTs transmit
*  characters in order from LSB to MSB.  By storing the CRC this way
*  we hand it to the UART in the order low-byte to high-byte; the UART
*  sends each low-bit to hight-bit; and the result is transmission bit
*  by bit from highest- to lowest-order term without requiring any bit
*  shuffling on our part.  Reception works similarly
*
*  The feedback terms table consists of 256, 32-bit entries.  Notes

*
*     The table can be generated at runtime if desired; code to do so
*     is shown later.  It might not be obvious, but the feedback
*     terms simply represent the results of eight shift/xor opera
*     tions for all combinations of data and CRC register values
*
*     The values must be right-shifted by eight bits by the "updcrc
*     logic; the shift must be unsigned (bring in zeroes).  On some
*     hardware you could probably optimize the shift in assembler by
*     using byte-swap instructions
*     polynomial $edb88320
*
*

* CRC32 code derived from work by Gary S. Brown.
*/

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

File: sha2.h

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File: stringl.h

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/* $NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp $ */
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* @(#)string.h 5.10 (Berkeley) 3/9/91

*/

==========

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stail_queue.h

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//
//  @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
```

==========

File:
 phyUtilsStrlcpy.c

```
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File: platform_cmnos_printf.c

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==========

File: strlcat.c

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File: strlcpy.c

/* $OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert Exp $ */
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File: strnlen.c

```
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*/
/* OPENBSD ORIGINAL: lib/libc/string/strnlen.c */
```

==========

File: wcslcat.c

```
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File: wcslcpy.c

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File: wstrlcat.c

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==========

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File: aes_siv.h

```
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/* ===== start - public domain SHA256 implementation ===== */

/* This is based on SHA256 implementation in LibTomCrypt that was released into
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*/
```

==========

File: sha384-internal.c

```
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* SHA-384 hash implementation and interface functions
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/* This is based on SHA384 implementation in LibTomCrypt that was released into
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File: sha512-internal.c

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// This code implements the MD5 message-digest algorithm.
// The algorithm is due to Ron Rivest.  This code was
// written by Colin Plumb in 1993, no copyright is claimed.
// This code is in the public domain; do with it what you wish.
//
// 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.
//
// This code implements the MD5 message-digest algorithm.
// The algorithm is due to Ron Rivest.  This code was
// written by Colin Plumb in 1993, no copyright is claimed.
// This code is in the public domain; do with it what you wish.
//
// 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
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/*
* Galois/Counter Mode (GCM) and GMAC with AES
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File:
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File: wlan_p2p_listen_offload_int.c

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File:
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```
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File: m1_m4_frame.c

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File: my_nan_sec.c

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/*
* WPA Supplicant - WPA state machine and EAPOL-Key processing
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htc_services.h

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File:
 wmi_port.h

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File: wmi_unified_priv.h

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File: wmi_vendor.h

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File:aes.c

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/*
* AES (Rijndael) cipher
*
* Modifications to public domain implementation:
* - support only 128-bit keys
* - cleanup
* - use C pre-processor to make it easier to change S table access
* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at
*   cost of reduced throughput (quite small difference on Pentium 4,
*   10-25% when using -O1 or -O2 optimization)
*
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/*
* rijndael-alg-fst.c
*
* @version 3.0
 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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File: wmi_tlv_helper.c

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File: dfs_ioctl.h

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File: dfs_ioctl_private.h

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File:
qdf_net_types.h

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File: cds_reg_service.h

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File: qdf_status.h

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File:

cds_reg_service.c

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File: dfs_bindetects.c

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File: dfs.c

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File: dfs_fcc_bin5.c

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File:

dfs_misc.c

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File: sha2.c

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File: wmi_tlv_helper.h

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File: stail_queue.h

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//
//  @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
// $Id: //components/rel/wlanfw_cmn.cnss/1.0/cnss_proc/wlan/fwcommon/include/queue.h#1 $
//

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

File: queue.h

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File: ipv4.h

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```
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File: dbglog.h

```
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```

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==========

File: wlan_nan_msg_common.h

```
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File: wlan_nan_msg_common_v2.h

```
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File: dbglog_id.h

```
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```
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```
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File: htt_common.h

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htc_services.h

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File:
wmi_unified_vendor.h

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File: strlcpy.c

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File: program_xml.py

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File:
 interrupt_xml.py

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File: machine_xml.py

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File: wstrlcat.c

/* $OpenBSD: strlcat.c,v 1.13 2005/08/08 08:05:37 espie Exp $ */

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File: stringl.h

/*

```
*  $Header: //components/rel/core.riscv/1.0/api/kernel/libstd/stringl/stringl.h#2 $
*  $DateTime: 2019/11/15 03:07:20 $
*/

/* $OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp $ */
/* $NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp $ */

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*
* @(#)string.h 5.10
 (Berkeley) 3/9/91
*/

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

File: ezxml.py

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File: merge.py

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File: dlfcn.h

```
/*  $NetBSD: dlfcn.h,v 1.17.2.1 2005/03/21 21:25:37 jwise Exp $ */

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File: md5.h

/*=====================================================================
MD5.H - header file for MD5C.C
```

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File: zconf.h

/* zconf.h -- configuration of the zlib compression library
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*/

/* @(#) $Id: //components/rel/core.wpss/1.0/api/services/zconf.h#1 $ */

File: zlib.h

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.7, May 2nd,
2012

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

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

File: exec_elf.h

/* $NetBSD: exec_elf.h,v 1.81 2005/02/26 22:25:34 perry Exp $ */

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File: headers.c

/* $NetBSD: headers.c,v 1.20 2005/01/09 12:43:23 simonb Exp $ */

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/*
* Dynamic linker for ELF.
*
* John Polstra <jdp@polstra.com>.
*/

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

File: wcslcpy.c

/*
*  $Header: //components/rel/core.wpss/1.0/kernel/libstd/src/wcslcpy.c#1 $
*  $DateTime: 2020/07/06 22:28:14 $
*/

/* $OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert Exp $ */

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File: qurt_atomic_ops.h

```
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File: atomic_ops.h

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File: symbol.c

/* $NetBSD: symbol.c,v 1.38.2.1 2005/12/06 23:31:32 tron Exp $ */

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File: wstrlcpy.c

/*
* $Header: //components/rel/core.wpss/1.0/kernel/libstd/src/wstrlcpy.c#1 $
* $DateTime: 2020/07/06 22:28:14 $
*/

/* $OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert Exp $ */

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File: paths.c

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File: rtld_start.S

/* $NetBSD: rtld_start.S,v 1.8 2004/08/21 11:12:03 rearnsha Exp $ */

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/* $NetBSD: reloc.c,v 1.87 2005/01/09 14:58:15 martin Exp $ */

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File: strnlen.c

```
/*
*  $Header: //components/rel/core.wpss/1.0/kernel/libstd/src/strnlen.c#1 $
*  $DateTime: 2020/07/06 22:28:14 $
*/

/* $OpenBSD: strnlen.c,v 1.3 2010/06/02 12:58:12 millert Exp $ */

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/* OPENBSD ORIGINAL: lib/libc/string/strnlen.c */
```

==
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File: rtld.c

```
/*  $NetBSD: rtld.c,v 1.107.2.1 2006/02/01 20:38:06 tron Exp $   */

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File: debug.c

/* $NetBSD: debug.c,v 1.6 2004/10/22 05:39:56 skrll Exp $ */

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File: debug.h

/* $NetBSD: debug.h,v 1.5 2002/09/12 22:56:28 mycroft Exp $ */

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/* $NetBSD: rtld.h,v 1.71 2004/07/05 11:50:07 cube Exp $ */

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/*
* Description: Implementation of printf
*/

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File: sys_mmap.c

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File: qurt_printf.c

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File: alloc.c

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File: strlcatK.c

```
/* $OpenBSD: strlcat.c,v 1.13 2005/08/08 08:05:37 espie Exp $ */

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File: strlcpyK.c

```
/*============================================================================

                        strlcpyK.c
/*
*
*/

/* $OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38
 millert Exp $ */

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File: ecc_xml.py

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File: physpool_xml.py


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File:
 wlan_md_elf.h

/* $NetBSD: exec_elf.h,v 1.81 2005/02/26 22:25:34 perry Exp $ */

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File: secnlsfast.c

/* $Id: //components/rel/core.wpss/1.0/securemsm/crypto/shared/src/secnlsfast.c#1 $ */
/* nlsfast: NLS stream cipher and Mundja MAC -- fast implementation */

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File: curve25519.c

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/* This code is mostly taken from the ref10 version of Ed25519 in SUPERCOP
* 20141124 (http://bench.cr.yp.to/supercop.html).
*
* The field functions are shared by Ed25519 and X25519 where possible. */

==========

File: aes_core.h

Source:
https://source.codeaurora.org/quic/lc/native_client/pnacl-llvm-testsuite/
MultiSource/Benchmarks/MiBench/security-rijndael/aes.h

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File: mode_hdr.h

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Issue Date: 07/10/2010
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File: gcm_sw.h

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Issue Date: 11/01/2011

I am grateful for the work done by Mark Rodenkirch and Jason Papadopoulos
in helping to remove a bug in the operation of this code on big endian
systems when fast buffer operations are enabled.
---
*/

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File:
des_sw_cmn.c

```
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File: aes_sw_cmn.c

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File: gf128mul.c

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File: sha1_sw.c

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File: des_ecb_sw.c

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aes_ctr_sw.c

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File: gf_mul_lo.h
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File: inffast.c

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File: md32_common.h

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File: aes_cbc_cts_sw.c

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 pbkdf2.c

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File: inflate.c

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File: inflate.h

/* inflate.h -- internal inflate state definition
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File: aes_ccm_sw.c

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File: md5_sw.c

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File: inftrees.c

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File: hash.h

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File:ccm_sw.c

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Issue Date: 21/07/2009
*/

==

File: md5_sw_cmn.c

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* ==
*
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==
=

File: brg_endian.h

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Issue Date: 20/12/2007
*/

==========

File: trees.c

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2016 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions
of distribution and use, see copyright notice in zlib.h
*/

==========

File: ccm_sw.h

/*

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==========

File: des_cbc_sw.c

```
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* OF THE POSSIBILITY OF SUCH DAMAGE.
* ==
*
*/

==
========

File: zutil.h

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly.
* For conditions of distribution
 and use, see copyright notice in zlib.h
*/

==
========

File: brg_types.h

/*

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==========

File:
sha_sw_cmn.c

```
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* ==
*
*/

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

File: uncompr.c

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010-2016 Jean-loup Gailly.
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*/

==

File: sha2384_sw.c

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* ==
*
*/

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

File: gcm_sw.c

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Issue Date: 30/03/2011
*/

==========

File: adler32.c

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

==========

File: zutil.c

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2005, 2010, 2011, 2012-2016 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/

==========

File: compress.c

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2016 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/

==========

File: crc32.c

```
/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors.  This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

==========

File: deflate.c

```
/* deflate.c --
 compress data using the deflation algorithm
* Copyright (C) 1995-2016 Jean-loup Gailly and Mark Adler
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*/
```

==========

File: infback.c

```
/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
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*/
```

==========

File: deflate.h

```
/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
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*/
```

==========

File: gzguts.h

```
/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
 */
```

```
==========================================================================
```

File: inffast.h

```
/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

```
==========================================================================
```

File: md5c.c

```
/*====*====*====*====*====*====*====*====*====*====*====*====*====*====*====*
 MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm

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 documentation and/or software.
*/
```

```
==========================================================================
```

File: platform_cmnos_printf.c

```
/*-
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* The Regents of the University of California.  All rights reserved.
```

*
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*/

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

File: md5_api.h

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/*
* MD5 hash implementation and interface functions
* Copyright (c) 2003-2005, Jouni Malinen <jkmaline@cc.hut.fi>

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

File: if_ethersubr.h

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//
// $Id:
//components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_ethersubr.h
#3 $
//

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

File: aes_gcm.h

/* Galois/Counter Mode (GCM) and GMAC with AES
*
* Copyright (c) 2012, Jouni Malinen <j@w1.fi>
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==========
===

File: aes_wrap.h

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/*
* AES-based functions
*
*
* - AES Key Wrap Algorithm (128-bit
KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption

```
* - AES-128 CBC
*
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```

```
================================================================================
=
```

File: sha1.h

```
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* SHA1 hash implementation and interface functions
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*/
```

```
================================================================================
===
```

File: sha2.h

```
/*
* FILE:    sha2.h
* AUTHOR:  Aaron D. Gifford - http://www.aarongifford.com/
*
* Copyright (c) 2000-2001, Aaron D. Gifford
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```

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* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
 *
* $Id: //depot/sw/branches/qca_rome_main/perf_pwr_offload/drivers/target/include/sha2.h#1 $
*/

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

File: ieee_crc32.c

/*
* COPYRIGHT (C) 1986 Gary S. Brown. You may use this program, or
* code or tables extracted from it, as desired without restriction.
*

* CRC32 code derived from work by Gary S. Brown.
*/

==========

File: crypto.h

/*
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* WPA Supplicant / wrapper functions for crypto libraries
* Copyright (c) 2004-2005, Jouni Malinen <jkmaline@cc.hut.fi>
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==========
===

File: md5.c

//
//
// This code implements the MD5 message-digest algorithm.
// The algorithm is due to Ron Rivest. This code was
// written by Colin Plumb in 1993, no copyright is claimed.
// This code is in the public domain; do with it what you wish.
//
// 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.
//

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

File:
 sha1.c

/*

```
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===

File: aes.c

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/*
* AES (Rijndael) cipher
*
* Modifications to public domain implementation:
* - support only 128-bit
 keys
* - cleanup
* - use C pre-processor to make it easier to change S table access
* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at
*   cost of reduced throughput (quite small difference on Pentium 4,
*   10-25% when using -O1 or -O2 optimization)
*
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/*
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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File: aes_gcm.c

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File: aes_wrap.c

```
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/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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```
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```

File:
hca_HwComponentBbLithium_dfs_process_phyerr.cpp

```
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File:
hca_HwComponentBbLithium_dfs_process_radarevent.cpp

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File: wmi_tlv_helper.c

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==========

File: phyOsApiWindowsSem.c

```
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   Simple Windows replacement for POSIX semaphores
   Modified by Daniel Tillett from libpthread <http://github.com/songdongsheng/libpthread>
   Copyright (c) 2015, Daniel Tillett <daniel.tillett @ gmail.com>
*/
```

==========

File: phyOsApiWindowsSem.h

```
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Simple Windows replacement for POSIX semaphores
Modified by Daniel Tillett from libpthread <http://github.com/songdongsheng/libpthread>
Copyright (c) 2015, Daniel Tillett <daniel.tillett @ gmail.com>
*/

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

File: phyUtilsStrlcpy.c

/* $OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert Exp $ */

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File: wlan_defs.h

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File: dfs_nol.c

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File: qdf_status.h

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File: dfs_staggered.c

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File: wma_dfs_interface.h

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File: phyrf_dfs.c

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File: ath_dfs_structs.h

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File: dfs.c

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File: _ieee80211.h

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File: dfs.h

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File: dfs_bindetects.c

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File: dfs_interface.h

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File: cds_ieee80211_common.h

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File: dfs_debug.c

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File: dfs_ioctl.h

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File: dfs_ioctl_private.h

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File: cds_ieee80211_defines.h

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File: qdf_net_types.h

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File: cds_reg_service.h

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File: dfs_misc.c

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File: common.h

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 wpa_i.h

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//
// $Id:
//components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19 thorpej Exp $
// $Id:

//components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
//


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*
* @(#)if_llc.h 8.1 (Berkeley) 6/10/93
* $FreeBSD: src/sys/net/if_llc.h,v
 1.9 2002/09/23 06:25:08 alfred Exp $
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File: wlan_mlme_wmi.c

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File: wlan_p2p_listen_offload_int.h

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File: sha256-kdf.c

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File: sha2.c

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* FILE: sha2.c
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File: wlan_p2p_disc_offload_internal.h

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File: wmi_unified_priv.h

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/*
* Author: Malcolm Purvis <malcolmp@ok-labs.com>
* Author: Carlos Dyonisio <medaglia@ok-labs.com>
*/
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File: qurt_atomic_ops.h

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/*
* Author: Malcolm Purvis <malcolmp@ok-labs.com>
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* This file is only included by the main atomic_ops.h, so all of that
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/*
* Author: Alex Webster
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File: wmi_unified.h
```

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File: ip_prot.h

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File: stail_queue.h

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//
//  @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
// $Id: //components/rel/wlanfw_cmn.cnss/1.0/cnss_proc/wlan/fwcommon/include/queue.h#1 $
//

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File: targaddrs.h
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File: aes_gcm.h

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/*
* AES-based functions
*
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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File: sha2.h

```
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* FILE:    sha2.h
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*
* $Id: //depot/sw/branches/qca_rome_main/perf_pwr_offload/drivers/target/include/sha2.h#1
 $
*/

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File: wal_dfs.h
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//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_ethersubr.h#3 $
//
==========

File: wal_phy_dev.h

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```
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==========

File:
wal_dfs.c

```
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```

==========

File:

ieee_crc32.c

```
/*
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*  code or tables extracted from it, as desired without restriction.
*
*  First, the polynomial itself and its table of feedback terms.  The
*  polynomial is
*  X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
*
*  Note that we take it "backwards" and put the highest-order term in
*  the lowest-order bit.  The X^32 term is "implied"; the LSB is the
*  X^31 term, etc.  The X^0 term (usually shown as "+1") results in
*  the MSB being 1
*
*  Note that the usual hardware shift register implementation, which
*  is what we're using (we're merely optimizing it by doing eight-bit
*  chunks at a time) shifts bits into the lowest-order term.  In our
*  implementation, that means shifting towards the right.  Why do we
*  do it this way?  Because the calculated CRC must be transmitted in
*  order from highest-order term to lowest-order term.  UARTs transmit
*  characters in
 order from LSB to MSB.  By storing the CRC this way
*  we hand it to the UART in the order low-byte to high-byte; the UART
*  sends each low-bit to hight-bit; and the result is transmission bit
*  by bit from highest- to lowest-order term without requiring any bit
*  shuffling on our part.  Reception works similarly
*
*  The feedback terms table consists of 256, 32-bit entries.  Notes
*
*      The table can be generated at runtime if desired; code to do so
*      is shown later.  It might not be obvious, but the feedback
*      terms simply represent the results of eight shift/xor opera
*      tions for all combinations of data and CRC register values
*
*      The values must be right-shifted by eight bits by the "updcrc
*      logic; the shift must be unsigned (bring in zeroes).  On some
*      hardware you could probably optimize the shift in assembler by
*      using byte-swap instructions
*      polynomial $edb88320
*
*
* CRC32 code derived from work by Gary S.
 Brown.
*/
```

==========

File: aes.c

```
/*
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/*
* AES (Rijndael) cipher
*
* Modifications to public domain implementation:
* - support only 128-bit keys
* - cleanup
* - use C pre-processor to make it easier to change S table access
* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at
*   cost of reduced throughput (quite small difference on Pentium 4,
*   10-25% when using -O1 or -O2 optimization)
*
* Copyright (c) 2003-2005, Jouni Malinen <jkmaline@cc.hut.fi>
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*/

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

File: aes_gcm.c

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* Galois/Counter Mode (GCM) and GMAC with AES
*
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==========

File: aes_wrap.c

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/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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File: common.h

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```
*/

/*
* wpa_supplicant/hostapd / common helper functions, etc.
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================================================================================
File: crypto.h
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/*
* WPA Supplicant / wrapper functions for crypto libraries
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*
* This file defines the cryptographic functions that need to be implemented
* for wpa_supplicant and hostapd. When TLS is not used, internal
* implementation of MD5, SHA1, and AES is used and no external libraries are
* required. When TLS
 is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the
* crypto library used by the TLS implementation is expected to be used for
* non-TLS needs, too, in order to save space by not implementing these
* functions twice.
*
* Wrapper code for using each crypto library is in its own file (crypto*.c)
* and one of these files is build and linked in to provide the functions
* defined here.
*/
```

```
================================================================================
File: md5.c
//
// $Id: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/src/misc/crypto/md5.c#1 $
//
// This code implements the MD5 message-digest algorithm.
// The algorithm is due to Ron Rivest.  This code was
// written by Colin Plumb in 1993, no copyright is claimed.
// This code is in the public domain; do with it what you wish.
//
// 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.
//

================================================================================
File: sha1.c
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*/

/*
* SHA1 hash implementation and interface functions
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*/

================================================================================
File:
 cil.h
/* ============================================================================
```

* $File: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/include/cil.h $
* $Revision: #1 $
* $Date: 2013/07/12 $
* $Change: 2108597 $
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 == */

==========

File: dwc_dev.h

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==========

File:
dwc_os_dev.h

/* ==========

* $File: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/include/os_dev.h $
* $Revision: #1 $
* $Date: 2013/07/12 $
* $Change: 2108597 $
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==========

File: pcd.h

/* ==========

* $File: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/include/pcd.h $
* $Revision: #1 $
* $Date: 2013/07/12 $
* $Change: 2108597 $
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==========

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//
// @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
// $Id: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/src/sim_wifi_ip02/include/queue.h#2
$
//
==========

File: platform_cmnos_printf.c

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```
================================================================================
File: hca_HwComponentBbLithium_dfs_process_phyerr.cpp
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================================================================================
File: hca_HwComponentBbLithium_dfs_process_radarevent.cpp
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```

```
================================================================================
File: hca_HwComponentBbLithium_dfs_radar_report.h
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File: phyUtilsStrlcpy.c
/*  $OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert Exp $    */

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//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19 thorpej Exp $
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
//


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*
* @(#)if_llc.h 8.1 (Berkeley) 6/10/93
* $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
*/
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File: suppl_auth_api.h
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File: wpa.h
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definitions
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File: wlan_mlme_wmi.c
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==========

File: sha2.c

/*
* FILE: sha2.c
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*
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File: wlan_p2p_listen_offload.c

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```

==========

File: wlan_p2p_listen_offload_int.c

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File: wlan_p2p_listen_offload_int.h

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File: wlan_p2p_disc_offload.c
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File: wlan_p2p_disc_offload_internal.h
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*/
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 * AES-128/192/256 CTR
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File: crypto.h
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```
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* WPA Supplicant / wrapper functions for crypto libraries
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*
* This file defines the cryptographic functions that need to be implemented
* for wpa_supplicant and hostapd. When TLS is not used, internal
* implementation of MD5, SHA1, and AES is used and no external libraries are
* required. When TLS is enabled
 (e.g., by enabling EAP-TLS or EAP-PEAP), the
* crypto library used by the TLS implementation is expected to be used for
* non-TLS needs, too, in order to save space by not implementing these
* functions twice.
*
* Wrapper code for using each crypto library is in its own file (crypto*.c)
* and one of these files is build and linked in to provide the functions
* defined here.
*/
```

```
================================================================================
File: fils.c

/* WPA/RSN - Shared functions for supplicant and authenticator
 * EAP common peer/server definitions
 * EAP peer state machines (RFC 4137)
 * Copyright (c) 2002-2018, Jouni Malinen <j@w1.fi>
 *
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================================================================================
File: fils.h
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* EAP common peer/server definitions
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*/

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File: m1_m4_frame.c
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 */
/* RC4 stream cipher
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File: my_nan_sec.c
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File: mywpa_common.h
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* WPA definitions shared between hostapd and wpa_supplicant
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File: sha256.c

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File: sha256-kdf.c
/*
* HMAC-SHA256 KDF (RFC 5295) and HKDF-Expand(SHA256) (RFC 5869)
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==========
File: sha384_i.h
/*

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File: sha384-internal.c

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==

File: stringl.h

```
/* $OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp $ */
/* $NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp $ */

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*
* @(#)string.h 5.10 (Berkeley) 3/9/91
*/

================================================================================
File: strlcpy.c
/* $OpenBSD: strlcpy.c,v
 1.11 2006/05/05 15:27:38 millert Exp $ */

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==========

File: lz.c

//
// Name: lz.c
// Author: Marcus Geelnard
// Description:
 LZ77 coder/decoder implementation.
// Reentrant: Yes
// $ATH_LICENSE_NULL$
//
// The LZ77 compression scheme is a substitutional compression scheme
// proposed by Abraham Lempel and Jakob Ziv in 1977. It is very simple in
// its design, and uses no fancy bit level compression.
//
// This is my first attempt at an implementation of a LZ77 code/decoder.
//
// The principle of the LZ77 compression algorithm is to store repeated
// occurrences of strings as references to previous occurrences of the same
// string. The point is that the reference consumes less space than the
// string itself, provided that the string is long enough (in this
// implementation, the string has to be at least 4 bytes long, since the
// minimum coded reference is 3 bytes long). Also note that the term
// "string" refers to any kind of byte sequence (it does not have to be
// an ASCII string, for instance).
//
// The coder uses a brute force approach to finding string matches in the
// history buffer
 (or "sliding window", if you wish), which is very, very
// slow. I recon the complexity is somewhere between O(n^2) and O(n^3),
// depending on the input data.
//
// There is also a faster implementation that uses a large working buffer
// in which a "jump table" is stored, which is used to quickly find
// possible string matches (see the source code for LZ_CompressFast() for
// more information). The faster method is an order of magnitude faster,
// but still quite slow compared to other compression methods.
//
// The upside is that decompression is very fast, and the compression ratio
// is often very good.
//

```
// The reference to a string is coded as a (length,offset) pair, where the
// length indicates the length of the string, and the offset gives the
// offset from the current data position. To distinguish between string
// references and literal strings (uncompressed bytes), a string reference
// is preceded by a marker byte, which is chosen as the least common byte
// symbol in
 the input data stream (this marker byte is stored in the
// output stream as the first byte).
//
// Occurrences of the marker byte in the stream are encoded as the marker
// byte followed by a zero byte, which means that occurrences of the marker
// byte have to be coded with two bytes.
//
// The lengths and offsets are coded in a variable length fashion, allowing
// values of any magnitude (up to 4294967295 in this implementation).
//
// With this compression scheme, the worst case compression result is
// (257/256)*insize + 1.
//
//------------------------------------------------------------------------
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//
// Marcus Geelnard
// marcus.geelnard at home.se
//

================================================================================
File: lz.h
```

```
//
// Name:        lz.h
// Author:      Marcus Geelnard
// Description: LZ77 coder/decoder interface.
// Reentrant:   Yes
// ----------------------------------------------------------------------
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//
```

==========

File: arm_common_tables.h

```
/* ----------------------------------------------------------------------
*
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*
* $Date:        19. October 2015
* $Revision:  V.1.4.5 a
*
* Project:      CMSIS DSP Library
* Title:     arm_common_tables.h
*
* Description: This file has extern declaration for common tables like Bitreverse, reciprocal etc which are used
across different functions
*
```

* Target Processor: Cortex-M4/Cortex-M3
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* ---
 */

==
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*
* $Date: 19. March 2015
* $Revision: V.1.4.5
*
* Project: CMSIS DSP Library
* Title: arm_const_structs.h
*
* Description: This file has constant structs that are initialized for
*   user convenience. For example, some can be given as
*   arguments to the arm_cfft_f32() function.
*
* Target Processor: Cortex-M4/Cortex-M3
*

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* -- */

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File: arm_math.h

/* --
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*
* $Date: 20. October 2015
* $Revision: V1.4.5 b
*
* Project: CMSIS DSP Library
* Title: arm_math.h
*
* Description: Public header file for CMSIS DSP Library
*
* Target Processor: Cortex-M7/Cortex-M4/Cortex-M3/Cortex-M0
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File: sha_core.c

```
/*====*====*====*====*====*====*====*====*====*====*====*====*====*====*====*====*
```

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H A S H I N G F U N C T I O N S

(A R M I M P L E M E N T A T I O N S)

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File: wlan_defs.h

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File: wlanfw_health_mon.h

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  wlan_nan_msg_common_v2.h
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  htc_services.h

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  stail_queue.h
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//
//  @(#)queue.h 8.5 (Berkeley) 8/20/94
//
 $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
//
```

==========

File: targaddrs.h

```
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==
File: aes_gcm.h
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* Galois/Counter Mode (GCM) and GMAC with AES
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File: aes_wrap.h
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/*
* AES-based functions
*
*

* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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File: sha2.h

```
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* FILE:    sha2.h
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//  @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v
 1.58 2004/04/07 04:19:49 imp Exp $
//

================================================================================
File:  ieee_crc32.c
/*
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*
*  First, the polynomial itself and its table of feedback terms.  The
*  polynomial is
*  X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
*
*  Note that we take it "backwards" and put the highest-order term in
*  the lowest-order bit.  The X^32 term is "implied"; the LSB is the
*  X^31 term, etc.  The X^0 term (usually shown as "+1") results in
*  the MSB being 1
*
*  Note that the usual hardware shift register implementation, which
*  is what we're using (we're merely optimizing it by doing eight-bit
*  chunks at a time) shifts bits into the lowest-order term.  In our
*  implementation, that means shifting towards the right.  Why do we
*  do it this way?  Because the calculated
 CRC must be transmitted in
*  order from highest-order term to lowest-order term.  UARTs transmit
*  characters in order from LSB to MSB.  By storing the CRC this way
*  we hand it to the UART in the order low-byte to high-byte; the UART
*  sends each low-bit to hight-bit; and the result is transmission bit
*  by bit from highest- to lowest-order term without requiring any bit
*  shuffling on our part.  Reception works similarly
*
*  The feedback terms table consists of 256, 32-bit entries.  Notes
*
*      The table can be generated at runtime if desired; code to do so
*      is shown later.  It might not be obvious, but the feedback
*      terms simply represent the results of eight shift/xor opera
*      tions for all combinations of data and CRC register values
*
*      The values must be right-shifted by eight bits by the "updcrc
*      logic; the shift must be unsigned (bring in zeroes).  On some
*      hardware you could probably optimize the shift in assembler
```

by
*   using byte-swap instructions
*   polynomial $edb88320
*
*
* CRC32 code derived from work by Gary S. Brown.
*/
==
File: hca_HwComponentBbBase_dfs_phyerr_tlv.cpp
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File: hca_dfs_radar_report.h

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File: cds_ieee80211_common.h

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File: dfs_interface.h

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*
* @(#)if_llc.h 8.1 (Berkeley) 6/10/93
* $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
*/
==========

File: qvit_init_api.h

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==========
File: sha2.c
/*
* FILE: sha2.c
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File: wlan_p2p_listen_offload_int.c

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apf.h

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File: apf_interpreter.h

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 * EAP common peer/server definitions
 * EAP peer state machines (RFC 4137)
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File: fils.h

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/*
* AES (Rijndael) cipher
*
* Modifications to public domain implementation:
* - support only 128-bit keys
* - cleanup
* - use C pre-processor
 to make it easier to change S table access
* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at
*   cost of reduced throughput (quite small difference on Pentium 4,
*   10-25% when using -O1 or -O2 optimization)
*

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*/

/*
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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*/
==========
File: aes_gcm.c
/*
* Galois/Counter Mode (GCM) and GMAC with AES
*
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```
*/
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File:  aes_wrap.c
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/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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File:
  common.h
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/*
* wpa_supplicant/hostapd / common helper functions, etc.
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*/

==========

File: crypto.h

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/*

* WPA Supplicant / wrapper functions for crypto libraries

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*

* This file defines the cryptographic functions that need to be implemented

* for wpa_supplicant and hostapd. When TLS is not used, internal

* implementation of MD5, SHA1, and AES is used and no external libraries are

* required. When TLS is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the

* crypto library used by the TLS implementation is expected to be used for

* non-TLS needs, too, in order to save space by not implementing these

* functions twice.

*

* Wrapper code for using each crypto library is in its own file (crypto*.c)

* and one of these files is build and linked in to provide the functions

* defined here.

 */

==========

File: md5.c

//

// This code implements the MD5 message-digest algorithm.

// The algorithm is due to Ron Rivest. This code was

// written by Colin Plumb in 1993, no copyright is claimed.

// This code is in the public domain; do with it what you wish.

//

// 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.
//

==========

File: sha1.c

```
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* SHA1 hash implementation and interface functions
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```

==========

File: athstartpack.h

```
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// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19
 thorpej Exp $
// $Id: //depot/sw/qca_main/components/wlan/qca-wifi-fw/1.0/drivers/target/src/wlan/proto/include/if_llc.h#2 $
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*
*  @(#)if_llc.h    8.1 (Berkeley) 6/10/93
 * $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
*/
```

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wlan/protocol/src/include/if_llc.h#1

```
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wlan/protocol/include/if_ethersubr.h#1

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wlan/protocol/support/lz77/lz.h#1
wlan/protocol/support/lz77/lz.c#1

==========
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wlan/mac_core/tests/serflash/flashprog/uncompr.c#1

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//
//  @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
//
```

wlan/include/queue.h#1

```
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================================================
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* SHA1 hash implementation and interface functions
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```

wlan/mac_core/include/sha1.h

wlan/mac_core/romexport/AR900B/hw.1/include/sha1.h
wlan/mac_core/romexport/AR900B/hw.2/include/sha1.h

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==========
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/*
* FILE: sha2.h
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*
* $Id: //depot/sw/branches/qca_rome_main/perf_pwr_offload/drivers/target/include/sha2.h#1 $
*/

wlan/mac_core/romexport/AR900B/hw.1/include/sha2.h
wlan/mac_core/romexport/AR900B/hw.2/include/sha2.h

==========

```
=====================================================

/*
 * AES-based functions
*
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
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wlan/mac_core/include/aes_wrap.h
wlan/mac_core/romexport/AR900B/hw.1/include/aes_wrap.h
wlan/mac_core/romexport/AR900B/hw.2/include/aes_wrap.h

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wlan/mac_core/include/usb.h
wlan/mac_core/romexport/AR900B/hw.1/include/usb.h
wlan/mac_core/romexport/AR900B/hw.2/include/usb.h

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* ========== */

wlan/mac_core/include/cil.h
wlan/mac_core/romexport/AR900B/hw.1/include/cil.h
wlan/mac_core/romexport/AR900B/hw.2/include/cil.h
wlan/mac_core/include/dev.h
wlan/mac_core/romexport/AR900B/hw.1/include/dev.h
wlan/mac_core/romexport/AR900B/hw.2/include/dev.h
wlan/mac_core/include/os_dev.h
wlan/mac_core/romexport/AR900B/hw.1/include/os_dev.h
wlan/mac_core/romexport/AR900B/hw.2/include/os_dev.h
wlan/mac_core/include/usb3_hw.h
wlan/mac_core/romexport/AR900B/hw.1/include/usb3_hw.h
wlan/mac_core/romexport/AR900B/hw.2/include/usb3_hw.h
wlan/mac_core/include/pcd.h
wlan/mac_core/romexport/AR900B/hw.1/include/pcd.h
wlan/mac_core/romexport/AR900B/hw.2/include/pcd.h

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/*
 * $Header: //source/qcom/qct/core/api/kernel/main/latest/libstd/stringl/stringl.h#13 $
* $DateTime: 2013/07/24 11:35:54 $
*/

/* $OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp $ */
/* $NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp $ */

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*
* @(#)string.h   5.10 (Berkeley) 3/9/91
*/

wlan/protocol/support/bin2srec/include/stringl/stringl.h

==
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/*
* $Header: //source/qcom/qct/core/kernel/libstd/main/latest/src/strlcpy.c#1 $
* $DateTime: 2011/01/07 17:50:19 $
*/

/* $OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert
 Exp $ */

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wlan/protocol/support/bin2srec/strlcpy.c

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agere_sta_fw.bin -- 9.48 Hermes I
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Fast discrete
 Fourier and cosine transforms and inverses
author: Monty <xiphmont@mit.edu>
modifications by: Monty
last modification date: Jul 1 1996

/* These Fourier routines were originally based on the Fourier
routines of the same names from the NETLIB bihar and fftpack
fortran libraries developed by Paul N. Swarztrauber at the National
Center for Atmospheric Research in Boulder, CO USA. They have been
reimplemented in C and optimized in a few ways for OggSquish. */

/* As the original fortran libraries are public domain, the C Fourier
routines in this file are hereby released to the public domain as
well. The C routines here produce output exactly equivalent to the
original fortran routines. Of particular interest are the facts
that (like the original fortran), these routines can work on
arbitrary length vectors that need not be powers of two in
length. */
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```
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* @brief    CMSIS compiler armclang (Arm Compiler 6) header file
* @version  V5.3.1
* @date     26. March 2020
******************************************************************************/
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*/
```

core_cm0plus.h

```
/**************************************************************************//**
* @file     core_cm0plus.h
* @brief    CMSIS Cortex-M0+ Core Peripheral Access Layer Header File
* @version  V5.0.9
* @date     21. August 2019
******************************************************************************/
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cmsis_compiler.h

```
/**************************************************************************//**
* @file     cmsis_compiler.h
* @brief    CMSIS compiler generic header file
* @version  V5.1.0
* @date     09. October 2018
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```

cmsis_version.h

```
/**************************************************************************//**
* @file     cmsis_version.h
* @brief    CMSIS Core(M) Version definitions
* @version  V5.0.4
* @date     23. July 2019
******************************************************************************/
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The following XC500C firmware file "dvb-fe-xc5000C-4.1.30.7.fw" was created
based on "Xc5200_firmwares_32000Khz.h".

Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares
<Ramon.Cazares@CrestaTech.com> to Devin Heitmueller dheitmueller@linuxtv.org
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*****************************************************************************/
/*****************************************************************************
*
* FUNCTION:    AcpiGetSleepTypeData
*
* PARAMETERS:  SleepState          - Numeric sleep state
*              *SleepTypeA         - Where SLP_TYPa is returned
*              *SleepTypeB         - Where SLP_TYPb is returned
*
* RETURN:      Status
*
* DESCRIPTION: Obtain the SLP_TYPa and SLP_TYPb values for the requested
*              sleep state via the appropriate \_Sx object.
*
*  The sleep state package returned from the corresponding \_Sx_ object
*  must contain at least one integer.
*
*  March 2005:
*  Added support for a package that contains two integers. This
*  goes against the ACPI specification which defines this object as a
*  package with one encoded DWORD integer. However, existing practice
 *  by many BIOS vendors is to return a package with 2 or more integer
*  elements, at least one per sleep type (A/B).
*
*  January 2013:
*  Therefore, we must be prepared to accept a package with either a
*  single integer or multiple integers.
*
*  The single integer DWORD format is as follows:
*      BYTE 0 - Value for the PM1A SLP_TYP register
```

*   BYTE 1 - Value for the PM1B SLP_TYP register
*   BYTE 2-3 - Reserved
*
* The dual integer format is as follows:
*   Integer 0 - Value for the PM1A SLP_TYP register
*   Integer 1 - Value for the PM1A SLP_TYP register
*
***/

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*/
Name (TSLP, 0x1388)   /* MilliSecs to sleep each cycle (5 secs) */
Local0 = (TSLP * LPN0) /* \MD77.LPN0 */
/* if (Local5) { */

ERR (__METHOD__, ZFFF, __LINE__, 0x00, 0x00, Local0, Local7)

```
Debug = Concatenate ("Cur   timer    : 0x", Local7)
Debug = Concatenate ("Start timer    : 0x", Local0)
Debug = Concatenate ("Step of cycle  : 0x", TSLP)
Break
/* } */
/* First time in more
 than 50 thousand years! */
Local5 = 0x01
}

Sleep (TSLP)
LPN0--
LPC0++
}

Debug = Concatenate ("Start  timer: 0x", Local0)
Debug = Concatenate ("Finish timer: 0x", Local7)
Local6 = (Local7 - Local0)
Local0 = TMR0 (Local6)
Debug = Concatenate ("Run time (in seconds): 0x", Local0)
}
```

Found in path(s):
* /acpica-r12-17-20-zip/acpica-R12_17_20/tests/aslts/src/runtime/collections/bdemo/ACPICA/0047/DECL.asl
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* /acpica-r12-17-20-zip/acpica-R12_17_20/source/include/platform/acnetbsd.h
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Eliminated extraneous warnings from AcpiGetSleepTypeData. Since the _Sx
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*
*****************************************************************************/
/*****************************************************************************
*
* FUNCTION:    AeTestSleepData
*
* DESCRIPTION: Exercise the sleep/wake support (_S0, _S1, etc.)
*
*****************************************************************************/
```

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Build description file to generate ACPICA applications.
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**/

Found in path(s):
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* /acpica-r12-17-20-zip/acpica-R12_17_20/generate/efi/AcpiPkg_stdlib.dsc
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  </td></tr></table></td></tr><tr><td bgcolor=0860a8><img src=http://intel.speedera.net/xcache.intel.com/Remediation/Images/Email/Block/istg-footer.gif border=0></td><td bgcolor=0860a8 align=right>Copyright © Intel Corporation, 2002-2006. All rights reserved.</td></tr><tr><td colspan=2 align=right>*Other names and brands may be claimed as the property of others.
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* /acpica-r12-17-20-zip/acpica-R12_17_20/tests/aslts/src/runtime/collections/Identity2MS/abbu/UTILITY/2_WARNING.HTM
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@file
Build description file to ACPICA applications.
#
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##

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1.291 gawk 5.1.1

1.291.1 Available under license :

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[This is the first released version of the library GPL. It is
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have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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

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

and installation of the library.

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

distribute.

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

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

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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>
<name of author>

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

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

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those

products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

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To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is

not conveying.

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

1. Source Code.

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

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

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

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

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

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;
section 10
makes it unnecessary.

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No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

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

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

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

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

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

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution

medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

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

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

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the

Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

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

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1.292 util-linux-libuuid 2.37.4

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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```
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

   /* disk geometry: */
 uint32_t d_secsize;  /* # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /*
 # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
 uint32_t d_secperunit;  /* # of data sectors per unit */

 /*
  * Spares (bad sector replacements) below
```

```
 * are not counted in d_nsectors or d_secpercyl.
 * Spare sectors are assumed to be physical sectors
 * which occupy space at the end of each track and/or cylinder.
 */
uint16_t d_sparespertrack; /* # of spare sectors per track */
uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders;  /* # of alt. cylinders per unit */

  /* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller
when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /* track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /*
drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */

  /* filesystem and partition information: */
uint16_t d_npartitions;        /* number of partitions in following */
uint32_t d_bbsize;         /* size of boot area at sn0, bytes */
uint32_t d_sbsize;         /* max size of fs superblock, bytes */
```

```
 struct bsd_partition  {  /* the partition table */
  uint32_t p_size;        /* number of sectors in partition */
  uint32_t p_offset;      /* starting sector */
  uint32_t p_fsize;       /* filesystem basic fragment size */
  uint8_t  p_fstype; /* filesystem type, see below */
  uint8_t  p_frag;  /* filesystem fragments per block */
  uint16_t p_cpg;         /* filesystem cylinders per group */
 } __attribute__((packed)) d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values:
 */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7       3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7
 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
```

```
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /* removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports
 bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
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*/

1.293 busybox 1.35.0

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.294 gzip 1.12

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
```

```
 function name because
   * Various platforms have different functions in their libc.
     In particular, the glibc basename(), defined in <string.h>, does
     not consider trailing slashes to be part of the component:

FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
   * The 'basename' command eliminates trailing slashes and for a root
     produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



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

#endif /* _BASENAME_LGPL_H */
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free library to free
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run.

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structure layouts and accessors, and small macros and small inline
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Otherwise, if the work is a derivative of the Library, you may
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work with the complete corresponding
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with a modified version of the library, if
the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

1.296 tar 1.35

1.296.1 Available under license :

```
/* Extract the last component (base name) of a file name.

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  along with this program.  If not, see <https://www.gnu.org/licenses/>.  */

#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

/* This file uses _GL_ATTRIBUTE_PURE.  */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
#endif

#include <stddef.h>

#ifndef
 DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/* Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
```

```
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME     RESULT
          "foo.c"      "foo.c"
          "foo/bar.c"  "bar.c"
          "/foo/bar.c" "bar.c"
          "foo/bar/"   "bar/"
          "foo/bar//"  "bar//"
          "/"          ""
          "//"         ""
          ""           ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(),
 defined in <string.h>, does
      not consider trailing slashes to be part of the component:
          FILENAME     RESULT
          "foo/bar/"   ""
          "foo/bar//"  ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
          FILENAME     RESULT
          "foo/bar/"   "bar"
          "foo/bar//"  "bar"
          "/"          "/"
          "//"         "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



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

#endif /* _BASENAME_LGPL_H */
                GNU GENERAL PUBLIC LICENSE
                  Version 3, 29 June 2007
```

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1. Source Code.

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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<one line to give the program's name and a brief idea of what it does.>
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when it starts in an interactive mode:

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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
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
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when it starts in an interactive mode:

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

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License.
 Of course, the
commands you use may be called something other than `show w' and `show
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```
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 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!
```
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

use strict;
use Config;
```

```
BEGIN { require './test.pl' }

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

my ($opt) = @ARGV;

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

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

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

done_testing;


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

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

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

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

 $year;
}


sub v_year
```

```
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
```

1.299 findutils 4.9.0

1.299.1 Available under license :

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif

/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME   RESULT
          "foo.c"   "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c" "bar.c"
          "foo/bar/"   "bar/"
          "foo/bar//"   "bar//"
          "/"   ""
          "//"   ""

```
            ""          ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
            "foo/bar/"    ""
            "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
            FILENAME      RESULT
            "foo/bar/"    "bar"
            "foo/bar//"   "bar"
            "/"           "/"
            "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
```

1.300 opkg-utils 0.5.0

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1.301 libxml2 2.9.14

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1.302 diffutils 3.10

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/* Extract the last component (base name) of a file name.

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

/* This file uses _GL_ATTRIBUTE_PURE.  */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
#endif

#include <stddef.h>

#ifndef
 DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/* Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
```

```
           "//"         ""
           ""           ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
   function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(),
 defined in <string.h>, does
      not consider trailing slashes to be part of the component:
           FILENAME     RESULT
           "foo/bar/"   ""
           "foo/bar//"  ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
           FILENAME     RESULT
           "foo/bar/"   "bar"
           "foo/bar//"  "bar"
           "/"          "/"
           "//"         "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
   Typically FILENAME is the value returned by base_name or last_component.
   Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
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1.303 python3-iniparse 0.5

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A. HISTORY OF THE SOFTWARE
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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
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0.9.0 thru 1.2		1991-1995	CWI	yes
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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:
```

```
 FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
   * The 'basename' command eliminates trailing slashes and for a root
     produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
```

1.305 xz 5.2.6

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1.306 python-six 1.16.0

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1.307 libmodulemd 2.14.0

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1.309 libffi 3.4.4

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Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```

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```
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1.310 pcre 8.45

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1.311 libdnf 0.66.0

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```
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
  defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

  /* disk geometry: */
 uint32_t d_secsize;  /* # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /*
 # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
 uint32_t d_secperunit;  /* # of data sectors per unit */

 /*
  * Spares (bad sector replacements) below
  * are not counted in d_nsectors or d_secpercyl.
  * Spare sectors are assumed to be physical sectors
  * which occupy space at the end of each track and/or cylinder.
  */
 uint16_t d_sparespertrack; /* # of spare sectors per track */
 uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */
```

```
/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders;  /* # of alt. cylinders per unit */

  /* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller
when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /* track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /*
drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */

  /* filesystem and partition information: */
uint16_t d_npartitions;        /* number of partitions in following */
uint32_t d_bbsize;         /* size of boot area at sn0, bytes */
uint32_t d_sbsize;         /* max size of fs superblock, bytes */

struct bsd_partition  {  /* the partition table */
 uint32_t p_size;         /* number of sectors in partition */
 uint32_t p_offset;       /* starting sector */
 uint32_t p_fsize;        /* filesystem basic fragment size */
 uint8_t  p_fstype; /* filesystem type, see below */
```

```
  uint8_t  p_frag;  /* filesystem fragments per block */
  uint16_t p_cpg;         /* filesystem cylinders per group */
 } __attribute__((packed)) d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values:
 */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7       3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7
 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
```

```
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /* removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports
 bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
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1.315 e2fsprogs 1.46.5

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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file system consistency checker (e2fsck.static). The EXT2 utilities
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
```

$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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*/
Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
+   Copyright (C) Andrew Tridgell   1999-2005
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    ** library. This does NOT imply that all of Samba is released
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Gadi Oxman, August 1995

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Theodore Ts'o
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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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```
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```
#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
```

```
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



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

#endif /* _BASENAME_LGPL_H */
```

1.319 libgcc 11.4.0

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Julian Seward, jseward@bzip.org
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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
==========

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```
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  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
```

```
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
/* Definitions for BSD assembler syntax for Intel 386
  (actually AT&T syntax for insns and operands,
  adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */
```

```
/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
```

```
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
```

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Version 3, 29 June 2007

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1.323 dnf 4.11.1

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
```

```
           "foo/bar//"   "bar//"
           "/"           ""
           "//"          ""
           ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
   function name because
     * Various platforms have different functions in their libc.
       In particular, the glibc basename(), defined in <string.h>, does
       not consider trailing slashes to be part of the component:

 FILENAME      RESULT
           "foo/bar/"    ""
           "foo/bar//"   ""
     * The 'basename' command eliminates trailing slashes and for a root
       produces a non-empty result:
           FILENAME      RESULT
           "foo/bar/"    "bar"
           "foo/bar//"   "bar"
           "/"           "/"
           "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
   Typically FILENAME is the value returned by base_name or last_component.
   Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



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

#endif /* _BASENAME_LGPL_H */
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1.325 libcap 2.66

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1.327 libjitterentropy 3.4.1

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be

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The precise terms and conditions for copying, distribution and

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

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

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

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

However, linking a "work that uses the Library" with the Library

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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.

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

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with a modified version of the library, if
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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

/* This file uses _GL_ATTRIBUTE_PURE.  */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
#endif

#include <stddef.h>

#ifndef
 DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/* Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
```

```
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(),
 defined in <string.h>, does
      not consider trailing slashes to be part of the component:
            FILENAME      RESULT
            "foo/bar/"    ""
            "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
            FILENAME      RESULT
            "foo/bar/"    "bar"
            "foo/bar//"   "bar"
            "/"           "/"
            "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
```

1.331 glib 2.72.3

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

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Version 3, 29 June 2007

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.11 2022/01/01 11:47:50 tom Exp $
Upstream source https://invisible-island.net/ncurses/Ada95.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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1.334 glibc 2.35

1.334.1 Available under license :

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@center Version 2.1, February 1999

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For example, on rare occasions, there may be a special need to
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library does the
same job as widely used non-free libraries. In this
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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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Section 6 states terms for distribution of such executables.

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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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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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functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise,

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

@item
As an exception to the Sections above, you may also combine or
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directing the user to the copy of
this License. Also, you must do one
of these things:

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

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suitable mechanism is one that (1) uses at run time a copy of the
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and (2) will operate
properly with a modified version of the library, if the user installs
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@item
Accompany the work with a written offer, valid for at

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@item
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@item
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uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact

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@end enumerate

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1.336 coreutils 9.0

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#ifndef _BASENAME_LGPL_H

```
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
```

```
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
```

1.337 zstd 1.5.2

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1.338 netbase 6.3

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

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DRuntime: Runtime Library for the D Programming Language
==========

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02110-1301, USA. */

```
#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif
```

```
#endif /* __VTV_H__ */
/* Definitions for BSD assembler syntax for Intel 386
  (actually AT&T syntax for insns and operands,
  adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */



/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
```

```
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */
```

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3, 29 June 2007

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1.342 curl 7.82.0

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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All
Python releases are Open Source (see https://opensource.org for
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.345 pam 1.5.2

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1.346 rpm 4.17.1

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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
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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.)

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from a designated place, offer equivalent access to copy the above
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d) Verify that the user has already received a copy of these
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1.347 debugedit 5.0

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It may happen that this requirement contradicts the license

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the

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1.357 qemu 6.2.0

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```
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*  x86_64 system call definitions
*
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*/
#ifndef TARGET_SYSCALL_H
#define TARGET_SYSCALL_H

#define __USER_CS (0x33)
#define __USER_DS (0x2B)

struct target_pt_regs {
 abi_ulong r15;
 abi_ulong r14;
 abi_ulong r13;
 abi_ulong r12;
 abi_ulong rbp;
 abi_ulong rbx;
/* arguments: non interrupts/non tracing syscalls only save up to here */
 abi_ulong
 r11;
 abi_ulong r10;
 abi_ulong r9;
 abi_ulong r8;
 abi_ulong rax;
 abi_ulong rcx;
 abi_ulong rdx;
 abi_ulong rsi;
 abi_ulong rdi;
 abi_ulong orig_rax;
/* end of arguments */
/* cpu exception frame or undefined */
```

```
 abi_ulong rip;
 abi_ulong cs;
 abi_ulong eflags;
 abi_ulong rsp;
 abi_ulong ss;
/* top of stack page */
};

/* Maximum number of LDT entries supported. */
#define TARGET_LDT_ENTRIES 8192
/* The size of each LDT entry. */
#define TARGET_LDT_ENTRY_SIZE 8

#define TARGET_GDT_ENTRIES 16
#define TARGET_GDT_ENTRY_TLS_ENTRIES 3
#define TARGET_GDT_ENTRY_TLS_MIN 12
#define TARGET_GDT_ENTRY_TLS_MAX 14

#if 0 // Redefine this
struct target_modify_ldt_ldt_s {
 unsigned int  entry_number;
      abi_ulong     base_addr;
 unsigned int  limit;
 unsigned int  seg_32bit:1;
 unsigned int  contents:2;
 unsigned int  read_exec_only:1;
 unsigned int  limit_in_pages:1;
 unsigned int  seg_not_present:1;
 unsigned int  useable:1;
 unsigned int  lm:1;
};
#else
struct target_modify_ldt_ldt_s
 {
 unsigned int  entry_number;
      abi_ulong     base_addr;
 unsigned int  limit;
      unsigned int flags;
};
#endif

struct target_ipc64_perm
{
 int  key;
 uint32_t uid;
 uint32_t gid;
 uint32_t cuid;
 uint32_t cgid;
```

```
 unsigned short  mode;
 unsigned short  __pad1;
 unsigned short  seq;
 unsigned short  __pad2;
 abi_ulong  __unused1;
 abi_ulong  __unused2;
};

struct target_msqid64_ds {
 struct target_ipc64_perm msg_perm;
 unsigned int msg_stime; /* last msgsnd time */
 unsigned int msg_rtime; /* last msgrcv time */
 unsigned int msg_ctime; /* last change time */
 abi_ulong  msg_cbytes; /* current number of bytes on queue */
 abi_ulong  msg_qnum; /* number of messages in queue */
 abi_ulong  msg_qbytes; /* max number of bytes on queue */
 unsigned int msg_lspid; /* pid of last msgsnd */
 unsigned int msg_lrpid; /* last receive pid */
 abi_ulong  __unused4;
 abi_ulong  __unused5;
};

/* FreeBSD sysarch(2) */
#define TARGET_FREEBSD_I386_GET_LDT 0
#define TARGET_FREEBSD_I386_SET_LDT 1
   /*
 I386_IOPL */
#define TARGET_FREEBSD_I386_GET_IOPERM 3
#define TARGET_FREEBSD_I386_SET_IOPERM 4
   /* xxxxx */
#define TARGET_FREEBSD_I386_GET_FSBASE 7
#define TARGET_FREEBSD_I386_SET_FSBASE 8
#define TARGET_FREEBSD_I386_GET_GSBASE 9
#define TARGET_FREEBSD_I386_SET_GSBASE 10

#define TARGET_FREEBSD_AMD64_GET_FSBASE 128
#define TARGET_FREEBSD_AMD64_SET_FSBASE 129
#define TARGET_FREEBSD_AMD64_GET_GSBASE 130
#define TARGET_FREEBSD_AMD64_SET_GSBASE 131


#define UNAME_MACHINE          "x86_64"
#define TARGET_HW_MACHINE      "amd64"
#define TARGET_HW_MACHINE_ARCH  "amd64"

#define TARGET_ARCH_SET_GS 0x1001
#define TARGET_ARCH_SET_FS 0x1002
#define TARGET_ARCH_GET_FS 0x1003
```

```
#define TARGET_ARCH_GET_GS 0x1004

#endif /* TARGET_SYSCALL_H */
```

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Stefan Reinauer

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd,
 "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___getcwd, "__getcwd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl,
 "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept4, "accept4", "%s(%d,%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bindat, "bindat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_enter, "cap_enter", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_get, "cap_fcntls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_limit, "cap_fcntls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_getmode, "cap_getmode", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_get, "cap_ioctls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_limit,
 "cap_ioctls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_rights_limit, "cap_rights_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chflagsat, "chflagsat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
```

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{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connectat, "connectat", "%s(%d,%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_cpuset_getdomain, "cpuset_getdomain", NULL, NULL,
 NULL },
{ TARGET_FREEBSD_NR_cpuset_setdomain, "cpuset_setdomain", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{
 TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fdatasync, "fdatasync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstat, "freebsd11_fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstatfs, "freebsd11_fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstat, "freebsd11_fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatat,
 "freebsd11_fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatfs, "freebsd11_fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimens, "futimens", "%s(%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getdirentries, "freebsd11_getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getfsstat, "freebsd11_getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid",
 "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getrandom, "getrandom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname,
 "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_kevent, "freebsd11_kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
```

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{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_lstat,
 "freebsd11_lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknodat, "mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknod, "freebsd11_mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknodat, "freebsd11_mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL,
NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl,
 "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd10_pipe, "freebsd10_pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pipe2, "pipe2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_posix_fallocate,
 "posix_fallocate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
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```
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork,
 "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_max, "sched_get_priority_max", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_min, "sched_get_priority_min", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
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{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_stat, "freebsd11_stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_statfs, "freebsd11_statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink",
 "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, print_sysarch, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_create, "timer_create" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_delete, "timer_delete" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_settime, "timer_settime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_gettime, "timer_gettime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_getoverrun, "timer_getoverrun" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)",
 NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimensat, "utimensat", "%s(%d,%s,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait6, "wait6", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_posix_openpt, "posix_openpt", "%s(%d)", NULL,
 NULL },
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```

```
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*/
#ifndef _TARGET_OS_VMPARAM_H_
#define _TARGET_OS_VMPARAM_H_

#include "target_arch_vmparam.h"

/* Compare to sys/exec.h */
struct target_ps_strings {
  abi_ulong ps_argvstr;
  uint32_t ps_nargvstr;
  abi_ulong ps_envstr;
  uint32_t ps_nenvstr;
};

extern
 abi_ulong target_stkbas;
extern abi_ulong target_stksiz;

#define TARGET_PS_STRINGS  ((target_stkbas + target_stksiz) - \
                    sizeof(struct target_ps_strings))

#endif /* !TARGET_OS_VMPARAM_H_ */
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```
/*
*  System call related declarations
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*/

#ifndef _SYSCALL_DEFS_H_
#define _SYSCALL_DEFS_H_

#include <sys/syscall.h>

#include "errno_defs.h"

#include "freebsd/syscall_nr.h"
#include "netbsd/syscall_nr.h"
#include "openbsd/syscall_nr.h"

/*
* machine/_types.h
* or x86/_types.h
 */

/*
* time_t seems to be very inconsistly defined for the different *BSD's...
*
```

```
* FreeBSD uses a 64bits time_t except on i386
* so we have to add a special case here.
*
* On NetBSD time_t is always defined as an int64_t.  On OpenBSD time_t
* is always defined as an int.
*
*/
#if (!defined(TARGET_I386))
typedef int64_t target_freebsd_time_t;
#else
typedef int32_t target_freebsd_time_t;
#endif

struct target_iovec {
  abi_long iov_base;   /* Starting address */
  abi_long iov_len;   /* Number of bytes */
};

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

#define TARGET_FREEBSD_MAP_FLAGMASK     0x1ff7

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

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

#define TARGET_NETBSD_MAP_FLAGMASK      0x3ff7

#define TARGET_OPENBSD_MAP_INHERIT      0x0080  /* region is retained after */
                                /* exec */
#define TARGET_OPENBSD_MAP_NOEXTEND     0x0100
```

```
  /* for MAP_FILE, don't change */
                                  /* file size */
#define TARGET_OPENBSD_MAP_TRYFIXED     0x0400  /* attempt hint address, */
                                  /* even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK     0x17f7

/* XXX */
#define TARGET_BSD_MAP_FLAGMASK         0x3ff7

/*
* sys/time.h
* sys/timex.h
*/

typedef abi_long target_freebsd_suseconds_t;

/* compare to sys/timespec.h */
struct target_freebsd_timespec {
   target_freebsd_time_t   tv_sec;     /* seconds */
   abi_long                tv_nsec;    /* and nanoseconds */
#if !defined(TARGET_I386) && TARGET_ABI_BITS == 32
   abi_long _pad;
#endif
};

#define TARGET_CPUCLOCK_WHICH_PID   0
#define TARGET_CPUCLOCK_WHICH_TID   1

/* sys/umtx.h */
struct target_freebsd__umtx_time {
   struct target_freebsd_timespec  _timeout;
   uint32_t    _flags;
   uint32_t    _clockid;
};

struct target_freebsd_timeval {
   target_freebsd_time_t       tv_sec; /*
 seconds */
   target_freebsd_suseconds_t  tv_usec;/* and microseconds */
#if !defined(TARGET_I386) && TARGET_ABI_BITS == 32
   abi_long _pad;
#endif
};

/*
*  sys/resource.h
*/
```

```
#if defined(__FreeBSD__)
#define TARGET_RLIM_INFINITY    RLIM_INFINITY
#else
#define TARGET_RLIM_INFINITY    ((abi_ulong)-1)
#endif

#define TARGET_RLIMIT_CPU       0
#define TARGET_RLIMIT_FSIZE     1
#define TARGET_RLIMIT_DATA      2
#define TARGET_RLIMIT_STACK     3
#define TARGET_RLIMIT_CORE      4
#define TARGET_RLIMIT_RSS       5
#define TARGET_RLIMIT_MEMLOCK   6
#define TARGET_RLIMIT_NPROC     7
#define TARGET_RLIMIT_NOFILE    8
#define TARGET_RLIMIT_SBSIZE    9
#define TARGET_RLIMIT_AS        10
#define TARGET_RLIMIT_NPTS      11
#define TARGET_RLIMIT_SWAP      12

struct target_rlimit {
  uint64_t rlim_cur;
  uint64_t rlim_max;
};

struct target_freebsd_rusage {
  struct target_freebsd_timeval ru_utime; /* user time used */
  struct target_freebsd_timeval ru_stime; /* system time used */

  abi_long    ru_maxrss;      /* maximum resident set size */
  abi_long    ru_ixrss;       /* integral shared memory size */
  abi_long    ru_idrss;       /* integral unshared data size */
  abi_long    ru_isrss;       /* integral unshared stack size */
  abi_long    ru_minflt;      /* page reclaims */
  abi_long    ru_majflt;      /* page faults */
  abi_long    ru_nswap;       /* swaps */
  abi_long    ru_inblock;     /* block input operations */
  abi_long    ru_oublock;     /* block output operations */
  abi_long    ru_msgsnd;      /* messages sent */
  abi_long    ru_msgrcv;      /* messages received */
  abi_long    ru_nsignals;    /* signals received */
  abi_long    ru_nvcsw;       /* voluntary context switches */
  abi_long    ru_nivcsw;      /* involuntary context switches */
};

struct target_freebsd__wrusage {
  struct target_freebsd_rusage wru_self;
  struct target_freebsd_rusage wru_children;
```

```
};

#endif /* ! _SYSCALL_DEFS_H_ */
```

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```
/*
*  i386 sysarch system call emulation
*
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*/

#ifndef BSD_USER_ARCH_SYSARCH_H_
#define BSD_USER_ARCH_SYSARCH_H_

#include "target_syscall.h"

static inline abi_long do_freebsd_arch_sysarch(CPUX86State *env, int op,
      abi_ulong parms)
{
  abi_long ret = 0;
  abi_ulong val;
  int idx;

  switch
 (op) {
  case TARGET_FREEBSD_I386_SET_GSBASE:
  case TARGET_FREEBSD_I386_SET_FSBASE:
     if (op == TARGET_FREEBSD_I386_SET_GSBASE) {
        idx = R_GS;
     } else {
        idx = R_FS;
     }
     if (get_user(val, parms, abi_ulong)) {
        return -TARGET_EFAULT;
```

```
        }
        cpu_x86_load_seg(env, idx, 0);
        env->segs[idx].base = val;
        break;

    case TARGET_FREEBSD_I386_GET_GSBASE:
    case TARGET_FREEBSD_I386_GET_FSBASE:
        if (op == TARGET_FREEBSD_I386_GET_GSBASE) {
            idx = R_GS;
        } else {
            idx = R_FS;
        }
        val = env->segs[idx].base;
        if (put_user(val, parms, abi_ulong)) {
            return -TARGET_EFAULT;
        }
        break;

    /* XXX handle the others... */
    default:
        ret = -TARGET_EINVAL;
        break;
    }
    return ret;
}

static inline void do_freebsd_arch_print_sysarch(
        const struct syscallname *name, abi_long arg1, abi_long arg2,

    abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

    gemu_log("%s(%d, " TARGET_ABI_FMT_lx ", " TARGET_ABI_FMT_lx ", "
        TARGET_ABI_FMT_lx ")", name->name, (int)arg1, arg2, arg3, arg4);
}

#endif /* !BSD_USER_ARCH_SYSARCH_H_ */
#ifndef _TARGET_OS_SIGINFO_H_
#define _TARGET_OS_SIGINFO_H_

#define TARGET_NSIG     32  /* counting 0; could be 33 (mask is 1-32) */
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall handling */
typedef struct target_sigaltstack {
    abi_long    ss_sp;
    abi_ulong   ss_size;
```

```
  abi_long    ss_flags;
} target_stack_t;

typedef struct {
  uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t

struct target_sigaction {
  abi_ulong   _sa_handler;
  int32_t     sa_flags;
  target_sigset_t sa_mask;
};

/* Compare to sys/siginfo.h */
typedef union target_sigval {
  int         sival_int;
  abi_ulong   sival_ptr;
} target_sigval_t;

struct target_ksiginfo {
  int32_t     _signo;
  int32_t     _code;
  int32_t     _errno;
#if TARGET_ABI_BITS == 64
  int32_t     _pad;
#endif
  union {
    struct {
      int32_t           _pid;
      int32_t
        _uid;
      target_sigval_t    _value;
    } _rt;

    struct {
      int32_t           _pid;
      int32_t           _uid;
      int32_t           _struct;
      /* clock_t         _utime; */
      /* clock_t         _stime; */
    } _child;

    struct {
      abi_ulong          _addr;
      int32_t           _trap;
    } _fault;

    struct {
```

```
        long              _band;
        int               _fd;
      } _poll;
  } _reason;
};

typedef union target_siginfo {
  int8_t     si_pad[128];
  struct     target_ksiginfo  _info;
} target_siginfo_t;

#define target_si_signo     _info._signo
#define target_si_code      _info._code
#define target_si_errno     _info._errno
#define target_si_addr      _info._reason._fault._addr

#define TARGET_SEGV_MAPERR  1
#define TARGET_SEGV_ACCERR  2

#define TARGET_TRAP_BRKPT   1
#define TARGET_TRAP_TRACE   2


#endif /* ! _TARGET_OS_SIGINFO_H_
 */
/*
*  FreeBSD siginfo related definitions
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*/
#ifndef _TARGET_OS_SIGINFO_H_
#define _TARGET_OS_SIGINFO_H_

#define TARGET_NSIG        128
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
```

```
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall
 handling */
typedef struct target_sigaltstack {
  abi_long    ss_sp;
  abi_ulong   ss_size;
  abi_long    ss_flags;
} target_stack_t;

typedef struct {
  uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t;

struct target_sigaction {
  abi_ulong   _sa_handler;
  int32_t     sa_flags;
  target_sigset_t sa_mask;
};

typedef union target_sigval {
  int32_t sival_int;
  abi_ulong sival_ptr;
  int32_t sigval_int;
  abi_ulong sigval_ptr;
} target_sigval_t;

typedef struct target_siginfo {
  int32_t si_signo;   /* signal number */
  int32_t si_errno;   /* errno association */
  int32_t si_code;    /* signal code */
  int32_t si_pid;     /* sending process */
  int32_t si_uid;     /* sender's ruid */
  int32_t si_status;  /* exit value */
  abi_ulong si_addr;  /* faulting instruction */
  union target_sigval si_value;   /* signal value */
  union {
     struct {
        int32_t _trapno;    /* machine specific trap code */
     } _fault;


    /* POSIX.1b timers */
     struct {
        int32_t _timerid;
        int32_t _overrun;
     } _timer;
```

```
        struct {
            int32_t _mqd;
        } _mesgp;

        /* SIGPOLL */
        struct {
            int _band;  /* POLL_IN, POLL_OUT, POLL_MSG */
        } _poll;

        struct {
            abi_long __spare1__;
            int32_t  __spare2_[7];
        } __spare__;
    } _reason;
} target_siginfo_t;

struct target_sigevent {
    abi_int sigev_notify;
    abi_int sigev_signo;
    target_sigval_t sigev_value;
    union {
        abi_int _threadid;

        /*
         * The kernel (and thus QEMU) never looks at these;
         * they're only used as part of the ABI between a
         * userspace program and libc.
         */
        struct {
            abi_ulong _function;
            abi_ulong _attribute;
        } _sigev_thread;
        abi_ushort _kevent_flags;
        abi_long _pad[8];
    } _sigev_un;
};

#define target_si_signo     si_signo
#define
 target_si_code      si_code
#define target_si_errno     si_errno
#define target_si_addr      si_addr

/* SIGILL si_codes */
#define TARGET_ILL_ILLOPC   (1) /* Illegal opcode. */
#define TARGET_ILL_ILLOPN   (2) /* Illegal operand. */
#define TARGET_ILL_ILLADR   (3) /* Illegal addressing mode. */
#define TARGET_ILL_ILLTRP   (4) /* Illegal trap. */
```

```
#define TARGET_ILL_PRVOPC   (5) /* Privileged opcode. */
#define TARGET_ILL_PRVREG   (6) /* Privileged register. */
#define TARGET_ILL_COPROC   (7) /* Coprocessor error. */
#define TARGET_ILL_BADSTK   (8) /* Internal stack error. */

/* SIGSEGV si_codes */
#define TARGET_SEGV_MAPERR  (1) /* address not mapped to object */
#define TARGET_SEGV_ACCERR  (2) /* invalid permissions for mapped object */

/* SIGTRAP si_codes */
#define TARGET_TRAP_BRKPT   (1) /* process beakpoint */
#define TARGET_TRAP_TRACE   (2) /* process trace trap */

/* SIGBUS si_codes */
#define TARGET_BUS_ADRALN   (1)
#define TARGET_BUS_ADRERR   (2)
#define TARGET_BUS_OBJERR
  (3)

/* SIGFPE codes */
#define TARGET_FPE_INTOVF   (1) /* Integer overflow. */
#define TARGET_FPE_INTDIV   (2) /* Integer divide by zero. */
#define TARGET_FPE_FLTDIV   (3) /* Floating point divide by zero. */
#define TARGET_FPE_FLTOVF   (4) /* Floating point overflow. */
#define TARGET_FPE_FLTUND   (5) /* Floating point underflow. */
#define TARGET_FPE_FLTRES   (6) /* Floating point inexact result. */
#define TARGET_FPE_FLTINV   (7) /* Invalid floating point operation. */
#define TARGET_FPE_FLTSUB   (8) /* Subscript out of range. */

#endif /* !_TARGET_OS_SIGINFO_H_ */
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*  x86_64 sysarch() syscall emulation
*
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*/
```

```
#ifndef BSD_USER_ARCH_SYSARCH_H_
#define BSD_USER_ARCH_SYSARCH_H_

#include "target_syscall.h"

static inline abi_long do_freebsd_arch_sysarch(CPUX86State *env, int op,
      abi_ulong parms)
{
  abi_long ret = 0;
  abi_ulong val;
  int idx;

  switch (op) {
  case TARGET_FREEBSD_AMD64_SET_GSBASE:
   case TARGET_FREEBSD_AMD64_SET_FSBASE:
     if (op == TARGET_FREEBSD_AMD64_SET_GSBASE) {
        idx = R_GS;
     } else {
        idx = R_FS;
     }
     if (get_user(val, parms, abi_ulong)) {
        return -TARGET_EFAULT;
     }
     cpu_x86_load_seg(env, idx, 0);
     env->segs[idx].base = val;
     break;

  case TARGET_FREEBSD_AMD64_GET_GSBASE:
  case TARGET_FREEBSD_AMD64_GET_FSBASE:
     if (op == TARGET_FREEBSD_AMD64_GET_GSBASE) {
        idx = R_GS;
     } else {
        idx = R_FS;
     }
     val = env->segs[idx].base;
     if (put_user(val, parms, abi_ulong)) {
        return -TARGET_EFAULT;
     }
     break;

  /* XXX handle the others... */
  default:
     ret = -TARGET_EINVAL;
     break;
  }
  return ret;
}
```

```
static inline void do_freebsd_arch_print_sysarch(
      const struct syscallname *name, abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4,
 abi_long arg5, abi_long arg6)
{

  gemu_log("%s(%d, " TARGET_ABI_FMT_lx ", " TARGET_ABI_FMT_lx ", "
     TARGET_ABI_FMT_lx ")", name->name, (int)arg1, arg2, arg3, arg4);
}

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

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file:
 /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
```

```
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
   target += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", target);
   TRACE_AND_STEP();
-  if (cond)
+   if (cond) {
       M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+  // perform the byte swap
+  s32 temp = reg;
+  reg = (temp & 0xFF000000) >> 24;
+  reg |= (temp & 0xFF0000) >> 8;
+  reg |= (temp & 0xFF00) << 8;
+  reg |= (temp & 0xFF) << 24;
+  return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+
   /* byte swap 32 bit register */
+   START_OF_INSTR();
+   DECODE_PRINTF("BSWAP\t");
+   switch (op2) {
+     case 0xc8:
+       DECODE_PRINTF("EAX\n");
+       M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+       break;
+     case 0xc9:
+       DECODE_PRINTF("ECX\n");
+       M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+       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 ");
+    }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
```

```
   }
   while (count--) {
@@ -2526,6 +2534,8 @@
       store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2559,9 +2569,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2574,6 +2586,8 @@
       }
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2598,16 +2612,21 @@

   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
           val1 = fetch_data_byte(M.x86.R_SI);
           val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
```

```
+
             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val1 = fetch_data_long(M.x86.R_SI);
             val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
             val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word((u16)val1, (u16)val2);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+          if (M.x86.intr & INTR_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;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2817,11 +2850,16 @@
       inc = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
```

```
          M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
+          if (M.x86.intr & INTR_HALTED)
+
            break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2859,9 +2897,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R_CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+          M.x86.R_ECX = 0;
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2871,6 +2911,8 @@
         M.x86.R_AX = fetch_data_word(M.x86.R_SI);
      }
      M.x86.R_SI += inc;
+      if (M.x86.intr & INTR_HALTED)
+         break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2894,26 +2936,36 @@
      inc = 1;
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /*
 REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
```

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

          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_byte(M.x86.R_AL, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+           else
+             M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
              break;         /* zero flag set means equal */
+           if (M.x86.intr & INTR_HALTED)
+             break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX,
 val);
@@ -2960,16 +3012,21 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
```

```
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF) == 0)
             break;
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
       /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_long(M.x86.R_EAX,
 val);
@@ -2977,10 +3034,15 @@
             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word(M.x86.R_AX, (u16)val);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF))
             break;          /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
  TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
```

```
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -3254,9 +3316,9
 @@
 {
   START_OF_INSTR();
   DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
 }
@@ -3471,10 +3533,10 @@
   DECODE_PRINTF("RETF\t");
   imm = fetch_word_imm();
   DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -3488,10 +3550,10 @@
 {
   START_OF_INSTR();
   DECODE_PRINTF("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();
 }
@@ -4020,8 +4082,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
```

```
+       M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+    else
+       M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+    else
+       M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
        M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
 }
@@ -4213,6 +4286,7 @@
```

```
   ip = (s16)fetch_word_imm();
   ip += (s16)M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs,
 M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
   TRACE_AND_STEP();
   M.x86.R_IP = (u16)ip;
   DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
   cs = fetch_word_imm();
   DECODE_PRINTF2("%04x:", cs);
   DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
   TRACE_AND_STEP();
   M.x86.R_IP = ip;
   M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
   offset = (s8)fetch_byte_imm();
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
   TRACE_AND_STEP();
   M.x86.R_IP = target;
   DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
   DECODE_PRINTF("REPNE\n");
   TRACE_AND_STEP();
   M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
 }
@@ -4371,6 +4449,8 @@
   DECODE_PRINTF("REPE\n");
   TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
 }
@@ -5013,12 +5093,14 @@
           break;
       case 4:         /* jmp word ptr ... */
           destval = fetch_data_word(destoffset);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
           TRACE_AND_STEP();
```

```
          M.x86.R_IP = destval;
          break;
       case 5:         /* jmp far ptr ... */
          destval = fetch_data_word(destoffset);
          destval2 = fetch_data_word(destoffset + 2);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
          TRACE_AND_STEP();
          M.x86.R_IP = destval;
          M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -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) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
   }
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* out until CX is ZERO. */
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* out until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                M.x86.R_ECX : M.x86.R_CX);
       while (count--) {
         single_out(size);
         M.x86.R_SI += inc;
         }
       M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
       }
       M.x86.mode
 &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#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

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()      (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()        0
# define DEBUG_TRACECALL()     0
# define DEBUG_TRACECALLREGS()  0
+# define DEBUG_TRACEJMP()
      0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()           0
# define DEBUG_MEM_TRACE()     0
# define DEBUG_IO_TRACE()      0
```

```
@@ -169,14 +171,20 @@
  x86emu_dump_regs();                                   \
 if (DEBUG_TRACECALL())                                 \
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                           \
+# define RETURN_TRACE(u,v,w,x,s)                       \
 if (DEBUG_TRACECALLREGS())        \
  x86emu_dump_regs();                                   \
 if (DEBUG_TRACECALL())                                 \
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                         \
+   if (DEBUG_TRACEJMPREGS()) \
+     x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+     printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
 #else
 # define CALL_TRACE(u,v,w,x,s)
-#
- define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
 #endif

 #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   | \
-       SYSMODE_PREFIX_ADDR)
+       SYSMODE_PREFIX_ADDR | \
+       SYSMODE_32BIT_REP)

 typedef struct {
```

```
+       SYSMODE_PREFIX_ADDR   | \
+       SYSMODE_32BIT_REP)

#define  INTR_SYNCH          0x1
#define  INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
     */
    u32                     mode;
    volatile int              intr;   /* mask of pending interrupts */
- int                     debug;
+    volatile int                    debug;
#ifdef DEBUG
- int                     check;
+    int                     check;
    u16                     saved_ip;
    u16                     saved_cs;
    int                     enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

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

void  X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef  __cplusplus
}                       /* End of "C" linkage for C++    */
#endif
-
```

#endif /* __X86EMU_X86EMU_H */
Licensing and contribution policy of dtc and libfdt
==========

This dtc package contains two pieces of software: dtc itself, and
libfdt which comprises the files in the libfdt/ subdirectory. These
two pieces of software, although closely related, are quite distinct.
dtc does not incorporate or rely on libfdt for its operation, nor vice
versa. It is important that these two pieces of software have
different license conditions.

As SPDX license tags in each source file attest, dtc is licensed
under the GNU GPL. The full text of the GPL can be found in the file
entitled 'GPL' which should be included in this package. dtc code,
therefore, may not be incorporated into works which do not have a GPL
compatible license.

libfdt, however, is GPL/BSD dual-licensed. That is, it may be used
either under the terms of the GPL, or under the terms of the 2-clause
BSD license (aka the ISC license). The full terms of that license can
be found are in the file
entitled 'BSD-2-Clause'. This is, in
practice, equivalent to being BSD licensed, since the terms of the BSD
license are strictly more permissive than the GPL.

I made the decision to license libfdt in this way because I want to
encourage widespread and correct usage of flattened device trees,
including by proprietary or otherwise GPL-incompatible firmware or
tools. Allowing libfdt to be used under the terms of the BSD license
makes that it easier for vendors or authors of such software to do so.

This does mean that libfdt code could be "stolen" - say, included in a
proprietary fimware and extended without contributing those extensions
back to the libfdt mainline. While I hope that doesn't happen, I
believe the goal of allowing libfdt to be widely used is more
important than avoiding that. libfdt is quite small, and hardly
rocket science; so the incentive for such impolite behaviour is small,
and the inconvenience caused thereby is not dire.

Licenses such as the LGPL which would
allow code to be used in non-GPL
software, but also require contributions to be returned were
considered. However, libfdt is designed to be used in firmwares and
other environments with unusual technical constraints. It's difficult
to anticipate all possible changes which might be needed to meld
libfdt into such environments and so difficult to suitably word a
license that puts the boundary between what is and isn't permitted in
the intended place. Again, I judged encouraging widespread use of

libfdt by keeping the license terms simple and familiar to be the more
important goal.

IMPORTANT It's intended that all of libfdt as released remain
permissively licensed this way. Therefore only contributions which
are released under these terms can be merged into the libfdt mainline.

David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

```
/*
*  netbsd ELF definitions
*
*  Copyright (c) 2013 Stacey D. Son
*
*  This program is free software; you can redistribute it and/or modify
*  it under the terms of the GNU General Public License as published by
*  the Free Software Foundation; either version 2 of the License, or
*  (at your option) any later version.
*
*  This program is distributed in the hope that it will be useful,
*  but WITHOUT ANY WARRANTY; without even the implied warranty of
*  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
*  GNU General Public License for more details.
*
*  You should have received a copy of the GNU General Public License
*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/
#ifndef _TARGET_OS_ELF_H_
#define _TARGET_OS_ELF_H_

#include "target_arch_elf.h"
#include "elf.h"

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define
 ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
```

```
#endif

#ifndef ELF_HWCAP
#define ELF_HWCAP 0
#endif

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
     ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 12

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,
                                abi_ulong stringp,
                                struct elfhdr *exec,
                                abi_ulong load_addr,
                                 abi_ulong load_bias,
                                abi_ulong interp_load_addr,
                                struct image_info *info)
{
     abi_ulong sp;
     int size;
     abi_ulong u_platform;
     const char *k_platform;
     const int n = sizeof(elf_addr_t);

     sp = p;
     u_platform = 0;
     k_platform = ELF_PLATFORM;
     if (k_platform) {
        size_t len = strlen(k_platform) + 1;
        sp -= (len + n - 1) & ~(n - 1);
        u_platform = sp;
```

```
            /* FIXME - check return value of memcpy_to_target() for failure */
            memcpy_to_target(sp, k_platform, len);
        }
        /*
         * Force 16 byte _final_ alignment here for generality.
         */
        sp = sp & ~(abi_ulong)15;
        size = (DLINFO_ITEMS + 1) * 2;
        if (k_platform) {
            size += 2;
        }
#ifdef DLINFO_ARCH_ITEMS
        size += DLINFO_ARCH_ITEMS * 2;
#endif
         size += envc + argc + 2;
        size += 1;                      /* argc itself */
        size *= n;
        if (size & 15) {
            sp -= 16 - (size & 15);
        }

        /*
         * NetBSD defines elf_addr_t as Elf32_Off / Elf64_Off
         */
#define NEW_AUX_ENT(id, val) do {               \
            sp -= n; put_user_ual(val, sp);     \
            sp -= n; put_user_ual(id, sp);      \
          } while (0)

        NEW_AUX_ENT(AT_NULL, 0);

        /* There must be exactly DLINFO_ITEMS entries here.  */
        NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
        NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
        NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
        NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
        NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
        NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
        NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
        NEW_AUX_ENT(AT_UID,
    (abi_ulong)getuid());
        NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
        NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
        NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
        NEW_AUX_ENT(AT_HWCAP, (abi_ulong)ELF_HWCAP);
        NEW_AUX_ENT(AT_CLKTCK, (abi_ulong)sysconf(_SC_CLK_TCK));
        if (k_platform) {
            NEW_AUX_ENT(AT_PLATFORM, u_platform);
```

```
	}
#ifdef ARCH_DLINFO
	/*
	 * ARCH_DLINFO must come last so platform specific code can enforce
	 * special alignment requirements on the AUXV if necessary (eg. PPC).
	 */
	ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

	sp = loader_build_argptr(envc, argc, sp, stringp);
	return sp;
}

#endif /* _TARGET_OS_ELF_H_ */
```

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Version 2, June 1991

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```
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*  FreeBSD dependent strace print functions
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*/

#include "target_arch_sysarch.h"    /* architecture dependent functions */


static inline void do_os_print_sysarch(const struct syscallname *name,
      abi_long arg1, abi_long arg2, abi_long arg3, abi_long arg4,
      abi_long arg5, abi_long arg6)
{
   /* This is arch dependent */
  do_freebsd_arch_print_sysarch(name, arg1, arg2, arg3, arg4, arg5, arg6);
}
```

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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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Any executables containing that work also fall under Section 6,
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*
*      @(#)errno.h     8.5 (Berkeley) 1/21/94
*/

#ifndef _ERRNO_DEFS_H_
#define _ERRNO_DEFS_H_

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

```
#define TARGET_EPIPE            32              /* Broken pipe */

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

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

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

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

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

/* should be rearranged */
#define TARGET_EHOSTDOWN        64              /* Host is down */
```

```
#define TARGET_EHOSTUNREACH     65              /* No route to host */
#define TARGET_ENOTEMPTY        66              /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67              /* Too many processes */
#define TARGET_EUSERS           68              /* Too many users */
#define TARGET_EDQUOT           69              /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE           70              /* Stale NFS file handle */
#define TARGET_EREMOTE          71              /* Too many levels of remote in path */
#define TARGET_EBADRPC          72              /* RPC struct is bad */
#define TARGET_ERPCMISMATCH     73              /* RPC version wrong */
#define TARGET_EPROGUNAVAIL     74              /*
 RPC prog. not avail */
#define TARGET_EPROGMISMATCH    75              /* Program version wrong */
#define TARGET_EPROCUNAVAIL     76              /* Bad procedure for program */

#define TARGET_ENOLCK           77              /* No locks available */
#define TARGET_ENOSYS           78              /* Function not implemented */

#define TARGET_EFTYPE           79              /* Inappropriate file type or format */
#define TARGET_EAUTH            80              /* Authentication error */
#define TARGET_ENEEDAUTH        81              /* Need authenticator */
#define TARGET_EIPSEC           82              /* IPsec processing failure */
#define TARGET_ENOATTR          83              /* Attribute not found */
#define TARGET_EILSEQ           84              /* Illegal byte sequence */
#define TARGET_ENOMEDIUM        85              /* No medium found */
#define TARGET_EMEDIUMTYPE      86              /* Wrong Medium Type */
#define TARGET_EOVERFLOW        87              /* Conversion
 overflow */
#define TARGET_ECANCELED        88              /* Operation canceled */
#define TARGET_EIDRM            89              /* Identifier removed */
#define TARGET_ENOMSG           90              /* No message of desired type */
#define TARGET_ELAST            90              /* Must be equal largest errno */

/* Internal errors: */
#define TARGET_EJUSTRETURN      254             /* Just return without modifing regs */
#define TARGET_ERESTART         255             /* Restart syscall */
#define TARGET_ERESTARTSYS      TARGET_ERESTART /* Linux compat */

#endif /* !  _ERRNO_DEFS_H_ */
/* XXX OpenBSD dependent strace print functions */
```

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```
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*
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*/

#ifndef BSD_USER_ARCH_SYSARCH_H_
#define BSD_USER_ARCH_SYSARCH_H_

#include "target_syscall.h"
#include "target_arch.h"

static inline abi_long do_freebsd_arch_sysarch(CPUMIPSState *env, int op,
    abi_ulong parms)
```

```
{
  int ret = 0;

  switch (op)
 {
  case TARGET_MIPS_SET_TLS:
     target_cpu_set_tls(env, parms);
     break;

  case TARGET_MIPS_GET_TLS:
     if (put_user(target_cpu_get_tls(env), parms, abi_ulong)) {
        ret = -TARGET_EFAULT;
     }
     break;

  default:
     ret = -TARGET_EINVAL;
     break;
  }

  return ret;
}

static inline void do_freebsd_arch_print_sysarch(
     const struct syscallname *name, abi_long arg1, abi_long arg2,
     abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

  switch (arg1) {
  case TARGET_MIPS_SET_TLS:
     gemu_log("%s(SET_TLS, 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
     break;

  case TARGET_MIPS_GET_TLS:
     gemu_log("%s(GET_TLS, 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
     break;

  default:
     gemu_log("UNKNOWN OP: %d, " TARGET_ABI_FMT_lx ")", (int)arg1, arg2);
  }
}

#endif /*!BSD_USER_ARCH_SYSARCH_H_ */
```

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```
/*
* System call numbers.
*
* DO NOT EDIT-- this file is automatically @generated.
* $FreeBSD$
*/

#define TARGET_FREEBSD_NR_syscall       0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
                        /* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink        10
                        /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir        13
#define TARGET_FREEBSD_NR_freebsd11_mknod       14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
                        /* 18 is freebsd4 getfsstat */
                        /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid        20
#define TARGET_FREEBSD_NR_mount 21
#define
 TARGET_FREEBSD_NR_unmount       22
#define TARGET_FREEBSD_NR_setuid        23
#define TARGET_FREEBSD_NR_getuid        24
#define TARGET_FREEBSD_NR_geteuid       25
#define TARGET_FREEBSD_NR_ptrace        26
```

```
#define TARGET_FREEBSD_NR_recvmsg       27
#define TARGET_FREEBSD_NR_sendmsg       28
#define TARGET_FREEBSD_NR_recvfrom      29
#define TARGET_FREEBSD_NR_accept        30
#define TARGET_FREEBSD_NR_getpeername   31
#define TARGET_FREEBSD_NR_getsockname   32
#define TARGET_FREEBSD_NR_access        33
#define TARGET_FREEBSD_NR_chflags       34
#define TARGET_FREEBSD_NR_fchflags      35
#define TARGET_FREEBSD_NR_sync  36
#define TARGET_FREEBSD_NR_kill  37
                        /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid       39
                        /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup   41
#define TARGET_FREEBSD_NR_freebsd10_pipe        42
#define TARGET_FREEBSD_NR_getegid       43
#define TARGET_FREEBSD_NR_profil        44
#define
 TARGET_FREEBSD_NR_ktrace        45
                        /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid        47
                        /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin      49
#define TARGET_FREEBSD_NR_setlogin      50
#define TARGET_FREEBSD_NR_acct  51
                        /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack   53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot        55
#define TARGET_FREEBSD_NR_revoke        56
#define TARGET_FREEBSD_NR_symlink       57
#define TARGET_FREEBSD_NR_readlink      58
#define TARGET_FREEBSD_NR_execve        59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot        61
                        /* 62 is old fstat */
                        /* 63 is old getkerninfo */
                        /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66

                    /* 67 is obsolete vread */
                        /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk  69
#define TARGET_FREEBSD_NR_sstk  70
                        /* 71 is old mmap */
#define TARGET_FREEBSD_NR_freebsd11_vadvise     72
```

```
#define TARGET_FREEBSD_NR_munmap        73
#define TARGET_FREEBSD_NR_mprotect      74
#define TARGET_FREEBSD_NR_madvise       75
                        /* 76 is obsolete vhangup */
                        /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore       78
#define TARGET_FREEBSD_NR_getgroups     79
#define TARGET_FREEBSD_NR_setgroups     80
#define TARGET_FREEBSD_NR_getpgrp       81
#define TARGET_FREEBSD_NR_setpgid       82
#define TARGET_FREEBSD_NR_setitimer     83
                        /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon        85
#define TARGET_FREEBSD_NR_getitimer     86
                        /* 87 is old gethostname */

                    /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2  90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select        93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority   96
#define TARGET_FREEBSD_NR_socket        97
#define TARGET_FREEBSD_NR_connect       98
                        /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority   100
                        /* 101 is old send */
                        /* 102 is old recv */
                        /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind  104
#define TARGET_FREEBSD_NR_setsockopt    105
#define TARGET_FREEBSD_NR_listen        106
                        /* 107 is obsolete vtimes */
                        /* 108 is old sigvec */
                        /* 109 is old sigblock */
                        /* 110 is old sigsetmask */
                         /* 111 is old sigsuspend */
                        /* 112 is old sigstack */
                        /* 113 is old recvmsg */
                        /* 114 is old sendmsg */
                        /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage     117
#define TARGET_FREEBSD_NR_getsockopt    118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev        121
#define TARGET_FREEBSD_NR_settimeofday  122
```

```
#define TARGET_FREEBSD_NR_fchown        123
#define TARGET_FREEBSD_NR_fchmod        124
                        /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid      126
#define TARGET_FREEBSD_NR_setregid      127
#define TARGET_FREEBSD_NR_rename        128
                        /* 129 is old truncate */
                        /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo
    132
#define TARGET_FREEBSD_NR_sendto        133
#define TARGET_FREEBSD_NR_shutdown      134
#define TARGET_FREEBSD_NR_socketpair    135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes        138
                        /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime       140
                        /* 141 is old getpeername */
                        /* 142 is old gethostid */
                        /* 143 is old sethostid */
                        /* 144 is old getrlimit */
                        /* 145 is old setrlimit */
                        /* 146 is old killpg */
#define TARGET_FREEBSD_NR_setsid        147
#define TARGET_FREEBSD_NR_quotactl      148
                        /* 149 is old quota */
                        /* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall   154
#define TARGET_FREEBSD_NR_nfssvc
    155
                        /* 156 is old getdirentries */
                        /* 157 is freebsd4 statfs */
                        /* 158 is freebsd4 fstatfs */
#define TARGET_FREEBSD_NR_lgetfh        160
#define TARGET_FREEBSD_NR_getfh 161
                        /* 162 is freebsd4 getdomainname */
                        /* 163 is freebsd4 setdomainname */
                        /* 164 is freebsd4 uname */
#define TARGET_FREEBSD_NR_sysarch       165
#define TARGET_FREEBSD_NR_rtprio        166
#define TARGET_FREEBSD_NR_semsys        169
#define TARGET_FREEBSD_NR_msgsys        170
#define TARGET_FREEBSD_NR_shmsys        171
                        /* 173 is freebsd6 pread */
                        /* 174 is freebsd6 pwrite */
#define TARGET_FREEBSD_NR_setfib        175
```

```
#define TARGET_FREEBSD_NR_ntp_adjtime   176
#define TARGET_FREEBSD_NR_setgid        181
#define TARGET_FREEBSD_NR_setegid
   182
#define TARGET_FREEBSD_NR_seteuid       183
                        /* 184 is obsolete lfs_bmapv */
                        /* 185 is obsolete lfs_markv */
                        /* 186 is obsolete lfs_segclean */
                        /* 187 is obsolete lfs_segwait */
#define TARGET_FREEBSD_NR_freebsd11_stat        188
#define TARGET_FREEBSD_NR_freebsd11_fstat       189
#define TARGET_FREEBSD_NR_freebsd11_lstat       190
#define TARGET_FREEBSD_NR_pathconf      191
#define TARGET_FREEBSD_NR_fpathconf     192
#define TARGET_FREEBSD_NR_getrlimit     194
#define TARGET_FREEBSD_NR_setrlimit     195
#define TARGET_FREEBSD_NR_freebsd11_getdirentries       196
                        /* 197 is freebsd6 mmap */
#define TARGET_FREEBSD_NR___syscall     198
                        /* 199 is freebsd6 lseek */
                        /* 200 is freebsd6 truncate */
                        /* 201 is freebsd6 ftruncate */
#define
 TARGET_FREEBSD_NR___sysctl      202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock       204
#define TARGET_FREEBSD_NR_undelete      205
#define TARGET_FREEBSD_NR_futimes       206
#define TARGET_FREEBSD_NR_getpgid       207
#define TARGET_FREEBSD_NR_poll  209
#define TARGET_FREEBSD_NR_freebsd7___semctl     220
#define TARGET_FREEBSD_NR_semget        221
#define TARGET_FREEBSD_NR_semop 222
                        /* 223 is obsolete semconfig */
#define TARGET_FREEBSD_NR_freebsd7_msgctl       224
#define TARGET_FREEBSD_NR_msgget        225
#define TARGET_FREEBSD_NR_msgsnd        226
#define TARGET_FREEBSD_NR_msgrcv        227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl       229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget        231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres  234
#define TARGET_FREEBSD_NR_ktimer_create
 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
```

```
#define TARGET_FREEBSD_NR_ktimer_settime        237
#define TARGET_FREEBSD_NR_ktimer_gettime        238
#define TARGET_FREEBSD_NR_ktimer_getoverrun     239
#define TARGET_FREEBSD_NR_nanosleep     240
#define TARGET_FREEBSD_NR_ffclock_getcounter    241
#define TARGET_FREEBSD_NR_ffclock_setestimate   242
#define TARGET_FREEBSD_NR_ffclock_getestimate   243
#define TARGET_FREEBSD_NR_clock_nanosleep       244
#define TARGET_FREEBSD_NR_clock_getcpuclockid2  247
#define TARGET_FREEBSD_NR_ntp_gettime   248
#define TARGET_FREEBSD_NR_minherit      250
#define TARGET_FREEBSD_NR_rfork 251
                        /* 252 is obsolete openbsd_poll */
#define TARGET_FREEBSD_NR_issetugid     253
#define TARGET_FREEBSD_NR_lchown        254
#define TARGET_FREEBSD_NR_aio_read      255
#define TARGET_FREEBSD_NR_aio_write     256
#define TARGET_FREEBSD_NR_lio_listio    257
#define TARGET_FREEBSD_NR_freebsd11_getdents    272
#define TARGET_FREEBSD_NR_lchmod
      274
                        /* 275 is obsolete netbsd_lchown */
#define TARGET_FREEBSD_NR_lutimes       276
                        /* 277 is obsolete netbsd_msync */
#define TARGET_FREEBSD_NR_freebsd11_nstat       278
#define TARGET_FREEBSD_NR_freebsd11_nfstat      279
#define TARGET_FREEBSD_NR_freebsd11_nlstat      280
#define TARGET_FREEBSD_NR_preadv        289
#define TARGET_FREEBSD_NR_pwritev       290
                        /* 297 is freebsd4 fhstatfs */
#define TARGET_FREEBSD_NR_fhopen        298
#define TARGET_FREEBSD_NR_freebsd11_fhstat      299
#define TARGET_FREEBSD_NR_modnext       300
#define TARGET_FREEBSD_NR_modstat       301
#define TARGET_FREEBSD_NR_modfnext      302
#define TARGET_FREEBSD_NR_modfind       303
#define TARGET_FREEBSD_NR_kldload       304
#define TARGET_FREEBSD_NR_kldunload     305
#define TARGET_FREEBSD_NR_kldfind       306
#define TARGET_FREEBSD_NR_kldnext       307
#define TARGET_FREEBSD_NR_kldstat       308
#define
 TARGET_FREEBSD_NR_kldfirstmod   309
#define TARGET_FREEBSD_NR_getsid        310
#define TARGET_FREEBSD_NR_setresuid     311
#define TARGET_FREEBSD_NR_setresgid     312
                        /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return    314
```

```
#define TARGET_FREEBSD_NR_aio_suspend   315
#define TARGET_FREEBSD_NR_aio_cancel    316
#define TARGET_FREEBSD_NR_aio_error     317
                        /* 318 is freebsd6 aio_read */
                        /* 319 is freebsd6 aio_write */
                        /* 320 is freebsd6 lio_listio */
#define TARGET_FREEBSD_NR_yield 321
                        /* 322 is obsolete thr_sleep */
                        /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall      324
#define TARGET_FREEBSD_NR_munlockall    325
#define TARGET_FREEBSD_NR___getcwd      326
#define TARGET_FREEBSD_NR_sched_setparam        327
#define TARGET_FREEBSD_NR_sched_getparam
    328
#define TARGET_FREEBSD_NR_sched_setscheduler    329
#define TARGET_FREEBSD_NR_sched_getscheduler    330
#define TARGET_FREEBSD_NR_sched_yield   331
#define TARGET_FREEBSD_NR_sched_get_priority_max        332
#define TARGET_FREEBSD_NR_sched_get_priority_min        333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace        335
                        /* 336 is freebsd4 sendfile */
#define TARGET_FREEBSD_NR_kldsym        337
#define TARGET_FREEBSD_NR_jail  338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask   340
#define TARGET_FREEBSD_NR_sigsuspend    341
                        /* 342 is freebsd4 sigaction */
#define TARGET_FREEBSD_NR_sigpending    343
                        /* 344 is freebsd4 sigreturn */
#define TARGET_FREEBSD_NR_sigtimedwait  345
#define TARGET_FREEBSD_NR_sigwaitinfo   346
#define TARGET_FREEBSD_NR___acl_get_file        347
#define TARGET_FREEBSD_NR___acl_set_file
    348
#define TARGET_FREEBSD_NR___acl_get_fd  349
#define TARGET_FREEBSD_NR___acl_set_fd  350
#define TARGET_FREEBSD_NR___acl_delete_file     351
#define TARGET_FREEBSD_NR___acl_delete_fd       352
#define TARGET_FREEBSD_NR___acl_aclcheck_file   353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd     354
#define TARGET_FREEBSD_NR_extattrctl    355
#define TARGET_FREEBSD_NR_extattr_set_file      356
#define TARGET_FREEBSD_NR_extattr_get_file      357
#define TARGET_FREEBSD_NR_extattr_delete_file   358
#define TARGET_FREEBSD_NR_aio_waitcomplete      359
#define TARGET_FREEBSD_NR_getresuid     360
```

```
#define TARGET_FREEBSD_NR_getresgid     361
#define TARGET_FREEBSD_NR_kqueue        362
#define TARGET_FREEBSD_NR_freebsd11_kevent      363
                        /* 364 is obsolete __cap_get_proc */
                        /* 365 is obsolete __cap_set_proc */
                        /* 366 is obsolete __cap_get_fd */
                        /* 367 is obsolete
 __cap_get_file */
                        /* 368 is obsolete __cap_set_fd */
                        /* 369 is obsolete __cap_set_file */
#define TARGET_FREEBSD_NR_extattr_set_fd        371
#define TARGET_FREEBSD_NR_extattr_get_fd        372
#define TARGET_FREEBSD_NR_extattr_delete_fd     373
#define TARGET_FREEBSD_NR___setugid     374
                        /* 375 is obsolete nfsclnt */
#define TARGET_FREEBSD_NR_eaccess       376
#define TARGET_FREEBSD_NR_afs3_syscall  377
#define TARGET_FREEBSD_NR_nmount        378
                        /* 379 is obsolete kse_exit */
                        /* 380 is obsolete kse_wakeup */
                        /* 381 is obsolete kse_create */
                        /* 382 is obsolete kse_thr_interrupt */
                        /* 383 is obsolete kse_release */
#define TARGET_FREEBSD_NR___mac_get_proc        384
#define TARGET_FREEBSD_NR___mac_set_proc        385
#define TARGET_FREEBSD_NR___mac_get_fd
 386
#define TARGET_FREEBSD_NR___mac_get_file        387
#define TARGET_FREEBSD_NR___mac_set_fd  388
#define TARGET_FREEBSD_NR___mac_set_file        389
#define TARGET_FREEBSD_NR_kenv  390
#define TARGET_FREEBSD_NR_lchflags      391
#define TARGET_FREEBSD_NR_uuidgen       392
#define TARGET_FREEBSD_NR_sendfile      393
#define TARGET_FREEBSD_NR_mac_syscall   394
#define TARGET_FREEBSD_NR_freebsd11_getfsstat   395
#define TARGET_FREEBSD_NR_freebsd11_statfs      396
#define TARGET_FREEBSD_NR_freebsd11_fstatfs     397
#define TARGET_FREEBSD_NR_freebsd11_fhstatfs    398
#define TARGET_FREEBSD_NR_ksem_close    400
#define TARGET_FREEBSD_NR_ksem_post     401
#define TARGET_FREEBSD_NR_ksem_wait     402
#define TARGET_FREEBSD_NR_ksem_trywait  403
#define TARGET_FREEBSD_NR_ksem_init     404
#define TARGET_FREEBSD_NR_ksem_open     405
#define TARGET_FREEBSD_NR_ksem_unlink   406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy  408
```

```
#define
 TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link        410
#define TARGET_FREEBSD_NR___mac_set_link        411
#define TARGET_FREEBSD_NR_extattr_set_link      412
#define TARGET_FREEBSD_NR_extattr_get_link      413
#define TARGET_FREEBSD_NR_extattr_delete_link   414
#define TARGET_FREEBSD_NR___mac_execve  415
#define TARGET_FREEBSD_NR_sigaction     416
#define TARGET_FREEBSD_NR_sigreturn     417
#define TARGET_FREEBSD_NR_getcontext    421
#define TARGET_FREEBSD_NR_setcontext    422
#define TARGET_FREEBSD_NR_swapcontext   423
#define TARGET_FREEBSD_NR_swapoff       424
#define TARGET_FREEBSD_NR___acl_get_link        425
#define TARGET_FREEBSD_NR___acl_set_link        426
#define TARGET_FREEBSD_NR___acl_delete_link     427
#define TARGET_FREEBSD_NR___acl_aclcheck_link   428
#define TARGET_FREEBSD_NR_sigwait       429
#define TARGET_FREEBSD_NR_thr_create    430
#define TARGET_FREEBSD_NR_thr_exit      431
#define TARGET_FREEBSD_NR_thr_self      432
#define TARGET_FREEBSD_NR_thr_kill
    433
#define TARGET_FREEBSD_NR_jail_attach   436
#define TARGET_FREEBSD_NR_extattr_list_fd       437
#define TARGET_FREEBSD_NR_extattr_list_file     438
#define TARGET_FREEBSD_NR_extattr_list_link     439
                        /* 440 is obsolete kse_switchin */
#define TARGET_FREEBSD_NR_ksem_timedwait        441
#define TARGET_FREEBSD_NR_thr_suspend   442
#define TARGET_FREEBSD_NR_thr_wake      443
#define TARGET_FREEBSD_NR_kldunloadf    444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon       446
#define TARGET_FREEBSD_NR_getauid       447
#define TARGET_FREEBSD_NR_setauid       448
#define TARGET_FREEBSD_NR_getaudit      449
#define TARGET_FREEBSD_NR_setaudit      450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl      453
#define TARGET_FREEBSD_NR__umtx_op      454
#define TARGET_FREEBSD_NR_thr_new       455
#define TARGET_FREEBSD_NR_sigqueue
 456
#define TARGET_FREEBSD_NR_kmq_open      457
#define TARGET_FREEBSD_NR_kmq_setattr   458
```

```
#define TARGET_FREEBSD_NR_kmq_timedreceive      459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify    461
#define TARGET_FREEBSD_NR_kmq_unlink    462
#define TARGET_FREEBSD_NR_abort2        463
#define TARGET_FREEBSD_NR_thr_set_name  464
#define TARGET_FREEBSD_NR_aio_fsync     465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff  471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg  472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov      473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg  474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite        476
#define TARGET_FREEBSD_NR_mmap  477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate      479
#define TARGET_FREEBSD_NR_ftruncate     480
#define TARGET_FREEBSD_NR_thr_kill2     481
#define TARGET_FREEBSD_NR_freebsd12_shm_open    482
#define
 TARGET_FREEBSD_NR_shm_unlink    483
#define TARGET_FREEBSD_NR_cpuset        484
#define TARGET_FREEBSD_NR_cpuset_setid  485
#define TARGET_FREEBSD_NR_cpuset_getid  486
#define TARGET_FREEBSD_NR_cpuset_getaffinity    487
#define TARGET_FREEBSD_NR_cpuset_setaffinity    488
#define TARGET_FREEBSD_NR_faccessat     489
#define TARGET_FREEBSD_NR_fchmodat      490
#define TARGET_FREEBSD_NR_fchownat      491
#define TARGET_FREEBSD_NR_fexecve       492
#define TARGET_FREEBSD_NR_freebsd11_fstatat     493
#define TARGET_FREEBSD_NR_futimesat     494
#define TARGET_FREEBSD_NR_linkat        495
#define TARGET_FREEBSD_NR_mkdirat       496
#define TARGET_FREEBSD_NR_mkfifoat      497
#define TARGET_FREEBSD_NR_freebsd11_mknodat     498
#define TARGET_FREEBSD_NR_openat        499
#define TARGET_FREEBSD_NR_readlinkat    500
#define TARGET_FREEBSD_NR_renameat      501
#define TARGET_FREEBSD_NR_symlinkat     502
#define TARGET_FREEBSD_NR_unlinkat      503
#define TARGET_FREEBSD_NR_posix_openpt  504
#define
 TARGET_FREEBSD_NR_gssd_syscall  505
#define TARGET_FREEBSD_NR_jail_get      506
#define TARGET_FREEBSD_NR_jail_set      507
#define TARGET_FREEBSD_NR_jail_remove   508
```

```
#define TARGET_FREEBSD_NR_freebsd12_closefrom   509
#define TARGET_FREEBSD_NR___semctl      510
#define TARGET_FREEBSD_NR_msgctl        511
#define TARGET_FREEBSD_NR_shmctl        512
#define TARGET_FREEBSD_NR_lpathconf     513
                        /* 514 is obsolete cap_new */
#define TARGET_FREEBSD_NR___cap_rights_get      515
#define TARGET_FREEBSD_NR_cap_enter     516
#define TARGET_FREEBSD_NR_cap_getmode   517
#define TARGET_FREEBSD_NR_pdfork        518
#define TARGET_FREEBSD_NR_pdkill        519
#define TARGET_FREEBSD_NR_pdgetpid      520
#define TARGET_FREEBSD_NR_pselect       522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct        525
#define TARGET_FREEBSD_NR_rctl_get_rules        526
#define TARGET_FREEBSD_NR_rctl_get_limits
    527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule      529
#define TARGET_FREEBSD_NR_posix_fallocate       530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_wait6 532
#define TARGET_FREEBSD_NR_cap_rights_limit      533
#define TARGET_FREEBSD_NR_cap_ioctls_limit      534
#define TARGET_FREEBSD_NR_cap_ioctls_get        535
#define TARGET_FREEBSD_NR_cap_fcntls_limit      536
#define TARGET_FREEBSD_NR_cap_fcntls_get        537
#define TARGET_FREEBSD_NR_bindat        538
#define TARGET_FREEBSD_NR_connectat     539
#define TARGET_FREEBSD_NR_chflagsat     540
#define TARGET_FREEBSD_NR_accept4       541
#define TARGET_FREEBSD_NR_pipe2 542
#define TARGET_FREEBSD_NR_aio_mlock     543
#define TARGET_FREEBSD_NR_procctl       544
#define TARGET_FREEBSD_NR_ppoll 545
#define TARGET_FREEBSD_NR_futimens      546
#define TARGET_FREEBSD_NR_utimensat     547
                        /* 548 is obsolete numa_getaffinity
 */
                        /* 549 is obsolete numa_setaffinity */
#define TARGET_FREEBSD_NR_fdatasync     550
#define TARGET_FREEBSD_NR_fstat 551
#define TARGET_FREEBSD_NR_fstatat       552
#define TARGET_FREEBSD_NR_fhstat        553
#define TARGET_FREEBSD_NR_getdirentries 554
#define TARGET_FREEBSD_NR_statfs        555
```

```
#define TARGET_FREEBSD_NR_fstatfs       556
#define TARGET_FREEBSD_NR_getfsstat     557
#define TARGET_FREEBSD_NR_fhstatfs      558
#define TARGET_FREEBSD_NR_mknodat       559
#define TARGET_FREEBSD_NR_kevent        560
#define TARGET_FREEBSD_NR_cpuset_getdomain      561
#define TARGET_FREEBSD_NR_cpuset_setdomain      562
#define TARGET_FREEBSD_NR_getrandom     563
#define TARGET_FREEBSD_NR_getfhat       564
#define TARGET_FREEBSD_NR_fhlink        565
#define TARGET_FREEBSD_NR_fhlinkat      566
#define TARGET_FREEBSD_NR_fhreadlink    567
#define TARGET_FREEBSD_NR_funlinkat     568
#define TARGET_FREEBSD_NR_copy_file_range       569
#define TARGET_FREEBSD_NR___sysctlbyname
      570
#define TARGET_FREEBSD_NR_shm_open2     571
#define TARGET_FREEBSD_NR_shm_rename    572
#define TARGET_FREEBSD_NR_sigfastblock  573
#define TARGET_FREEBSD_NR___realpathat  574
#define TARGET_FREEBSD_NR_close_range   575
#define TARGET_FREEBSD_NR_rpctls_syscall        576
#define TARGET_FREEBSD_NR_MAXSYSCALL    577
```

License-History.txt

==========

This file contains the history of license change and contributor's agreement changes.

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Key Dates

---

* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

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* April 9, 2019

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use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
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not documented, then submit the code on development email list
for the project.
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

Your change description should use the standard format for a
commit message, and must include
your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions
for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
```

This identifier should only be provided for repositories other than
'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
identifier should only be provided for branches other than 'edk2/master'.
For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the
contribution is
made under the terms of the contribution agreement. This
agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
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==========
= Code Contributions =
==========

To make a contribution to a TianoCore project, follow these steps.
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2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under"
message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
that the project documents on its web page. If the process is
not documented, then submit the code on development email list
for the project.
5. It is preferred that contributions are submitted using the same

copyright license as the base project. When that is not possible,
then contributions using the following licenses can be accepted:
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Contributions of code put into the public domain can also be
accepted.

Contributions using other licenses might be accepted, but further
review will be required.

```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under:
TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
```

* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change.
Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
  made under the terms of the contribtion agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

==========
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--------------------------------------------------------------------------------
/*
*  x86_64 thread support
*
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/
#ifndef _TARGET_ARCH_THREAD_H_
#define _TARGET_ARCH_THREAD_H_

/* Compare to vm_machdep.c cpu_set_upcall_kse() */
static inline void target_thread_set_upcall(CPUX86State *regs, abi_ulong entry,
  abi_ulong arg, abi_ulong stack_base, abi_ulong stack_size)
{
  /* XXX
 */
}

static inline void target_thread_init(struct target_pt_regs *regs,
  struct image_info *infop)
{
  regs->rax = 0;
  regs->rsp = infop->start_stack;
```

```
  regs->rip = infop->entry;
  if (bsd_type == target_freebsd) {
      regs->rdi = infop->start_stack;
  }
}

#endif /* !_TARGET_ARCH_THREAD_H_ */
```

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Key Dates

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* August 3, 2017

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https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

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* April 9, 2019

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==========

= Code Contributions =

==========

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use in the source control commit log.

2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.

3. Your "Contributed-under" message
explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in
this document.

4. Submit your code to the TianoCore project using the process
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==========

= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is
the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.

* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

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==========
= Code Contributions =
==========

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and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution
agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
that the project documents on its web page. If the process is
not documented, then submit the code on development email list
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accepted.

Contributions using other licenses might be accepted, but further
review will be required.

```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or
attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code.  For
  example MdePkg, or MdeModulePkg UsbBusDxe.
```

* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
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John R. Hauser
2018 January 20

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/*
*  arm sysarch() system call emulation
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*/

#ifndef BSD_USER_ARCH_SYSARCH_H_
#define BSD_USER_ARCH_SYSARCH_H_

#include "target_syscall.h"
```

```
#include "target_arch.h"

static inline abi_long do_freebsd_arch_sysarch(CPUARMState *env, int op,
      abi_ulong parms)
{
  int ret = 0;

  switch (op)
 {
  case TARGET_FREEBSD_ARM_SYNC_ICACHE:
  case TARGET_FREEBSD_ARM_DRAIN_WRITEBUF:
     break;

  case TARGET_FREEBSD_ARM_SET_TP:
     target_cpu_set_tls(env, parms);
     break;

  case TARGET_FREEBSD_ARM_GET_TP:
     ret = target_cpu_get_tls(env);
     break;

  default:
     ret = -TARGET_EINVAL;
     break;
  }
  return ret;
}

static inline void do_freebsd_arch_print_sysarch(
      const struct syscallname *name, abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

  switch (arg1) {
  case TARGET_FREEBSD_ARM_SYNC_ICACHE:
     gemu_log("%s(ARM_SYNC_ICACHE, ...)", name->name);
     break;

  case TARGET_FREEBSD_ARM_DRAIN_WRITEBUF:
     gemu_log("%s(ARM_DRAIN_WRITEBUF, ...)", name->name);
     break;

  case TARGET_FREEBSD_ARM_SET_TP:
     gemu_log("%s(ARM_SET_TP, 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
     break;

  case TARGET_FREEBSD_ARM_GET_TP:
     gemu_log("%s(ARM_GET_TP,
```

```
 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
      break;

  default:
      gemu_log("UNKNOWN OP: %d, " TARGET_ABI_FMT_lx ")", (int)arg1, arg2);
  }
}

#endif /*!BSD_USER_ARCH_SYSARCH_H_ */
/*
*  FreeBSD i386 register structures
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*/

#ifndef _TARGET_ARCH_REG_H_
#define _TARGET_ARCH_REG_H_

/* See sys/i386/include/reg.h */
typedef struct target_reg {
  uint32_t      r_fs;
  uint32_t      r_es;
  uint32_t      r_ds;
  uint32_t      r_edi;
  uint32_t
      r_esi;
  uint32_t      r_ebp;
  uint32_t      r_isp;
  uint32_t      r_ebx;
  uint32_t      r_edx;
  uint32_t      r_ecx;
  uint32_t      r_eax;
  uint32_t      r_trapno;
  uint32_t      r_err;
```

```
  uint32_t        r_eip;
  uint32_t        r_cs;
  uint32_t        r_eflags;
  uint32_t        r_esp;
  uint32_t        r_ss;
  uint32_t        r_gs;
} target_reg_t;

typedef struct target_fpreg {
  uint32_t        fpr_env[7];
  uint8_t         fpr_acc[8][10];
  uint32_t        fpr_ex_sw;
  uint8_t         fpr_pad[64];
} target_fpreg_t;

static inline void target_copy_regs(target_reg_t *regs, const CPUX86State *env)
{

  regs->r_fs = env->segs[R_FS].selector & 0xffff;
  regs->r_es = env->segs[R_ES].selector & 0xffff;
  regs->r_ds = env->segs[R_DS].selector & 0xffff;

  regs->r_edi = env->regs[R_EDI];
  regs->r_esi = env->regs[R_ESI];
  regs->r_ebp = env->regs[R_EBP];
  /* regs->r_isp = env->regs[R_ISP]; XXX */
  regs->r_ebx
 = env->regs[R_EBX];
  regs->r_edx = env->regs[R_EDX];
  regs->r_ecx = env->regs[R_ECX];
  regs->r_eax = env->regs[R_EAX];
  /* regs->r_trapno = env->regs[R_TRAPNO]; XXX */
  regs->r_err = env->error_code;  /* XXX ? */
  regs->r_eip = env->eip;

  regs->r_cs = env->segs[R_CS].selector & 0xffff;

  regs->r_eflags = env->eflags;
  regs->r_esp = env->regs[R_ESP];

  regs->r_ss = env->segs[R_SS].selector & 0xffff;
  regs->r_gs = env->segs[R_GS].selector & 0xffff;
}

#endif /* !_TARGET_ARCH_REG_H_ */
/*
*  x86_64 ELF definitions
*
```

```
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*/
#ifndef _TARGET_ARCH_ELF_H_
#define _TARGET_ARCH_ELF_H_

#define ELF_START_MMAP 0x2aaaaab000ULL
#define ELF_ET_DYN_LOAD_ADDR    0x01021000
#define elf_check_arch(x) (((x) == ELF_ARCH))

#define ELF_HWCAP      0 /* FreeBSD doesn't do AT_HWCAP{,2} on x86 */

#define ELF_CLASS
    ELFCLASS64
#define ELF_DATA       ELFDATA2LSB
#define ELF_ARCH       EM_X86_64

#define USE_ELF_CORE_DUMP
#define ELF_EXEC_PAGESIZE       4096

#endif /* _TARGET_ARCH_ELF_H_ */
```

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SUCH DAMAGE.
project('bar', 'c', license: 'Apache-2.0')

executable('bar', 'bar.c')

license = meson.project_license()[0]
if license != 'Apache-2.0'
  error('The license should be Apache-2.0, but it is: ' + license)
endif

```
/*
*  FreeBSD setup_initial_stack() implementation.
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*/

#ifndef _TARGET_OS_STACK_H_
#define _TARGET_OS_STACK_H_

#include <sys/param.h>
#include "target_arch_sigtramp.h"
#include "qemu/guest-random.h"

/*
* The inital FreeBSD stack is as follows:
* (see kern/kern_exec.c exec_copyout_strings() )
 *
*  Hi Address -> char **ps_argvstr  (struct ps_strings for ps, w, etc.)
*              unsigned ps_nargvstr
*              char **ps_envstr
*  PS_STRINGS -> unsigned ps_nenvstr
*
*              machine dependent sigcode (sv_sigcode of size
*                                  sv_szsigcode)
*
*              execpath          (absolute image path for rtld)
*
*              SSP Canary        (sizeof(long) * 8)
*
*              page sizes array  (usually sizeof(u_long) )
*
*  "destp" ->    argv, env strings (up to 262144 bytes)
*/
static inline int setup_initial_stack(struct bsd_binprm *bprm,
      abi_ulong *ret_addr, abi_ulong *stringp)
```

```
{
  int i;
  abi_ulong stack_hi_addr;
  size_t execpath_len, stringspace;
  abi_ulong destp, argvp, envp, p;
  struct target_ps_strings ps_strs;
  char canary[sizeof(abi_long) * 8];

  stack_hi_addr = p = target_stkbas + target_stksiz;

  /* Save some space for ps_strings. */
  p -= sizeof(struct target_ps_strings);

   /* Add machine depedent sigcode. */
  p -= TARGET_SZSIGCODE;
  if (setup_sigtramp(p, (unsigned)offsetof(struct target_sigframe, sf_uc),
          TARGET_FREEBSD_NR_sigreturn)) {
      errno = EFAULT;
      return -1;
  }
  if (bprm->fullpath) {
      execpath_len = strlen(bprm->fullpath) + 1;
      p -= roundup(execpath_len, sizeof(abi_ulong));
      if (memcpy_to_target(p, bprm->fullpath, execpath_len)) {
          errno = EFAULT;
          return -1;
      }
  }
  /* Add canary for SSP. */
  qemu_guest_getrandom_nofail(canary, sizeof(canary));
  p -= roundup(sizeof(canary), sizeof(abi_ulong));
  if (memcpy_to_target(p, canary, sizeof(canary))) {
      errno = EFAULT;
      return -1;
  }
  /* Add page sizes array. */
  p -= sizeof(abi_ulong);
  if (put_user_ual(TARGET_PAGE_SIZE, p)) {
      errno = EFAULT;
      return -1;
  }
  /*
   * Deviate from FreeBSD stack layout: force stack to new page here

  * so that signal trampoline is not sharing the page with user stack
   * frames. This is actively harmful in qemu as it marks pages with
   * code it translated as read-only, which is somewhat problematic
   * for user trying to use the stack as intended.
```

```
 */
p = rounddown(p, TARGET_PAGE_SIZE);

/* Calculate the string space needed */
stringspace = 0;
for (i = 0; i < bprm->argc; ++i) {
    stringspace += strlen(bprm->argv[i]) + 1;
}
for (i = 0; i < bprm->envc; ++i) {
    stringspace += strlen(bprm->envp[i]) + 1;
}
if (stringspace > TARGET_ARG_MAX) {
    errno = ENOMEM;
    return -1;
}
/* Make room for the argv and envp strings */
destp = rounddown(p - stringspace, sizeof(abi_ulong));
p = argvp = destp - (bprm->argc + bprm->envc + 2) * sizeof(abi_ulong);
/* Remember the strings pointer */
if (stringp) {
    *stringp = destp;
}
/*
 * Add argv strings.  Note that the argv[] vectors are added
by
 * loader_build_argptr()
 */
/* XXX need to make room for auxargs */
ps_strs.ps_argvstr = tswapl(argvp);
ps_strs.ps_nargvstr = tswap32(bprm->argc);
for (i = 0; i < bprm->argc; ++i) {
    size_t len = strlen(bprm->argv[i]) + 1;

    if (memcpy_to_target(destp, bprm->argv[i], len)) {
        errno = EFAULT;
        return -1;
    }
    if (put_user_ual(destp, argvp)) {
        errno = EFAULT;
        return -1;
    }
    argvp += sizeof(abi_ulong);
    destp += len;
}
if (put_user_ual(0, argvp)) {
    errno = EFAULT;
    return -1;
}
```

```
  /*
   * Add env strings. Note that the envp[] vectors are added by
   * loader_build_argptr().
   */
  envp = argvp + sizeof(abi_ulong);
  ps_strs.ps_envstr = tswapl(envp);
  ps_strs.ps_nenvstr = tswap32(bprm->envc);
  for (i = 0; i < bprm->envc; ++i) {
      size_t len = strlen(bprm->envp[i]) + 1;

      if (memcpy_to_target(destp, bprm->envp[i],
 len)) {
          errno = EFAULT;
          return -1;
      }
      if (put_user_ual(destp, envp)) {
          errno = EFAULT;
          return -1;
      }
      envp += sizeof(abi_ulong);
      destp += len;
  }
  if (put_user_ual(0, envp)) {
      errno = EFAULT;
      return -1;
  }
  if (memcpy_to_target(stack_hi_addr - sizeof(ps_strs), &ps_strs,
              sizeof(ps_strs))) {
      errno = EFAULT;
      return -1;
  }

  if (ret_addr) {
      *ret_addr = p;
  }

  return 0;
}

#endif /* !_TARGET_OS_STACK_H_ */
bsd_user_ss.add(files(
 'os-sys.c',
))
```

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```
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*  mips system call definitions
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*/
#ifndef _MIPS_SYSCALL_H_
#define _MIPS_SYSCALL_H_

/*
* struct target_pt_regs defines the way the registers are stored on the stack
* during a system call.
*/

struct target_pt_regs {
  /* Saved main processor registers. */
  abi_ulong regs[32];

  /* Saved special registers. */
  abi_ulong
```

```
 cp0_status;
  abi_ulong lo;
  abi_ulong hi;
  abi_ulong cp0_badvaddr;
  abi_ulong cp0_cause;
  abi_ulong cp0_epc;
};

#if defined(TARGET_WORDS_BIGENDIAN)
#define UNAME_MACHINE "mips"
#else
#define UNAME_MACHINE "mipsel"
#endif

#define TARGET_HW_MACHINE       "mips"
#define TARGET_HW_MACHINE_ARCH   UNAME_MACHINE

/* sysarch() commands */
#define TARGET_MIPS_SET_TLS     1
#define TARGET_MIPS_GET_TLS     2

#endif /* !_MIPS_SYSCALL_H_ */

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*/
/*
*  Intel x86_64 VM parameters definitions
*
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*/
#ifndef _TARGET_ARCH_VMPARAM_H_
#define _TARGET_ARCH_VMPARAM_H_

#include "cpu.h"

/* compare to amd64/include/vmparam.h */
#define TARGET_MAXTSIZ  (128 * MiB)          /* max text size */
#define TARGET_DFLDSIZ  (32 * GiB)           /* initial data
 size limit */
#define TARGET_MAXDSIZ  (32 * GiB)           /* max data size */
#define TARGET_DFLSSIZ  (8 * MiB)           /* initial stack size limit */
#define TARGET_MAXSSIZ  (512 * MiB)          /* max stack size */
#define TARGET_SGROWSIZ (128 * KiB)          /* amount to grow stack */

#define TARGET_VM_MAXUSER_ADDRESS   (0x00007fffff000000UL)

#define TARGET_USRSTACK (TARGET_VM_MAXUSER_ADDRESS - TARGET_PAGE_SIZE)

static inline abi_ulong get_sp_from_cpustate(CPUX86State *state)
{
  return state->regs[R_ESP];
}

static inline void set_second_rval(CPUX86State *state, abi_ulong retval2)
```

```
{
  state->regs[R_EDX] = retval2;
}

#endif /* !_TARGET_ARCH_VMPARAM_H_ */
```

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```
/*
*  qemu bsd user mode definition
*
```

```
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*/
#ifndef QEMU_H
#define QEMU_H

#include "qemu/osdep.h"
#include "cpu.h"
#include "qemu/units.h"
#include "exec/cpu_ldst.h"
#include "exec/exec-all.h"

#undef DEBUG_REMAP

#include "exec/user/abitypes.h"

extern char **environ;

enum BSDType {
  target_freebsd,
  target_netbsd,
  target_openbsd,
};
extern
 enum BSDType bsd_type;

#include "exec/user/thunk.h"
#include "target_arch.h"
#include "syscall_defs.h"
#include "target_syscall.h"
#include "target_os_vmparam.h"
#include "target_os_signal.h"
#include "exec/gdbstub.h"

/*
* This struct is used to hold certain information about the image.  Basically,
* it replicates in user space what would be certain task_struct fields in the
* kernel
```

```
*/
struct image_info {
  abi_ulong load_bias;
  abi_ulong load_addr;
  abi_ulong start_code;
  abi_ulong end_code;
  abi_ulong start_data;
  abi_ulong end_data;
  abi_ulong start_brk;
  abi_ulong brk;
  abi_ulong start_mmap;
  abi_ulong mmap;
  abi_ulong rss;
  abi_ulong start_stack;
  abi_ulong entry;
  abi_ulong code_offset;
  abi_ulong data_offset;
  abi_ulong arg_start;
  abi_ulong arg_end;
  uint32_t  elf_flags;
};

#define MAX_SIGQUEUE_SIZE 1024

struct qemu_sigqueue {
  struct qemu_sigqueue *next;
  target_siginfo_t info;
};

struct emulated_sigtable
 {
  int pending; /* true if signal is pending */
  struct qemu_sigqueue *first;
  struct qemu_sigqueue info;  /* Put first signal info here */
};

/*
* NOTE: we force a big alignment so that the stack stored after is aligned too
*/
typedef struct TaskState {
  pid_t ts_tid;     /* tid (or pid) of this task */

  struct TaskState *next;
  struct bsd_binprm *bprm;
  struct image_info *info;

  struct emulated_sigtable sigtab[TARGET_NSIG];
  struct qemu_sigqueue sigqueue_table[MAX_SIGQUEUE_SIZE]; /* siginfo queue */
```

```
  struct qemu_sigqueue *first_free; /* first free siginfo queue entry */
  int signal_pending; /* non zero if a signal may be pending */

  uint8_t stack[];
} __attribute__((aligned(16))) TaskState;

void init_task_state(TaskState *ts);
void stop_all_tasks(void);
extern const char *qemu_uname_release;

/*
* TARGET_ARG_MAX defines the number of bytes allocated for arguments
* and envelope for the new program. 256k should suffice for a reasonable
 * maxiumum env+arg in 32-bit environments, bump it up to 512k for !ILP32
* platforms.
*/
#if TARGET_ABI_BITS > 32
#define TARGET_ARG_MAX (512 * KiB)
#else
#define TARGET_ARG_MAX (256 * KiB)
#endif
#define MAX_ARG_PAGES (TARGET_ARG_MAX / TARGET_PAGE_SIZE)

/*
* This structure is used to hold the arguments that are
* used when loading binaries.
*/
struct bsd_binprm {
      char buf[128];
      void *page[MAX_ARG_PAGES];
      abi_ulong p;
      abi_ulong stringp;
      int fd;
      int e_uid, e_gid;
      int argc, envc;
      char **argv;
      char **envp;
      char *filename;         /* (Given) Name of binary */
      char *fullpath;         /* Full path of binary */
      int (*core_dump)(int, CPUArchState *);
};

void do_init_thread(struct target_pt_regs *regs, struct image_info *infop);
abi_ulong loader_build_argptr(int envc, int argc, abi_ulong sp,
                              abi_ulong stringp);
int loader_exec(const char *filename, char **argv,
 char **envp,
             struct target_pt_regs *regs, struct image_info *infop,
```

```
            struct bsd_binprm *bprm);

int load_elf_binary(struct bsd_binprm *bprm, struct target_pt_regs *regs,
                    struct image_info *info);
int load_flt_binary(struct bsd_binprm *bprm, struct target_pt_regs *regs,
                    struct image_info *info);
int is_target_elf_binary(int fd);

abi_long memcpy_to_target(abi_ulong dest, const void *src,
                          unsigned long len);
void target_set_brk(abi_ulong new_brk);
abi_long do_brk(abi_ulong new_brk);
void syscall_init(void);
abi_long do_freebsd_syscall(void *cpu_env, int num, abi_long arg1,
                            abi_long arg2, abi_long arg3, abi_long arg4,
                            abi_long arg5, abi_long arg6, abi_long arg7,
                            abi_long arg8);
abi_long do_netbsd_syscall(void *cpu_env, int num, abi_long arg1,
                           abi_long arg2, abi_long arg3, abi_long arg4,
                           abi_long arg5, abi_long arg6);
abi_long do_openbsd_syscall(void *cpu_env, int num, abi_long arg1,
                            abi_long arg2, abi_long arg3, abi_long arg4,
                            abi_long arg5, abi_long arg6);
void gemu_log(const char *fmt, ...) GCC_FMT_ATTR(1, 2);
extern __thread CPUState *thread_cpu;
void cpu_loop(CPUArchState *env);
char *target_strerror(int err);
int get_osversion(void);
void fork_start(void);
void fork_end(int child);

#include "qemu/log.h"

/* strace.c */
struct syscallname {
  int nr;
  const char *name;
  const char *format;
  void (*call)(const struct syscallname *,
               abi_long, abi_long, abi_long,
               abi_long, abi_long, abi_long);
  void (*result)(const struct syscallname *, abi_long);
};

void
print_freebsd_syscall(int num,
                      abi_long arg1, abi_long arg2, abi_long arg3,
                      abi_long arg4, abi_long arg5, abi_long arg6);
```

```
void print_freebsd_syscall_ret(int
 num, abi_long ret);
void
print_netbsd_syscall(int num,
                     abi_long arg1, abi_long arg2, abi_long arg3,
                     abi_long arg4, abi_long arg5, abi_long arg6);
void print_netbsd_syscall_ret(int num, abi_long ret);
void
print_openbsd_syscall(int num,
                      abi_long arg1, abi_long arg2, abi_long arg3,
                      abi_long arg4, abi_long arg5, abi_long arg6);
void print_openbsd_syscall_ret(int num, abi_long ret);
extern int do_strace;

/* signal.c */
void process_pending_signals(CPUArchState *cpu_env);
void signal_init(void);
long do_sigreturn(CPUArchState *env);
long do_rt_sigreturn(CPUArchState *env);
void queue_signal(CPUArchState *env, int sig, target_siginfo_t *info);
abi_long do_sigaltstack(abi_ulong uss_addr, abi_ulong uoss_addr, abi_ulong sp);

/* mmap.c */
int target_mprotect(abi_ulong start, abi_ulong len, int prot);
abi_long target_mmap(abi_ulong start, abi_ulong len, int prot,
                     int
 flags, int fd, off_t offset);
int target_munmap(abi_ulong start, abi_ulong len);
abi_long target_mremap(abi_ulong old_addr, abi_ulong old_size,
                       abi_ulong new_size, unsigned long flags,
                       abi_ulong new_addr);
int target_msync(abi_ulong start, abi_ulong len, int flags);
extern unsigned long last_brk;
extern abi_ulong mmap_next_start;
abi_ulong mmap_find_vma(abi_ulong start, abi_ulong size);
void mmap_fork_start(void);
void mmap_fork_end(int child);

/* main.c */
extern char qemu_proc_pathname[];
extern unsigned long target_maxtsiz;
extern unsigned long target_dfldsiz;
extern unsigned long target_maxdsiz;
extern unsigned long target_dflssiz;
extern unsigned long target_maxssiz;
extern unsigned long target_sgrowsiz;

/* syscall.c */
```

```
abi_long get_errno(abi_long ret);
bool is_error(abi_long ret);

/* os-sys.c */
abi_long do_freebsd_sysarch(void *cpu_env, abi_long arg1, abi_long arg2);

/* user access */

#define VERIFY_READ  PAGE_READ
#define VERIFY_WRITE
 (PAGE_READ | PAGE_WRITE)

static inline bool access_ok(int type, abi_ulong addr, abi_ulong size)
{
  return page_check_range((target_ulong)addr, size, type) == 0;
}

/*
* NOTE __get_user and __put_user use host pointers and don't check access.
*
* These are usually used to access struct data members once the struct has been
* locked - usually with lock_user_struct().
*/
#define __put_user(x, hptr)\
({\
  int size = sizeof(*hptr);\
  switch (size) {\
  case 1:\
     *(uint8_t *)(hptr) = (uint8_t)(typeof(*hptr))(x);\
     break;\
  case 2:\
     *(uint16_t *)(hptr) = tswap16((typeof(*hptr))(x));\
     break;\
  case 4:\
     *(uint32_t *)(hptr) = tswap32((typeof(*hptr))(x));\
     break;\
  case 8:\
     *(uint64_t *)(hptr) = tswap64((typeof(*hptr))(x));\
     break;\
  default:\
     abort();\
  } \
  0;\
})

#define __get_user(x, hptr) \
({\
  int size = sizeof(*hptr);\
```

```
  switch (size) {\
  case 1:\
      x = (typeof(*hptr))*(uint8_t
 *)(hptr);\
      break;\
  case 2:\
      x = (typeof(*hptr))tswap16(*(uint16_t *)(hptr));\
      break;\
  case 4:\
      x = (typeof(*hptr))tswap32(*(uint32_t *)(hptr));\
      break;\
  case 8:\
      x = (typeof(*hptr))tswap64(*(uint64_t *)(hptr));\
      break;\
  default:\
      x = 0;\
      abort();\
  } \
  0;\
})

/*
* put_user()/get_user() take a guest address and check access
*
* These are usually used to access an atomic data type, such as an int, that
* has been passed by address.  These internally perform locking and unlocking
* on the data type.
*/
#define put_user(x, gaddr, target_type)                    \
({                                                  \
  abi_ulong __gaddr = (gaddr);                      \
  target_type *__hptr;                              \
  abi_long __ret;                                   \
  __hptr
 = lock_user(VERIFY_WRITE, __gaddr, sizeof(target_type), 0);  \
  if (__hptr) {                                     \
      __ret = __put_user((x), __hptr);              \
      unlock_user(__hptr, __gaddr, sizeof(target_type));        \
  } else                                            \
      __ret = -TARGET_EFAULT;                       \
  __ret;                                            \
})

#define get_user(x, gaddr, target_type)                    \
({                                                  \
  abi_ulong __gaddr = (gaddr);                      \
  target_type *__hptr;                              \
  abi_long __ret;                                   \
```

```
    __hptr = lock_user(VERIFY_READ, __gaddr, sizeof(target_type), 1);   \
    if (__hptr) {                                                       \
        __ret = __get_user((x), __hptr);                                \
        unlock_user(__hptr, __gaddr, 0);                                \
    } else {                                                            \
        (x) = 0;                                                        \
        __ret = -TARGET_EFAULT;                                         \
    }                                                                   \
    __ret;                                                              \
})

#define put_user_ual(x, gaddr) put_user((x), (gaddr), abi_ulong)
#define put_user_sal(x, gaddr) put_user((x), (gaddr), abi_long)
#define put_user_u64(x, gaddr) put_user((x), (gaddr), uint64_t)
#define put_user_s64(x, gaddr) put_user((x), (gaddr), int64_t)
#define put_user_u32(x, gaddr) put_user((x), (gaddr), uint32_t)
#define put_user_s32(x, gaddr) put_user((x), (gaddr), int32_t)
#define put_user_u16(x, gaddr) put_user((x), (gaddr), uint16_t)
#define
 put_user_s16(x, gaddr) put_user((x), (gaddr), int16_t)
#define put_user_u8(x, gaddr)  put_user((x), (gaddr), uint8_t)
#define put_user_s8(x, gaddr)  put_user((x), (gaddr), int8_t)

#define get_user_ual(x, gaddr) get_user((x), (gaddr), abi_ulong)
#define get_user_sal(x, gaddr) get_user((x), (gaddr), abi_long)
#define get_user_u64(x, gaddr) get_user((x), (gaddr), uint64_t)
#define get_user_s64(x, gaddr) get_user((x), (gaddr), int64_t)
#define get_user_u32(x, gaddr) get_user((x), (gaddr), uint32_t)
#define get_user_s32(x, gaddr) get_user((x), (gaddr), int32_t)
#define get_user_u16(x, gaddr) get_user((x), (gaddr), uint16_t)
#define get_user_s16(x, gaddr) get_user((x), (gaddr), int16_t)
#define get_user_u8(x, gaddr)  get_user((x), (gaddr), uint8_t)
#define get_user_s8(x, gaddr)  get_user((x), (gaddr), int8_t)

/*
* copy_from_user() and copy_to_user() are usually used to copy data
* buffers between the target and host.  These internally perform
* locking/unlocking of the memory.
 */
abi_long copy_from_user(void *hptr, abi_ulong gaddr, size_t len);
abi_long copy_to_user(abi_ulong gaddr, void *hptr, size_t len);

/*
* Functions for accessing guest memory.  The tget and tput functions
* read/write single values, byteswapping as necessary.  The lock_user function
* gets a pointer to a contiguous area of guest memory, but does not perform
* any byteswapping.  lock_user may return either a pointer to the guest
```

```
* memory, or a temporary buffer.
*/

/*
* Lock an area of guest memory into the host.  If copy is true then the
* host area will have the same contents as the guest.
*/
static inline void *lock_user(int type, abi_ulong guest_addr, long len,
                              int copy)
{
  if (!access_ok(type, guest_addr, len)) {
     return NULL;
  }
#ifdef DEBUG_REMAP
  {
     void *addr;
     addr = g_malloc(len);
     if (copy) {
        memcpy(addr, g2h_untagged(guest_addr), len);
     } else {
        memset(addr, 0, len);
      }
     return addr;
  }
#else
  return g2h_untagged(guest_addr);
#endif
}

/*
* Unlock an area of guest memory.  The first LEN bytes must be flushed back to
* guest memory. host_ptr = NULL is explicitly allowed and does nothing.
*/
static inline void unlock_user(void *host_ptr, abi_ulong guest_addr,
                               long len)
{

#ifdef DEBUG_REMAP
  if (!host_ptr) {
     return;
  }
  if (host_ptr == g2h_untagged(guest_addr)) {
     return;
  }
  if (len > 0) {
     memcpy(g2h_untagged(guest_addr), host_ptr, len);
  }
  g_free(host_ptr);
```

```
#endif
}

/*
* Return the length of a string in target memory or -TARGET_EFAULT if access
* error.
*/
abi_long target_strlen(abi_ulong gaddr);

/* Like lock_user but for null terminated strings.  */
static inline void *lock_user_string(abi_ulong guest_addr)
{
  abi_long len;
  len = target_strlen(guest_addr);
  if (len < 0) {
     return NULL;
  }
  return lock_user(VERIFY_READ, guest_addr,
 (long)(len + 1), 1);
}

/* Helper macros for locking/unlocking a target struct.  */
#define lock_user_struct(type, host_ptr, guest_addr, copy)      \
  (host_ptr = lock_user(type, guest_addr, sizeof(*host_ptr), copy))
#define unlock_user_struct(host_ptr, guest_addr, copy)          \
  unlock_user(host_ptr, guest_addr, (copy) ? sizeof(*host_ptr) : 0)

#include <pthread.h>

#endif /* QEMU_H */
/*
*  i386 ELF definitions
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*/
```

```
#ifndef _TARGET_ARCH_ELF_H_
#define _TARGET_ARCH_ELF_H_

#define ELF_START_MMAP 0x80000000
#define ELF_ET_DYN_LOAD_ADDR    0x01001000
#define elf_check_arch(x) (((x) == EM_386) || ((x) == EM_486))

#define ELF_HWCAP       0 /* FreeBSD doesn't do AT_HWCAP{,2} on x86 */

#define
 ELF_CLASS      ELFCLASS32
#define ELF_DATA        ELFDATA2LSB
#define ELF_ARCH        EM_386

#define USE_ELF_CORE_DUMP
#define ELF_EXEC_PAGESIZE       4096

#endif /* _TARGET_ARCH_ELF_H_ */
```

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

/*
* System call numbers.
*
* created from;       OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
*/

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
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```

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#define TARGET_OPENBSD_NR_rfork       251
#define TARGET_OPENBSD_NR_poll        252
#define TARGET_OPENBSD_NR_issetugid   253
#define TARGET_OPENBSD_NR_lchown      254
#define TARGET_OPENBSD_NR_getsid      255
#define TARGET_OPENBSD_NR_msync       256
#define TARGET_OPENBSD_NR_pipe        263
#define TARGET_OPENBSD_NR_fhopen      264
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#define TARGET_OPENBSD_NR_pwritev     268
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```

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#define TARGET_OPENBSD_NR_statfs      307
#define TARGET_OPENBSD_NR_fstatfs     308
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   309

/* syscall flags from machine/trap.h */

/*      $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $       */
/*      $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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*
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
```

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```
/*
*  i386 cpu init and loop
*
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*/

#ifndef _TARGET_ARCH_CPU_H_
#define _TARGET_ARCH_CPU_H_

#include "target_arch.h"

#define TARGET_DEFAULT_CPU_MODEL "qemu32"

static inline void target_cpu_init(CPUX86State *env,
      struct target_pt_regs *regs)
{
  uint64_t *gdt_table;
```

```
 env->cr[0] = CR0_PG_MASK | CR0_WP_MASK | CR0_PE_MASK;

env->hflags |= HF_PE_MASK | HF_CPL_MASK;
 if (env->features[FEAT_1_EDX] & CPUID_SSE) {
    env->cr[4] |= CR4_OSFXSR_MASK;
    env->hflags |= HF_OSFXSR_MASK;
 }

 /* flags setup : we activate the IRQs by default as in user mode */
 env->eflags |= IF_MASK;

 /* register setup */
 env->regs[R_EAX] = regs->eax;
 env->regs[R_EBX] = regs->ebx;
 env->regs[R_ECX] = regs->ecx;
 env->regs[R_EDX] = regs->edx;
 env->regs[R_ESI] = regs->esi;
 env->regs[R_EDI] = regs->edi;
 env->regs[R_EBP] = regs->ebp;
 env->regs[R_ESP] = regs->esp;
 env->eip = regs->eip;

 /* interrupt setup */
 env->idt.limit = 255;

 env->idt.base = target_mmap(0, sizeof(uint64_t) * (env->idt.limit + 1),
    PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
 bsd_i386_set_idt_base(env->idt.base);
 bsd_i386_set_idt(0, 0);
 bsd_i386_set_idt(1, 0);
 bsd_i386_set_idt(2, 0);
 bsd_i386_set_idt(3, 3);
 bsd_i386_set_idt(4, 3);
 bsd_i386_set_idt(5,
0);
 bsd_i386_set_idt(6, 0);
 bsd_i386_set_idt(7, 0);
 bsd_i386_set_idt(8, 0);
 bsd_i386_set_idt(9, 0);
 bsd_i386_set_idt(10, 0);
 bsd_i386_set_idt(11, 0);
 bsd_i386_set_idt(12, 0);
 bsd_i386_set_idt(13, 0);
 bsd_i386_set_idt(14, 0);
 bsd_i386_set_idt(15, 0);
 bsd_i386_set_idt(16, 0);
 bsd_i386_set_idt(17, 0);
```

```
  bsd_i386_set_idt(18, 0);
  bsd_i386_set_idt(19, 0);
  bsd_i386_set_idt(0x80, 3);

  /* segment setup */
  env->gdt.base = target_mmap(0, sizeof(uint64_t) * TARGET_GDT_ENTRIES,
        PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
  env->gdt.limit = sizeof(uint64_t) * TARGET_GDT_ENTRIES - 1;
  gdt_table = g2h_untagged(env->gdt.base);

  bsd_i386_write_dt(&gdt_table[__USER_CS >> 3], 0, 0xfffff,
        DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
        (3 << DESC_DPL_SHIFT) | (0xa << DESC_TYPE_SHIFT));

  bsd_i386_write_dt(&gdt_table[__USER_DS >> 3], 0, 0xfffff,
        DESC_G_MASK
| DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
        (3 << DESC_DPL_SHIFT) | (0x2 << DESC_TYPE_SHIFT));

  cpu_x86_load_seg(env, R_CS, __USER_CS);
  cpu_x86_load_seg(env, R_SS, __USER_DS);
  cpu_x86_load_seg(env, R_DS, __USER_DS);
  cpu_x86_load_seg(env, R_ES, __USER_DS);
  cpu_x86_load_seg(env, R_FS, __USER_DS);
  cpu_x86_load_seg(env, R_GS, __USER_DS);
  /* This hack makes Wine work... */
  env->segs[R_FS].selector = 0;
}

static inline void target_cpu_loop(CPUX86State *env)
{
  CPUState *cs = env_cpu(env);
  int trapnr;
  abi_ulong pc;
  /* target_siginfo_t info; */

  for (;;) {
      cpu_exec_start(cs);
      trapnr = cpu_exec(cs);
      cpu_exec_end(cs);
      process_queued_cpu_work(cs);

      switch (trapnr) {
      case 0x80:
          /* syscall from int $0x80 */
          if (bsd_type == target_freebsd) {
              abi_ulong params = (abi_ulong) env->regs[R_ESP] +
                  sizeof(int32_t);
```

```
            int32_t
syscall_nr = env->regs[R_EAX];
            int32_t arg1, arg2, arg3, arg4, arg5, arg6, arg7, arg8;

            if (syscall_nr == TARGET_FREEBSD_NR_syscall) {
               get_user_s32(syscall_nr, params);
               params += sizeof(int32_t);
            } else if (syscall_nr == TARGET_FREEBSD_NR___syscall) {
               get_user_s32(syscall_nr, params);
               params += sizeof(int64_t);
            }
            get_user_s32(arg1, params);
            params += sizeof(int32_t);
            get_user_s32(arg2, params);
            params += sizeof(int32_t);
            get_user_s32(arg3, params);
            params += sizeof(int32_t);
            get_user_s32(arg4, params);
            params += sizeof(int32_t);
            get_user_s32(arg5, params);
            params += sizeof(int32_t);
            get_user_s32(arg6, params);
            params += sizeof(int32_t);

  get_user_s32(arg7, params);
            params += sizeof(int32_t);
            get_user_s32(arg8, params);
            env->regs[R_EAX] = do_freebsd_syscall(env,
                                        syscall_nr,
                                        arg1,
                                        arg2,
                                        arg3,
                                        arg4,
                                        arg5,
                                        arg6,
                                        arg7,
                                        arg8);
         } else { /* if (bsd_type == target_openbsd) */
            env->regs[R_EAX] = do_openbsd_syscall(env,
                                        env->regs[R_EAX],
                                        env->regs[R_EBX],

                                 env->regs[R_ECX],
                                        env->regs[R_EDX],
                                        env->regs[R_ESI],
                                        env->regs[R_EDI],
                                        env->regs[R_EBP]);
         }
```

```
            if (((abi_ulong)env->regs[R_EAX]) >= (abi_ulong)(-515)) {
                env->regs[R_EAX] = -env->regs[R_EAX];
                env->eflags |= CC_C;
            } else {
                env->eflags &= ~CC_C;
            }
            break;

        case EXCP_INTERRUPT:
            /* just indicate that signals should be handled asap */
            break;

        case EXCP_ATOMIC:
            cpu_exec_step_atomic(cs);
            break;

        default:
            pc = env->segs[R_CS].base + env->eip;
            fprintf(stderr, "qemu: 0x%08lx: unhandled CPU exception 0x%x - "
                    "aborting\n", (long)pc,
 trapnr);
            abort();
        }
        process_pending_signals(env);
    }
}

static inline void target_cpu_clone_regs(CPUX86State *env, target_ulong newsp)
{
    if (newsp) {
        env->regs[R_ESP] = newsp;
    }
    env->regs[R_EAX] = 0;
}

static inline void target_cpu_reset(CPUArchState *cpu)
{
    cpu_reset(env_cpu(cpu));
}

#endif /* ! _TARGET_ARCH_CPU_H_ */
/*
*  freebsd ELF definitions
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*/
#ifndef _TARGET_OS_ELF_H_
#define _TARGET_OS_ELF_H_

#include "target_arch_elf.h"
#include "elf.h"

#define bsd_get_ncpu() 1 /* until we pull in bsd-proc.[hc] */

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE
 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
#endif

/* XXX Look at the other conflicting AT_* values. */
#define FREEBSD_AT_NCPUS     19
#define FREEBSD_AT_HWCAP     25
#define FREEBSD_AT_HWCAP2    26

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)
```

```
/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
     ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 14

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,

                                abi_ulong stringp,
                                    struct elfhdr *exec,
                                    abi_ulong load_addr,
                                    abi_ulong load_bias,
                                    abi_ulong interp_load_addr,
                                    struct image_info *info)
{
     abi_ulong features, sp;
     int size;
     const int n = sizeof(elf_addr_t);

     target_auxents_sz = 0;
     sp = p;
     /*
      * Force 16 byte _final_ alignment here for generality.
      */
     sp = sp & ~(abi_ulong)15;
     size = (DLINFO_ITEMS + 1) * 2;
     size += envc + argc + 2;
     size += 1;                    /* argc itself */
     size *= n;
     if (size & 15) {
        sp -= 16 - (size & 15);
     }

     /*
      * FreeBSD defines elf_addr_t as Elf32_Off / Elf64_Off
      */
#define NEW_AUX_ENT(id, val) do {               \
          sp -= n; put_user_ual(val, sp);     \
        sp -= n; put_user_ual(id, sp);      \
        target_auxents_sz += 2 * n;         \
       } while (0)
```

```
    NEW_AUX_ENT(AT_NULL, 0);

    /* There must be exactly DLINFO_ITEMS entries here.  */
    NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
    NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
    NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
    NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
    NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
    NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
    NEW_AUX_ENT(FREEBSD_AT_NCPUS, (abi_ulong)bsd_get_ncpu());
    NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
    features = ELF_HWCAP;
    NEW_AUX_ENT(FREEBSD_AT_HWCAP, features);
#ifdef ELF_HWCAP2
    features = ELF_HWCAP2;
    NEW_AUX_ENT(FREEBSD_AT_HWCAP2, features);
#endif
    NEW_AUX_ENT(AT_UID, (abi_ulong)getuid());

   NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
    NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
    NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
    target_auxents = sp; /* Note where the aux entries are in the target */
#ifdef ARCH_DLINFO
    /*
     * ARCH_DLINFO must come last so platform specific code can enforce
     * special alignment requirements on the AUXV if necessary (eg. PPC).
     */
    ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

    sp = loader_build_argptr(envc, argc, sp, stringp);
    return sp;
}

#endif /* _TARGET_OS_ELF_H_ */
/*
*  FreeBSD thread dependent code and definitions
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*/

#ifndef _TARGET_OS_THREAD_H_
#define _TARGET_OS_THREAD_H_

#include "target_arch_thread.h"

#endif /* !_TARGET_OS_THREAD_H_ */
if not have_bsd_user
  subdir_done()
endif

bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'syscall.c',
 'uaccess.c',
))

# Pull in the OS-specific build glue, if any
subdir(targetos)
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That's all there is to it!

```
#ifndef _TARGET_OS_SIGINFO_H_
#define _TARGET_OS_SIGINFO_H_

#define TARGET_NSIG     32   /* counting 0; could be 33 (mask is 1-32) */
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall handling */
```

```
typedef struct target_sigaltstack {
  abi_long    ss_sp;
  abi_ulong   ss_size;
  abi_long    ss_flags;
} target_stack_t;

typedef struct {
  uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t

struct target_sigaction {
  abi_ulong   _sa_handler;
  int32_t     sa_flags;
  target_sigset_t sa_mask;
};

/* Compare to sys/siginfo.h */
typedef union target_sigval {
  int         sival_int;
  abi_ulong   sival_ptr;
} target_sigval_t;

struct target_ksiginfo {
  int32_t     _signo;
  int32_t     _code;
  int32_t     _errno;
#if TARGET_ABI_BITS == 64
  int32_t     _pad;
#endif
  union {
     struct {
        int32_t            _pid;
        int32_t
          _uid;
        target_sigval_t    _value;
     } _rt;

     struct {
        int32_t            _pid;
        int32_t            _uid;
        int32_t            _struct;
        /* clock_t         _utime; */
        /* clock_t         _stime; */
     } _child;

     struct {
        abi_ulong          _addr;
        int32_t            _trap;
```

```
    } _fault;

    struct {
      long              _band;
      int               _fd;
    } _poll;
  } _reason;
};

typedef union target_siginfo {
  int8_t     si_pad[128];
  struct     target_ksiginfo  _info;
} target_siginfo_t;

#define target_si_signo     _info._signo
#define target_si_code      _info._code
#define target_si_errno     _info._errno
#define target_si_addr      _info._reason._fault._addr

#define TARGET_SEGV_MAPERR  1
#define TARGET_SEGV_ACCERR  2

#define TARGET_TRAP_BRKPT   1
#define TARGET_TRAP_TRACE   2


#endif /* ! _TARGET_OS_SIGINFO_H_
 */
```

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*/

#ifndef _HOST_OS_H_
#define _HOST_OS_H_

#define HOST_DEFAULT_BSD_TYPE target_openbsd

#endif /*!_HOST_OS_H_ */
/*
*  mips sysarch() system call emulation
*
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*/

#ifndef BSD_USER_ARCH_SYSARCH_H_
#define BSD_USER_ARCH_SYSARCH_H_

#include "target_syscall.h"
#include "target_arch.h"

static inline abi_long do_freebsd_arch_sysarch(CPUMIPSState *env, int op,
      abi_ulong parms)
{
  int ret = 0;

  switch (op)
 {
  case TARGET_MIPS_SET_TLS:
```

```
        target_cpu_set_tls(env, parms);
        break;

    case TARGET_MIPS_GET_TLS:
        if (put_user(target_cpu_get_tls(env), parms, abi_ulong)) {
            ret = -TARGET_EFAULT;
        }
        break;

    default:
        ret = -TARGET_EINVAL;
        break;
    }

    return ret;
}

static inline void do_freebsd_arch_print_sysarch(
        const struct syscallname *name, abi_long arg1, abi_long arg2,
        abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

    switch (arg1) {
    case TARGET_MIPS_SET_TLS:
        gemu_log("%s(SET_TLS, 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
        break;

    case TARGET_MIPS_GET_TLS:
        gemu_log("%s(GET_TLS, 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
        break;

    default:
        gemu_log("UNKNOWN OP: %d, " TARGET_ABI_FMT_lx ")", (int)arg1, arg2);
    }
}

#endif /*!BSD_USER_ARCH_SYSARCH_H_ */
```

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```
/*
* Intel i386  sigcode for bsd-user
*
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*/

#ifndef _TARGET_ARCH_SIGTRAMP_H_
#define _TARGET_ARCH_SIGTRAMP_H_

static inline abi_long setup_sigtramp(abi_ulong offset, unsigned sigf_uc,
    unsigned sys_sigreturn)
```

```
{

  return 0;
}
#endif /* _TARGET_ARCH_SIGTRAMP_H_ */
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

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

#define TARGET_NETBSD_NR_syscall     0
#define TARGET_NETBSD_NR_exit        1
#define TARGET_NETBSD_NR_fork        2
#define TARGET_NETBSD_NR_read        3
#define TARGET_NETBSD_NR_write       4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
#define TARGET_NETBSD_NR_compat_43_ocreat    8
#define TARGET_NETBSD_NR_link        9
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
#define TARGET_NETBSD_NR_chown       16
#define TARGET_NETBSD_NR_break       17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek    19
#define TARGET_NETBSD_NR_getpid      20
#define
 TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_compat_40_mount     21
#define TARGET_NETBSD_NR_unmount     22
#define TARGET_NETBSD_NR_setuid      23
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_geteuid     25
#define TARGET_NETBSD_NR_ptrace      26
#define TARGET_NETBSD_NR_recvmsg     27
#define TARGET_NETBSD_NR_sendmsg     28
#define TARGET_NETBSD_NR_recvfrom    29
#define TARGET_NETBSD_NR_accept      30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
```

```
#define TARGET_NETBSD_NR_access      33
#define TARGET_NETBSD_NR_chflags     34
#define TARGET_NETBSD_NR_fchflags    35
#define TARGET_NETBSD_NR_sync        36
#define TARGET_NETBSD_NR_kill        37
#define TARGET_NETBSD_NR_compat_43_stat43    38
#define TARGET_NETBSD_NR_getppid     39
#define TARGET_NETBSD_NR_compat_43_lstat43   40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe        42
#define TARGET_NETBSD_NR_getegid
    43
#define TARGET_NETBSD_NR_profil      44
#define TARGET_NETBSD_NR_ktrace      45
#define TARGET_NETBSD_NR_compat_13_sigaction13       46
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13     48
#define TARGET_NETBSD_NR___getlogin  49
#define TARGET_NETBSD_NR___setlogin  50
#define TARGET_NETBSD_NR_acct        51
#define TARGET_NETBSD_NR_compat_13_sigpending13      52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13     53
#define TARGET_NETBSD_NR_ioctl       54
#define TARGET_NETBSD_NR_compat_12_oreboot   55
#define TARGET_NETBSD_NR_revoke      56
#define TARGET_NETBSD_NR_symlink     57
#define TARGET_NETBSD_NR_readlink    58
#define TARGET_NETBSD_NR_execve      59
#define TARGET_NETBSD_NR_umask       60
#define TARGET_NETBSD_NR_chroot      61
#define TARGET_NETBSD_NR_compat_43_fstat43   62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo      63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize
  64
#define TARGET_NETBSD_NR_compat_12_msync     65
#define TARGET_NETBSD_NR_vfork       66
#define TARGET_NETBSD_NR_sbrk        69
#define TARGET_NETBSD_NR_sstk        70
#define TARGET_NETBSD_NR_compat_43_ommap     71
#define TARGET_NETBSD_NR_vadvise     72
#define TARGET_NETBSD_NR_munmap      73
#define TARGET_NETBSD_NR_mprotect    74
#define TARGET_NETBSD_NR_madvise     75
#define TARGET_NETBSD_NR_mincore     78
#define TARGET_NETBSD_NR_getgroups   79
#define TARGET_NETBSD_NR_setgroups   80
#define TARGET_NETBSD_NR_getpgrp     81
```

```
#define TARGET_NETBSD_NR_setpgid     82
#define TARGET_NETBSD_NR_setitimer   83
#define TARGET_NETBSD_NR_compat_43_owait     84
#define TARGET_NETBSD_NR_compat_12_oswapon   85
#define TARGET_NETBSD_NR_getitimer   86
#define TARGET_NETBSD_NR_compat_43_ogethostname      87
#define TARGET_NETBSD_NR_compat_43_osethostname      88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize    89
#define TARGET_NETBSD_NR_dup2        90
#define TARGET_NETBSD_NR_fcntl
 92
#define TARGET_NETBSD_NR_select      93
#define TARGET_NETBSD_NR_fsync       95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket    97
#define TARGET_NETBSD_NR_connect     98
#define TARGET_NETBSD_NR_compat_43_oaccept   99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend     101
#define TARGET_NETBSD_NR_compat_43_orecv     102
#define TARGET_NETBSD_NR_compat_13_sigreturn13       103
#define TARGET_NETBSD_NR_bind        104
#define TARGET_NETBSD_NR_setsockopt  105
#define TARGET_NETBSD_NR_listen      106
#define TARGET_NETBSD_NR_compat_43_osigvec   108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask       110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13      111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg  113
#define TARGET_NETBSD_NR_compat_43_osendmsg  114
#define TARGET_NETBSD_NR_gettimeofday        116
#define TARGET_NETBSD_NR_getrusage
  117
#define TARGET_NETBSD_NR_getsockopt  118
#define TARGET_NETBSD_NR_readv       120
#define TARGET_NETBSD_NR_writev      121
#define TARGET_NETBSD_NR_settimeofday        122
#define TARGET_NETBSD_NR_fchown      123
#define TARGET_NETBSD_NR_fchmod      124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid    126
#define TARGET_NETBSD_NR_setregid    127
#define TARGET_NETBSD_NR_rename      128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate        130
#define TARGET_NETBSD_NR_flock       131
#define TARGET_NETBSD_NR_mkfifo      132
```

```
#define TARGET_NETBSD_NR_sendto      133
#define TARGET_NETBSD_NR_shutdown    134
#define TARGET_NETBSD_NR_socketpair  135
#define TARGET_NETBSD_NR_mkdir       136
#define TARGET_NETBSD_NR_rmdir       137
#define TARGET_NETBSD_NR_utimes      138
#define TARGET_NETBSD_NR_adjtime     140
#define TARGET_NETBSD_NR_compat_43_ogetpeername      141
#define TARGET_NETBSD_NR_compat_43_ogethostid
      142
#define TARGET_NETBSD_NR_compat_43_osethostid        143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit        144
#define TARGET_NETBSD_NR_compat_43_osetrlimit        145
#define TARGET_NETBSD_NR_compat_43_okillpg   146
#define TARGET_NETBSD_NR_setsid      147
#define TARGET_NETBSD_NR_quotactl    148
#define TARGET_NETBSD_NR_compat_43_oquota    149
#define TARGET_NETBSD_NR_compat_43_ogetsockname      150
#define TARGET_NETBSD_NR_nfssvc      155
#define TARGET_NETBSD_NR_compat_43_ogetdirentries    156
#define TARGET_NETBSD_NR_compat_20_statfs    157
#define TARGET_NETBSD_NR_compat_20_fstatfs   158
#define TARGET_NETBSD_NR_compat_30_getfh     161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname    162
#define TARGET_NETBSD_NR_compat_09_osetdomainname    163
#define TARGET_NETBSD_NR_compat_09_ouname    164
#define TARGET_NETBSD_NR_sysarch     165
#define TARGET_NETBSD_NR_compat_10_osemsys   169
#define TARGET_NETBSD_NR_compat_10_omsgsys   170
#define
 TARGET_NETBSD_NR_compat_10_oshmsys   171
#define TARGET_NETBSD_NR_pread       173
#define TARGET_NETBSD_NR_pwrite      174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime       175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid      181
#define TARGET_NETBSD_NR_setegid     182
#define TARGET_NETBSD_NR_seteuid     183
#define TARGET_NETBSD_NR_lfs_bmapv   184
#define TARGET_NETBSD_NR_lfs_markv   185
#define TARGET_NETBSD_NR_lfs_segclean        186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12    188
#define TARGET_NETBSD_NR_compat_12_fstat12   189
#define TARGET_NETBSD_NR_compat_12_lstat12   190
#define TARGET_NETBSD_NR_pathconf    191
#define TARGET_NETBSD_NR_fpathconf   192
#define TARGET_NETBSD_NR_getrlimit   194
```

```
#define TARGET_NETBSD_NR_setrlimit   195
#define TARGET_NETBSD_NR_compat_12_getdirentries     196
#define TARGET_NETBSD_NR_mmap        197
#define TARGET_NETBSD_NR___syscall   198
#define TARGET_NETBSD_NR_lseek
    199
#define TARGET_NETBSD_NR_truncate    200
#define TARGET_NETBSD_NR_ftruncate   201
#define TARGET_NETBSD_NR___sysctl    202
#define TARGET_NETBSD_NR_mlock       203
#define TARGET_NETBSD_NR_munlock     204
#define TARGET_NETBSD_NR_undelete    205
#define TARGET_NETBSD_NR_futimes     206
#define TARGET_NETBSD_NR_getpgid     207
#define TARGET_NETBSD_NR_reboot      208
#define TARGET_NETBSD_NR_poll        209
#define TARGET_NETBSD_NR_compat_14___semctl  220
#define TARGET_NETBSD_NR_semget      221
#define TARGET_NETBSD_NR_semop       222
#define TARGET_NETBSD_NR_semconfig   223
#define TARGET_NETBSD_NR_compat_14_msgctl    224
#define TARGET_NETBSD_NR_msgget      225
#define TARGET_NETBSD_NR_msgsnd      226
#define TARGET_NETBSD_NR_msgrcv      227
#define TARGET_NETBSD_NR_shmat       228
#define TARGET_NETBSD_NR_compat_14_shmctl    229
#define TARGET_NETBSD_NR_shmdt       230
#define TARGET_NETBSD_NR_shmget      231
#define TARGET_NETBSD_NR_clock_gettime       232
#define TARGET_NETBSD_NR_clock_settime
    233
#define TARGET_NETBSD_NR_clock_getres        234
#define TARGET_NETBSD_NR_timer_create        235
#define TARGET_NETBSD_NR_timer_delete        236
#define TARGET_NETBSD_NR_timer_settime       237
#define TARGET_NETBSD_NR_timer_gettime       238
#define TARGET_NETBSD_NR_timer_getoverrun    239
#define TARGET_NETBSD_NR_nanosleep   240
#define TARGET_NETBSD_NR_fdatasync   241
#define TARGET_NETBSD_NR_mlockall    242
#define TARGET_NETBSD_NR_munlockall  243
#define TARGET_NETBSD_NR___sigtimedwait      244
#define TARGET_NETBSD_NR_modctl      246
#define TARGET_NETBSD_NR__ksem_init  247
#define TARGET_NETBSD_NR__ksem_open  248
#define TARGET_NETBSD_NR__ksem_unlink        249
#define TARGET_NETBSD_NR__ksem_close 250
#define TARGET_NETBSD_NR__ksem_post  251
```

```
#define TARGET_NETBSD_NR__ksem_wait  252
#define TARGET_NETBSD_NR__ksem_trywait       253
#define TARGET_NETBSD_NR__ksem_getvalue      254
#define TARGET_NETBSD_NR__ksem_destroy       255
#define TARGET_NETBSD_NR_mq_open
    257
#define TARGET_NETBSD_NR_mq_close    258
#define TARGET_NETBSD_NR_mq_unlink   259
#define TARGET_NETBSD_NR_mq_getattr  260
#define TARGET_NETBSD_NR_mq_setattr  261
#define TARGET_NETBSD_NR_mq_notify   262
#define TARGET_NETBSD_NR_mq_send     263
#define TARGET_NETBSD_NR_mq_receive  264
#define TARGET_NETBSD_NR_mq_timedsend        265
#define TARGET_NETBSD_NR_mq_timedreceive     266
#define TARGET_NETBSD_NR___posix_rename      270
#define TARGET_NETBSD_NR_swapctl     271
#define TARGET_NETBSD_NR_compat_30_getdents  272
#define TARGET_NETBSD_NR_minherit    273
#define TARGET_NETBSD_NR_lchmod      274
#define TARGET_NETBSD_NR_lchown      275
#define TARGET_NETBSD_NR_lutimes     276
#define TARGET_NETBSD_NR___msync13   277
#define TARGET_NETBSD_NR_compat_30___stat13  278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___sigaltstack14     281
#define TARGET_NETBSD_NR___vfork14   282
#define
 TARGET_NETBSD_NR___posix_chown       283
#define TARGET_NETBSD_NR___posix_fchown      284
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*/

#ifndef _TARGET_OS_STACK_H_
#define _TARGET_OS_STACK_H_

#include "target_arch_sigtramp.h"

static inline int setup_initial_stack(struct bsd_binprm *bprm, abi_ulong *p,
  abi_ulong *stringp)
{
  int i;
  abi_ulong stack_base;

```
  stack_base
 = (target_stkbas + target_stksiz) -
              MAX_ARG_PAGES * TARGET_PAGE_SIZE;
  if (p) {
     *p = stack_base;
  }
  if (stringp) {
     *stringp = stack_base;
  }

  for (i = 0; i < MAX_ARG_PAGES; i++) {
     if (bprm->page[i]) {
        info->rss++;
        if (!memcpy_to_target(stack_base, bprm->page[i],
                 TARGET_PAGE_SIZE)) {
           errno = EFAULT;
           return -1;
        }
        g_free(bprm->page[i]);
     }
     stack_base += TARGET_PAGE_SIZE;
  }

  return 0;
}

#endif /* !_TARGET_OS_STACK_H_ */
```

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```
TARGET_ARCH=x86_64
TARGET_BASE_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-64bit.xml
/*
*  x86_64 cpu init and loop
*
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#ifndef _TARGET_ARCH_CPU_H_
#define _TARGET_ARCH_CPU_H_
```

```
#include "target_arch.h"

#define TARGET_DEFAULT_CPU_MODEL "qemu64"

static inline void target_cpu_init(CPUX86State *env,
      struct target_pt_regs *regs)
{
  uint64_t *gdt_table;

  env->cr[0] = CR0_PG_MASK | CR0_WP_MASK | CR0_PE_MASK;
   env->hflags |= HF_PE_MASK | HF_CPL_MASK;
  if (env->features[FEAT_1_EDX] & CPUID_SSE) {
     env->cr[4] |= CR4_OSFXSR_MASK;
     env->hflags |= HF_OSFXSR_MASK;
  }

  /* enable 64 bit mode if possible */
  if (!(env->features[FEAT_8000_0001_EDX] & CPUID_EXT2_LM)) {
     fprintf(stderr, "The selected x86 CPU does not support 64 bit mode\n");
     exit(1);
  }
  env->cr[4] |= CR4_PAE_MASK;
  env->efer |= MSR_EFER_LMA | MSR_EFER_LME;
  env->hflags |= HF_LMA_MASK;

  /* flags setup : we activate the IRQs by default as in user mode */
  env->eflags |= IF_MASK;

  /* register setup */
  env->regs[R_EAX] = regs->rax;
  env->regs[R_EBX] = regs->rbx;
  env->regs[R_ECX] = regs->rcx;
  env->regs[R_EDX] = regs->rdx;
  env->regs[R_ESI] = regs->rsi;
  env->regs[R_EDI] = regs->rdi;
  env->regs[R_EBP] = regs->rbp;
  env->regs[R_ESP] = regs->rsp;
  env->eip = regs->rip;

  /* interrupt setup */
  env->idt.limit = 511;

  env->idt.base = target_mmap(0,
 sizeof(uint64_t) * (env->idt.limit + 1),
     PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
  bsd_x86_64_set_idt_base(env->idt.base);
  bsd_x86_64_set_idt(0, 0);
  bsd_x86_64_set_idt(1, 0);
```

```
  bsd_x86_64_set_idt(2, 0);
  bsd_x86_64_set_idt(3, 3);
  bsd_x86_64_set_idt(4, 3);
  bsd_x86_64_set_idt(5, 0);
  bsd_x86_64_set_idt(6, 0);
  bsd_x86_64_set_idt(7, 0);
  bsd_x86_64_set_idt(8, 0);
  bsd_x86_64_set_idt(9, 0);
  bsd_x86_64_set_idt(10, 0);
  bsd_x86_64_set_idt(11, 0);
  bsd_x86_64_set_idt(12, 0);
  bsd_x86_64_set_idt(13, 0);
  bsd_x86_64_set_idt(14, 0);
  bsd_x86_64_set_idt(15, 0);
  bsd_x86_64_set_idt(16, 0);
  bsd_x86_64_set_idt(17, 0);
  bsd_x86_64_set_idt(18, 0);
  bsd_x86_64_set_idt(19, 0);
  bsd_x86_64_set_idt(0x80, 3);

  /* segment setup */
  env->gdt.base = target_mmap(0, sizeof(uint64_t) * TARGET_GDT_ENTRIES,
        PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
  env->gdt.limit =
 sizeof(uint64_t) * TARGET_GDT_ENTRIES - 1;
  gdt_table = g2h_untagged(env->gdt.base);

  /* 64 bit code segment */
  bsd_x86_64_write_dt(&gdt_table[__USER_CS >> 3], 0, 0xfffff,
        DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK | DESC_L_MASK
        | (3 << DESC_DPL_SHIFT) | (0xa << DESC_TYPE_SHIFT));

  bsd_x86_64_write_dt(&gdt_table[__USER_DS >> 3], 0, 0xfffff,
        DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
        (3 << DESC_DPL_SHIFT) | (0x2 << DESC_TYPE_SHIFT));

  cpu_x86_load_seg(env, R_CS, __USER_CS);
  cpu_x86_load_seg(env, R_SS, __USER_DS);
  cpu_x86_load_seg(env, R_DS, 0);
  cpu_x86_load_seg(env, R_ES, 0);
  cpu_x86_load_seg(env, R_FS, 0);
  cpu_x86_load_seg(env, R_GS, 0);
}

static inline void target_cpu_loop(CPUX86State *env)
{
  CPUState *cs = env_cpu(env);
  int trapnr;
```

```
abi_ulong pc;
/* target_siginfo_t info; */

for (;;) {
    cpu_exec_start(cs);
    trapnr = cpu_exec(cs);
    cpu_exec_end(cs);
     process_queued_cpu_work(cs);

    switch (trapnr) {
    case 0x80:
        /* syscall from int $0x80 */
        if (bsd_type == target_freebsd) {
            abi_ulong params = (abi_ulong) env->regs[R_ESP] +
                sizeof(int32_t);
            int32_t syscall_nr = env->regs[R_EAX];
            int32_t arg1, arg2, arg3, arg4, arg5, arg6, arg7, arg8;

            if (syscall_nr == TARGET_FREEBSD_NR_syscall) {
                get_user_s32(syscall_nr, params);
                params += sizeof(int32_t);
            } else if (syscall_nr == TARGET_FREEBSD_NR___syscall) {
                get_user_s32(syscall_nr, params);
                params += sizeof(int64_t);
            }
            get_user_s32(arg1, params);
            params += sizeof(int32_t);
            get_user_s32(arg2, params);
            params += sizeof(int32_t);
            get_user_s32(arg3, params);

    params += sizeof(int32_t);
            get_user_s32(arg4, params);
            params += sizeof(int32_t);
            get_user_s32(arg5, params);
            params += sizeof(int32_t);
            get_user_s32(arg6, params);
            params += sizeof(int32_t);
            get_user_s32(arg7, params);
            params += sizeof(int32_t);
            get_user_s32(arg8, params);
            env->regs[R_EAX] = do_freebsd_syscall(env,
                                        syscall_nr,
                                        arg1,
                                        arg2,
                                        arg3,
                                        arg4,
                                        arg5,
```

```
                                arg6,
                                arg7,

                arg8);
        } else { /* if (bsd_type == target_openbsd) */
            env->regs[R_EAX] = do_openbsd_syscall(env,
                                env->regs[R_EAX],
                                env->regs[R_EBX],
                                env->regs[R_ECX],
                                env->regs[R_EDX],
                                env->regs[R_ESI],
                                env->regs[R_EDI],
                                env->regs[R_EBP]);
        }
        if (((abi_ulong)env->regs[R_EAX]) >= (abi_ulong)(-515)) {
            env->regs[R_EAX] = -env->regs[R_EAX];
            env->eflags |= CC_C;
        } else {
            env->eflags &= ~CC_C;
        }
        break;

    case EXCP_SYSCALL:
        /* syscall from syscall instruction */
         if (bsd_type == target_freebsd) {
            env->regs[R_EAX] = do_freebsd_syscall(env,
                                env->regs[R_EAX],
                                env->regs[R_EDI],
                                env->regs[R_ESI],
                                env->regs[R_EDX],
                                env->regs[R_ECX],
                                env->regs[8],
                                env->regs[9], 0, 0);
        } else { /* if (bsd_type == target_openbsd) */
            env->regs[R_EAX] = do_openbsd_syscall(env,
                                env->regs[R_EAX],
                                env->regs[R_EDI],
                                env->regs[R_ESI],
                                env->regs[R_EDX],
                                 env->regs[10],
                                env->regs[8],
                                env->regs[9]);
        }
        env->eip = env->exception_next_eip;
        if (((abi_ulong)env->regs[R_EAX]) >= (abi_ulong)(-515)) {
            env->regs[R_EAX] = -env->regs[R_EAX];
            env->eflags |= CC_C;
        } else {
```

```
            env->eflags &= ~CC_C;
        }
        break;

    case EXCP_INTERRUPT:
        /* just indicate that signals should be handled asap */
        break;

    case EXCP_ATOMIC:
        cpu_exec_step_atomic(cs);
        break;

    default:
        pc = env->segs[R_CS].base + env->eip;
        fprintf(stderr, "qemu: 0x%08lx: unhandled CPU exception 0x%x - "
                "aborting\n", (long)pc, trapnr);
        abort();
    }
    process_pending_signals(env);
  }
}

static inline void target_cpu_clone_regs(CPUX86State *env, target_ulong newsp)
{
  if (newsp) {
    env->regs[R_ESP] = newsp;
  }
  env->regs[R_EAX] = 0;
}

static inline void target_cpu_reset(CPUArchState *cpu)
{
  cpu_reset(env_cpu(cpu));
}

#endif /* ! _TARGET_ARCH_CPU_H_ */
/*
*  i386 system call definitions
*
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```
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*/
#ifndef TARGET_SYSCALL_H
#define TARGET_SYSCALL_H

/* default linux values for the selectors */
#define __USER_CS (0x23)
#define __USER_DS (0x2B)

struct target_pt_regs {
 long ebx;
 long ecx;
 long edx;
 long esi;
 long edi;
 long ebp;
 long eax;
 int  xds;
 int  xes;
 long orig_eax;
 long eip;
 int
  xcs;
 long eflags;
 long esp;
 int  xss;
};

/* ioctls */

#define TARGET_LDT_ENTRIES      8192
#define TARGET_LDT_ENTRY_SIZE 8

#define TARGET_GDT_ENTRIES             9
#define TARGET_GDT_ENTRY_TLS_ENTRIES   3
#define TARGET_GDT_ENTRY_TLS_MIN       6
#define TARGET_GDT_ENTRY_TLS_MAX       (TARGET_GDT_ENTRY_TLS_MIN +
TARGET_GDT_ENTRY_TLS_ENTRIES - 1)

struct target_modify_ldt_ldt_s {
  unsigned int  entry_number;
  abi_ulong base_addr;
  unsigned int limit;
  unsigned int flags;
};
```

```
/* vm86 defines */

#define TARGET_BIOSSEG  0x0f000

#define TARGET_CPU_086  0
#define TARGET_CPU_186  1
#define TARGET_CPU_286  2
#define TARGET_CPU_386  3
#define TARGET_CPU_486  4
#define TARGET_CPU_586  5

#define TARGET_VM86_SIGNAL 0 /* return due to signal */
#define TARGET_VM86_UNKNOWN 1 /* unhandled GP fault - IO-instruction or similar */
#define TARGET_VM86_INTx 2 /* int3/int x instruction (ARG = x) */
#define TARGET_VM86_STI 3 /* sti/popf/iret instruction enabled virtual interrupts */

/*
 * Additional return values when invoking new vm86()
*/
#define TARGET_VM86_PICRETURN 4 /* return due to pending PIC request */
#define TARGET_VM86_TRAP 6 /* return due to DOS-debugger request */

/*
* function codes when invoking new vm86()
*/
#define TARGET_VM86_PLUS_INSTALL_CHECK 0
#define TARGET_VM86_ENTER  1
#define TARGET_VM86_ENTER_NO_BYPASS 2
#define TARGET_VM86_REQUEST_IRQ 3
#define TARGET_VM86_FREE_IRQ  4
#define TARGET_VM86_GET_IRQ_BITS 5
#define TARGET_VM86_GET_AND_RESET_IRQ 6

/*
* This is the stack-layout seen by the user space program when we have
* done a translation of "SAVE_ALL" from vm86 mode. The real kernel layout
* is 'kernel_vm86_regs' (see below).
*/

struct target_vm86_regs {
/*
* normal regs, with special meaning for the segment descriptors..
*/
 abi_long ebx;
 abi_long ecx;
 abi_long edx;
 abi_long esi;
```

```
 abi_long edi;
 abi_long ebp;
 abi_long eax;
 abi_long __null_ds;
 abi_long __null_es;
 abi_long __null_fs;
 abi_long __null_gs;
 abi_long orig_eax;
 abi_long
 eip;
 unsigned short cs, __csh;
 abi_long eflags;
 abi_long esp;
 unsigned short ss, __ssh;
/*
* these are specific to v86 mode:
*/
 unsigned short es, __esh;
 unsigned short ds, __dsh;
 unsigned short fs, __fsh;
 unsigned short gs, __gsh;
};

struct target_revectored_struct {
 abi_ulong __map[8];   /* 256 bits */
};

struct target_vm86_struct {
 struct target_vm86_regs regs;
 abi_ulong flags;
 abi_ulong screen_bitmap;
 abi_ulong cpu_type;
 struct target_revectored_struct int_revectored;
 struct target_revectored_struct int21_revectored;
};

/*
* flags masks
*/
#define TARGET_VM86_SCREEN_BITMAP 0x0001

struct target_vm86plus_info_struct {
      abi_ulong flags;
#define TARGET_force_return_for_pic (1 << 0)
#define TARGET_vm86dbg_active       (1 << 1)  /* for debugger */
#define TARGET_vm86dbg_TFpendig     (1 << 2)  /* for debugger */
#define TARGET_is_vm86pus           (1 << 31) /* for vm86 internal use */
 unsigned char vm86dbg_intxxtab[32];   /* for debugger */
```

```
};

struct
 target_vm86plus_struct {
 struct target_vm86_regs regs;
 abi_ulong flags;
 abi_ulong screen_bitmap;
 abi_ulong cpu_type;
 struct target_revectored_struct int_revectored;
 struct target_revectored_struct int21_revectored;
 struct target_vm86plus_info_struct vm86plus;
};

/* FreeBSD sysarch(2) */
#define TARGET_FREEBSD_I386_GET_LDT 0
#define TARGET_FREEBSD_I386_SET_LDT 1
   /* I386_IOPL */
#define TARGET_FREEBSD_I386_GET_IOPERM 3
#define TARGET_FREEBSD_I386_SET_IOPERM 4
   /* xxxxx */
#define TARGET_FREEBSD_I386_VM86 6
#define TARGET_FREEBSD_I386_GET_FSBASE 7
#define TARGET_FREEBSD_I386_SET_FSBASE 8
#define TARGET_FREEBSD_I386_GET_GSBASE 9
#define TARGET_FREEBSD_I386_SET_GSBASE 10


#define UNAME_MACHINE "i386"
#define TARGET_HW_MACHINE UNAME_MACHINE
#define TARGET_HW_MACHINE_ARCH UNAME_MACHINE

#endif /* TARGET_SYSCALL_H */
```

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{signature of Ty Coon}, 1 April 1989
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```
/*
*  OpenBSD setup_initial_stack() implementation.
*
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*/

#ifndef _TARGET_OS_STACK_H_
#define _TARGET_OS_STACK_H_

#include "target_arch_sigtramp.h"

static inline int setup_initial_stack(struct bsd_binprm *bprm, abi_ulong *p,
```

```
  abi_ulong *stringp)
{
  int i;
  abi_ulong stack_base;

  stack_base
 = (target_stkbas + target_stksiz) -
              MAX_ARG_PAGES * TARGET_PAGE_SIZE;
  if (p) {
     *p = stack_base;
  }
  if (stringp) {
     *stringp = stack_base;
  }

  for (i = 0; i < MAX_ARG_PAGES; i++) {
     if (bprm->page[i]) {
        info->rss++;
        if (!memcpy_to_target(stack_base, bprm->page[i],
                 TARGET_PAGE_SIZE)) {
           errno = EFAULT;
           return -1;
        }
        g_free(bprm->page[i]);
     }
     stack_base += TARGET_PAGE_SIZE;
  }

  return 0;
}

#endif /* !_TARGET_OS_STACK_H_ */
```

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-- Wolfgang Denk
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/*
* Intel x86 specific prototypes for bsd-user
*
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*/

#ifndef _TARGET_ARCH_H_
#define _TARGET_ARCH_H_

/* target_arch_cpu.c */

```
void bsd_i386_write_dt(void *ptr, unsigned long addr, unsigned long limit,
        int flags);
void bsd_i386_set_idt(int n, unsigned int dpl);
void bsd_i386_set_idt_base(uint64_t
 base);

#define target_cpu_set_tls(env, newtls)

#endif /* ! _TARGET_ARCH_H_ */
```

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```
#ifndef _TARGET_OS_SIGNAL_H_
#define _TARGET_OS_SIGNAL_H_

/* FreeBSD's sys/ucontext.h defines this */
#define TARGET_MC_GET_CLEAR_RET 0x0001

#include "target_os_siginfo.h"
#include "target_arch_signal.h"

/* Compare to sys/signal.h */
#define TARGET_SIGHUP  1      /* hangup */
#define TARGET_SIGINT  2      /* interrupt */
#define TARGET_SIGQUIT 3      /* quit */
#define TARGET_SIGILL  4      /* illegal instruction (not reset when caught) */
#define TARGET_SIGTRAP 5      /* trace trap (not reset when caught) */
#define TARGET_SIGABRT 6      /* abort() */
#define TARGET_SIGIOT  SIGABRT /* compatibility */
#define TARGET_SIGEMT  7      /* EMT instruction */
#define TARGET_SIGFPE  8      /* floating point exception */
#define TARGET_SIGKILL 9      /* kill (cannot be caught or ignored) */
#define TARGET_SIGBUS  10     /* bus error */
#define TARGET_SIGSEGV 11     /* segmentation violation */
#define TARGET_SIGSYS  12     /* bad argument to system call */
#define TARGET_SIGPIPE
```

```
 13     /* write on a pipe with no one to read it */
#define TARGET_SIGALRM 14      /* alarm clock */
#define TARGET_SIGTERM 15      /* software termination signal from kill */
#define TARGET_SIGURG  16      /* urgent condition on IO channel */
#define TARGET_SIGSTOP 17      /* sendable stop signal not from tty */
#define TARGET_SIGTSTP 18      /* stop signal from tty */
#define TARGET_SIGCONT 19      /* continue a stopped process */
#define TARGET_SIGCHLD 20      /* to parent on child stop or exit */
#define TARGET_SIGTTIN 21      /* to readers pgrp upon background tty read */
#define TARGET_SIGTTOU 22      /* like TTIN for output if(tp->t_local&LTOSTOP)*/
#define TARGET_SIGIO   23      /* input/output possible signal */
#define TARGET_SIGXCPU 24      /* exceeded CPU time limit */
#define TARGET_SIGXFSZ 25      /* exceeded file size limit */
#define TARGET_SIGVTALRM 26    /* virtual time alarm */
#define TARGET_SIGPROF 27      /* profiling time alarm */
#define TARGET_SIGWINCH 28
 /* window size changes */
#define TARGET_SIGINFO  29     /* information request */
#define TARGET_SIGUSR1 30      /* user defined signal 1 */
#define TARGET_SIGUSR2 31      /* user defined signal 2 */
#define TARGET_SIGTHR 32       /* reserved by thread library */
#define TARGET_SIGLWP SIGTHR   /* compatibility */
#define TARGET_SIGLIBRT 33     /* reserved by the real-time library */
#define TARGET_SIGRTMIN 65
#define TARGET_SIGRTMAX 126

/*
* Language spec says we must list exactly one parameter, even though we
* actually supply three.  Ugh!
*/
#define TARGET_SIG_DFL      ((abi_long)0)   /* default signal handling */
#define TARGET_SIG_IGN      ((abi_long)1)   /* ignore signal */
#define TARGET_SIG_ERR      ((abi_long)-1)  /* error return from signal */

#define TARGET_SA_ONSTACK   0x0001  /* take signal on signal stack */
#define TARGET_SA_RESTART   0x0002  /* restart system on signal return */
#define TARGET_SA_RESETHAND 0x0004  /* reset to SIG_DFL when taking signal */
#define TARGET_SA_NODEFER
  0x0010  /* don't mask the signal we're delivering */
#define TARGET_SA_NOCLDWAIT 0x0020  /* don't create zombies (assign to pid 1) */
#define TARGET_SA_USERTRAMP 0x0100  /* do not bounce off kernel's sigtramp */
#define TARGET_SA_NOCLDSTOP 0x0008  /* do not generate SIGCHLD on child stop */
#define TARGET_SA_SIGINFO   0x0040  /* generate siginfo_t */

/*
* Flags for sigprocmask:
*/
#define TARGET_SIG_BLOCK        1   /* block specified signal set */
```

```
#define TARGET_SIG_UNBLOCK      2   /* unblock specified signal set */
#define TARGET_SIG_SETMASK      3   /* set specified signal set */

#define TARGET_BADSIG           SIG_ERR

/*
* sigaltstack control
*/
#define TARGET_SS_ONSTACK 0x0001  /* take signals on alternate stack */
#define TARGET_SS_DISABLE 0x0004  /* disable taking signals on alternate stack*/

#endif /* !_TARGET_OS_SIGNAL_H_ */
```

This is the software license for Capstone disassembly framework.
Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>

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```
/*
*  FreeBSD amd64 register structures
*
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```

```
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*/

#ifndef _TARGET_ARCH_REG_H_
#define _TARGET_ARCH_REG_H_

/* See sys/amd64/include/reg.h */
typedef struct target_reg {
  uint64_t      r_r15;
  uint64_t      r_r14;
  uint64_t      r_r13;
  uint64_t      r_r12;
  uint64_t
      r_r11;
  uint64_t      r_r10;
  uint64_t      r_r9;
  uint64_t      r_r8;
  uint64_t      r_rdi;
  uint64_t      r_rsi;
  uint64_t      r_rbp;
  uint64_t      r_rbx;
  uint64_t      r_rdx;
  uint64_t      r_rcx;
  uint64_t      r_rax;
  uint32_t      r_trapno;
  uint16_t      r_fs;
  uint16_t      r_gs;
  uint32_t      r_err;
  uint16_t      r_es;
  uint16_t      r_ds;
  uint64_t      r_rip;
  uint64_t      r_cs;
  uint64_t      r_rflags;
  uint64_t      r_rsp;
  uint64_t      r_ss;
```

```
} target_reg_t;

typedef struct target_fpreg {
  uint64_t       fpr_env[4];
  uint8_t        fpr_acc[8][16];
  uint8_t        fpr_xacc[16][16];
  uint64_t       fpr_spare[12];
} target_fpreg_t;

static inline void target_copy_regs(target_reg_t *regs, const CPUX86State *env)
{

  regs->r_r15 = env->regs[15];
  regs->r_r14 = env->regs[14];
  regs->r_r13 = env->regs[13];
  regs->r_r12 = env->regs[12];
   regs->r_r11 = env->regs[11];
  regs->r_r10 = env->regs[10];
  regs->r_r9 = env->regs[9];
  regs->r_r8 = env->regs[8];
  regs->r_rdi = env->regs[R_EDI];
  regs->r_rsi = env->regs[R_ESI];
  regs->r_rbp = env->regs[R_EBP];
  regs->r_rbx = env->regs[R_EBX];
  regs->r_rdx = env->regs[R_EDX];
  regs->r_rcx = env->regs[R_ECX];
  regs->r_rax = env->regs[R_EAX];
  /* regs->r_trapno = env->regs[R_TRAPNO]; XXX */
  regs->r_fs = env->segs[R_FS].selector & 0xffff;
  regs->r_gs = env->segs[R_GS].selector & 0xffff;
  regs->r_err = env->error_code;  /* XXX ? */
  regs->r_es = env->segs[R_ES].selector & 0xffff;
  regs->r_ds = env->segs[R_DS].selector & 0xffff;
  regs->r_rip = env->eip;
  regs->r_cs = env->segs[R_CS].selector & 0xffff;
  regs->r_rflags = env->eflags;
  regs->r_rsp = env->regs[R_ESP];
  regs->r_ss = env->segs[R_SS].selector & 0xffff;
}

#endif /* !_TARGET_ARCH_REG_H_ */
#ifndef _TARGET_OS_SIGNAL_H_
#define _TARGET_OS_SIGNAL_H_

#include "target_os_siginfo.h"
#include "target_arch_signal.h"

#define TARGET_SIGHUP  1       /* hangup */
```

```
#define TARGET_SIGINT  2       /* interrupt */
#define TARGET_SIGQUIT 3       /* quit */
#define TARGET_SIGILL  4       /* illegal instruction (not reset when caught) */
#define TARGET_SIGTRAP 5       /* trace trap (not reset when caught) */
#define TARGET_SIGABRT 6       /* abort() */
#define TARGET_SIGIOT  SIGABRT /* compatibility */
#define TARGET_SIGEMT  7       /* EMT instruction */
#define TARGET_SIGFPE  8       /* floating point exception */
#define TARGET_SIGKILL 9       /* kill (cannot be caught or ignored) */
#define TARGET_SIGBUS  10      /* bus error */
#define TARGET_SIGSEGV 11      /* segmentation violation */
#define TARGET_SIGSYS  12      /* bad argument to system call */
#define TARGET_SIGPIPE 13      /* write on a pipe with no one to read it */
#define TARGET_SIGALRM 14      /* alarm clock */
#define TARGET_SIGTERM
 15      /* software termination signal from kill */
#define TARGET_SIGURG  16      /* urgent condition on IO channel */
#define TARGET_SIGSTOP 17      /* sendable stop signal not from tty */
#define TARGET_SIGTSTP 18      /* stop signal from tty */
#define TARGET_SIGCONT 19      /* continue a stopped process */
#define TARGET_SIGCHLD 20      /* to parent on child stop or exit */
#define TARGET_SIGTTIN 21      /* to readers pgrp upon background tty read */
#define TARGET_SIGTTOU 22      /* like TTIN for out if (tp->t_local&LTOSTOP) */
#define TARGET_SIGIO   23      /* input/output possible signal */
#define TARGET_SIGXCPU 24      /* exceeded CPU time limit */
#define TARGET_SIGXFSZ 25      /* exceeded file size limit */
#define TARGET_SIGVTALRM 26    /* virtual time alarm */
#define TARGET_SIGPROF   27    /* profiling time alarm */
#define TARGET_SIGWINCH  28    /* window size changes */
#define TARGET_SIGINFO   29    /* information request */
#define TARGET_SIGUSR1   30    /*
 user defined signal 1 */
#define TARGET_SIGUSR2   31    /* user defined signal 2 */

/*
* Language spec says we must list exactly one parameter, even though we
* actually supply three.  Ugh!
*/
#define TARGET_SIG_DFL         ((void (*)(int))0)
#define TARGET_SIG_IGN         ((void (*)(int))1)
#define TARGET_SIG_ERR         ((void (*)(int))-1)

#define TARGET_SA_ONSTACK   0x0001  /* take signal on signal stack */
#define TARGET_SA_RESTART   0x0002  /* restart system on signal return */
#define TARGET_SA_RESETHAND 0x0004  /* reset to SIG_DFL when taking signal */
#define TARGET_SA_NODEFER   0x0010  /* don't mask the signal we're delivering */
#define TARGET_SA_NOCLDWAIT 0x0020  /* don't create zombies (assign to pid 1) */
#define TARGET_SA_USERTRAMP 0x0100  /* do not bounce off kernel's sigtramp */
```

```
#define TARGET_SA_NOCLDSTOP 0x0008  /* do not generate SIGCHLD on child stop */
#define TARGET_SA_SIGINFO   0x0040  /* generate siginfo_t */

/*
* Flags for sigprocmask:
*/
#define TARGET_SIG_BLOCK
      1       /* block specified signal set */
#define TARGET_SIG_UNBLOCK     2       /* unblock specified signal set */
#define TARGET_SIG_SETMASK     3       /* set specified signal set */

#define TARGET_BADSIG       SIG_ERR

#define TARGET_SS_ONSTACK 0x0001 /* take signals on alternate stack */
#define TARGET_SS_DISABLE 0x0004 /* disable taking signals on alternate stack */

#endif /* !_TARGET_OS_SIGNAL_H_ */
```

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Version 3, 29 June 2007

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```
/*
*  x86_64 signal definitions
*
```

```
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*/
#ifndef _TARGET_ARCH_SIGNAL_H_
#define _TARGET_ARCH_SIGNAL_H_

#include "cpu.h"

/* Size of the signal trampolin code placed on the stack. */
#define TARGET_SZSIGCODE    0

/* compare to  x86/include/_limits.h */
#define TARGET_MINSIGSTKSZ  (512 * 4)             /* min sig stack size */
#define TARGET_SIGSTKSZ
    (MINSIGSTKSZ + 32768)   /* recommended size */

struct target_sigcontext {
  /* to be added */
};

typedef struct target_mcontext {
} target_mcontext_t;

typedef struct target_ucontext {
  target_sigset_t   uc_sigmask;
  target_mcontext_t uc_mcontext;
  abi_ulong         uc_link;
  target_stack_t    uc_stack;
  int32_t           uc_flags;
  int32_t         __spare__[4];
} target_ucontext_t;

struct target_sigframe {
  abi_ulong   sf_signum;
  abi_ulong   sf_siginfo;    /* code or pointer to sf_si */
  abi_ulong   sf_ucontext;   /* points to sf_uc */
  abi_ulong   sf_addr;       /* undocumented 4th arg */
```

```
  target_ucontext_t   sf_uc; /* = *sf_uncontext */
  target_siginfo_t    sf_si; /* = *sf_siginfo (SA_SIGINFO case)*/
  uint32_t    __spare__[2];
};

/*
* Compare to amd64/amd64/machdep.c sendsig()
* Assumes that target stack frame memory is locked.
*/
static inline abi_long set_sigtramp_args(CPUX86State *regs,
      int sig, struct target_sigframe
 *frame, abi_ulong frame_addr,
      struct target_sigaction *ka)
{
  /* XXX return -TARGET_EOPNOTSUPP; */
  return 0;
}

/* Compare to amd64/amd64/machdep.c get_mcontext() */
static inline abi_long get_mcontext(CPUX86State *regs,
            target_mcontext_t *mcp, int flags)
{
  /* XXX */
  return -TARGET_EOPNOTSUPP;
}

/* Compare to amd64/amd64/machdep.c set_mcontext() */
static inline abi_long set_mcontext(CPUX86State *regs,
      target_mcontext_t *mcp, int srflag)
{
  /* XXX */
  return -TARGET_EOPNOTSUPP;
}

static inline abi_long get_ucontext_sigreturn(CPUX86State *regs,
      abi_ulong target_sf, abi_ulong *target_uc)
{
  /* XXX */
  *target_uc = 0;
  return -TARGET_EOPNOTSUPP;
}

#endif /* !TARGET_ARCH_SIGNAL_H_ */
/*
*  mips64 system call definitions
*
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*/
#ifndef _MIPS64_SYSCALL_H_
#define _MIPS64_SYSCALL_H_

/*
* struct target_pt_regs defines the way the registers are stored on the stack
* during a system call.
*/

struct target_pt_regs {
  /* Saved main processor registers. */
  abi_ulong regs[32];

  /* Saved special registers. */
  abi_ulong
 cp0_status;
  abi_ulong lo;
  abi_ulong hi;
  abi_ulong cp0_badvaddr;
  abi_ulong cp0_cause;
  abi_ulong cp0_epc;
};


#if defined(TARGET_WORDS_BIGENDIAN)
#define UNAME_MACHINE "mips64"
#else
#define UNAME_MACHINE "mips64el"
#endif

#define TARGET_HW_MACHINE       "mips"
#define TARGET_HW_MACHINE_ARCH  UNAME_MACHINE

/* sysarch() commands */
#define TARGET_MIPS_SET_TLS     1
#define TARGET_MIPS_GET_TLS     2
```

#endif /* !_MIPS64_SYSCALL_H_ */
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```
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*  i386 dependent signal definitions
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*/
#ifndef TARGET_ARCH_SIGNAL_H
#define TARGET_ARCH_SIGNAL_H

#include "cpu.h"

/* Size of the signal trampolin code placed on the stack. */
#define TARGET_SZSIGCODE    0

/* compare to  x86/include/_limits.h */
#define TARGET_MINSIGSTKSZ  (512 * 4)           /* min sig stack size */
```

```
#define TARGET_SIGSTKSZ
    (MINSIGSTKSZ + 32768)   /* recommended size */

struct target_sigcontext {
  /* to be added */
};

typedef struct target_mcontext {
} target_mcontext_t;

typedef struct target_ucontext {
  target_sigset_t   uc_sigmask;
  target_mcontext_t uc_mcontext;
  abi_ulong         uc_link;
  target_stack_t    uc_stack;
  int32_t           uc_flags;
  int32_t         __spare__[4];
} target_ucontext_t;

struct target_sigframe {
  abi_ulong   sf_signum;
  abi_ulong   sf_siginfo;    /* code or pointer to sf_si */
  abi_ulong   sf_ucontext;   /* points to sf_uc */
  abi_ulong   sf_addr;       /* undocumented 4th arg */
  target_ucontext_t   sf_uc; /* = *sf_uncontext */
  target_siginfo_t    sf_si; /* = *sf_siginfo (SA_SIGINFO case)*/
  uint32_t    __spare__[2];
};

/*
* Compare to i386/i386/machdep.c sendsig()
* Assumes that target stack frame memory is locked.
*/
static inline abi_long set_sigtramp_args(CPUX86State *regs,
       int sig, struct target_sigframe
 *frame, abi_ulong frame_addr,
       struct target_sigaction *ka)
{
  /* XXX return -TARGET_EOPNOTSUPP; */
  return 0;
}

/* Compare to i386/i386/machdep.c get_mcontext() */
static inline abi_long get_mcontext(CPUX86State *regs,
       target_mcontext_t *mcp, int flags)
{
  /* XXX */
  return -TARGET_EOPNOTSUPP;
```

```
}

/* Compare to i386/i386/machdep.c set_mcontext() */
static inline abi_long set_mcontext(CPUX86State *regs,
      target_mcontext_t *mcp, int srflag)
{
  /* XXX */
  return -TARGET_EOPNOTSUPP;
}

static inline abi_long get_ucontext_sigreturn(CPUX86State *regs,
                    abi_ulong target_sf, abi_ulong *target_uc)
{
  /* XXX */
  *target_uc = 0;
  return -TARGET_EOPNOTSUPP;
}

#endif /* TARGET_ARCH_SIGNAL_H */
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*  i386 VM parameters definitions
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*/
#ifndef _TARGET_ARCH_VMPARAM_H_
#define _TARGET_ARCH_VMPARAM_H_

#include "cpu.h"

/* compare to i386/include/vmparam.h */
#define TARGET_MAXTSIZ  (128 * MiB)           /* max text size */
#define TARGET_DFLDSIZ  (128 * MiB)           /* initial data size limit
 */
#define TARGET_MAXDSIZ  (512 * MiB)           /* max data size */
#define TARGET_DFLSSIZ  (8 * MiB)             /* initial stack size limit */
```

```
#define TARGET_MAXSSIZ  (64 * MiB)             /* max stack size */
#define TARGET_SGROWSIZ (128 * KiB)            /* amount to grow stack */

#define TARGET_RESERVED_VA 0xf7000000

#define TARGET_USRSTACK (0xbfc00000)

static inline abi_ulong get_sp_from_cpustate(CPUX86State *state)
{
  return state->regs[R_ESP];
}

static inline void set_second_rval(CPUX86State *state, abi_ulong retval2)
{
  state->regs[R_EDX] = retval2;
}

#endif /* !_TARGET_ARCH_VMPARAM_H_ */

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*/

#ifndef _TARGET_ARCH_H_
#define _TARGET_ARCH_H_

/* target_arch_cpu.c */
void bsd_x86_64_write_dt(void *ptr, unsigned long addr, unsigned long limit,
        int flags);
void bsd_x86_64_set_idt(int n, unsigned int dpl);
void bsd_x86_64_set_idt_base(uint64_t
 base);

#define target_cpu_set_tls(env, newtls)

#endif /* !_TARGET_ARCH_H_ */
```

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```
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```

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```
#ifndef BSD_USER_ARCH_SYSCALL_H_
#define BSD_USER_ARCH_SYSCALL_H_

struct target_pt_regs {
  abi_long uregs[17];
};

#define ARM_cpsr    uregs[16]
#define ARM_pc      uregs[15]
#define ARM_lr      uregs[14]
#define ARM_sp      uregs[13]
#define ARM_ip      uregs[12]
#define ARM_fp      uregs[11]
#define ARM_r10     uregs[10]
#define ARM_r9      uregs[9]
#define ARM_r8      uregs[8]
#define ARM_r7      uregs[7]
#define ARM_r6      uregs[6]
#define ARM_r5      uregs[5]
#define ARM_r4      uregs[4]
#define ARM_r3      uregs[3]
#define ARM_r2      uregs[2]
```

```
#define ARM_r1      uregs[1]
#define ARM_r0      uregs[0]

#define ARM_SYSCALL_BASE    0 /* XXX: FreeBSD only */

#define TARGET_FREEBSD_ARM_SYNC_ICACHE      0
#define TARGET_FREEBSD_ARM_DRAIN_WRITEBUF   1
#define TARGET_FREEBSD_ARM_SET_TP       2
#define TARGET_FREEBSD_ARM_GET_TP       3

#define TARGET_HW_MACHINE       "arm"
#define TARGET_HW_MACHINE_ARCH  "armv6"

#endif /* !BSD_USER_ARCH_SYSCALL_H_ */
```

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#ifndef _HOST_OS_H_
#define _HOST_OS_H_

#define HOST_DEFAULT_BSD_TYPE target_freebsd

#endif /*!_HOST_OS_H_ */
```

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*/
#ifndef _TARGET_OS_ELF_H_
#define _TARGET_OS_ELF_H_

#include "target_arch_elf.h"
#include "elf.h"

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define
 ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
#endif

#ifndef ELF_HWCAP
#define ELF_HWCAP 0
#endif

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
```

```
    ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 12

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,
                                          abi_ulong stringp,
                                          struct elfhdr *exec,
                                          abi_ulong load_addr,
                                           abi_ulong load_bias,
                                          abi_ulong interp_load_addr,
                                          struct image_info *info)
{
    abi_ulong sp;
    int size;
    abi_ulong u_platform;
    const char *k_platform;
    const int n = sizeof(elf_addr_t);

    sp = p;
    u_platform = 0;
    k_platform = ELF_PLATFORM;
    if (k_platform) {
       size_t len = strlen(k_platform) + 1;
       sp -= (len + n - 1) & ~(n - 1);
       u_platform = sp;
       /* FIXME - check return value of memcpy_to_target() for failure */
       memcpy_to_target(sp, k_platform, len);
    }
    /*
     * Force 16 byte _final_ alignment here for generality.
     */
    sp = sp & ~(abi_ulong)15;
    size = (DLINFO_ITEMS + 1) * 2;
    if (k_platform) {
       size += 2;
    }
#ifdef DLINFO_ARCH_ITEMS
    size += DLINFO_ARCH_ITEMS *
 2;
#endif
    size += envc + argc + 2;
    size += 1;                    /* argc itself */
    size *= n;
    if (size & 15) {
       sp -= 16 - (size & 15);
    }
```

```
    /*
     * OpenBSD defines elf_addr_t as Elf32_Off / Elf64_Off
     */
#define NEW_AUX_ENT(id, val) do {               \
        sp -= n; put_user_ual(val, sp);     \
        sp -= n; put_user_ual(id, sp);      \
      } while (0)

    NEW_AUX_ENT(AT_NULL, 0);

    /* There must be exactly DLINFO_ITEMS entries here.  */
    NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
    NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
    NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
    NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
    NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
    NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
    NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
    NEW_AUX_ENT(AT_UID,
 (abi_ulong)getuid());
    NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
    NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
    NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
    NEW_AUX_ENT(AT_HWCAP, (abi_ulong)ELF_HWCAP);
    NEW_AUX_ENT(AT_CLKTCK, (abi_ulong)sysconf(_SC_CLK_TCK));
    if (k_platform) {
        NEW_AUX_ENT(AT_PLATFORM, u_platform);
    }
#ifdef ARCH_DLINFO
    /*
     * ARCH_DLINFO must come last so platform specific code can enforce
     * special alignment requirements on the AUXV if necessary (eg. PPC).
     */
    ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

    sp = loader_build_argptr(envc, argc, sp, stringp);
    return sp;
}

#endif /* _TARGET_OS_ELF_H_ */
/*
* Intel x86_64  sigcode for bsd-user
*
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*
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```

```
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*/

#ifndef _TARGET_ARCH_SIGTRAMP_H_
#define _TARGET_ARCH_SIGTRAMP_H_

static inline abi_long setup_sigtramp(abi_ulong offset, unsigned sigf_uc,
      unsigned sys_sigreturn)
{

  return 0;
}
#endif /* _TARGET_ARCH_SIGTRAMP_H_ */
/*
*  NetBSD thread dependent code and definitions
*
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*/

#ifndef _TARGET_OS_THREAD_H_
#define _TARGET_OS_THREAD_H_

#include "target_arch_thread.h"

#endif /* !_TARGET_OS_THREAD_H_ */
```

```
/*
*  NetBSD host dependent code and definitions
*
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*/

#ifndef _HOST_OS_H_
#define _HOST_OS_H_

#define HOST_DEFAULT_BSD_TYPE target_netbsd

#endif /*!_HOST_OS_H_ */
/*
*  i386 thread support
*
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*/
#ifndef _TARGET_ARCH_THREAD_H_
#define _TARGET_ARCH_THREAD_H_

/* Compare to vm_machdep.c cpu_set_upcall_kse() */
static inline void target_thread_set_upcall(CPUX86State *regs, abi_ulong entry,
```

```
  abi_ulong arg, abi_ulong stack_base, abi_ulong stack_size)
{
  /* XXX */
}

static
 inline void target_thread_init(struct target_pt_regs *regs,
      struct image_info *infop)
{
  regs->esp = infop->start_stack;
  regs->eip = infop->entry;

  /*
   * SVR4/i386 ABI (pages 3-31, 3-32) says that when the program starts %edx
   * contains a pointer to a function which might be registered using
   * `atexit'.  This provides a mean for the dynamic linker to call DT_FINI
   * functions for shared libraries that have been loaded before the code
   * runs.
   *
   * A value of 0 tells we have no such handler.
   */
  regs->edx = 0;
}

#endif /* !_TARGET_ARCH_THREAD_H_ */
/*
*  sys/user.h definitions
*
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*/

#ifndef _TARGET_OS_USER_H_
#define _TARGET_OS_USER_H_

/*
```

```
* from sys/priority.h
*/
struct target_priority {
  uint8_t     pri_class;      /* Scheduling class. */
  uint8_t     pri_level;      /* Normal priority level. */
  uint8_t     pri_native;
    /* Priority before propogation. */
  uint8_t     pri_user;       /* User priority based on p_cpu and p_nice. */
};

/*
* sys/caprights.h
*/
#define TARGET_CAP_RIGHTS_VERSION  0

typedef struct target_cap_rights {
  uint64_t    cr_rights[TARGET_CAP_RIGHTS_VERSION + 2];
} target_cap_rights_t;

/*
* From sys/_socketaddr_storage.h
*
*/
#define TARGET_SS_MAXSIZE     128U
#define TARGET_SS_ALIGNSIZE   (sizeof(__int64_t))
#define TARGET_SS_PAD1SIZE    (TARGET_SS_ALIGNSIZE - sizeof(unsigned char) - \
      sizeof(uint8_t))
#define TARGET_SS_PAD2SIZE    (TARGET_SS_MAXSIZE - sizeof(unsigned char) - \
      sizeof(uint8_t) - TARGET_SS_PAD1SIZE - TARGET_SS_ALIGNSIZE)

struct target_sockaddr_storage {
  unsigned char   ss_len;         /* address length */
  uint8_t         ss_family;      /* address family */
  char            __ss_pad1[TARGET_SS_PAD1SIZE];
  __int64_t       __ss_align;     /* force desired struct alignment */
  char            __ss_pad2[TARGET_SS_PAD2SIZE];
};

/*
 * from sys/user.h
*/
#define TARGET_KI_NSPARE_INT        2
#define TARGET_KI_NSPARE_LONG       12
#define TARGET_KI_NSPARE_PTR        6

#define TARGET_WMESGLEN           8
#define TARGET_LOCKNAMELEN        8
#define TARGET_TDNAMLEN           16
```

```
#define TARGET_COMMLEN            19
#define TARGET_KI_EMULNAMELEN     16
#define TARGET_KI_NGROUPS         16
#define TARGET_LOGNAMELEN         17
#define TARGET_LOGINCLASSLEN      17

#define TARGET_KF_TYPE_NONE       0
#define TARGET_KF_TYPE_VNODE      1
#define TARGET_KF_TYPE_SOCKET     2
#define TARGET_KF_TYPE_PIPE       3
#define TARGET_KF_TYPE_FIFO       4
#define TARGET_KF_TYPE_KQUEUE     5
#define TARGET_KF_TYPE_CRYPTO     6
#define TARGET_KF_TYPE_MQUEUE     7
#define TARGET_KF_TYPE_SHM        8
#define TARGET_KF_TYPE_SEM        9
#define TARGET_KF_TYPE_PTS        10
#define TARGET_KF_TYPE_PROCDESC   11
#define TARGET_KF_TYPE_DEV        12
#define TARGET_KF_TYPE_UNKNOWN    255

struct
 target_kinfo_proc {
   int32_t     ki_structsize;     /* size of this structure */
   int32_t     ki_layout;         /* reserved: layout identifier */
   abi_ulong   ki_args;           /* address of command arguments */
   abi_ulong   ki_paddr;          /* address of proc */
   abi_ulong   ki_addr;           /* kernel virtual addr of u-area */
   abi_ulong   ki_tracep;         /* pointer to trace file */
   abi_ulong   ki_textvp;         /* pointer to executable file */
   abi_ulong   ki_fd;             /* pointer to open file info */
   abi_ulong   ki_vmspace;        /* pointer to kernel vmspace struct */
   abi_ulong   ki_wchan;          /* sleep address */
   int32_t     ki_pid;            /* Process identifier */
   int32_t     ki_ppid;           /* parent process id */
   int32_t     ki_pgid;           /* process group id */
   int32_t     ki_tpgid;          /* tty process group id */
   int32_t     ki_sid;            /* Process session ID
 */
   int32_t     ki_tsid;           /* Terminal session ID */
   int16_t     ki_jobc;           /* job control counter */
   int16_t     ki_spare_short1;   /* unused (just here for alignment) */
   int32_t     ki_tdev__freebsd11; /* controlling tty dev */
   target_sigset_t ki_siglist;    /* Signals arrived but not delivered */
   target_sigset_t ki_sigmask;    /* Current signal mask */
   target_sigset_t ki_sigignore;  /* Signals being ignored */
   target_sigset_t ki_sigcatch;   /* Signals being caught by user */
```

```
  int32_t     ki_uid;           /* effective user id */
  int32_t     ki_ruid;          /* Real user id */
  int32_t     ki_svuid;         /* Saved effective user id */
  int32_t     ki_rgid;          /* Real group id */
  int32_t     ki_svgid;         /* Saved effective group id */
  int16_t     ki_ngroups;       /* number of groups */
  int16_t     ki_spare_short2;  /* unused (just here for alignment) */
  int32_t     ki_groups[TARGET_KI_NGROUPS];
 /* groups */

  abi_long    ki_size;          /* virtual size */

  abi_long    ki_rssize;        /* current resident set size in pages */
  abi_long    ki_swrss;         /* resident set size before last swap */
  abi_long    ki_tsize;         /* text size (pages) XXX */
  abi_long    ki_dsize;         /* data size (pages) XXX */
  abi_long    ki_ssize;         /* stack size (pages) */

  uint16_t    ki_xstat;         /* Exit status for wait & stop signal */
  uint16_t    ki_acflag;        /* Accounting flags */

  uint32_t    ki_pctcpu;        /* %cpu for process during ki_swtime */

  uint32_t    ki_estcpu;        /* Time averaged value of ki_cpticks */
  uint32_t    ki_slptime;       /* Time since last blocked */
  uint32_t    ki_swtime;        /* Time swapped in or out */
  uint32_t    ki_cow;           /* number of copy-on-write faults */
  uint64_t    ki_runtime;       /* Real time in microsec */


 struct  target_freebsd_timeval ki_start;  /* starting time */
  struct  target_freebsd_timeval ki_childtime; /* time used by process children */

  abi_long    ki_flag;          /* P_* flags */
  abi_long    ki_kiflag;        /* KI_* flags (below) */
  int32_t     ki_traceflag;     /* Kernel trace points */
  char        ki_stat;          /* S* process status */
  int8_t      ki_nice;          /* Process "nice" value */
  char        ki_lock;          /* Process lock (prevent swap) count */
  char        ki_rqindex;       /* Run queue index */
  u_char      ki_oncpu_old;     /* Which cpu we are on (legacy) */
  u_char      ki_lastcpu_old;   /* Last cpu we were on (legacy) */
  char        ki_tdname[TARGET_TDNAMLEN + 1];  /* thread name */
  char        ki_wmesg[TARGET_WMESGLEN + 1];   /* wchan message */
  char        ki_login[TARGET_LOGNAMELEN + 1]; /* setlogin name */
  char        ki_lockname[TARGET_LOCKNAMELEN + 1]; /* lock name */
```

```
 char       ki_comm[TARGET_COMMLEN + 1];     /* command name */
  char       ki_emul[TARGET_KI_EMULNAMELEN + 1];  /* emulation name */
  char       ki_loginclass[TARGET_LOGINCLASSLEN + 1]; /* login class */

  char       ki_sparestrings[50];    /* spare string space */
  int32_t    ki_spareints[TARGET_KI_NSPARE_INT]; /* spare room for growth */
  uint64_t ki_tdev;  /* controlling tty dev */
  int32_t    ki_oncpu;          /* Which cpu we are on */
  int32_t    ki_lastcpu;        /* Last cpu we were on */
  int32_t    ki_tracer;         /* Pid of tracing process */
  int32_t    ki_flag2;          /* P2_* flags */
  int32_t    ki_fibnum;         /* Default FIB number */
  uint32_t   ki_cr_flags;       /* Credential flags */
  int32_t    ki_jid;            /* Process jail ID */
  int32_t    ki_numthreads;     /* XXXKSE number of threads in total */

  int32_t    ki_tid;            /* XXXKSE thread id */

  struct  target_priority ki_pri;
 /* process priority */
  struct  target_freebsd_rusage ki_rusage;  /* process rusage statistics */
     /* XXX - most fields in ki_rusage_ch are not (yet) filled in */
  struct  target_freebsd_rusage ki_rusage_ch; /* rusage of children processes */



  abi_ulong   ki_pcb;            /* kernel virtual addr of pcb */
  abi_ulong   ki_kstack;         /* kernel virtual addr of stack */
  abi_ulong   ki_udata;          /* User convenience pointer */
  abi_ulong   ki_tdaddr;         /* address of thread */

  abi_ulong   ki_spareptrs[TARGET_KI_NSPARE_PTR];  /* spare room for growth */
  abi_long    ki_sparelongs[TARGET_KI_NSPARE_LONG];/* spare room for growth */
  abi_long    ki_sflag;          /* PS_* flags */
  abi_long    ki_tdflags;        /* XXXKSE kthread flag */
};

struct target_kinfo_file {
  int32_t  kf_structsize;  /* Variable size of record. */
  int32_t  kf_type;  /* Descriptor type. */
  int32_t  kf_fd;   /* Array index. */
  int32_t  kf_ref_count;
 /* Reference count. */
  int32_t  kf_flags;  /* Flags. */
  int32_t  kf_pad0;  /* Round to 64 bit alignment. */
  int64_t  kf_offset;  /* Seek location. */
  union {
     struct {
        uint32_t kf_spareint;
```

```
        /* Socket domain. */
        int  kf_sock_domain0;
        /* Socket type. */
        int  kf_sock_type0;
        /* Socket protocol. */
        int  kf_sock_protocol0;
        /* Socket address. */
        struct sockaddr_storage kf_sa_local;
        /* Peer address. */
        struct sockaddr_storage kf_sa_peer;
        /* Address of so_pcb. */
        uint64_t kf_sock_pcb;
        /* Address of inp_ppcb. */
        uint64_t kf_sock_inpcb;
        /* Address of unp_conn. */
        uint64_t kf_sock_unpconn;
        /* Send buffer state. */
        uint16_t kf_sock_snd_sb_state;
        /* Receive buffer state. */
        uint16_t kf_sock_rcv_sb_state;
        /*
Round to 64 bit alignment. */
        uint32_t kf_sock_pad0;
    } kf_sock;
    struct {
        /* Vnode type. */
        int  kf_file_type;
        /* Space for future use */
        int  kf_spareint[3];
        uint64_t kf_spareint64[30];
        /* Vnode filesystem id. */
        uint64_t kf_file_fsid;
        /* File device. */
        uint64_t kf_file_rdev;
        /* Global file id. */
        uint64_t kf_file_fileid;
        /* File size. */
        uint64_t kf_file_size;
        /* Vnode filesystem id, FreeBSD 11 compat. */
        uint32_t kf_file_fsid_freebsd11;
        /* File device, FreeBSD 11 compat. */
        uint32_t kf_file_rdev_freebsd11;
        /* File mode. */
        uint16_t kf_file_mode;
        /* Round to 64 bit alignment. */
        uint16_t kf_file_pad0;
        uint32_t kf_file_pad1;
    } kf_file;
```

```
        struct {
            uint32_t kf_spareint[4];
             uint64_t kf_spareint64[32];
            uint32_t kf_sem_value;
            uint16_t kf_sem_mode;
        } kf_sem;
        struct {
            uint32_t kf_spareint[4];
            uint64_t kf_spareint64[32];
            uint64_t kf_pipe_addr;
            uint64_t kf_pipe_peer;
            uint32_t kf_pipe_buffer_cnt;
            /* Round to 64 bit alignment. */
            uint32_t kf_pipe_pad0[3];
        } kf_pipe;
        struct {
            uint32_t kf_spareint[4];
            uint64_t kf_spareint64[32];
            uint32_t kf_pts_dev_freebsd11;
            uint32_t kf_pts_pad0;
            uint64_t kf_pts_dev;
            /* Round to 64 bit alignment. */
            uint32_t kf_pts_pad1[4];
        } kf_pts;
        struct {
            uint32_t kf_spareint[4];
            uint64_t kf_spareint64[32];
            int32_t  kf_pid;
        } kf_proc;
    } kf_un;
    uint16_t kf_status;  /* Status flags. */
    uint16_t kf_pad1;  /* Round to 32 bit alignment. */
    int32_t
   _kf_ispare0;  /* Space for more stuff. */
    target_cap_rights_t kf_cap_rights; /* Capability rights. */
    uint64_t _kf_cap_spare; /* Space for future cap_rights_t. */
    /* Truncated before copyout in sysctl */
    char  kf_path[PATH_MAX]; /* Path to file, if any. */
};

struct target_kinfo_vmentry {
    int32_t  kve_structsize;  /* Variable size of record. */
    int32_t  kve_type;   /* Type of map entry. */
    uint64_t kve_start;   /* Starting address. */
    uint64_t kve_end;   /* Finishing address. */
    uint64_t kve_offset;   /* Mapping offset in object */
    uint64_t kve_vn_fileid;   /* inode number if vnode */
    uint32_t kve_vn_fsid_freebsd11;  /* dev_t of vnode location */
```

```
  int32_t  kve_flags;   /* Flags on map entry. */
  int32_t  kve_resident;   /* Number of resident pages. */
  int32_t  kve_private_resident;  /* Number of private pages. */
  int32_t  kve_protection;  /* Protection bitmask. */
  int32_t  kve_ref_count;   /* VM obj ref count. */

 int32_t  kve_shadow_count;  /* VM obj shadow count. */
  int32_t  kve_vn_type;   /* Vnode type. */
  uint64_t kve_vn_size;   /* File size. */
  uint32_t kve_vn_rdev_freebsd11;  /* Device id if device. */
  uint16_t kve_vn_mode;   /* File mode. */
  uint16_t kve_status;   /* Status flags. */
#if (__FreeBSD_version >= 1300501 && __FreeBSD_version < 1400000) ||    \
  __FreeBSD_version >= 1400009
  union {
     uint64_t _kve_vn_fsid;  /* dev_t of vnode location */
     uint64_t _kve_obj;  /* handle of anon obj */
  } kve_type_spec;
#define kve_vn_fsid kve_type_spec._kve_vn_fsid
#define kve_obj  kve_type_spec._kve_obj
#else
  uint64_t kve_vn_fsid;   /* dev_t of vnode location */
#endif
  uint64_t kve_vn_rdev;   /* Device id if device. */
  int  _kve_ispare[8];  /* Space for more stuff. */
  /* Truncated before copyout in sysctl */
  char  kve_path[PATH_MAX];  /* Path to VM obj, if any. */
};

#endif /* ! _TARGET_OS_USER_H_ */
TARGET_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
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                  Version 2, June 1991

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2018 January 20

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#include "target_arch_thread.h"

#endif /* !_TARGET_OS_THREAD_H_ */
```

1.358 postfix 3.6.7

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1.359 mdadm 4.2

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set xtics rotate by -45
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1.363 boost 1.81.0

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

```
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From dso/aix/dso.c:

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

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

*
* cvt - IEEE floating point formatting routines.
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*

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1.365 tcpdump 4.99.4

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```
# -*- perl -*-

$testlist = [
  # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,
  # which OpenBSD treats as DLT_LOOP.
  {
    config_unset => 'IS_OPENBSD',
    name => 'heap-overflow-1',
    input => 'heap-overflow-1.pcap',
    output => 'heap-overflow-1.out',
    args   => '-v'
  },
];

1;
```

1.366 linux-kernel 5.15.155

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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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*
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// This file contains a constant-time implementation of AES, bitsliced with
// AES steps are evaluated in bitsliced form, stored in an |AES_NOHW_BATCH|.
// This
 stores |AES_NOHW_BATCH_SIZE| blocks in bitsliced order. For 64-bit words
// containing bitsliced blocks a, b, c, d, this would be as follows (vertical
// Observe that the distances between corresponding bits in bitsliced and
// the bitsliced and compact representations may be converted by tranposing bits
// |aes_word_t| work equally for the bitsliced and compact words.
// specified, it is in bitsliced form.
// An AES_NOHW_SCHEDULE is an expanded bitsliced AES key schedule. It is
// |AES_NOHW_BATCH_SIZE| copies of the round key in bitsliced form.
// aes_nohw_transpose converts |batch| to and from bitsliced form. It divides

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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/aes/aes_nohw.c
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*
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/simple_mul.c
*
 /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/e_os2.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/handoff.cc
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/hrss.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cpu-arm-linux.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/scalar.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bn/gcd_extra.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/felem.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/sha/internal.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/hrss/internal.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/md5/internal.h
*
 /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bytestring/unicode.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/tls/internal.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bn/div_extra.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/modes/internal.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/modes/gcm.c

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/grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/modes/ofb.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/pem.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/obj/obj_dat.h

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 /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bn/random.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/ex_data.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bn/gcd.c
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*
* ECC cipher suite support in OpenSSL originally written by
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Found in path(s):
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/tls1.h
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_ocsp.c
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Found in path(s):
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* /grpc-1-53-2-gem/data-tar-gz/third_party/cares/cares/src/lib/ares_android.c
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/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/encode.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/extension_registry.c/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/extension_registry.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/internal/decode.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/internal/table.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/internal/upb.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/internal/vsnprintf_compat.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/json_decode.c/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/json_decode.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/json_encode.c/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/json_encode.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/map.c/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/map.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/message_value.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/mini_table.c/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/mini_table.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/mini_table.hpp/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/msg.c/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/msg.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-

gz/third_party/upb/upb/msg_internal.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/port_def.inc/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/port_undef.inc/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/reflection.c/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/reflection.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/reflection.hpp//
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/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/status.c/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/status.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/table.c/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/table_internal.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/text_encode.c/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/text_encode.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/upb.c/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/upb.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/upb.hpp//
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/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/xxhash/xxhash.h/*
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/adler32.c/*
adler32.c -- compute the Adler-32 checksum of a data stream
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/compress.c/*
compress.c -- compress a memory buffer
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/crc32.c/*
crc32.c -- compute the CRC-32 of a data stream
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/deflate.c/*
deflate.c -- compress data using the deflation algorithm
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/deflate.h/*
deflate.h -- internal compression state
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/gzclose.c/*
gzclose.c -- zlib gzclose() function
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/gzguts.h/*
gzguts.h -- zlib internal header definitions for gz* operations
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/gzlib.c/*
gzlib.c -- zlib functions common to reading and writing gzip files
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/gzread.c/*
gzread.c -- zlib functions for reading gzip files
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/gzwrite.c/*
gzwrite.c -- zlib functions for writing gzip files
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/infback.c/*
infback.c -- inflate using a call-back interface

/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/inffast.c/* inffast.c -- fast decoding
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/inffast.h/* inffast.h -- header to use inffast.c
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/inflate.c/* inflate.c -- zlib decompression
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/inflate.h/* inflate.h -- internal inflate state definition
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/inftrees.c/* inftrees.c -- generate Huffman trees for efficient decoding
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/inftrees.h/* inftrees.h -- header to use inftrees.c
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/trees.c/* trees.c -- output deflated data using Huffman coding
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/uncompr.c/* uncompr.c -- decompress a memory buffer
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/zconf.h/* zconf.h -- configuration of the zlib compression library
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/zlib.h/* zlib.h -- interface of the 'zlib' general purpose compression library
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/zutil.c/* zutil.c -- target dependent utility functions for the compression library
/opt/cola/permits/2634184782_1759119893.3114762/0/grpc-1-53-2-gem/data-tar-gz/third_party/zlib/zutil.h/* zutil.h -- internal interface and configuration of the compression library

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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_ia5.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_lib.c
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*/

Found in path(s):
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_channel.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/slice_buffer.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/atm_gcc_sync.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/sync_windows.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/status.h
*
 /grpc-1-53-2-gem/data-tar-gz/include/grpc/byte_buffer_reader.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/slice_type.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/byte_buffer_reader.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/sync_generic.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_channel.c
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/sync_posix.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_byte_buffer.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/atm_gcc_atomic.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/log.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_byte_buffer.c
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_channel_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/log_windows.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/grpc_types.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/atm.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_call.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/atm.h
*
 /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_channel_credentials.c
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_completion_queue.c
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_server_credentials.c
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_server.c
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_completion_queue.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/port_platform.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/sync_windows.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_server_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_compression_options.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/atm_gcc_sync.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/grpc_types.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_call_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/sync_posix.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/cpu.h
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 /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_grpc.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/byte_buffer.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/alloc.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/atm_windows.h

* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_grpc.c
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/slice.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/atm_windows.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/status.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/string_util.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_compression_options.c
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* /grpc-1-53-2-gem/data-tar-gz/include/grpc/compression.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/sync_generic.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_call.c
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_channel_args.h
*
 /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/sync.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/port_platform.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/log.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/slice.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/workaround_list.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/byte_buffer.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_server.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/time.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/support/atm_gcc_atomic.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_channel_args.c
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/grpc_security.h
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Found in path(s):
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_xds_server_credentials.c
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_xds_channel_credentials.c
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_xds_channel_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_xds_server_credentials.h

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Found in path(s):
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/backend_metric.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/ssl/key_logging/ssl_key_logging.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/iomgr.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/resolve_address_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/ssl_transport_security.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/transport_security_grpc.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channelz_registry.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/frame_protector/alts_record_protocol_crypter_common.cc
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resolver/server_address.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/alts/check_gcp_environment.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/slice/percent_encoding.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/local_subchannel_pool.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_resource_type_impl.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/event_engine/endpoint_config.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/thread_local.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/http/server/http_server_filter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/load_system_roots_fallback.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/crash.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/time_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/ssl_utils.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/posix_engine.h
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/sleep.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/ssl_transport_security_utils.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/local/local_security_connector.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/status_helper.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/http/parser.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/security_connector.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/global_config_env.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/tcp_client_posix.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/server/chttp2_server.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/loop.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resource_quota/api.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/zero_copy_frame_protector/alts_iovec_record_protocol.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/socket_utils_linux.cc
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/context.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/debug/trace.cc

* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/error.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/grpc_if_nametoindex.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/alloc.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/stateful_session/stateful_session_service_config_parser.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/systemd_utils.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/exec_ctx_wakeup_scheduler.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/client_load_reporting_filter.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/try_join.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/ring_hash/ring_hash.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_call_state_internal.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/tcp_socket_utils.h
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/call_combiner.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/local_transport_security.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/iomgr_internal.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/tcp_client_windows.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/frame_protector/alts_record_protocol_crypter_common.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/frame_protector/alts_counter.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/forkable.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/event_string.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/debug/histogram_view.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/load_balancing/lb_policy_factory.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/frame_protector/frame_handler.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/time_averaged_stats.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/ev_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/common_closures.h
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/lockfree_event.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/transport_security_interface.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/completion_queue_factory.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/plugin_registry/grpc_plugin_registry_extra.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/wrap_memcpy.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/json/json.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/socket_mutator.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/handshaker/alts_shared_resource.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/handshaker/alts_tsi_handshaker.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/tcp_socket_utils.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/poller.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_ev_driver.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/oauth2/oauth2_credentials.cc
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/config/core_configuration.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_listener.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/log_android.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resolver/resolver_factory.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/google_default/google_default_credentials.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/service_config_channel_arg_filter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/config/core_configuration.cc

* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_http_stateful_session_filter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/thd_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/internal_errqueue.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/backoff/random_early_detection.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/client/chttp2_connector.cc
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/http_trace.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/ring_hash/ring_hash.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/posix_engine_closure.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/load_file.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/json/json_reader.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/http/client_authority_filter.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/ssl/ssl_security_connector.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/matchers/matchers.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/ssl_transport_security.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/thread_pool.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/certificate_provider/certificate_provider_registry.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_http_filters.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/external/url_external_account_credentials.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/mpscq.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/insecure/insecure_credentials.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/tls/grpc_tls_certificate_provider.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/json/json_util.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_bootstrap_grpc.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/authorization/evaluate_args.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/channel_init.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/status_helper.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/subchannel_interface_internal.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/backend_metrics/backend_metric_filter.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/default_event_engine_factory.h
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/message_size/message_size_filter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/tls/tls_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/pollset_set.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_transport_grpc.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/ev_poll_posix.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/stateful_session/stateful_session_service_config_parser.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/channel_args_endpoint_config.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/systemd_utils.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_bootstrap_grpc.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/rbac/rbac_service_config_parser.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resolver/resolver.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/load_balancer_api.h
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_client_stats.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/utils.cc

* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/ev_posix.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/load_system_roots_supported.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/completion_queue.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/tcp_client_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/http/format_request.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/buffer_list.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_client_grpc.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/resolved_address_internal.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/backup_poller.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_settings.h
* /grpc-1-53-2-gem/data-tar-
gz/src/core/tsi/alts/zero_copy_frame_protector/alts_grpc_integrity_only_record_protocol.cc
*
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/parsed_metadata.h
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gz/src/core/tsi/alts/zero_copy_frame_protector/alts_grpc_integrity_only_record_protocol.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/http/client/http_client_filter.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/resolved_address.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/experiments/config.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/subchannel.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/posix_engine_listener_utils.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/lockfree_event.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/completion_queue_factory.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/ruby/spec/pb/codegen/grpc/testing/same_package_service_name.proto
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/activity.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/http/message_compress/compression_filter.cc

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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/env_windows.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/compression/compression_internal.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/call.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/polling_resolver.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/status_util.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/error.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/tcp_server.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/jwt/jwt_verifier.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/transport/security_handshaker.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/api_trace.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channel_trace.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/service_config/service_config_parser.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/client_channel_plugin.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/xds/xds_cluster_resolver.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/timer.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/alts/check_gcp_environment.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/debug/event_log.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/socket_utils_common_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/http/httpcli.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/event_poller_posix_default.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/channel_ping.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/chttp2_transport.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/authorization/rbac_policy.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channel_trace.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/alts/grpc_alts_credentials_options.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/handle_containers.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/utils.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/sockaddr_posix.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/buffer_list.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/channel_init.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_endpoint.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/fault_injection/fault_injection_filter.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/service_config/service_config_impl.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/ssl/ssl_credentials.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/xds/xds_override_host.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/local/local_credentials.h
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/handshaker/transport_security_common_api.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/alts/grpc_alts_credentials_server_options.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channel_stack_builder_impl.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/posix_endpoint.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/load_balancing/lb_policy_registry.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/handshaker_factory.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/transport_impl.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channel_stack_builder_impl.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/decode_huff.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/load_balancing/subchannel_interface.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_window_update.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/completion_queue.h
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/global_subchannel_pool.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/env.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/lockfree_event.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/address_utils/parse_address.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/local_transport_security.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/external/aws_request_signer.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_certificate_provider.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/weighted_target/weighted_target.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/binder/binder_resolver.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/insecure/insecure_security_connector.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/frame_protector/alts_frame_protector.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/timer_manager.h
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 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resource_quota/periodic_update.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/debug/histogram_view.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/channel_idle/channel_idle_filter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_server_config_fetcher.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/timer.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/iocp_windows.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/endpoint.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/ev_poll_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/timer_manager.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/event_engine_shims/tcp_client.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/external/external_account_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/fake/fake_credentials.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/socket_utils.h

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 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/external/external_account_credentials.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/frame_protector/frame_handler.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/pollset.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/health/health_check_client.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/alts/check_gcp_environment_windows.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/wakeup_fd_eventfd.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/time_precise.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/parsing.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/backend_metric_data.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/closure.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channel_args_preconditioning.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_cluster_specifier_plugin.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/status_conversion.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/http/format_request.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/exec_ctx.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/event_engine_shims/closure.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/thd.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/string_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/load_file.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_goaway.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/slice/percent_encoding.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/crypt/gsec.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/transport/tsi_error.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/resolve_address_impl.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/address_utils/sockaddr_utils.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_bootstrap.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/debug/event_log.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/combiner.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/event_string.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/outlier_detection/outlier_detection.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/client_channel_service_config.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/child_policy_handler.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/context.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/timer.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/handshaker/proxy_mapper.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resolver/resolver_registry.cc
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 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/external/url_external_account_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/sleep.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channel_fwd.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/local/local_security_connector.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/iomgr_posix_cfstream.cc

* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/byte_buffer.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/resolve_address_posix.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/debug/trace.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/rbac/rbac_filter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/fake/fake_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/global_config.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/wakeup_fd_posix_default.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/time_util.cc
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 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/pipe.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/fake_transport_security.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb_client_stats.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/xds/xds_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/oob_backend_metric_internal.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/validate_metadata.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/tls/tls_security_connector.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/examine_stack.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/tmpfile_msys.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/alts/grpc_alts_credentials_options.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/http_connect_handshaker.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/hpack_parser_table.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/packed_table.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/json/json_writer.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/http/httpcli_security_connector.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/xds/xds_override_host.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/dynamic_annotations.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/internal.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/socket_utils_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/windows/iocp.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/iomgr.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/grpc_if_nametoindex_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/retry_throttle.cc
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/ssl/session_cache/ssl_session_cache.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/event_engine_shims/endpoint.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/service_config/service_config.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/ev_apple.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/iomgr_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/transport.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/tcp_client.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/jwt/jwt_credentials.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/windows/windows_engine.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/gethostname_host_name_max.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/channel_idle/idle_filter_state.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/polling_entity.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/xds/xds_channel_args.h

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 /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/inproc/inproc_transport.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_cluster.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/http/httpcli_ssl_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_certificate_provider.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/util/json_util.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/client_channel.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/subchannel_stream_client.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/composite/composite_credentials.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_data.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/timer_manager.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/debug/stats_data.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/sockaddr.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/compression/message_compress.h
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 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/atomic_utils.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/unique_type_name.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/inproc/inproc_transport.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/event_poller_posix_default.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/service_config/service_config_call_data.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/stateful_session/stateful_session_filter.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/tcp_server_utils_posix_ifaddrs.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/channel_idle/channel_idle_filter.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/external/file_external_account_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/ev_poll_posix.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/handshaker/proxy_mapper_registry.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/tcp_server_utils_posix.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/compression/compression_internal.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/unix_sockets_posix.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/detail/promise_factory.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resolver/resolver_registry.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/wakeup_fd_posix.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/transport.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/handshaker/alts_handshaker_client.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/tcp_socket_utils.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/wakeup_fd_pipe.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resource_quota/resource_quota.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/detail/status.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/subchannel_pool_interface.h

* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/chttp2_transport.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/fork_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/composite/composite_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/resolve_address_windows.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/endpoint_pair_windows.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/file_watcher_certificate_provider_factory.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/bin_decoder.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/hpack_encoder_table.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/thd_windows.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/tls/grpc_tls_certificate_distributor.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/subchannel_stream_client.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/pollset.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resource_quota/resource_quota.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/load_system_roots.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/ref_counted.h
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_wrapper.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/load_balancer_api.cc

* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/wakeup_fd_pipe.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/http_connect_handshaker.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/unix_sockets_posix_noop.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/timer_heap.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/iocp_windows.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channel_args_preconditioning.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/ev_poll_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/ssl_utils_config.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/bin_encoder.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/time_util.h
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 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/alts/check_gcp_environment_linux.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/subchannel_list.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/client_channel_service_config.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/deadline/deadline_filter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/endpoint_pair.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resolver/server_address.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/jwt/json_token.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/certificate_provider_store.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/rbac/rbac_service_config_parser.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_routing.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/cfstream_handle.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/tls/tls_security_connector.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/event_engine_shims/closure.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/windows/windows_engine.cc
* /grpc-1-53-2-gem/data-tar-
gz/src/core/tsi/alts/zero_copy_frame_protector/alts_grpc_privacy_integrity_record_protocol.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/ssl/key_logging/ssl_key_logging.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_routing.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/tcp_client_cfstream.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/health/health_check_client.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/alts/alts_security_connector.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/wakeup_fd_pipe.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/stat.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/service_config/service_config_impl.h
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 /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/certificate_provider_store.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/huffsyms.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/http/message_compress/compression_filter.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/spec/pb/codegen/grpc/testing/package_options_import2.proto
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_common_types.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/transport/secure_endpoint.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/posix_engine_listener.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/endpoint.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/rls/rls.cc

* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/hpack_constants.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/single_set_ptr.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/authorization/grpc_server_authz_filter.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/slice/slice_refcount.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/handshaker/transport_security_common_api.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/fault_injection/fault_injection_filter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/xds/xds_cluster_impl.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/hpack_parser.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/pollset_windows.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/error_cfstream.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/time_util.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/closure.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/tls/grpc_tls_certificate_distributor.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/ev_apple.h
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 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/event_poller.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/fake/fake_security_connector.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/tcp_connect_handshaker.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/tcp_server_windows.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/no_destruct.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/authorization/matchers.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/dynamic_filters.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/tls/tls_utils.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/ev_epoll1_linux.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/manual_constructor.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/dual_ref_counted.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/wakeup_fd_eventfd.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/stream_lists.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/transport/tsi_error.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/fault_injection/fault_injection_service_config_parser.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/frame_protector/alts_unseal_privacy_integrity_crypter.cc
* /grpc-1-53-2-gem/data-tar-
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/alloc.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/error_utils.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/ssl_transport_security_utils.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/slice/b64.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/context_list.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/cfstream_handle.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/socket_mutator.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/construct_destruct.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/timer_generic.cc

* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/xds/xds_attributes.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/default_event_engine_factory.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/tcp_server_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/transport/security_handshaker.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/client_channel_channelz.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/json/json_args.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/http_proxy.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/server_config_selector/server_config_selector_filter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/address_utils/sockaddr_utils.h
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 /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_cluster_specifier_plugin.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channel_stack.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/cpu_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/useful.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/file_watcher_certificate_provider_factory.h
* /grpc-1-53-2-gem/data-tar-
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/sync.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/detail/basic_join.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/exec_ctx.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/race.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/table.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/default_event_engine.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/slice_buffer.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/experiments/config.cc
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/event_engine/memory_allocator.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/seq.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/zero_copy_frame_protector/alts_iovec_record_protocol.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/frame_protector/alts_frame_protector.cc
* /grpc-1-53-2-gem/data-tar-
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/forkable.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/byte_buffer_reader.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/sync_abseil.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/retry_throttle.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/backoff/backoff.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/sync_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resource_quota/arena.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/tls/grpc_tls_certificate_verifier.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/pid_controller.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/call_trace.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_data.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/handshaker_registry.h

* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/debug/stats.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/local_subchannel_pool.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/time_windows.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/cpu_windows.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/tcp_windows.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/timer_heap.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channel_args.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/timeout_encoding.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_endpoint.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resource_quota/thread_quota.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/error_utils.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/tls/grpc_tls_certificate_provider.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/insecure/insecure_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/default_event_engine.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/sync.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_health_status.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/outlier_detection/outlier_detection.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/security_connector.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/channel.cc
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/spec/pb/codegen/grpc/testing/package_options_ruby_style.proto
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/transport/secure_endpoint.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/call_trace.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/json/json_util.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/endpoint_pair_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/metadata_array.cc

* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/stream_map.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/sockaddr_utils_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/alts/alts_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/chunked_vector.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/examine_stack.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/env_linux.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/match.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/authorization/evaluate_args.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/http2_errors.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/alpn/alpn.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/call_log_batch.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/overload.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/ssl/session_cache/ssl_session_cache.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/backend_metrics/backend_metric_provider.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/strerror.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/executor/executor.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/native/dns_resolver.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/strerror.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_transport_grpc.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/google_c2p/google_c2p_resolver.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/hpack_parser_table.h
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/call_creds_util.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/jwt/jwt_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/slice/b64.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/http/parser.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/promise_based_filter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/xds/xds_attributes.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/slice/slice_string_helpers.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/string_windows.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/connector.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/socket_windows.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/promise.h
* /grpc-1-53-2-gem/data-tar-
gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_wrapper_windows.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_cluster.cc
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/metadata_batch.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/xds/xds_resolver.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/fault_injection/fault_injection_service_config_parser.h

* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/call_tracer.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/internal_errqueue.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/xds/xds_cluster_manager.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_http_rbac_filter.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/work_serializer.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/atm.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/internal_errqueue.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/timer_heap.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/http_proxy.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resource_quota/api.cc
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 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/bitset.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/event_engine/internal/memory_allocator_impl.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/bin_decoder.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/slice/slice.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/varint.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/metadata_batch.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/gethostname_sysconf.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/fake/fake_resolver.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/hpack_parser.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/socket_windows.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/handshaker/proxy_mapper_registry.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/alts/alts_credentials.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/event_engine_shims/endpoint.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/jwt/json_token.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/posix_endpoint.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/per_cpu.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/combiner.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/alts/alts_security_connector.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/ev_epoll1_linux.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_lb_policy_registry.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/wakeup_fd_nospecial.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_api.h
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 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/windows/iocp.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/zero_copy_frame_protector/alts_zero_copy_grpc_protector.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/credentials.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/map.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/spinlock.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/lockfree_event.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/varint.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/sync_windows.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channel_stack_builder.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_transport.h

* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/thread_pool.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/handshaker/alts_tsi_utils.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/socket_factory_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/bin_encoder.h
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 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/mpscq.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/wakeup_fd_posix.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/tls/grpc_tls_certificate_verifier.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb_client_stats.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/tchar.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/ssl_types.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/handshaker/alts_tsi_handshaker_private.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_http_fault_filter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channelz.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/channel_stack_type.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_bootstrap.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_common_types.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/trace.cc
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_route_config.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/time_precise.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/alpn/alpn.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channel_stack_builder.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/channelz.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/http2_settings.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/timer_generic.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_rst_stream.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/string.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/config_selector.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/tcp_server_utils_posix_noifaddrs.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/trace.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/transport_op_string.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/stateful_session/stateful_session_filter.cc
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 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/wakeup_fd_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/init.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/authorization/grpc_authorization_engine.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/tls/grpc_tls_credentials_options.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/iomgr_windows.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/oob_backend_metric.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/memory_allocator.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resource_quota/thread_quota.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/avl/avl.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/iam/iam_credentials.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/hpack_encoder.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/polling_resolver.cc
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/grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/http_trace.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/unix_sockets_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/ev_epoll1_linux.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/time_util.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/slice/slice_string_helpers.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/frame_protector/alts_seal_privacy_integrity_crypter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/detail/switch.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/timer_heap.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/wakeup_fd_posix_default.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/lame_client.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/crypt/aes_gcm.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/handshaker/alts_shared_resource.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/slice/slice_buffer.h
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/grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/authorization/grpc_server_authz_filter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/flow_control.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/shim.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/uri/uri_parser.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/util/json_util.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/zero_copy_frame_protector/alts_grpc_record_protocol_common.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/timer.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_client.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/handshaker/alts_tsi_handshaker.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/init.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb_balancer_addresses.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/endpoint_cfstream.h
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/grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/tmpfile.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/resolve_address.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_resource_type.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/surface/lame_client.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_ping.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/dns_resolver_selection.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/cpp_impl_of.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/crash.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_channel_stack_modifier.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/ref_counted_ptr.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/tls/grpc_tls_credentials_options.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/notification.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/address_utils/parse_address.h
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/grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/pollset_set.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/python_util.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/detail/promise_like.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/event_engine.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resource_quota/memory_quota.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/debug/stats.cc

* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/external/aws_external_account_credentials.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/event_engine_shims/tcp_client.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/upb_utils.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/validation_errors.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/poll.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/zero_copy_frame_protector/alts_grpc_record_protocol_common.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/global_subchannel_pool.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/load_file.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/slice.cc
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* /grpc-1-53-2-gem/data-tar-gz/include/grpc/event_engine/memory_request.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/tmpfile_posix.cc
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/global_config_generic.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/security_connector/fake/fake_security_connector.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_http_rbac_filter.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/cpu_linux.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/sorted_pack.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/xds/xds_resolver.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/call_combiner.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resolver/resolver.cc
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/spec/pb/codegen/grpc/testing/package_options.proto
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/validation_errors.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/http2_settings.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/host_port.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/nameser.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/transport/timeout_encoding.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/http/http_filters_plugin.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/fork.cc
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/event_engine/port.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/memory.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/internal_errqueue.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/xds/xds_listener.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/event_engine/posix_engine/traced_buffer_list.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/tcp_client.h

* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resource_quota/memory_quota.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/certificate_provider/certificate_provider_factory.h
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* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/channel/promise_based_filter.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/cpu_iphone.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/handshaker/alts_tsi_utils.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/resource_quota/trace.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/log.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/iomgr/load_file.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/call_creds_util.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/intra_activity_waiter.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/backoff/random_early_detection.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/security/credentials/channel_creds_registry_init.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gpr/log_posix.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/filters/client_channel/subchannel_pool_interface.cc
*
 /grpc-1-53-2-gem/data-tar-gz/src/core/lib/gprpp/orphanable.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/lib/promise/detail/basic_seq.h
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/ssl/session_cache/ssl_session_boringssl.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/stream_map.cc
* /grpc-1-53-2-gem/data-tar-gz/src/core/tsi/alts/frame_protector/alts_counter.cc
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/pcy_lib.c
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*
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/siphash/siphash.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/siphash.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/trust_token/internal.h
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* /grpc-1-53-2-gem/data-tar-gz/third_party/re2/util/mutex.h
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/ecdsa_extra/ecdsa_asn1.c
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*
 /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/rand_extra/passive.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/trust_token/voprf.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/dsa/internal.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/trust_token.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/curve25519/internal.h
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* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/propagation_bits.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/propagation_bits.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/sync.h
*
 /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/connectivity_state.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_grpc_imports.generated.c
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/compression_types.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_grpc_imports.generated.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/connectivity_state.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/grpc_security_constants.h
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/grpc_cronet.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_loader.c
* /grpc-1-53-2-gem/data-tar-gz/include/grpc/impl/codegen/compression_types.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_loader.h
* /grpc-1-53-2-gem/data-tar-gz/src/ruby/ext/grpc/rb_event_thread.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pem/pem_x509.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/decode.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/decode_fast.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/arena.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/decode.h
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 /grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/def.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/arena.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/array.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/upb/upb/def.c
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* (2) University of Haifa, Israel
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* Originally written by Shay Gueron (1, 2), and Vlad Krasnov (1)
* (1) Intel Corporation, Israel Development Center, Haifa, Israel
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* Reference:
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* S.Gueron and V.Krasnov, "Fast Prime Field Elliptic Curve Cryptography with
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/p256-x86_64.h
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gycsc3UJqiZbcw5XKhI5TWBuWxkKENdbMSayogVbp2aSYoRblH764//t0ACmbfTW
KUQRQPB/uwKBgQC5QjjjfPL8w4cJkGoYpFKELO2PMR7xSrmeEc6hwlFwjeNCgjy3
JM6g0y++rIj7O2qRkY0IXFxvvF3UuWedxTCu1xC/uYHp2ti506LsScB7YZoAM/YB
4iYn9Tx6xLoYGP0H0iGwU2SyBlNkHT8oXU+SYP5MWtYkVbeS3/VtNWz1gQKBgQCA
6Nk4kN0mH7YxEKRzSOfyzeDF4oV7kuB2FYUbkTL+TirC3K58JiYY5Egc31trOKFm
Jlz1xz0b6DkmKWTiV3r9OPHKJ8P7IeJxAZWmZzCdDuwkv0i+WW+z0zsIe3JjEavN
3zb6O7R0HtziksWoqMeTqZeO+wa9iw6vVKQw1wWEqwKBgFHfahFs0DZ5cUTpGpBt
F/AQG7ukgipB6N6AkB9kDbgCs1FLgd199MQrEncug5hfpq8QerbyMatmA+GXoGMb
7vztKEH85yzp4n02FNL6H7xL4VVILvyZHdolmiORJ4qT2hZnl8pEQ2TYuF4RlHUd
nSwXX+2o0J/nF85fm4AwWKAc
-----END
PRIVATE KEY-----

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* /grpc-1-53-2-gem/data-tar-gz/third_party/re2/re2/prefilter.h
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* /grpc-1-53-2-gem/data-tar-gz/third_party/re2/util/malloc_counter.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/re2/util/util.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/re2/re2/filtered_re2.cc
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*
 /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bytestring/internal.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rand/urandom.c

* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/chacha.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/ossl_typ.h
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/poly1305.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/poly1305/poly1305_vec.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rand/rand.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/rand.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bytestring/cbb.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/re2/re2/onepass.cc
* /grpc-1-53-2-gem/data-tar-gz/third_party/re2/re2/unicode_casefold.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/re2/re2/mimics_pcre.cc
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/aes.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/aes/aes.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/address_sorting/address_sorting_posix.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/address_sorting/address_sorting_internal.h
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* /grpc-1-53-2-gem/data-tar-gz/third_party/abseil-cpp/absl/time/internal/cctz/src/time_zone_fixed.cc
* /grpc-1-53-2-gem/data-tar-gz/third_party/abseil-cpp/absl/time/internal/cctz/src/time_zone_if.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/abseil-cpp/absl/time/internal/cctz/src/time_zone_posix.h
No license file was found, but licenses were detected in source scan.

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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cmac/cmac.c
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Found in path(s):
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_i2d_fp.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_utctm.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bio/socket.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cipher_extra/derive_key.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/i2d_pr.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/asn1_gen.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/algorithm.c

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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x_req.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/evp.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pem/pem_pk8.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_type.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_ext.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_obj.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bio/bio.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/md5.h
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x_val.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/asn1_lib.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/dh/dh.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_vfy.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/internal.h
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/digest/digests.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/t_crl.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/mem.h
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/evp_errors.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/cast.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_print.c
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 /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x_x509.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/dh/check.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/obj/obj.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x_all.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bn/cmp.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/ssl_privkey.cc
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_d2i_fp.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/buf/buf.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/type_check.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cpu-intel.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/a_verify.c
*
 /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_v3.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rsa/internal.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/digest/internal.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/tasn_enc.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_att.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bn/generic.c
*
 /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_txt.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/curve25519/spake25519.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/re2/re2/re2.h
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H6vPNOw/KP4M8VeGTslV9xzU2KV9Bnpv1d8Q34FOIWWxtuEXeZVFBs5fzNxGiWNo
4vkYxboznxSjBF25cfe1lNj2M8FawTSLfJvdkzrnE6JwYZ+vj+vYxXX4M2bUdGc6
BGIBnfHAT+7hOtSLIBD6Alfm78ELt5BGnBkpjNxvoEppaZS3JGWg/6w/zgH7IS79

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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/simple.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/ec_key.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/pcy_data.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/pcy_map.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/internal.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/pcy_tree.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/encrypted_client_hello.cc
*
 /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ecdsa/internal.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/x509_vfy.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/blake2/blake2.c
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* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/util.c
*
 /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_pthread.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_win.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/dtls1.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_none.c

* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/cmac.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bn_extra/bn_asn1.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/refcount_lock.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/srtp.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/refcount_c11.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/ssl_aead_ctx.cc
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/buffer.h
*
/grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/ssl_buffer.cc
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/err_data.c
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/curve25519.h
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/ssl_key_share.cc
* /grpc-1-53-2-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rand/internal.h

1.369 avahi 0.8

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1.370 minicom 2.8

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

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1.371 tomcat-connectors 1.2.40

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  SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('mod_jk.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
```

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

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

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

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
```

```
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

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

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
  SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +

  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT' 'USE_SO_RCVTIMEO' +
       'USE_SO_SNDTIMEO' ) +
  TEXT('jk_connect.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
  SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_context.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
```

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

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
  SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_lb_worker.c') +

  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

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

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF)
 +
  SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_msg_buff.c') +
```

```
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

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

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

CRTCMOD MODULE(MOD_JK/JK_URL) +
  SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_url.c') +
```

```
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALE) +
   SYSIFCOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
   TGTRLS(*CURRENT) +
   INCDIR('/home/apache/jk/native/common'
  '/QIBM/ProdData/HTTPA/Include')

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

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

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

 CRTCMOD MODULE(MOD_JK/JK_SHM) +
   SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
   DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
```

```
        'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_shm.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
    MODULE(MOD_JK/MOD_JK +
          MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
          MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
          MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
          MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
          MOD_JK/JK_LB_WORK +
          MOD_JK/JK_MAP MOD_JK/JK_MD5
 +
          MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
          MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
          MOD_JK/JK_URL +
          MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
          MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
    EXPORT(*SRCFILE) +
    BNDDIR() +
    TGTRLS(*CURRENT) +
    SRCFILE(MOD_JK/QSRVSRC) +
    SRCMBR(MOD_JK) +
    USRPRF(*USER) +
    BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
            QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
    TEXT('Apache Tomcat mod_jk connector module')

ENDPGM
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```

```
!IFDEF APACHE20_HOME
APR_LIB=libapr.lib
APU_LIB=libaprutil.lib
OUTDIR=.\Release20
INTDIR=.\Release20
APACHE2_HOME=$(APACHE20_HOME)
!ELSE
!IFDEF APACHE24_HOME
APACHE2_HOME=$(APACHE24_HOME)
OUTDIR=.\Release24
INTDIR=.\Release24
!ELSE
!IFDEF
 APACHE22_HOME
APACHE2_HOME=$(APACHE22_HOME)
OUTDIR=.\Release22
INTDIR=.\Release22
!ENDIF
!ENDIF
APR_LIB=libapr-1.lib
APU_LIB=libaprutil-1.lib
!ENDIF
!IFNDEF APACHE2_HOME
!ERROR Missing APACHE2_HOME environment variable.
!ENDIF

TARGET=mod_jk$(SO_VERSION)$(SO_HTTPD_VERSION)
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe
ARCH=X86

ALL : "$(OUTDIR)\$(TARGET).so"


CLEAN :
 -@erase "$(INTDIR)\jk.res"
 -@erase "$(INTDIR)\jk_ajp12_worker.obj"
 -@erase "$(INTDIR)\jk_ajp13.obj"
 -@erase "$(INTDIR)\jk_ajp13_worker.obj"
 -@erase "$(INTDIR)\jk_ajp14.obj"
 -@erase "$(INTDIR)\jk_ajp14_worker.obj"
 -@erase "$(INTDIR)\jk_ajp_common.obj"
 -@erase "$(INTDIR)\jk_connect.obj"
 -@erase "$(INTDIR)\jk_context.obj"
 -@erase "$(INTDIR)\jk_lb_worker.obj"
 -@erase "$(INTDIR)\jk_map.obj"
```

```
 -@erase "$(INTDIR)\jk_md5.obj"
 -@erase "$(INTDIR)\jk_msg_buff.obj"
 -@erase "$(INTDIR)\jk_pool.obj"
 -@erase "$(INTDIR)\jk_shm.obj"
 -@erase "$(INTDIR)\jk_sockbuf.obj"
 -@erase "$(INTDIR)\jk_status.obj"
 -@erase "$(INTDIR)\jk_uri_worker_map.obj"
 -@erase
 "$(INTDIR)\jk_url.obj"
 -@erase "$(INTDIR)\jk_util.obj"
 -@erase "$(INTDIR)\jk_worker.obj"
 -@erase "$(INTDIR)\mod_jk.obj"
 -@erase "$(INTDIR)\mod_jk_src.idb"
 -@erase "$(INTDIR)\mod_jk_src.pdb"
 -@erase "$(OUTDIR)\mod_jk.exp"
 -@erase "$(OUTDIR)\mod_jk.lib"
 -@erase "$(OUTDIR)\$(TARGET).pdb"
 -@erase "$(OUTDIR)\$(TARGET).so"

"$(OUTDIR)" :
   if not exist "$(OUTDIR)/$(NULL)" mkdir "$(OUTDIR)"

BSC32=bscmake.exe
BSC32_FLAGS=/nologo /o"$(OUTDIR)\$(TARGET).bsc"
BSC32_SBRS= \

LINK32=link.exe
LINK32_FLAGS=libhttpd.lib $(APR_LIB) $(APU_LIB) kernel32.lib user32.lib advapi32.lib mswsock.lib
ws2_32.lib $(EXTRA_LIBS) /nologo /base:"0x6A6B0000" /subsystem:windows /dll /incremental:no
/pdb:"$(OUTDIR)\$(TARGET).pdb" /debug /machine:$(ARCH) /out:"$(OUTDIR)\$(TARGET).so"
/implib:"$(OUTDIR)\mod_jk.lib" /libpath:"$(APACHE2_HOME)\lib" /opt:ref
LINK32_OBJS= \
 "$(INTDIR)\jk_ajp12_worker.obj" \
 "$(INTDIR)\jk_ajp13.obj" \
 "$(INTDIR)\jk_ajp13_worker.obj" \
 "$(INTDIR)\jk_ajp14.obj"
 \
 "$(INTDIR)\jk_ajp14_worker.obj" \
 "$(INTDIR)\jk_ajp_common.obj" \
 "$(INTDIR)\jk_connect.obj" \
 "$(INTDIR)\jk_context.obj" \
 "$(INTDIR)\jk_lb_worker.obj" \
 "$(INTDIR)\jk_map.obj" \
 "$(INTDIR)\jk_md5.obj" \
 "$(INTDIR)\jk_msg_buff.obj" \
 "$(INTDIR)\jk_pool.obj" \
 "$(INTDIR)\jk_shm.obj" \
 "$(INTDIR)\jk_sockbuf.obj" \
```

```
 "$(INTDIR)\jk_status.obj" \
 "$(INTDIR)\jk_uri_worker_map.obj" \
 "$(INTDIR)\jk_url.obj" \
 "$(INTDIR)\jk_util.obj" \
 "$(INTDIR)\jk_worker.obj" \
 "$(INTDIR)\jk.res" \
 "$(INTDIR)\mod_jk.obj"

"$(OUTDIR)\$(TARGET).so" : "$(OUTDIR)" $(DEF_FILE) $(LINK32_OBJS)
   $(LINK32) @<<
 $(LINK32_FLAGS) $(LINK32_OBJS)
<<
 @IF EXIST $(OUTDIR)\$(TARGET).manifest \
  mt -nologo -manifest $(OUTDIR)\$(TARGET).manifest -outputresource:$(OUTDIR)\$(TARGET).so;2


CPP_PROJ=-nologo -MD -W3 -O2 -Ob2 -Oy- -Zi -EHsc /I "..\common" /I "$(APACHE2_HOME)\include" /D
"NDEBUG" /D "WIN32" /D "_WINDOWS" $(CFLAGS) /Fo"$(INTDIR)\\" /Fd"$(INTDIR)\mod_jk_src" /FD /c

.c{$(INTDIR)}.obj::
   $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.c{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<
```

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

SOURCE=..\common\jk.rc

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


SOURCE=..\common\jk_ajp12_worker.c

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


SOURCE=..\common\jk_ajp13.c

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


SOURCE=..\common\jk_ajp13_worker.c

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


SOURCE=..\common\jk_ajp14.c

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


SOURCE=..\common\jk_ajp14_worker.c

"$(INTDIR)\jk_ajp14_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp_common.c

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


SOURCE=..\common\jk_connect.c
```

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


SOURCE=..\common\jk_context.c

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


SOURCE=..\common\jk_lb_worker.c

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


SOURCE=..\common\jk_map.c

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


SOURCE=..\common\jk_md5.c

"$(INTDIR)\jk_md5.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_msg_buff.c

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


SOURCE=..\common\jk_pool.c

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


SOURCE=..\common\jk_shm.c

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

```
SOURCE=..\common\jk_sockbuf.c

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


SOURCE=..\common\jk_status.c

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


SOURCE=..\common\jk_uri_worker_map.c

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


SOURCE=..\common\jk_url.c

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


SOURCE=..\common\jk_util.c

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


SOURCE=..\common\jk_worker.c

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


SOURCE=.\mod_jk.c

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

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Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,
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From native/common/ap_snprintf.c:

```
*
* cvt - IEEE floating point formatting routines.
*       Derived from UNIX V7, Copyright(C) Caldera International Inc.
*
```

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#

#
NetWare Makefile for mod_jk (uses build system of Apache 2.x - gnu make)
created by Guenter Knauf <fuankg@apache.org>
#

#
Declare the sub-directories to be built here
#

```
SUBDIRS = \
 $(EOLIST)

#
# Get the
 'head' of the build environment.  This includes default targets and
# paths to tools
#

include $(AP_WORK)/build/NWGNUhead.inc

#
# build this level's files

#
# Make sure all needed macro's are defined
#

JKCOMMON = ../common

#
# These directories will be at the beginning of the include list, followed by
# INCDIRS
#
XINCDIRS += \
   $(JKCOMMON) \
   $(APR)/include \
   $(APRUTIL)/include \
   $(AP_WORK)/include \
   $(NWOS) \
   $(EOLIST)

#
# These flags will come after CFLAGS
#
XCFLAGS  += \
   $(EOLIST)

#
# These defines will come after DEFINES
#
XDEFINES += \
   -D__NOVELL_LIBC__ \
   -D_POSIX_SOURCE \
   $(EOLIST)

#
# These flags will be added to the link.opt file
```

```
#
XLFLAGS  += \
  $(EOLIST)

#
# These values will be appended to the correct variables based on the value of
# RELEASE
#
ifeq "$(RELEASE)" "debug"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

ifeq "$(RELEASE)" "noopt"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  +=
 \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

ifeq "$(RELEASE)" "release"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
```

```
  $(EOLIST)
endif

#
# These are used by the link target if an NLM is being generated
# This is used by the link 'name' directive to name the nlm.  If left blank
# TARGET_nlm (see below) will be used.
#
NLM_NAME = mod_jk

#
# This is used by the link '-desc ' directive.
# If left blank, NLM_NAME will be used.
#
NLM_DESCRIPTION = Apache $(VERSION_STR) plugin for Tomcat $(JK_VERSION_STR)

#
# This is used by the link '-copy ' directive.
# If left blank, the ASF copyright defined in NWGNUtail.inc will be used.
#
NLM_COPYRIGHT =

#
# This is used by the '-threadname' directive.  If left blank,
# NLM_NAME Thread will be used.
#
NLM_THREAD_NAME = JK Module

#
# If this is specified, it will override VERSION value in
# $(AP_WORK)\build\NWGNUenvironment.inc
#
NLM_VERSION = $(JK_VERSION)

#
#
 If this is specified, it will override the default of 64K
#
NLM_STACK_SIZE = 49152


#
# If this is specified it will be used by the link '-entry' directive
#
NLM_ENTRY_SYM = _LibCPrelude

#
# If this is specified it will be used by the link '-exit' directive
```

```
#
NLM_EXIT_SYM = _LibCPostlude

#
# If this is specified it will be used by the link '-check' directive
#
NLM_CHECK_SYM =

#
# If these are specified it will be used by the link '-flags' directive
#
NLM_FLAGS = AUTOUNLOAD, PSEUDOPREEMPTION

#
# If this is specified it will be linked in with the XDCData option in the def
# file instead of the default of $(NWOS)/apache.xdc.  XDCData can be disabled
# by setting APACHE_UNIPROC in the environment
#
XDCDATA  =

#
# If there is an NLM target, put it here
#
TARGET_nlm = \
 $(OBJDIR)/$(NLM_NAME).nlm \
 $(EOLIST)

#
# If there is an LIB target, put it here
#
TARGET_lib = \
 $(EOLIST)

#
# These are the OBJ files needed to create the NLM target above.
# Paths must all use the
 '/' character
#
FILES_nlm_objs = \
 $(OBJDIR)/jk_nwmain.o \
 $(OBJDIR)/jk_ajp12_worker.o \
 $(OBJDIR)/jk_ajp13.o \
 $(OBJDIR)/jk_ajp13_worker.o \
 $(OBJDIR)/jk_ajp14.o \
 $(OBJDIR)/jk_ajp14_worker.o \
 $(OBJDIR)/jk_ajp_common.o \
 $(OBJDIR)/jk_connect.o \
 $(OBJDIR)/jk_context.o \
```

```
 $(OBJDIR)/jk_lb_worker.o \
 $(OBJDIR)/jk_map.o \
 $(OBJDIR)/jk_md5.o \
 $(OBJDIR)/jk_msg_buff.o \
 $(OBJDIR)/jk_pool.o \
 $(OBJDIR)/jk_shm.o \
 $(OBJDIR)/jk_sockbuf.o \
 $(OBJDIR)/jk_status.o \
 $(OBJDIR)/jk_uri_worker_map.o \
 $(OBJDIR)/jk_url.o \
 $(OBJDIR)/jk_util.o \
 $(OBJDIR)/jk_worker.o \
 $(OBJDIR)/mod_jk.o \
 $(EOLIST)

#
# These are the LIB files needed to create the NLM target above.
# These will be added as a library command in the link.opt file.
#
FILES_nlm_libs = \
 $(NOVELLLIBC)/imports/libcpre.o \
 $(EOLIST)

#
# These are the modules that the above NLM target depends on to load.
# These will be added as a module command in the link.opt file.
#
FILES_nlm_modules = \
 aprlib \
 libc \
 $(EOLIST)

#
#
 If the nlm has a msg file, put it's path here
#
FILE_nlm_msg =

#
# If the nlm has a hlp file put it's path here
#
FILE_nlm_hlp =

#
# If this is specified, it will override $(NWOS)\copyright.txt.
#
FILE_nlm_copyright =
```

```
#
# Any additional imports go here
#
FILES_nlm_Ximports = \
 @aprlib.imp \
 @httpd.imp \
 @libc.imp \
 @ws2nlm.imp \
 $(EOLIST)

#
# Any symbols exported to here
#
FILES_nlm_exports = \
 jk_module \
 $(EOLIST)

#
# These are the OBJ files needed to create the LIB target above.
# Paths must all use the '/' character
#
FILES_lib_objs = \
 $(EOLIST)

#
# implement targets and dependancies (leave this section alone)
#

libs :: $(OBJDIR) $(TARGET_lib)

nlms :: libs $(TARGET_nlm)

#
# Updated this target to create necessary directories and copy files to the
# correct place.  (See $(AP_WORK)\build\NWGNUhead.inc for examples)
#
install :: nlms FORCE
 copy $(OBJDIR)\*.nlm $(INSTALL)\Apache2\modules\*.*

#
# Any specialized rules here
#

vpath %.c $(JKCOMMON)

$(OBJDIR)/version.inc:
 $(JKCOMMON)/jk_version.h $(OBJDIR)
 @echo Creating $@
```

```
 @awk -f ../../support/get_ver.awk $< > $@


#
# Include the version info retrieved from jk_version.h
#

-include $(OBJDIR)/version.inc

#
# Include the 'tail' makefile that has targets that depend on variables defined
# in this makefile
#

include $(AP_WORK)/build/NWGNUtail.inc
```

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

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
```

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

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

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

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5'
 '_REENTRANT') +
  TEXT('jk_ajp13_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
```

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

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

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

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

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
  SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
```

```
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_context.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED)
 +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

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

CRTCMOD
 MODULE(MOD_JK/JK_MD5) +
  SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_md5.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
```

```
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

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

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

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
  SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT')
 +
  TEXT('jk_uri_worker_map.c') +
```

```
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
  SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_util.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +

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

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

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

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

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
    MODULE(MOD_JK/MOD_JK +
         MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
         MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
         MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
         MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
         MOD_JK/JK_LB_WORK +
         MOD_JK/JK_MAP MOD_JK/JK_MD5 +
         MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
         MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
         MOD_JK/JK_URL +
         MOD_JK/JK_UTIL MOD_JK/JK_WORKER +

   MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
    EXPORT(*SRCFILE) +
    BNDDIR() +
    TGTRLS(*CURRENT) +
    SRCFILE(MOD_JK/QSRVSRC) +
    SRCMBR(MOD_JK) +
    USRPRF(*USER) +
    BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
```

QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
TEXT('Apache Tomcat mod_jk connector module')

ENDPGM

1.372 cpp 11.4.0

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

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
==========

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Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
02110-1301, USA. */

#ifndef __VTV_H__
#define __VTV_H__

```
/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
/* Definitions for BSD assembler syntax for Intel 386
  (actually AT&T syntax for insns and operands,
  adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>.  */
```

```
/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
```

```
#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
```

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Version 3, 29 June 2007

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Because of this blurred distinction, using the ordinary General
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1.378 nfs-utils 2.6.1

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1.379 libarchive 3.6.2

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1.380 dhcpcd 9.4.1

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1.381 libunwind 1.8.1

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1.382 cmake 3.22.3

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CMAKE_INSTALL_DATAROOTDIR='share'
CMAKE_INSTALL_DOCDIR='share/doc/UsrLocal'
CMAKE_INSTALL_INCLUDEDIR='include'
CMAKE_INSTALL_INFODIR='info'
CMAKE_INSTALL_LIBDIR='(lib|lib64)'
CMAKE_INSTALL_LIBEXECDIR='libexec'
CMAKE_INSTALL_LOCALEDIR='share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='man'
CMAKE_INSTALL_SBINDIR='sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/usr/local/bin'
CMAKE_INSTALL_FULL_DATADIR='/usr/local/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/local/share'
CMAKE_INSTALL_FULL_DOCDIR='/usr/local/share/doc/UsrLocal'
CMAKE_INSTALL_FULL_INCLUDEDIR='/usr/local/include'
CMAKE_INSTALL_FULL_INFODIR='/usr/local/info'
CMAKE_INSTALL_FULL_LIBDIR='/usr/local/(lib|lib64)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/usr/local/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/usr/local/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='/usr/local/var'
CMAKE_INSTALL_FULL_RUNSTATEDIR='/usr/local/var/run'
CMAKE_INSTALL_FULL_MANDIR='/usr/local/man'
CMAKE_INSTALL_FULL_SBINDIR='/usr/local/sbin'
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CMAKE_INSTALL_LOCALEDIR='share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='man'
CMAKE_INSTALL_SBINDIR='sbin'
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CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/usr/bin'
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CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/share'
CMAKE_INSTALL_FULL_DOCDIR='/usr/share/doc/Usr'
CMAKE_INSTALL_FULL_INCLUDEDIR='/usr/include'
CMAKE_INSTALL_FULL_INFODIR='/usr/info'
CMAKE_INSTALL_FULL_LIBDIR='/usr/(lib|lib64|lib/arch)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/usr/libexec'
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merhaba dnya

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CMAKE_INSTALL_DATADIR='share'
CMAKE_INSTALL_DATAROOTDIR='share'
CMAKE_INSTALL_DOCDIR='share/doc/Opt'
CMAKE_INSTALL_INCLUDEDIR='include'
CMAKE_INSTALL_INFODIR='info'
CMAKE_INSTALL_LIBDIR='(lib|lib64)'
CMAKE_INSTALL_LIBEXECDIR='libexec'
CMAKE_INSTALL_LOCALEDIR='share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='man'
CMAKE_INSTALL_SBINDIR='sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/opt/Opt/bin'
CMAKE_INSTALL_FULL_DATADIR='/opt/Opt/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/opt/Opt/share'
CMAKE_INSTALL_FULL_DOCDIR='/opt/Opt/share/doc/Opt'
CMAKE_INSTALL_FULL_INCLUDEDIR='/opt/Opt/include'
CMAKE_INSTALL_FULL_INFODIR='/opt/Opt/info'
CMAKE_INSTALL_FULL_LIBDIR='/opt/Opt/(lib|lib64)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/opt/Opt/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/opt/Opt/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='/var/opt/Opt'
CMAKE_INSTALL_FULL_RUNSTATEDIR='/var/run/opt/Opt'
CMAKE_INSTALL_FULL_MANDIR='/opt/Opt/man'
CMAKE_INSTALL_FULL_SBINDIR='/opt/Opt/sbin'
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==========

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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*/

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS                                   \
 uv__io_t event_watcher;                                              \

#define UV_IO_PRIVATE_PLATFORM_FIELDS                                 \
 int rcount;                                                          \
 int wcount;                                                          \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
```

```
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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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        madler@alumni.caltech.edu
^CMake Deprecation Warning at.*/Tests/RunCMake/message/message-all-loglevels\.cmake:2 \(message\):
 Deprecation warning
+
CMake Warning \(dev\) at.*/Tests/RunCMake/message/message-all-loglevels\.cmake:3 \(message\):
 Author warning message
This warning is for project developers\. Use -Wno-dev to suppress it\.
+
CMake Warning at.*/Tests/RunCMake/message/message-all-loglevels\.cmake:4 \(message\):
 Warning message
+
Default NOTICE message
NOTICE message$
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CMAKE_INSTALL_DATADIR='usr/share'
CMAKE_INSTALL_DATAROOTDIR='usr/share'
CMAKE_INSTALL_DOCDIR='usr/share/doc/Root'
CMAKE_INSTALL_INCLUDEDIR='usr/include'
CMAKE_INSTALL_INFODIR='usr/info'
CMAKE_INSTALL_LIBDIR='usr/(lib|lib64)'
CMAKE_INSTALL_LIBEXECDIR='usr/libexec'
CMAKE_INSTALL_LOCALEDIR='usr/share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='usr/man'
CMAKE_INSTALL_SBINDIR='usr/sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='usr/com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/usr/bin'
CMAKE_INSTALL_FULL_DATADIR='/usr/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/share'
CMAKE_INSTALL_FULL_DOCDIR='/usr/share/doc/Root'
CMAKE_INSTALL_FULL_INCLUDEDIR='/usr/include'
CMAKE_INSTALL_FULL_INFODIR='/usr/info'
CMAKE_INSTALL_FULL_LIBDIR='/usr/(lib|lib64)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/usr/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/usr/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='/var'
CMAKE_INSTALL_FULL_RUNSTATEDIR='/var/run'
CMAKE_INSTALL_FULL_MANDIR='/usr/man'
CMAKE_INSTALL_FULL_SBINDIR='/usr/sbin'
CMAKE_INSTALL_FULL_SHAREDSTATEDIR='/usr/com'
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 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

1.386 zeromq 4.3.4

1.386.1 Available under license :

wepoll - epoll for Windows
https://github.com/piscisaureus/wepoll

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1.389 at 3.2.5

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uganda.txt For Vim version 9.1. Last change: 2022 Mar 02

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below or visit the ICCF web site, available at these URLs:

https://iccf-holland.org/
https://www.vim.org/iccf/
https://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
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Note:

- If you are happy with Vim, please express that by reading the rest of this
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- If you want to support further Vim development consider becoming a
|sponsor|. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
A few minor changes have been made since he checked it, but that should not
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MODIFIED_BY define.

==========

Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there usually is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that in the past 10 to 30% of the Ugandans
are infected with HIV. Because
parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. Although AIDS is now mostly under control, the problems are still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them
how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production
site for cement slabs. These are used to build a good latrine.
They are sold below cost price.

There is a clinic at the project, which provides children and their family medical help. Since 2020 a maternity ward was added and 24/7 service is available. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

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

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

Sending money: *iccf-donations*

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

USA: The methods mentioned below can be used.

If you must send a check send it to our Canadian partner:
https://www.kuwasha.net/

Canada: Contact Kuwasha in Surrey, Canada. They take care of the
Canadian sponsors for the children in Kibaale. Kuwasha
forwards 100% of the money to the project in Uganda. You can
send them a one time donation directly.
Please send me a note so that I know what has been donated
because of Vim. Look on their site for information about
sponsorship: https://www.kuwasha.net/
If you make a donation to Kuwasha you will receive a tax
receipt which can be submitted with your tax return.

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

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

Europe: Use a bank transfer if possible. See "Others" below for the
swift code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

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The e-mail address for sending the money to is:
Bram@iccf-holland.org

Others: Transfer to this account if possible:
ING bank: IBAN: NL95 INGB 0004 5487 74
Swift code: INGBNL2A
under the name "stichting ICCF Holland", Amersfoort
Checks are
not accepted.

vim:tw=78:ts=8:noet:ft=help:norl:

1.397 xmlsec 1.2.33

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xmlsec-nss library

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* Cryptocom LTD
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1.398 gnutls 3.7.4

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That's all there is to it!

```
/*  Extract the last component (base name) of a file name.

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
 If FILENAME has some trailing slash(es), they are considered to be
 part of the last component.
 If FILENAME has no relative file name components because it is a file
 system root, return the empty string.
 Examples:
        FILENAME      RESULT
        "foo.c"       "foo.c"
        "foo/bar.c"   "bar.c"
        "/foo/bar.c"  "bar.c"
        "foo/bar/"    "bar/"
        "foo/bar//"   "bar//"
        "/"           ""
        "//"          ""
        ""            ""
```

```
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:
            FILENAME
      RESULT
            "foo/bar/"    ""
            "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
            FILENAME      RESULT
            "foo/bar/"    "bar"
            "foo/bar//"   "bar"
            "/"           "/"
            "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
```

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==========

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==========

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##
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*/
#include <net-snmp/system/generic.h>

/*
* the bsd route symbol adds an 's' at the end to this symbol name
*/
#undef RTTABLES_SYMBOL
#define RTTABLES_SYMBOL "rt_tables"

/*
* BSD systems use a different method of looking up sockaddr_in values
```

*/
#define NEED_KLGETSA 1

#define UTMP_HAS_NO_TYPE 1
#define UTMP_HAS_NO_PID 1

1.401 memcached 1.6.15

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A list is generated from git here: https://memcached.org/about

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Steven Grimm <sgrimm@facebook.com> -- iov writing (less CPU), UDP mode,
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    void (*supply_uthread) (struct regcache *,
          int, CORE_ADDR));


/* Set the function that collects registers for an inactive thread for
  architecture GDBARCH to SUPPLY_UTHREAD.  */

extern void bsd_uthread_set_collect_uthread (struct gdbarch *gdbarch,
        void (*collect_uthread) (const struct regcache *,
           int, CORE_ADDR));

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```
#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions.  See definitions.  */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
        int regnum);
extern
 void i386bsd_store_inferior_registers (struct regcache *regcache,
        int regnum);

/* A prototype *BSD/i386 target.  */
```

```
template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { i386bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { i386bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
```

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presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

@item Source Code.

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

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

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#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions.  See definitions.  */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
          int regnum);
extern
 void amd64bsd_store_inferior_registers (struct regcache *regcache,
          int regnum);

/* A prototype *BSD/AMD64 target.  */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
/*  Extract the last component (base name) of a file name.

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
   function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:
          FILENAME
      RESULT
          "foo/bar/"    ""
```

```
           "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
           FILENAME      RESULT
           "foo/bar/"    "bar"
           "foo/bar//"   "bar"
           "/"           "/"
           "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



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

#endif /* _BASENAME_LGPL_H */
/* BSD Kernel Data Access Library (libkvm) interface.

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#ifndef BSD_KVM_H
#define BSD_KVM_H

struct pcb;
struct regcache;

/* Add the libkvm interface to the list of all possible targets and
```

```
  register CUPPLY_PCB as the architecture-specific process control
  block
 interpreter.  */

extern void
 bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *));

#endif /* bsd-kvm.h */
/* Native-dependent code for x86 BSD's.

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  along with this program.  If not, see <http://www.gnu.org/licenses/>.  */

#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info.  */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target.  */

template<typename BaseTarget>
class x86bsd_nat_target
 : public x86_nat_target<BaseTarget>
{
 using base_class = x86_nat_target<BaseTarget>;
public:
#ifdef HAVE_PT_GETDBREGS
 void mourn_inferior () override
 {
   x86_cleanup_dregs ();
   base_class::mourn_inferior ();
```

```
 }
#endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */
/* Target-dependent code for HP PA-RISC BSD's.

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#ifndef HPPA_BSD_TDEP_H
#define HPPA_BSD_TDEP_H

extern void hppabsd_init_abi (struct gdbarch_info, struct gdbarch *);

#endif /* hppa-bsd-tdep.h */
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```
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  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
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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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Version 3, 29 June 2007

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1. Source Code.

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

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

is widely used among developers working in that language.

The
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"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
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produce the work, or an object code interpreter used to run it.

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the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
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available free
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```
#ifndef ALPHA_BSD_TDEP_H
#define ALPHA_BSD_TDEP_H

#include "gdbarch.h"

struct regcache;

void alphabsd_supply_reg (struct regcache *, const char *, int);
void alphabsd_fill_reg (const struct regcache *, char *, int);

void
 alphabsd_supply_fpreg (struct regcache *, const char *, int);
void alphabsd_fill_fpreg (const struct regcache *, char *, int);


/* Functions exported from alpha-netbsd-tdep.c. */

/* Iterate over supported core file register note sections. */
void alphanbsd_iterate_over_regset_sections (struct gdbarch *gdbarch,
        iterate_over_regset_sections_cb *cb,
        void *cb_data,
```

```
        const struct regcache *regcache);

#endif /* alpha-bsd-tdep.h */
```

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Version 3, 29 June 2007

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1.404 stunnel 5.65

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  02110-1301, USA.  */


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#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
```

```
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



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

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this

function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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

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

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This option is useful when you wish to copy part of the code of
the
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a

medium customarily used for software interchange.

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

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

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

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

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

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

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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.

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END OF TERMS AND CONDITIONS

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

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

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

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available free
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

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(This file is under construction.) -*- text -*-

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

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

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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1.416 node.js 16.20.2

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```
{
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    'openssl/apps/s_socket.c',
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},
'defines': ['<@(openssl_defines_BSD-x86)'],
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'sources': ['<@(openssl_cli_srcs_BSD-x86)'],
}
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```
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*/

#ifndef OSSL_CRYPTO_BN_CONF_H
# define OSSL_CRYPTO_BN_CONF_H

/*
* The contents of this file are not used in the UEFI build, as
* both 32-bit and 64-bit builds are supported from a single run
* of the Configure script.
*/

/* Should we define BN_DIV2W here? */

/* Only one for the following should be defined */
#undef SIXTY_FOUR_BIT_LONG
#undef SIXTY_FOUR_BIT
#define THIRTY_TWO_BIT

#endif
```

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*/

typedef enum FUNC_TYPE {
  FT_none, FT_general, FT_md, FT_cipher, FT_pkey,
  FT_md_alg, FT_cipher_alg
} FUNC_TYPE;

typedef struct function_st {
  FUNC_TYPE type;
  const char *name;
```

```
  int (*func)(int argc, char *argv[]);
  const OPTIONS *help;
} FUNCTION;

DEFINE_LHASH_OF(FUNCTION);

extern int asn1parse_main(int argc, char *argv[]);
extern int ca_main(int argc, char *argv[]);
extern int ciphers_main(int argc, char *argv[]);
extern int cms_main(int argc, char *argv[]);
extern int crl_main(int argc, char *argv[]);
extern int crl2pkcs7_main(int argc, char *argv[]);
extern int dgst_main(int argc,
 char *argv[]);
extern int dhparam_main(int argc, char *argv[]);
extern int dsa_main(int argc, char *argv[]);
extern int dsaparam_main(int argc, char *argv[]);
extern int ec_main(int argc, char *argv[]);
extern int ecparam_main(int argc, char *argv[]);
extern int enc_main(int argc, char *argv[]);
extern int engine_main(int argc, char *argv[]);
extern int errstr_main(int argc, char *argv[]);
extern int gendsa_main(int argc, char *argv[]);
extern int genpkey_main(int argc, char *argv[]);
extern int genrsa_main(int argc, char *argv[]);
extern int help_main(int argc, char *argv[]);
extern int list_main(int argc, char *argv[]);
extern int nseq_main(int argc, char *argv[]);
extern int ocsp_main(int argc, char *argv[]);
extern int passwd_main(int argc, char *argv[]);
extern int pkcs12_main(int argc, char *argv[]);
extern int pkcs7_main(int argc, char *argv[]);
extern int pkcs8_main(int argc, char *argv[]);
extern int pkey_main(int argc, char *argv[]);
extern int pkeyparam_main(int argc, char
 *argv[]);
extern int pkeyutl_main(int argc, char *argv[]);
extern int prime_main(int argc, char *argv[]);
extern int rand_main(int argc, char *argv[]);
extern int rehash_main(int argc, char *argv[]);
extern int req_main(int argc, char *argv[]);
extern int rsa_main(int argc, char *argv[]);
extern int rsautl_main(int argc, char *argv[]);
extern int s_client_main(int argc, char *argv[]);
extern int s_server_main(int argc, char *argv[]);
extern int s_time_main(int argc, char *argv[]);
extern int sess_id_main(int argc, char *argv[]);
extern int smime_main(int argc, char *argv[]);
```

```
extern int speed_main(int argc, char *argv[]);
extern int spkac_main(int argc, char *argv[]);
extern int srp_main(int argc, char *argv[]);
extern int storeutl_main(int argc, char *argv[]);
extern int ts_main(int argc, char *argv[]);
extern int verify_main(int argc, char *argv[]);
extern int version_main(int argc, char *argv[]);
extern int x509_main(int argc, char *argv[]);

extern const OPTIONS asn1parse_options[];
extern
 const OPTIONS ca_options[];
extern const OPTIONS ciphers_options[];
extern const OPTIONS cms_options[];
extern const OPTIONS crl_options[];
extern const OPTIONS crl2pkcs7_options[];
extern const OPTIONS dgst_options[];
extern const OPTIONS dhparam_options[];
extern const OPTIONS dsa_options[];
extern const OPTIONS dsaparam_options[];
extern const OPTIONS ec_options[];
extern const OPTIONS ecparam_options[];
extern const OPTIONS enc_options[];
extern const OPTIONS engine_options[];
extern const OPTIONS errstr_options[];
extern const OPTIONS gendsa_options[];
extern const OPTIONS genpkey_options[];
extern const OPTIONS genrsa_options[];
extern const OPTIONS help_options[];
extern const OPTIONS list_options[];
extern const OPTIONS nseq_options[];
extern const OPTIONS ocsp_options[];
extern const OPTIONS passwd_options[];
extern const OPTIONS pkcs12_options[];
extern const OPTIONS pkcs7_options[];
extern const OPTIONS pkcs8_options[];
extern const OPTIONS pkey_options[];
extern
 const OPTIONS pkeyparam_options[];
extern const OPTIONS pkeyutl_options[];
extern const OPTIONS prime_options[];
extern const OPTIONS rand_options[];
extern const OPTIONS rehash_options[];
extern const OPTIONS req_options[];
extern const OPTIONS rsa_options[];
extern const OPTIONS rsautl_options[];
extern const OPTIONS s_client_options[];
extern const OPTIONS s_server_options[];
```

```
extern const OPTIONS s_time_options[];
extern const OPTIONS sess_id_options[];
extern const OPTIONS smime_options[];
extern const OPTIONS speed_options[];
extern const OPTIONS spkac_options[];
extern const OPTIONS srp_options[];
extern const OPTIONS storeutl_options[];
extern const OPTIONS ts_options[];
extern const OPTIONS verify_options[];
extern const OPTIONS version_options[];
extern const OPTIONS x509_options[];

#ifdef INCLUDE_FUNCTION_TABLE
static FUNCTION functions[] = {
  {FT_general, "asn1parse", asn1parse_main, asn1parse_options},
  {FT_general, "ca", ca_main, ca_options},
#ifndef OPENSSL_NO_SOCK
   {FT_general, "ciphers", ciphers_main, ciphers_options},
#endif
#ifndef OPENSSL_NO_CMS
  {FT_general, "cms", cms_main, cms_options},
#endif
  {FT_general, "crl", crl_main, crl_options},
  {FT_general, "crl2pkcs7", crl2pkcs7_main, crl2pkcs7_options},
  {FT_general, "dgst", dgst_main, dgst_options},
#ifndef OPENSSL_NO_DH
  {FT_general, "dhparam", dhparam_main, dhparam_options},
#endif
#ifndef OPENSSL_NO_DSA
  {FT_general, "dsa", dsa_main, dsa_options},
#endif
#ifndef OPENSSL_NO_DSA
  {FT_general, "dsaparam", dsaparam_main, dsaparam_options},
#endif
#ifndef OPENSSL_NO_EC
  {FT_general, "ec", ec_main, ec_options},
#endif
#ifndef OPENSSL_NO_EC
  {FT_general, "ecparam", ecparam_main, ecparam_options},
#endif
  {FT_general, "enc", enc_main, enc_options},
#ifndef OPENSSL_NO_ENGINE
  {FT_general, "engine", engine_main, engine_options},
#endif
  {FT_general, "errstr", errstr_main, errstr_options},
#ifndef OPENSSL_NO_DSA
  {FT_general, "gendsa", gendsa_main, gendsa_options},
#endif
```

```
    {FT_general, "genpkey", genpkey_main, genpkey_options},
#ifndef OPENSSL_NO_RSA
   {FT_general, "genrsa", genrsa_main, genrsa_options},
#endif
   {FT_general, "help", help_main, help_options},
   {FT_general, "list", list_main, list_options},
   {FT_general, "nseq", nseq_main, nseq_options},
#ifndef OPENSSL_NO_OCSP
   {FT_general, "ocsp", ocsp_main, ocsp_options},
#endif
   {FT_general, "passwd", passwd_main, passwd_options},
#ifndef OPENSSL_NO_DES
   {FT_general, "pkcs12", pkcs12_main, pkcs12_options},
#endif
   {FT_general, "pkcs7", pkcs7_main, pkcs7_options},
   {FT_general, "pkcs8", pkcs8_main, pkcs8_options},
   {FT_general, "pkey", pkey_main, pkey_options},
   {FT_general, "pkeyparam", pkeyparam_main, pkeyparam_options},
   {FT_general, "pkeyutl", pkeyutl_main, pkeyutl_options},
   {FT_general, "prime", prime_main, prime_options},
   {FT_general, "rand", rand_main, rand_options},
   {FT_general, "rehash", rehash_main, rehash_options},
   {FT_general,
 "req", req_main, req_options},
   {FT_general, "rsa", rsa_main, rsa_options},
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   {FT_general, "rsautl", rsautl_main, rsautl_options},
#endif
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   {FT_general, "s_client", s_client_main, s_client_options},
#endif
#ifndef OPENSSL_NO_SOCK
   {FT_general, "s_server", s_server_main, s_server_options},
#endif
#ifndef OPENSSL_NO_SOCK
   {FT_general, "s_time", s_time_main, s_time_options},
#endif
   {FT_general, "sess_id", sess_id_main, sess_id_options},
   {FT_general, "smime", smime_main, smime_options},
   {FT_general, "speed", speed_main, speed_options},
   {FT_general, "spkac", spkac_main, spkac_options},
#ifndef OPENSSL_NO_SRP
   {FT_general, "srp", srp_main, srp_options},
#endif
   {FT_general, "storeutl", storeutl_main, storeutl_options},
#ifndef OPENSSL_NO_TS
   {FT_general, "ts", ts_main, ts_options},
#endif
```

```
  {FT_general, "verify", verify_main, verify_options},
  {FT_general, "version", version_main, version_options},
   {FT_general, "x509", x509_main, x509_options},
#ifndef OPENSSL_NO_MD2
  {FT_md, "md2", dgst_main},
#endif
#ifndef OPENSSL_NO_MD4
  {FT_md, "md4", dgst_main},
#endif
  {FT_md, "md5", dgst_main},
#ifndef OPENSSL_NO_GOST
  {FT_md, "gost", dgst_main},
#endif
  {FT_md, "sha1", dgst_main},
  {FT_md, "sha224", dgst_main},
  {FT_md, "sha256", dgst_main},
  {FT_md, "sha384", dgst_main},
  {FT_md, "sha512", dgst_main},
  {FT_md, "sha512-224", dgst_main},
  {FT_md, "sha512-256", dgst_main},
  {FT_md, "sha3-224", dgst_main},
  {FT_md, "sha3-256", dgst_main},
  {FT_md, "sha3-384", dgst_main},
  {FT_md, "sha3-512", dgst_main},
  {FT_md, "shake128", dgst_main},
  {FT_md, "shake256", dgst_main},
#ifndef OPENSSL_NO_MDC2
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#endif
#ifndef OPENSSL_NO_RMD160
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#endif
#ifndef OPENSSL_NO_BLAKE2
  {FT_md, "blake2b512", dgst_main},
#endif
#ifndef OPENSSL_NO_BLAKE2
  {FT_md, "blake2s256", dgst_main},
#endif
#ifndef
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  {FT_md, "sm3", dgst_main},
#endif
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  {FT_cipher, "aes-128-ecb", enc_main, enc_options},
  {FT_cipher, "aes-192-cbc", enc_main, enc_options},
  {FT_cipher, "aes-192-ecb", enc_main, enc_options},
  {FT_cipher, "aes-256-cbc", enc_main, enc_options},
  {FT_cipher, "aes-256-ecb", enc_main, enc_options},
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#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-128-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-128-cfb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-128-ctr", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-128-ecb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-128-ofb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-128-cfb1", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-128-cfb8", enc_main, enc_options},
#endif
#ifndef
 OPENSSL_NO_ARIA
  {FT_cipher, "aria-192-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-192-cfb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-192-ctr", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-192-ecb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-192-ofb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-192-cfb1", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-192-cfb8", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-256-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-256-cfb", enc_main, enc_options},
```

```
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-256-ctr", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-256-ecb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher,
 "aria-256-ofb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-256-cfb1", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_ARIA
  {FT_cipher, "aria-256-cfb8", enc_main, enc_options},
#endif
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  {FT_cipher, "camellia-128-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_CAMELLIA
  {FT_cipher, "camellia-128-ecb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_CAMELLIA
  {FT_cipher, "camellia-192-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_CAMELLIA
  {FT_cipher, "camellia-192-ecb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_CAMELLIA
  {FT_cipher, "camellia-256-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_CAMELLIA
  {FT_cipher, "camellia-256-ecb", enc_main, enc_options},
#endif
  {FT_cipher, "base64", enc_main, enc_options},
#ifdef ZLIB
  {FT_cipher, "zlib", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_DES
  {FT_cipher, "des", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_DES
   {FT_cipher, "des3", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_DES
  {FT_cipher, "desx", enc_main, enc_options},
#endif
```

```
#ifndef OPENSSL_NO_IDEA
  {FT_cipher, "idea", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_SEED
  {FT_cipher, "seed", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC4
  {FT_cipher, "rc4", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC4
  {FT_cipher, "rc4-40", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC2
  {FT_cipher, "rc2", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_BF
  {FT_cipher, "bf", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_CAST
  {FT_cipher, "cast", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC5
  {FT_cipher, "rc5", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_DES
  {FT_cipher, "des-ecb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_DES
  {FT_cipher, "des-ede", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_DES
  {FT_cipher, "des-ede3", enc_main, enc_options},
#endif
#ifndef
 OPENSSL_NO_DES
  {FT_cipher, "des-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_DES
  {FT_cipher, "des-ede-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_DES
  {FT_cipher, "des-ede3-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_DES
  {FT_cipher, "des-cfb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_DES
  {FT_cipher, "des-ede-cfb", enc_main, enc_options},
```

```
#endif
#ifndef OPENSSL_NO_DES
  {FT_cipher, "des-ede3-cfb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_DES
  {FT_cipher, "des-ofb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_DES
  {FT_cipher, "des-ede-ofb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_DES
  {FT_cipher, "des-ede3-ofb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_IDEA
  {FT_cipher, "idea-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_IDEA
  {FT_cipher, "idea-ecb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_IDEA
  {FT_cipher, "idea-cfb", enc_main, enc_options},
#endif
#ifndef
 OPENSSL_NO_IDEA
  {FT_cipher, "idea-ofb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_SEED
  {FT_cipher, "seed-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_SEED
  {FT_cipher, "seed-ecb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_SEED
  {FT_cipher, "seed-cfb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_SEED
  {FT_cipher, "seed-ofb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC2
  {FT_cipher, "rc2-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC2
  {FT_cipher, "rc2-ecb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC2
  {FT_cipher, "rc2-cfb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC2
```

```
  {FT_cipher, "rc2-ofb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC2
  {FT_cipher, "rc2-64-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC2
  {FT_cipher, "rc2-40-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_BF
  {FT_cipher, "bf-cbc", enc_main, enc_options},
#endif
#ifndef
 OPENSSL_NO_BF
  {FT_cipher, "bf-ecb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_BF
  {FT_cipher, "bf-cfb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_BF
  {FT_cipher, "bf-ofb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_CAST
  {FT_cipher, "cast5-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_CAST
  {FT_cipher, "cast5-ecb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_CAST
  {FT_cipher, "cast5-cfb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_CAST
  {FT_cipher, "cast5-ofb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_CAST
  {FT_cipher, "cast-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC5
  {FT_cipher, "rc5-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC5
  {FT_cipher, "rc5-ecb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC5
  {FT_cipher, "rc5-cfb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_RC5
  {FT_cipher, "rc5-ofb", enc_main, enc_options},
#endif
```

```
#ifndef OPENSSL_NO_SM4
   {FT_cipher, "sm4-cbc", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_SM4
  {FT_cipher, "sm4-ecb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_SM4
  {FT_cipher, "sm4-cfb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_SM4
  {FT_cipher, "sm4-ofb", enc_main, enc_options},
#endif
#ifndef OPENSSL_NO_SM4
  {FT_cipher, "sm4-ctr", enc_main, enc_options},
#endif
  {0, NULL, NULL}
};
#endif
```

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    'openssl/ssl/d1_msg.c',
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    'openssl/ssl/methods.c',
    'openssl/ssl/packet.c',
    'openssl/ssl/pqueue.c',
    'openssl/ssl/record/dtls1_bitmap.c',
    'openssl/ssl/record/rec_layer_d1.c',
    'openssl/ssl/record/rec_layer_s3.c',
    'openssl/ssl/record/ssl3_buffer.c',
    'openssl/ssl/record/ssl3_record.c',
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    'openssl/ssl/statem/extensions_cust.c',
    'openssl/ssl/statem/extensions_srvr.c',
    'openssl/ssl/statem/statem.c',
    'openssl/ssl/statem/statem_clnt.c',
    'openssl/ssl/statem/statem_dtls.c',
    'openssl/ssl/statem/statem_lib.c',
    'openssl/ssl/statem/statem_quic.c',
    'openssl/ssl/statem/statem_srvr.c',
    'openssl/ssl/t1_enc.c',
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    'openssl/ssl/t1_trce.c',
    'openssl/ssl/tls13_enc.c',
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'openssl/crypto/aes/aes_ecb.c',
'openssl/crypto/aes/aes_ige.c',
'openssl/crypto/aes/aes_misc.c',
'openssl/crypto/aes/aes_ofb.c',
'openssl/crypto/aes/aes_wrap.c',
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'openssl/crypto/asn1/a_bitstr.c',
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'openssl/crypto/asn1/d2i_pu.c',
'openssl/crypto/asn1/evp_asn1.c',
'openssl/crypto/asn1/f_int.c',
'openssl/crypto/asn1/f_string.c',
'openssl/crypto/asn1/i2d_pr.c',
'openssl/crypto/asn1/i2d_pu.c',

'openssl/crypto/asn1/n_pkey.c',
'openssl/crypto/asn1/nsseq.c',
'openssl/crypto/asn1/p5_pbe.c',
'openssl/crypto/asn1/p5_pbev2.c',
'openssl/crypto/asn1/p5_scrypt.c',
'openssl/crypto/asn1/p8_pkey.c',
'openssl/crypto/asn1/t_bitst.c',
'openssl/crypto/asn1/t_pkey.c',
'openssl/crypto/asn1/t_spki.c',
'openssl/crypto/asn1/tasn_dec.c',
'openssl/crypto/asn1/tasn_enc.c',
'openssl/crypto/asn1/tasn_fre.c',
'openssl/crypto/asn1/tasn_new.c',
'openssl/crypto/asn1/tasn_prn.c',
'openssl/crypto/asn1/tasn_scn.c',
'openssl/crypto/asn1/tasn_typ.c',
'openssl/crypto/asn1/tasn_utl.c',
'openssl/crypto/asn1/x_algor.c',
'openssl/crypto/asn1/x_bignum.c',
'openssl/crypto/asn1/x_info.c',
'openssl/crypto/asn1/x_int64.c',
'openssl/crypto/asn1/x_long.c',
'openssl/crypto/asn1/x_pkey.c',
'openssl/crypto/asn1/x_sig.c',
'openssl/crypto/asn1/x_spki.c',
'openssl/crypto/asn1/x_val.c',
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'openssl/crypto/async/arch/async_posix.c',
'openssl/crypto/async/arch/async_win.c',
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'openssl/crypto/async/async_err.c',
'openssl/crypto/async/async_wait.c',
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'openssl/crypto/bio/b_print.c',
'openssl/crypto/bio/b_sock.c',
'openssl/crypto/bio/b_sock2.c',
'openssl/crypto/bio/bf_buff.c',
'openssl/crypto/bio/bf_lbuf.c',
'openssl/crypto/bio/bf_nbio.c',
'openssl/crypto/bio/bf_null.c',
'openssl/crypto/bio/bio_cb.c',
'openssl/crypto/bio/bio_err.c',

'openssl/crypto/bio/bio_lib.c',
'openssl/crypto/bio/bio_meth.c',
'openssl/crypto/bio/bss_acpt.c',
'openssl/crypto/bio/bss_bio.c',
'openssl/crypto/bio/bss_conn.c',
'openssl/crypto/bio/bss_dgram.c',
'openssl/crypto/bio/bss_fd.c',
'openssl/crypto/bio/bss_file.c',
'openssl/crypto/bio/bss_log.c',
'openssl/crypto/bio/bss_mem.c',
'openssl/crypto/bio/bss_null.c',
'openssl/crypto/bio/bss_sock.c',
'openssl/crypto/blake2/blake2b.c',
'openssl/crypto/blake2/blake2s.c',
'openssl/crypto/blake2/m_blake2b.c',
'openssl/crypto/blake2/m_blake2s.c',
'openssl/crypto/bn/bn_add.c',
'openssl/crypto/bn/bn_asm.c',
'openssl/crypto/bn/bn_blind.c',
'openssl/crypto/bn/bn_const.c',
'openssl/crypto/bn/bn_ctx.c',
'openssl/crypto/bn/bn_depr.c',
'openssl/crypto/bn/bn_dh.c',
'openssl/crypto/bn/bn_div.c',
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'openssl/crypto/bn/bn_mod.c',
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'openssl/crypto/bn/bn_mpi.c',
'openssl/crypto/bn/bn_mul.c',
'openssl/crypto/bn/bn_nist.c',
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     'openssl/crypto/x509v3/v3_pci.c',
    'openssl/crypto/x509v3/v3_pcia.c',
    'openssl/crypto/x509v3/v3_pcons.c',
    'openssl/crypto/x509v3/v3_pku.c',
    'openssl/crypto/x509v3/v3_pmaps.c',
    'openssl/crypto/x509v3/v3_prn.c',
    'openssl/crypto/x509v3/v3_purp.c',
    'openssl/crypto/x509v3/v3_skey.c',
    'openssl/crypto/x509v3/v3_sxnet.c',
    'openssl/crypto/x509v3/v3_tlsf.c',
    'openssl/crypto/x509v3/v3_utl.c',
    'openssl/crypto/x509v3/v3err.c',
    'openssl/engines/e_capi.c',
    'openssl/engines/e_padlock.c',
  ],
  'openssl_sources_BSD-x86_64': [
  ],
  'openssl_defines_BSD-x86_64': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_PIC',
  ],
  'openssl_cflags_BSD-x86_64': [
    '-Wall -O3',
    '-pthread',
    '-Wall -O3',
  ],
  'openssl_ex_libs_BSD-x86_64': [
    '-pthread',
  ],
},
'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
],
 'defines': ['<@(openssl_defines_BSD-x86_64)'],
'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
}
```

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*/

#define PLATFORM "platform: BSD-x86"
#define DATE "built on: Sun Aug  6 12:28:29 2023 UTC"

/*
* Generate compiler_flags as an array of individual characters. This is a
* workaround for the situation where CFLAGS gets too long for a C90 string
* literal
*/
static const char compiler_flags[] = {
  'c','o','m','p','i','l','e','r',':',' ','g','c','c',' ','-','f',
  'P','I','C',' ','-','p','t','h','r','e','a','d',' ','-','W','a',
  ',','-','-','n','o','e','x','e','c','s','t','a','c','k',' ','-',
  'W','a','l','l',' ','-','O','3',' ','-','f','o','m','i','t','-',
  'f','r','a','m','e','-','p','o','i','n','t','e','r','
','-','D',
  'L','_','E','N','D','I','A','N',' ','-','D','O','P','E','N','S',
  'S','L','_','P','I','C',' ','-','D','O','P','E','N','S','S','L',
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  'M','_','G','F','2','m',' ','-','D','S','H','A','1','_','A','S',
  'M',' ','-','D','S','H','A','2','5','6','_','A','S','M',' ','-',
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```

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  'E',' ','-','D','_','R','E','E','N','T','R','A','N','T',' ','-',
  'D','N','D','E','B','U','G','\0'
};
```

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     'L_ENDIAN',
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 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
 'sources': ['<@(openssl_cli_srcs_BSD-x86_64)'],
}
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    'VPAES_ASM',
    'WHIRLPOOL_ASM',
    'GHASH_ASM',
    'ECP_NISTZ256_ASM',
    'POLY1305_ASM',
  ],
  'openssl_cflags_BSD-x86': [
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    '-Wall -O3 -fomit-frame-pointer',
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  'openssl_ex_libs_BSD-x86': [
    '-pthread',
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 'include_dirs': [
  '.',
  './include',
  './crypto',
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 'defines': ['<@(openssl_defines_BSD-x86)'],
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 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
}
```

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'openssl/crypto/modes/ofb128.c',
'openssl/crypto/modes/wrap128.c',
'openssl/crypto/modes/xts128.c',

'openssl/crypto/o_dir.c',
'openssl/crypto/o_fips.c',
'openssl/crypto/o_fopen.c',
'openssl/crypto/o_init.c',
'openssl/crypto/o_str.c',
'openssl/crypto/o_time.c',
'openssl/crypto/objects/o_names.c',
'openssl/crypto/objects/obj_dat.c',
'openssl/crypto/objects/obj_err.c',
'openssl/crypto/objects/obj_lib.c',
'openssl/crypto/objects/obj_xref.c',
'openssl/crypto/ocsp/ocsp_asn.c',
'openssl/crypto/ocsp/ocsp_cl.c',
'openssl/crypto/ocsp/ocsp_err.c',
'openssl/crypto/ocsp/ocsp_ext.c',
'openssl/crypto/ocsp/ocsp_ht.c',
'openssl/crypto/ocsp/ocsp_lib.c',
'openssl/crypto/ocsp/ocsp_prn.c',
'openssl/crypto/ocsp/ocsp_srv.c',

'openssl/crypto/ocsp/ocsp_vfy.c',
'openssl/crypto/ocsp/v3_ocsp.c',
'openssl/crypto/pem/pem_all.c',
'openssl/crypto/pem/pem_err.c',
'openssl/crypto/pem/pem_info.c',
'openssl/crypto/pem/pem_lib.c',
'openssl/crypto/pem/pem_oth.c',
'openssl/crypto/pem/pem_pk8.c',
'openssl/crypto/pem/pem_pkey.c',
'openssl/crypto/pem/pem_sign.c',
'openssl/crypto/pem/pem_x509.c',
'openssl/crypto/pem/pem_xaux.c',
'openssl/crypto/pem/pvkfmt.c',
'openssl/crypto/pkcs12/p12_add.c',
'openssl/crypto/pkcs12/p12_asn.c',
'openssl/crypto/pkcs12/p12_attr.c',
'openssl/crypto/pkcs12/p12_crpt.c',
'openssl/crypto/pkcs12/p12_crt.c',
'openssl/crypto/pkcs12/p12_decr.c',
'openssl/crypto/pkcs12/p12_init.c',
'openssl/crypto/pkcs12/p12_key.c',
'openssl/crypto/pkcs12/p12_kiss.c',
'openssl/crypto/pkcs12/p12_mutl.c',
'openssl/crypto/pkcs12/p12_npas.c',
'openssl/crypto/pkcs12/p12_p8d.c',

'openssl/crypto/pkcs12/p12_p8e.c',
'openssl/crypto/pkcs12/p12_sbag.c',

'openssl/crypto/pkcs12/p12_utl.c',
'openssl/crypto/pkcs12/pk12err.c',
'openssl/crypto/pkcs7/bio_pk7.c',
'openssl/crypto/pkcs7/pk7_asn1.c',
'openssl/crypto/pkcs7/pk7_attr.c',
'openssl/crypto/pkcs7/pk7_doit.c',
'openssl/crypto/pkcs7/pk7_lib.c',
'openssl/crypto/pkcs7/pk7_mime.c',
'openssl/crypto/pkcs7/pk7_smime.c',
'openssl/crypto/pkcs7/pkcs7err.c',
'openssl/crypto/poly1305/poly1305.c',
'openssl/crypto/poly1305/poly1305_ameth.c',
'openssl/crypto/poly1305/poly1305_pmeth.c',
'openssl/crypto/rand/drbg_ctr.c',
'openssl/crypto/rand/drbg_lib.c',
'openssl/crypto/rand/rand_egd.c',
'openssl/crypto/rand/rand_err.c',
'openssl/crypto/rand/rand_lib.c',
'openssl/crypto/rand/rand_unix.c',
'openssl/crypto/rand/rand_vms.c',
'openssl/crypto/rand/rand_win.c',
'openssl/crypto/rand/randfile.c',
'openssl/crypto/rc2/rc2_cbc.c',
'openssl/crypto/rc2/rc2_ecb.c',
'openssl/crypto/rc2/rc2_skey.c',
'openssl/crypto/rc2/rc2cfb64.c',
'openssl/crypto/rc2/rc2ofb64.c',
'openssl/crypto/ripemd/rmd_dgst.c',
'openssl/crypto/ripemd/rmd_one.c',
'openssl/crypto/rsa/rsa_ameth.c',
'openssl/crypto/rsa/rsa_asn1.c',
'openssl/crypto/rsa/rsa_chk.c',
'openssl/crypto/rsa/rsa_crpt.c',
'openssl/crypto/rsa/rsa_depr.c',
'openssl/crypto/rsa/rsa_err.c',
'openssl/crypto/rsa/rsa_gen.c',
'openssl/crypto/rsa/rsa_lib.c',
'openssl/crypto/rsa/rsa_meth.c',
'openssl/crypto/rsa/rsa_mp.c',
'openssl/crypto/rsa/rsa_none.c',
'openssl/crypto/rsa/rsa_oaep.c',
'openssl/crypto/rsa/rsa_ossl.c',
'openssl/crypto/rsa/rsa_pk1.c',
'openssl/crypto/rsa/rsa_pmeth.c',
'openssl/crypto/rsa/rsa_prn.c',
'openssl/crypto/rsa/rsa_pss.c',
'openssl/crypto/rsa/rsa_saos.c',
'openssl/crypto/rsa/rsa_sign.c',

'openssl/crypto/rsa/rsa_ssl.c',
'openssl/crypto/rsa/rsa_x931.c',
'openssl/crypto/rsa/rsa_x931g.c',
'openssl/crypto/seed/seed.c',
'openssl/crypto/seed/seed_cbc.c',
'openssl/crypto/seed/seed_cfb.c',
'openssl/crypto/seed/seed_ecb.c',
'openssl/crypto/seed/seed_ofb.c',
'openssl/crypto/sha/keccak1600.c',
'openssl/crypto/sha/sha1_one.c',
'openssl/crypto/sha/sha1dgst.c',
'openssl/crypto/sha/sha256.c',
'openssl/crypto/sha/sha512.c',
'openssl/crypto/siphash/siphash.c',
'openssl/crypto/siphash/siphash_ameth.c',
'openssl/crypto/siphash/siphash_pmeth.c',
'openssl/crypto/sm2/sm2_crypt.c',
'openssl/crypto/sm2/sm2_err.c',
'openssl/crypto/sm2/sm2_pmeth.c',
'openssl/crypto/sm2/sm2_sign.c',
'openssl/crypto/sm3/m_sm3.c',
'openssl/crypto/sm3/sm3.c',
'openssl/crypto/sm4/sm4.c',
'openssl/crypto/srp/srp_lib.c',
'openssl/crypto/srp/srp_vfy.c',
'openssl/crypto/stack/stack.c',
'openssl/crypto/store/loader_file.c',
'openssl/crypto/store/store_err.c',
'openssl/crypto/store/store_init.c',
'openssl/crypto/store/store_lib.c',
'openssl/crypto/store/store_register.c',
'openssl/crypto/store/store_strings.c',
'openssl/crypto/threads_none.c',
'openssl/crypto/threads_pthread.c',
'openssl/crypto/threads_win.c',
'openssl/crypto/ts/ts_asn1.c',
'openssl/crypto/ts/ts_conf.c',
'openssl/crypto/ts/ts_err.c',
'openssl/crypto/ts/ts_lib.c',
'openssl/crypto/ts/ts_req_print.c',
'openssl/crypto/ts/ts_req_utils.c',
'openssl/crypto/ts/ts_rsp_print.c',
'openssl/crypto/ts/ts_rsp_sign.c',
'openssl/crypto/ts/ts_rsp_utils.c',
'openssl/crypto/ts/ts_rsp_verify.c',
'openssl/crypto/ts/ts_verify_ctx.c',
'openssl/crypto/txt_db/txt_db.c',
'openssl/crypto/ui/ui_err.c',

'openssl/crypto/ui/ui_lib.c',
'openssl/crypto/ui/ui_null.c',

'openssl/crypto/ui/ui_openssl.c',
'openssl/crypto/ui/ui_util.c',
'openssl/crypto/uid.c',
'openssl/crypto/whrlpool/wp_block.c',
'openssl/crypto/whrlpool/wp_dgst.c',
'openssl/crypto/x509/by_dir.c',
'openssl/crypto/x509/by_file.c',
'openssl/crypto/x509/t_crl.c',
'openssl/crypto/x509/t_req.c',
'openssl/crypto/x509/t_x509.c',
'openssl/crypto/x509/x509_att.c',
'openssl/crypto/x509/x509_cmp.c',
'openssl/crypto/x509/x509_d2.c',
'openssl/crypto/x509/x509_def.c',
'openssl/crypto/x509/x509_err.c',
'openssl/crypto/x509/x509_ext.c',
'openssl/crypto/x509/x509_lu.c',
'openssl/crypto/x509/x509_meth.c',
'openssl/crypto/x509/x509_obj.c',
'openssl/crypto/x509/x509_r2x.c',
'openssl/crypto/x509/x509_req.c',
'openssl/crypto/x509/x509_set.c',
'openssl/crypto/x509/x509_trs.c',
'openssl/crypto/x509/x509_txt.c',
'openssl/crypto/x509/x509_v3.c',
'openssl/crypto/x509/x509_vfy.c',
'openssl/crypto/x509/x509_vpm.c',
'openssl/crypto/x509/x509cset.c',
'openssl/crypto/x509/x509name.c',
'openssl/crypto/x509/x509rset.c',
'openssl/crypto/x509/x509spki.c',
'openssl/crypto/x509/x509type.c',
'openssl/crypto/x509/x_all.c',
'openssl/crypto/x509/x_attrib.c',
'openssl/crypto/x509/x_crl.c',
'openssl/crypto/x509/x_exten.c',
'openssl/crypto/x509/x_name.c',
'openssl/crypto/x509/x_pubkey.c',
'openssl/crypto/x509/x_req.c',
'openssl/crypto/x509/x_x509.c',
'openssl/crypto/x509/x_x509a.c',
'openssl/crypto/x509v3/pcy_cache.c',
'openssl/crypto/x509v3/pcy_data.c',
'openssl/crypto/x509v3/pcy_lib.c',
'openssl/crypto/x509v3/pcy_map.c',

```
  'openssl/crypto/x509v3/pcy_node.c',
  'openssl/crypto/x509v3/pcy_tree.c',
  'openssl/crypto/x509v3/v3_addr.c',
  'openssl/crypto/x509v3/v3_admis.c',
  'openssl/crypto/x509v3/v3_akey.c',
  'openssl/crypto/x509v3/v3_akeya.c',
   'openssl/crypto/x509v3/v3_alt.c',
  'openssl/crypto/x509v3/v3_asid.c',
  'openssl/crypto/x509v3/v3_bcons.c',
  'openssl/crypto/x509v3/v3_bitst.c',
  'openssl/crypto/x509v3/v3_conf.c',
  'openssl/crypto/x509v3/v3_cpols.c',
  'openssl/crypto/x509v3/v3_crld.c',
  'openssl/crypto/x509v3/v3_enum.c',
  'openssl/crypto/x509v3/v3_extku.c',
  'openssl/crypto/x509v3/v3_genn.c',
  'openssl/crypto/x509v3/v3_ia5.c',
  'openssl/crypto/x509v3/v3_info.c',
  'openssl/crypto/x509v3/v3_int.c',
  'openssl/crypto/x509v3/v3_lib.c',
  'openssl/crypto/x509v3/v3_ncons.c',
  'openssl/crypto/x509v3/v3_pci.c',
  'openssl/crypto/x509v3/v3_pcia.c',
  'openssl/crypto/x509v3/v3_pcons.c',
  'openssl/crypto/x509v3/v3_pku.c',
  'openssl/crypto/x509v3/v3_pmaps.c',
  'openssl/crypto/x509v3/v3_prn.c',
  'openssl/crypto/x509v3/v3_purp.c',
  'openssl/crypto/x509v3/v3_skey.c',
  'openssl/crypto/x509v3/v3_sxnet.c',
   'openssl/crypto/x509v3/v3_tlsf.c',
  'openssl/crypto/x509v3/v3_utl.c',
  'openssl/crypto/x509v3/v3err.c',
  'openssl/engines/e_capi.c',
  'openssl/engines/e_padlock.c',
],
'openssl_sources_BSD-x86': [
  './config/archs/BSD-x86/asm/crypto/aes/aesni-x86.s',
  './config/archs/BSD-x86/asm/crypto/aes/vpaes-x86.s',
  './config/archs/BSD-x86/asm/crypto/bf/bf-586.s',
  './config/archs/BSD-x86/asm/crypto/bn/bn-586.s',
  './config/archs/BSD-x86/asm/crypto/bn/co-586.s',
  './config/archs/BSD-x86/asm/crypto/bn/x86-gf2m.s',
  './config/archs/BSD-x86/asm/crypto/bn/x86-mont.s',
  './config/archs/BSD-x86/asm/crypto/camellia/cmll-x86.s',
  './config/archs/BSD-x86/asm/crypto/chacha/chacha-x86.s',
  './config/archs/BSD-x86/asm/crypto/des/crypt586.s',
  './config/archs/BSD-x86/asm/crypto/des/des-586.s',
```

```
    './config/archs/BSD-x86/asm/crypto/ec/ecp_nistz256-x86.s',
    './config/archs/BSD-x86/asm/crypto/md5/md5-586.s',

'./config/archs/BSD-x86/asm/crypto/modes/ghash-x86.s',
    './config/archs/BSD-x86/asm/crypto/poly1305/poly1305-x86.s',
    './config/archs/BSD-x86/asm/crypto/rc4/rc4-586.s',
    './config/archs/BSD-x86/asm/crypto/ripemd/rmd-586.s',
    './config/archs/BSD-x86/asm/crypto/sha/sha1-586.s',
    './config/archs/BSD-x86/asm/crypto/sha/sha256-586.s',
    './config/archs/BSD-x86/asm/crypto/sha/sha512-586.s',
    './config/archs/BSD-x86/asm/crypto/whrlpool/wp-mmx.s',
    './config/archs/BSD-x86/asm/crypto/x86cpuid.s',
    './config/archs/BSD-x86/asm/engines/e_padlock-x86.s',
  ],
  'openssl_defines_BSD-x86': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_PIC',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_BN_ASM_PART_WORDS',
    'OPENSSL_IA32_SSE2',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_GF2m',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'RC4_ASM',
    'MD5_ASM',
    'RMD160_ASM',
    'AESNI_ASM',
    'VPAES_ASM',
    'WHIRLPOOL_ASM',
     'GHASH_ASM',
    'ECP_NISTZ256_ASM',
    'POLY1305_ASM',
  ],
  'openssl_cflags_BSD-x86': [
    '-Wa,--noexecstack',
    '-Wall -O3 -fomit-frame-pointer',
    '-pthread',
    '-Wall -O3 -fomit-frame-pointer',
  ],
  'openssl_ex_libs_BSD-x86': [
    '-pthread',
  ],
},
'include_dirs': [
  '.',
```

```
  './include',
  './crypto',
  './crypto/include/internal',
 ],
 'defines': ['<@(openssl_defines_BSD-x86)'],
 'cflags' : ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
}
```

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ISC
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/opensslconf.h.in
*
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```
* https://www.openssl.org/source/license.html
*/

#include <openssl/opensslv.h>

#ifdef  __cplusplus
extern "C" {
#endif

#ifdef OPENSSL_ALGORITHM_DEFINES
# error OPENSSL_ALGORITHM_DEFINES no longer supported
#endif

/*
* OpenSSL was configured with the following options:
*/

#ifndef OPENSSL_NO_COMP
# define OPENSSL_NO_COMP
#endif
#ifndef OPENSSL_NO_MD2
# define OPENSSL_NO_MD2
#endif
#ifndef OPENSSL_NO_RC5
# define OPENSSL_NO_RC5
#endif
#ifndef OPENSSL_THREADS
# define OPENSSL_THREADS
#endif
#ifndef OPENSSL_RAND_SEED_OS
# define OPENSSL_RAND_SEED_OS
#endif
#ifndef OPENSSL_NO_AFALGENG
# define OPENSSL_NO_AFALGENG
#endif
#ifndef
 OPENSSL_NO_ASAN
# define OPENSSL_NO_ASAN
#endif
#ifndef OPENSSL_NO_CRYPTO_MDEBUG
# define OPENSSL_NO_CRYPTO_MDEBUG
#endif
#ifndef OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
# define OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
#endif
#ifndef OPENSSL_NO_EC_NISTP_64_GCC_128
# define OPENSSL_NO_EC_NISTP_64_GCC_128
#endif
```

```
#ifndef OPENSSL_NO_EGD
# define OPENSSL_NO_EGD
#endif
#ifndef OPENSSL_NO_EXTERNAL_TESTS
# define OPENSSL_NO_EXTERNAL_TESTS
#endif
#ifndef OPENSSL_NO_FUZZ_AFL
# define OPENSSL_NO_FUZZ_AFL
#endif
#ifndef OPENSSL_NO_FUZZ_LIBFUZZER
# define OPENSSL_NO_FUZZ_LIBFUZZER
#endif
#ifndef OPENSSL_NO_HEARTBEATS
# define OPENSSL_NO_HEARTBEATS
#endif
#ifndef OPENSSL_NO_MSAN
# define OPENSSL_NO_MSAN
#endif
#ifndef OPENSSL_NO_SCTP
# define OPENSSL_NO_SCTP
#endif
#ifndef OPENSSL_NO_SSL3
# define OPENSSL_NO_SSL3
#endif
#ifndef OPENSSL_NO_SSL3_METHOD
# define OPENSSL_NO_SSL3_METHOD
#endif
#ifndef OPENSSL_NO_UBSAN
# define OPENSSL_NO_UBSAN
#endif
#ifndef OPENSSL_NO_UNIT_TEST
# define OPENSSL_NO_UNIT_TEST
#endif
#ifndef
 OPENSSL_NO_WEAK_SSL_CIPHERS
# define OPENSSL_NO_WEAK_SSL_CIPHERS
#endif
#ifndef OPENSSL_NO_DYNAMIC_ENGINE
# define OPENSSL_NO_DYNAMIC_ENGINE
#endif


/*
* Sometimes OPENSSSL_NO_xxx ends up with an empty file and some compilers
* don't like that.  This will hopefully silence them.
*/
#define NON_EMPTY_TRANSLATION_UNIT static void *dummy = &dummy;
```

```
/*
* Applications should use -DOPENSSL_API_COMPAT=<version> to suppress the
* declarations of functions deprecated in or before <version>. Otherwise, they
* still won't see them if the library has been built to disable deprecated
* functions.
*/
#ifndef DECLARE_DEPRECATED
# define DECLARE_DEPRECATED(f)   f;
# ifdef __GNUC__
#  if __GNUC__ > 3 || (__GNUC__ == 3 && __GNUC_MINOR__ > 0)
#   undef DECLARE_DEPRECATED
#   define DECLARE_DEPRECATED(f)    f __attribute__ ((deprecated));
#  endif
# elif defined(__SUNPRO_C)
#  if (__SUNPRO_C >= 0x5130)
#   undef DECLARE_DEPRECATED
#   define DECLARE_DEPRECATED(f)    f __attribute__
 ((deprecated));
#  endif
# endif
#endif

#ifndef OPENSSL_FILE
# ifdef OPENSSL_NO_FILENAMES
#  define OPENSSL_FILE ""
#  define OPENSSL_LINE 0
# else
#  define OPENSSL_FILE __FILE__
#  define OPENSSL_LINE __LINE__
# endif
#endif

#ifndef OPENSSL_MIN_API
# define OPENSSL_MIN_API 0
#endif

#if !defined(OPENSSL_API_COMPAT) || OPENSSL_API_COMPAT < OPENSSL_MIN_API
# undef OPENSSL_API_COMPAT
# define OPENSSL_API_COMPAT OPENSSL_MIN_API
#endif

/*
* Do not deprecate things to be deprecated in version 1.2.0 before the
* OpenSSL version number matches.
*/
#if OPENSSL_VERSION_NUMBER < 0x10200000L
# define DEPRECATEDIN_1_2_0(f)   f;
#elif OPENSSL_API_COMPAT < 0x10200000L
```

```
# define DEPRECATEDIN_1_2_0(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_1_2_0(f)
#endif

#if OPENSSL_API_COMPAT < 0x10100000L
# define DEPRECATEDIN_1_1_0(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_1_1_0(f)
#endif

#if OPENSSL_API_COMPAT < 0x10000000L
# define DEPRECATEDIN_1_0_0(f)   DECLARE_DEPRECATED(f)
#else
#
 define DEPRECATEDIN_1_0_0(f)
#endif

#if OPENSSL_API_COMPAT < 0x00908000L
# define DEPRECATEDIN_0_9_8(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_0_9_8(f)
#endif

/* Generate 80386 code? */
#undef I386_ONLY

#undef OPENSSL_UNISTD
#define OPENSSL_UNISTD <unistd.h>

#undef OPENSSL_EXPORT_VAR_AS_FUNCTION

/*
* The following are cipher-specific, but are part of the public API.
*/
#if !defined(OPENSSL_SYS_UEFI)
# define BN_LLONG
/* Only one for the following should be defined */
# undef SIXTY_FOUR_BIT_LONG
# undef SIXTY_FOUR_BIT
# define THIRTY_TWO_BIT
#endif

#define RC4_INT unsigned int

#ifdef  __cplusplus
}
#endif
```

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```
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* Generated by util/mkbuildinf.pl
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*/

#define PLATFORM "platform: BSD-x86_64"
#define DATE "built on: Sun Aug  6 12:28:39 2023 UTC"

/*
* Generate compiler_flags as an array of individual characters. This is a
* workaround for the situation where CFLAGS gets too long for a C90 string
* literal
*/
static const char compiler_flags[] = {
   'c','o','m','p','i','l','e','r',':',' ','.','.','/','c','o','n',
   'f','i','g','/','f','a','k','e','_','g','c','c','.','p','l',' ',
   '-','f','P','I','C',' ','-','p','t','h','r','e','a','d',' ','-',
   'W','a',',','-','-','n','o','e','x','e','c','s','t','a','c','k',
   ' ','-','W','a','l','l','
 ','-','O','3',' ','-','D','L','_','E',
   'N','D','I','A','N',' ','-','D','O','P','E','N','S','S','L','_',
   'P','I','C',' ','-','D','O','P','E','N','S','S','L','_','C','P',
   'U','I','D','_','O','B','J',' ','-','D','O','P','E','N','S','S',
   'L','_','I','A','3','2','_','S','S','E','2',' ','-','D','O','P',
   'E','N','S','S','L','_','B','N','_','A','S','M','_','M','O','N',
   'T',' ','-','D','O','P','E','N','S','S','L','_','B','N','_','A',
   'S','M','_','M','O','N','T','5',' ','-','D','O','P','E','N','S',
   'S','L','_','B','N','_','A','S','M','_','G','F','2','m',' ','-',
   'D','S','H','A','1','_','A','S','M',' ','-','D','S','H','A','2',
   '5','6','_','A','S','M',' ','-','D','S','H','A','5','1','2','_',
   'A','S','M',' ','-','D','K','E','C','C','A','K','1','6','0','0',
   '_','A','S','M',' ','-','D','R','C','4','_','A','S','M',' ','-',
   'D','M','D','5','_','A','S','M',' ','-','D','A','E','S','N','I',
   '_','A','S','M',' ','-','D','V','P','A','E','S','_','A','S','M',
    ' ','-','D','G','H','A','S','H','_','A','S','M',' ','-','D','E',
   'C','P','_','N','I','S','T','Z','2','5','6','_','A','S','M',' ',
   '-','D','X','2','5','5','1','9','_','A','S','M',' ','-','D','P',
   'O','L','Y','1','3','0','5','_','A','S','M',' ','-','D','_','T',
   'H','R','E','A','D','_','S','A','F','E',' ','-','D','_','R','E',
```

```
  'E','N','T','R','A','N','T',' ','-','D','N','D','E','B','U','G','\0'
};
```

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```
{
 'variables': {
   'openssl_sources': [
     'openssl/ssl/bio_ssl.c',
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     'openssl/ssl/packet.c',
     'openssl/ssl/pqueue.c',
     'openssl/ssl/record/dtls1_bitmap.c',
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'openssl/crypto/asn1/i2d_pr.c',
'openssl/crypto/asn1/i2d_pu.c',
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'openssl/crypto/ts/ts_rsp_print.c',
'openssl/crypto/ts/ts_rsp_sign.c',
'openssl/crypto/ts/ts_rsp_utils.c',
'openssl/crypto/ts/ts_rsp_verify.c',
'openssl/crypto/ts/ts_verify_ctx.c',
'openssl/crypto/txt_db/txt_db.c',
'openssl/crypto/ui/ui_err.c',
'openssl/crypto/ui/ui_lib.c',
'openssl/crypto/ui/ui_null.c',
'openssl/crypto/ui/ui_openssl.c',
'openssl/crypto/ui/ui_util.c',
'openssl/crypto/uid.c',
'openssl/crypto/whrlpool/wp_dgst.c',
'openssl/crypto/x509/by_dir.c',
'openssl/crypto/x509/by_file.c',
'openssl/crypto/x509/t_crl.c',
'openssl/crypto/x509/t_req.c',
'openssl/crypto/x509/t_x509.c',
'openssl/crypto/x509/x509_att.c',

'openssl/crypto/x509/x509_cmp.c',
'openssl/crypto/x509/x509_d2.c',
'openssl/crypto/x509/x509_def.c',
'openssl/crypto/x509/x509_err.c',
'openssl/crypto/x509/x509_ext.c',
'openssl/crypto/x509/x509_lu.c',
'openssl/crypto/x509/x509_meth.c',
'openssl/crypto/x509/x509_obj.c',
'openssl/crypto/x509/x509_r2x.c',
'openssl/crypto/x509/x509_req.c',
'openssl/crypto/x509/x509_set.c',
'openssl/crypto/x509/x509_trs.c',
'openssl/crypto/x509/x509_txt.c',
'openssl/crypto/x509/x509_v3.c',
'openssl/crypto/x509/x509_vfy.c',
'openssl/crypto/x509/x509_vpm.c',
'openssl/crypto/x509/x509cset.c',
'openssl/crypto/x509/x509name.c',
'openssl/crypto/x509/x509rset.c',
'openssl/crypto/x509/x509spki.c',
'openssl/crypto/x509/x509type.c',
'openssl/crypto/x509/x_all.c',
'openssl/crypto/x509/x_attrib.c',
'openssl/crypto/x509/x_crl.c',
'openssl/crypto/x509/x_exten.c',
'openssl/crypto/x509/x_name.c',
'openssl/crypto/x509/x_pubkey.c',
'openssl/crypto/x509/x_req.c',
'openssl/crypto/x509/x_x509.c',
'openssl/crypto/x509/x_x509a.c',
'openssl/crypto/x509v3/pcy_cache.c',
'openssl/crypto/x509v3/pcy_data.c',
'openssl/crypto/x509v3/pcy_lib.c',
'openssl/crypto/x509v3/pcy_map.c',
'openssl/crypto/x509v3/pcy_node.c',
'openssl/crypto/x509v3/pcy_tree.c',
'openssl/crypto/x509v3/v3_addr.c',
'openssl/crypto/x509v3/v3_admis.c',
'openssl/crypto/x509v3/v3_akey.c',
'openssl/crypto/x509v3/v3_akeya.c',
'openssl/crypto/x509v3/v3_alt.c',
'openssl/crypto/x509v3/v3_asid.c',
'openssl/crypto/x509v3/v3_bcons.c',
'openssl/crypto/x509v3/v3_bitst.c',
'openssl/crypto/x509v3/v3_conf.c',
'openssl/crypto/x509v3/v3_cpols.c',
'openssl/crypto/x509v3/v3_crld.c',
'openssl/crypto/x509v3/v3_enum.c',

```
    'openssl/crypto/x509v3/v3_extku.c',
    'openssl/crypto/x509v3/v3_genn.c',
    'openssl/crypto/x509v3/v3_ia5.c',
    'openssl/crypto/x509v3/v3_info.c',
    'openssl/crypto/x509v3/v3_int.c',
    'openssl/crypto/x509v3/v3_lib.c',
    'openssl/crypto/x509v3/v3_ncons.c',
    'openssl/crypto/x509v3/v3_pci.c',
    'openssl/crypto/x509v3/v3_pcia.c',
    'openssl/crypto/x509v3/v3_pcons.c',
    'openssl/crypto/x509v3/v3_pku.c',
    'openssl/crypto/x509v3/v3_pmaps.c',

'openssl/crypto/x509v3/v3_prn.c',
    'openssl/crypto/x509v3/v3_purp.c',
    'openssl/crypto/x509v3/v3_skey.c',
    'openssl/crypto/x509v3/v3_sxnet.c',
    'openssl/crypto/x509v3/v3_tlsf.c',
    'openssl/crypto/x509v3/v3_utl.c',
    'openssl/crypto/x509v3/v3err.c',
    'openssl/engines/e_capi.c',
    'openssl/engines/e_padlock.c',
  ],
  'openssl_sources_BSD-x86_64': [
    './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-mb-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha1-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha256-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/aes/vpaes-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-avx2.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-gf2m.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont.s',
     './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont5.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/camellia/cmll-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/chacha/chacha-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/ec/ecp_nistz256-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/ec/x25519-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/md5/md5-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/modes/aesni-gcm-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/modes/ghash-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/poly1305/poly1305-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/rc4/rc4-md5-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/rc4/rc4-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/keccak1600-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha1-mb-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha1-x86_64.s',
```

```
    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha256-mb-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha256-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha512-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/whrlpool/wp-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/x86_64cpuid.s',
    './config/archs/BSD-x86_64/asm_avx2/engines/e_padlock-x86_64.s',
  ],
  'openssl_defines_BSD-x86_64': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_PIC',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_IA32_SSE2',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_MONT5',
    'OPENSSL_BN_ASM_GF2m',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'KECCAK1600_ASM',
    'RC4_ASM',
    'MD5_ASM',
    'AESNI_ASM',
    'VPAES_ASM',
    'GHASH_ASM',
    'ECP_NISTZ256_ASM',
    'X25519_ASM',
    'POLY1305_ASM',
  ],
  'openssl_cflags_BSD-x86_64': [
    '-Wa,--noexecstack',
     '-Wall -O3',
    '-pthread',
    '-Wall -O3',
  ],
  'openssl_ex_libs_BSD-x86_64': [
    '-pthread',
  ],
},
'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
],
'defines': ['<@(openssl_defines_BSD-x86_64)'],
'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
```

'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
}
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*/

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS \

```
 uv__io_t event_watcher;                                 \

#define UV_IO_PRIVATE_PLATFORM_FIELDS                           \
 int rcount;                                             \
 int wcount;                                              \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
```

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*/

#define PLATFORM "platform: BSD-x86"
#define DATE "built on: Sun Aug  6 12:28:31 2023 UTC"

/*
* Generate compiler_flags as an array of individual characters. This is a
* workaround for the situation where CFLAGS gets too long for a C90 string
* literal
*/
```

```
static const char compiler_flags[] = {
  'c','o','m','p','i','l','e','r',':',' ','.','.','/','c','o','n',
  'f','i','g','/','f','a','k','e','_','g','c','c','.','p','l',' ',
  '-','f','P','I','C',' ','-','p','t','h','r','e','a','d',' ','-',
  'W','a',',','-','-','n','o','e','x','e','c','s','t','a','c','k',
  ' ','-','W','a','l','l',','
 ','-','O','3',' ','-','f','o','m','i',
  't','-','f','r','a','m','e','-','p','o','i','n','t','e','r',' ',
  '-','D','L','_','E','N','D','I','A','N',' ','-','D','O','P','E',
  'N','S','S','L','_','P','I','C',' ','-','D','O','P','E','N','S',
  'S','L','_','C','P','U','I','D','_','O','B','J',' ','-','D','O',
  'P','E','N','S','S','L','_','B','N','_','A','S','M','_','P','A',
  'R','T','_','W','O','R','D','S',' ','-','D','O','P','E','N','S',
  'S','L','_','I','A','3','2','_','S','S','E','2',' ','-','D','O',
  'P','E','N','S','S','L','_','B','N','_','A','S','M','_','M','O',
  'N','T',' ','-','D','O','P','E','N','S','S','L','_','B','N','_',
  'A','S','M','_','G','F','2','m',' ','-','D','S','H','A','1','_',
  'A','S','M',' ','-','D','S','H','A','2','5','6','_','A','S','M',
  ' ','-','D','S','H','A','5','1','2','_','A','S','M',' ','-','D',
  'R','C','4','_','A','S','M',' ','-','D','M','D','5','_','A','S',
  'M',' ','-','D','R','M','D','1','6','0','_','A','S','M','
 ','-',
  'D','A','E','S','N','I','_','A','S','M',' ','-','D','V','P','A',
  'E','S','_','A','S','M',' ','-','D','W','H','I','R','L','P','O',
  'O','L','_','A','S','M',' ','-','D','G','H','A','S','H','_','A',
  'S','M',' ','-','D','E','C','P','_','N','I','S','T','Z','2','5',
  '6','_','A','S','M',' ','-','D','P','O','L','Y','1','3','0','5',
  '_','A','S','M',' ','-','D','_','T','H','R','E','A','D','_','S',
  'A','F','E',' ','-','D','_','R','E','E','N','T','R','A','N','T',
  ' ','-','D','N','D','E','B','U','G','\0'
};
/*
* WARNING: do not edit!
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*/

#define PLATFORM "platform: BSD-x86"
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/*
* Generate compiler_flags as an array of individual characters. This is a
```

```
* workaround for the situation where CFLAGS gets too long for a C90 string
* literal
*/
static const char compiler_flags[] = {
  'c','o','m','p','i','l','e','r',':',' ','c','c',' ','-','f','P',
  'I','C',' ','-','p','t','h','r','e','a','d',' ','-','W','a','l',
  'l',' ','-','O','3',' ','-','f','o','m','i','t','-','f','r','a',
  'm','e','-','p','o','i','n','t','e','r',' ','-','D','L','_','E',
  'N','D','I','A','N',' ','-','D','O','P','E','N','S','S','L','_',
   'P','I','C',' ','-','D','_','T','H','R','E','A','D','_','S','A',
  'F','E',' ','-','D','_','R','E','E','N','T','R','A','N','T',' ',
  '-','D','N','D','E','B','U','G','\0'
};
```

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*/

#include <openssl/opensslv.h>

#ifdef  __cplusplus
extern "C" {
#endif

#ifdef OPENSSL_ALGORITHM_DEFINES
# error OPENSSL_ALGORITHM_DEFINES no longer supported
#endif

/*
* OpenSSL was configured with the following options:
*/

#ifndef OPENSSL_NO_COMP
# define OPENSSL_NO_COMP
```

```
#endif
#ifndef OPENSSL_NO_MD2
# define OPENSSL_NO_MD2
#endif
#ifndef OPENSSL_NO_RC5
# define OPENSSL_NO_RC5
#endif
#ifndef OPENSSL_THREADS
# define OPENSSL_THREADS
#endif
#ifndef OPENSSL_RAND_SEED_OS
# define OPENSSL_RAND_SEED_OS
#endif
#ifndef OPENSSL_NO_AFALGENG
# define OPENSSL_NO_AFALGENG
#endif
#ifndef
 OPENSSL_NO_ASAN
# define OPENSSL_NO_ASAN
#endif
#ifndef OPENSSL_NO_CRYPTO_MDEBUG
# define OPENSSL_NO_CRYPTO_MDEBUG
#endif
#ifndef OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
# define OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
#endif
#ifndef OPENSSL_NO_EC_NISTP_64_GCC_128
# define OPENSSL_NO_EC_NISTP_64_GCC_128
#endif
#ifndef OPENSSL_NO_EGD
# define OPENSSL_NO_EGD
#endif
#ifndef OPENSSL_NO_EXTERNAL_TESTS
# define OPENSSL_NO_EXTERNAL_TESTS
#endif
#ifndef OPENSSL_NO_FUZZ_AFL
# define OPENSSL_NO_FUZZ_AFL
#endif
#ifndef OPENSSL_NO_FUZZ_LIBFUZZER
# define OPENSSL_NO_FUZZ_LIBFUZZER
#endif
#ifndef OPENSSL_NO_HEARTBEATS
# define OPENSSL_NO_HEARTBEATS
#endif
#ifndef OPENSSL_NO_MSAN
# define OPENSSL_NO_MSAN
#endif
#ifndef OPENSSL_NO_SCTP
```

```
# define OPENSSL_NO_SCTP
#endif
#ifndef OPENSSL_NO_SSL3
# define OPENSSL_NO_SSL3
#endif
#ifndef OPENSSL_NO_SSL3_METHOD
# define OPENSSL_NO_SSL3_METHOD
#endif
#ifndef OPENSSL_NO_UBSAN
# define OPENSSL_NO_UBSAN
#endif
#ifndef OPENSSL_NO_UNIT_TEST
# define OPENSSL_NO_UNIT_TEST
#endif
#ifndef
 OPENSSL_NO_WEAK_SSL_CIPHERS
# define OPENSSL_NO_WEAK_SSL_CIPHERS
#endif
#ifndef OPENSSL_NO_DYNAMIC_ENGINE
# define OPENSSL_NO_DYNAMIC_ENGINE
#endif


/*
* Sometimes OPENSSSL_NO_xxx ends up with an empty file and some compilers
* don't like that.  This will hopefully silence them.
*/
#define NON_EMPTY_TRANSLATION_UNIT static void *dummy = &dummy;

/*
* Applications should use -DOPENSSL_API_COMPAT=<version> to suppress the
* declarations of functions deprecated in or before <version>. Otherwise, they
* still won't see them if the library has been built to disable deprecated
* functions.
*/
#ifndef DECLARE_DEPRECATED
# define DECLARE_DEPRECATED(f)   f;
# ifdef __GNUC__
#  if __GNUC__ > 3 || (__GNUC__ == 3 && __GNUC_MINOR__ > 0)
#   undef DECLARE_DEPRECATED
#   define DECLARE_DEPRECATED(f)    f __attribute__ ((deprecated));
#  endif
# elif defined(__SUNPRO_C)
#  if (__SUNPRO_C >= 0x5130)
#   undef DECLARE_DEPRECATED
#   define DECLARE_DEPRECATED(f)    f __attribute__
 ((deprecated));
#  endif
```

```
# endif
#endif

#ifndef OPENSSL_FILE
# ifdef OPENSSL_NO_FILENAMES
#  define OPENSSL_FILE ""
#  define OPENSSL_LINE 0
# else
#  define OPENSSL_FILE __FILE__
#  define OPENSSL_LINE __LINE__
# endif
#endif

#ifndef OPENSSL_MIN_API
# define OPENSSL_MIN_API 0
#endif

#if !defined(OPENSSL_API_COMPAT) || OPENSSL_API_COMPAT < OPENSSL_MIN_API
# undef OPENSSL_API_COMPAT
# define OPENSSL_API_COMPAT OPENSSL_MIN_API
#endif

/*
* Do not deprecate things to be deprecated in version 1.2.0 before the
* OpenSSL version number matches.
*/
#if OPENSSL_VERSION_NUMBER < 0x10200000L
# define DEPRECATEDIN_1_2_0(f)   f;
#elif OPENSSL_API_COMPAT < 0x10200000L
# define DEPRECATEDIN_1_2_0(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_1_2_0(f)
#endif

#if OPENSSL_API_COMPAT < 0x10100000L
# define DEPRECATEDIN_1_1_0(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_1_1_0(f)
#endif

#if OPENSSL_API_COMPAT < 0x10000000L
# define DEPRECATEDIN_1_0_0(f)   DECLARE_DEPRECATED(f)
#else
#
 define DEPRECATEDIN_1_0_0(f)
#endif

#if OPENSSL_API_COMPAT < 0x00908000L
```

```
# define DEPRECATEDIN_0_9_8(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_0_9_8(f)
#endif

/* Generate 80386 code? */
#undef I386_ONLY

#undef OPENSSL_UNISTD
#define OPENSSL_UNISTD <unistd.h>

#undef OPENSSL_EXPORT_VAR_AS_FUNCTION

/*
* The following are cipher-specific, but are part of the public API.
*/
#if !defined(OPENSSL_SYS_UEFI)
# undef BN_LLONG
/* Only one for the following should be defined */
# define SIXTY_FOUR_BIT_LONG
# undef SIXTY_FOUR_BIT
# undef THIRTY_TWO_BIT
#endif

#define RC4_INT unsigned int

#ifdef  __cplusplus
}
#endif
```

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```
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*/

#define PLATFORM "platform: BSD-x86_64"
#define DATE "built on: Sun Aug  6 12:28:35 2023 UTC"

/*
* Generate compiler_flags as an array of individual characters. This is a
* workaround for the situation where CFLAGS gets too long for a C90 string
* literal
*/
static const char compiler_flags[] = {
  'c','o','m','p','i','l','e','r',':',' ','g','c','c',' ','-','f',
  'P','I','C',' ','-','p','t','h','r','e','a','d',' ','-','W','a',
```

```
  ',','-','-','n','o','e','x','e','c','s','t','a','c','k',' ','-',
  'W','a','l','l',' ','-','O','3',' ','-','D','L','_','E','N','D',
  'I','A','N',' ','-','D','O','P','E','N','S','S','L','_','P','I',
   'C',' ','-','D','O','P','E','N','S','S','L','_','C','P','U','I',
  'D','_','O','B','J',' ','-','D','O','P','E','N','S','S','L','_',
  'I','A','3','2','_','S','S','E','2',' ','-','D','O','P','E','N',
  'S','S','L','_','B','N','_','A','S','M','_','M','O','N','T',' ',
  '-','D','O','P','E','N','S','S','L','_','B','N','_','A','S','M',
  '_','M','O','N','T','5',' ','-','D','O','P','E','N','S','S','L',
  '_','B','N','_','A','S','M','_','G','F','2','m',' ','-','D','S',
  'H','A','1','_','A','S','M',' ','-','D','S','H','A','2','5','6',
  '_','A','S','M',' ','-','D','S','H','A','5','1','2','_','A','S',
  'M',' ','-','D','K','E','C','C','A','K','1','6','0','0','_','A',
  'S','M',' ','-','D','R','C','4','_','A','S','M',' ','-','D','M',
  'D','5','_','A','S','M',' ','-','D','A','E','S','N','I','_','A',
  'S','M',' ','-','D','V','P','A','E','S','_','A','S','M',' ','-',
  'D','G','H','A','S','H','_','A','S','M',' ','-','D','E','C','P',
   '_','N','I','S','T','Z','2','5','6','_','A','S','M',' ','-','D',
  'X','2','5','5','1','9','_','A','S','M',' ','-','D','P','O','L',
  'Y','1','3','0','5','_','A','S','M',' ','-','D','_','T','H','R',
  'E','A','D','_','S','A','F','E',' ','-','D','_','R','E','E','N',
  'T','R','A','N','T',' ','-','D','N','D','E','B','U','G','\0'
};
```

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*/

#ifndef OSSL_CRYPTO_DSO_CONF_H
define OSSL_CRYPTO_DSO_CONF_H
define DSO_DLFCN
define HAVE_DLFCN_H
define DSO_EXTENSION ".so"
#endif

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*/

#include <openssl/opensslv.h>

#ifdef  __cplusplus
extern "C" {
#endif

#ifdef OPENSSL_ALGORITHM_DEFINES
# error OPENSSL_ALGORITHM_DEFINES no longer supported
#endif

/*
* OpenSSL was configured with the following options:
*/

#ifndef OPENSSL_NO_COMP
# define OPENSSL_NO_COMP
#endif
#ifndef OPENSSL_NO_MD2
# define OPENSSL_NO_MD2
#endif
#ifndef OPENSSL_NO_RC5
# define OPENSSL_NO_RC5
#endif
#ifndef OPENSSL_THREADS
# define OPENSSL_THREADS
#endif
#ifndef OPENSSL_RAND_SEED_OS
# define OPENSSL_RAND_SEED_OS
#endif
#ifndef OPENSSL_NO_AFALGENG
# define OPENSSL_NO_AFALGENG
#endif
#ifndef
 OPENSSL_NO_ASAN
# define OPENSSL_NO_ASAN
#endif
#ifndef OPENSSL_NO_ASM
# define OPENSSL_NO_ASM
#endif
```

```
#ifndef OPENSSL_NO_CRYPTO_MDEBUG
# define OPENSSL_NO_CRYPTO_MDEBUG
#endif
#ifndef OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
# define OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
#endif
#ifndef OPENSSL_NO_EC_NISTP_64_GCC_128
# define OPENSSL_NO_EC_NISTP_64_GCC_128
#endif
#ifndef OPENSSL_NO_EGD
# define OPENSSL_NO_EGD
#endif
#ifndef OPENSSL_NO_EXTERNAL_TESTS
# define OPENSSL_NO_EXTERNAL_TESTS
#endif
#ifndef OPENSSL_NO_FUZZ_AFL
# define OPENSSL_NO_FUZZ_AFL
#endif
#ifndef OPENSSL_NO_FUZZ_LIBFUZZER
# define OPENSSL_NO_FUZZ_LIBFUZZER
#endif
#ifndef OPENSSL_NO_HEARTBEATS
# define OPENSSL_NO_HEARTBEATS
#endif
#ifndef OPENSSL_NO_MSAN
# define OPENSSL_NO_MSAN
#endif
#ifndef OPENSSL_NO_SCTP
# define OPENSSL_NO_SCTP
#endif
#ifndef OPENSSL_NO_SSL3
# define OPENSSL_NO_SSL3
#endif
#ifndef OPENSSL_NO_SSL3_METHOD
# define OPENSSL_NO_SSL3_METHOD
#endif
#ifndef OPENSSL_NO_UBSAN
# define OPENSSL_NO_UBSAN
#endif
#ifndef
 OPENSSL_NO_UNIT_TEST
# define OPENSSL_NO_UNIT_TEST
#endif
#ifndef OPENSSL_NO_WEAK_SSL_CIPHERS
# define OPENSSL_NO_WEAK_SSL_CIPHERS
#endif
#ifndef OPENSSL_NO_DYNAMIC_ENGINE
# define OPENSSL_NO_DYNAMIC_ENGINE
```

```
#endif


/*
* Sometimes OPENSSSL_NO_xxx ends up with an empty file and some compilers
* don't like that.  This will hopefully silence them.
*/
#define NON_EMPTY_TRANSLATION_UNIT static void *dummy = &dummy;

/*
* Applications should use -DOPENSSL_API_COMPAT=<version> to suppress the
* declarations of functions deprecated in or before <version>. Otherwise, they
* still won't see them if the library has been built to disable deprecated
* functions.
*/
#ifndef DECLARE_DEPRECATED
# define DECLARE_DEPRECATED(f)   f;
# ifdef __GNUC__
#  if __GNUC__ > 3 || (__GNUC__ == 3 && __GNUC_MINOR__ > 0)
#   undef DECLARE_DEPRECATED
#   define DECLARE_DEPRECATED(f)    f __attribute__ ((deprecated));
#  endif
# elif defined(__SUNPRO_C)
#  if (__SUNPRO_C >= 0x5130)
#   undef DECLARE_DEPRECATED
#
  define DECLARE_DEPRECATED(f)    f __attribute__ ((deprecated));
#  endif
# endif
#endif

#ifndef OPENSSL_FILE
# ifdef OPENSSL_NO_FILENAMES
#  define OPENSSL_FILE ""
#  define OPENSSL_LINE 0
# else
#  define OPENSSL_FILE __FILE__
#  define OPENSSL_LINE __LINE__
# endif
#endif

#ifndef OPENSSL_MIN_API
# define OPENSSL_MIN_API 0
#endif

#if !defined(OPENSSL_API_COMPAT) || OPENSSL_API_COMPAT < OPENSSL_MIN_API
# undef OPENSSL_API_COMPAT
# define OPENSSL_API_COMPAT OPENSSL_MIN_API
```

```
#endif

/*
* Do not deprecate things to be deprecated in version 1.2.0 before the
* OpenSSL version number matches.
*/
#if OPENSSL_VERSION_NUMBER < 0x10200000L
# define DEPRECATEDIN_1_2_0(f)   f;
#elif OPENSSL_API_COMPAT < 0x10200000L
# define DEPRECATEDIN_1_2_0(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_1_2_0(f)
#endif

#if OPENSSL_API_COMPAT < 0x10100000L
# define DEPRECATEDIN_1_1_0(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_1_1_0(f)
#endif

#if OPENSSL_API_COMPAT < 0x10000000L
#
 define DEPRECATEDIN_1_0_0(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_1_0_0(f)
#endif

#if OPENSSL_API_COMPAT < 0x00908000L
# define DEPRECATEDIN_0_9_8(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_0_9_8(f)
#endif

/* Generate 80386 code? */
#undef I386_ONLY

#undef OPENSSL_UNISTD
#define OPENSSL_UNISTD <unistd.h>

#undef OPENSSL_EXPORT_VAR_AS_FUNCTION

/*
* The following are cipher-specific, but are part of the public API.
*/
#if !defined(OPENSSL_SYS_UEFI)
# undef BN_LLONG
/* Only one for the following should be defined */
# define SIXTY_FOUR_BIT_LONG
```

undef SIXTY_FOUR_BIT
undef THIRTY_TWO_BIT
#endif

#define RC4_INT unsigned int

#ifdef __cplusplus
}
#endif
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/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/opensslconf.h.in
*
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```
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*/

#include <openssl/opensslv.h>

#ifdef  __cplusplus
extern "C" {
#endif

#ifdef OPENSSL_ALGORITHM_DEFINES
# error OPENSSL_ALGORITHM_DEFINES no longer supported
#endif

/*
* OpenSSL was configured with the following options:
*/

#ifndef OPENSSL_NO_COMP
# define OPENSSL_NO_COMP
#endif
#ifndef OPENSSL_NO_MD2
# define OPENSSL_NO_MD2
#endif
#ifndef OPENSSL_NO_RC5
# define OPENSSL_NO_RC5
#endif
#ifndef OPENSSL_THREADS
# define OPENSSL_THREADS
#endif
#ifndef OPENSSL_RAND_SEED_OS
# define OPENSSL_RAND_SEED_OS
#endif
#ifndef OPENSSL_NO_AFALGENG
# define OPENSSL_NO_AFALGENG
#endif
#ifndef
 OPENSSL_NO_ASAN
# define OPENSSL_NO_ASAN
#endif
#ifndef OPENSSL_NO_ASM
# define OPENSSL_NO_ASM
#endif
#ifndef OPENSSL_NO_CRYPTO_MDEBUG
# define OPENSSL_NO_CRYPTO_MDEBUG
```

```
#endif
#ifndef OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
# define OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
#endif
#ifndef OPENSSL_NO_EC_NISTP_64_GCC_128
# define OPENSSL_NO_EC_NISTP_64_GCC_128
#endif
#ifndef OPENSSL_NO_EGD
# define OPENSSL_NO_EGD
#endif
#ifndef OPENSSL_NO_EXTERNAL_TESTS
# define OPENSSL_NO_EXTERNAL_TESTS
#endif
#ifndef OPENSSL_NO_FUZZ_AFL
# define OPENSSL_NO_FUZZ_AFL
#endif
#ifndef OPENSSL_NO_FUZZ_LIBFUZZER
# define OPENSSL_NO_FUZZ_LIBFUZZER
#endif
#ifndef OPENSSL_NO_HEARTBEATS
# define OPENSSL_NO_HEARTBEATS
#endif
#ifndef OPENSSL_NO_MSAN
# define OPENSSL_NO_MSAN
#endif
#ifndef OPENSSL_NO_SCTP
# define OPENSSL_NO_SCTP
#endif
#ifndef OPENSSL_NO_SSL3
# define OPENSSL_NO_SSL3
#endif
#ifndef OPENSSL_NO_SSL3_METHOD
# define OPENSSL_NO_SSL3_METHOD
#endif
#ifndef OPENSSL_NO_UBSAN
# define OPENSSL_NO_UBSAN
#endif
#ifndef
 OPENSSL_NO_UNIT_TEST
# define OPENSSL_NO_UNIT_TEST
#endif
#ifndef OPENSSL_NO_WEAK_SSL_CIPHERS
# define OPENSSL_NO_WEAK_SSL_CIPHERS
#endif
#ifndef OPENSSL_NO_DYNAMIC_ENGINE
# define OPENSSL_NO_DYNAMIC_ENGINE
#endif
```

```
/*
* Sometimes OPENSSSL_NO_xxx ends up with an empty file and some compilers
* don't like that.  This will hopefully silence them.
*/
#define NON_EMPTY_TRANSLATION_UNIT static void *dummy = &dummy;

/*
* Applications should use -DOPENSSL_API_COMPAT=<version> to suppress the
* declarations of functions deprecated in or before <version>. Otherwise, they
* still won't see them if the library has been built to disable deprecated
* functions.
*/
#ifndef DECLARE_DEPRECATED
# define DECLARE_DEPRECATED(f)   f;
# ifdef __GNUC__
#  if __GNUC__ > 3 || (__GNUC__ == 3 && __GNUC_MINOR__ > 0)
#   undef DECLARE_DEPRECATED
#   define DECLARE_DEPRECATED(f)    f __attribute__ ((deprecated));
#  endif
# elif defined(__SUNPRO_C)
#  if (__SUNPRO_C >= 0x5130)
#   undef DECLARE_DEPRECATED
#
  define DECLARE_DEPRECATED(f)    f __attribute__ ((deprecated));
#  endif
# endif
#endif

#ifndef OPENSSL_FILE
# ifdef OPENSSL_NO_FILENAMES
#  define OPENSSL_FILE ""
#  define OPENSSL_LINE 0
# else
#  define OPENSSL_FILE __FILE__
#  define OPENSSL_LINE __LINE__
# endif
#endif

#ifndef OPENSSL_MIN_API
# define OPENSSL_MIN_API 0
#endif

#if !defined(OPENSSL_API_COMPAT) || OPENSSL_API_COMPAT < OPENSSL_MIN_API
# undef OPENSSL_API_COMPAT
# define OPENSSL_API_COMPAT OPENSSL_MIN_API
#endif
```

```
/*
* Do not deprecate things to be deprecated in version 1.2.0 before the
* OpenSSL version number matches.
*/
#if OPENSSL_VERSION_NUMBER < 0x10200000L
# define DEPRECATEDIN_1_2_0(f)   f;
#elif OPENSSL_API_COMPAT < 0x10200000L
# define DEPRECATEDIN_1_2_0(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_1_2_0(f)
#endif

#if OPENSSL_API_COMPAT < 0x10100000L
# define DEPRECATEDIN_1_1_0(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_1_1_0(f)
#endif

#if OPENSSL_API_COMPAT < 0x10000000L
#
 define DEPRECATEDIN_1_0_0(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_1_0_0(f)
#endif

#if OPENSSL_API_COMPAT < 0x00908000L
# define DEPRECATEDIN_0_9_8(f)   DECLARE_DEPRECATED(f)
#else
# define DEPRECATEDIN_0_9_8(f)
#endif

/* Generate 80386 code? */
#undef I386_ONLY

#undef OPENSSL_UNISTD
#define OPENSSL_UNISTD <unistd.h>

#undef OPENSSL_EXPORT_VAR_AS_FUNCTION

/*
* The following are cipher-specific, but are part of the public API.
*/
#if !defined(OPENSSL_SYS_UEFI)
# define BN_LLONG
/* Only one for the following should be defined */
# undef SIXTY_FOUR_BIT_LONG
# undef SIXTY_FOUR_BIT
# define THIRTY_TWO_BIT
```

#endif

#define RC4_INT unsigned int

#ifdef __cplusplus
}
#endif
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
==

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[by Markus Kuhn](http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c).

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{
 'variables': {
  'openssl_defines_BSD-x86': [
   'NDEBUG',
   'L_ENDIAN',
   'OPENSSL_PIC',
   'OPENSSL_CPUID_OBJ',
   'OPENSSL_BN_ASM_PART_WORDS',
   'OPENSSL_IA32_SSE2',
   'OPENSSL_BN_ASM_MONT',
   'OPENSSL_BN_ASM_GF2m',
   'SHA1_ASM',
   'SHA256_ASM',
   'SHA512_ASM',
   'RC4_ASM',
   'MD5_ASM',
   'RMD160_ASM',
   'AESNI_ASM',
   'VPAES_ASM',
   'WHIRLPOOL_ASM',
   'GHASH_ASM',
   'ECP_NISTZ256_ASM',
   'POLY1305_ASM',
  ],
  'openssl_cflags_BSD-x86': [
   '-Wa,--noexecstack',
   '-Wall -O3 -fomit-frame-pointer',
   '-pthread',

```
  '-Wall -O3 -fomit-frame-pointer',
],
'openssl_ex_libs_BSD-x86': [
  '-pthread',
],
'openssl_cli_srcs_BSD-x86': [
  'openssl/apps/asn1pars.c',
  'openssl/apps/ca.c',
  'openssl/apps/ciphers.c',
  'openssl/apps/cms.c',
  'openssl/apps/crl.c',
  'openssl/apps/crl2p7.c',
  'openssl/apps/dgst.c',
  'openssl/apps/dhparam.c',

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  'openssl/apps/ec.c',
  'openssl/apps/ecparam.c',
  'openssl/apps/enc.c',
  'openssl/apps/engine.c',
  'openssl/apps/errstr.c',
  'openssl/apps/gendsa.c',
  'openssl/apps/genpkey.c',
  'openssl/apps/genrsa.c',
  'openssl/apps/nseq.c',
  'openssl/apps/ocsp.c',
  'openssl/apps/openssl.c',
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  'openssl/apps/pkcs7.c',
  'openssl/apps/pkcs8.c',
  'openssl/apps/pkey.c',
  'openssl/apps/pkeyparam.c',
  'openssl/apps/pkeyutl.c',
  'openssl/apps/prime.c',
  'openssl/apps/rand.c',
  'openssl/apps/rehash.c',
  'openssl/apps/req.c',
  'openssl/apps/rsa.c',
  'openssl/apps/rsautl.c',
  'openssl/apps/s_client.c',
  'openssl/apps/s_server.c',
  'openssl/apps/s_time.c',
  'openssl/apps/sess_id.c',
  'openssl/apps/smime.c',
  'openssl/apps/speed.c',
  'openssl/apps/spkac.c',
```

```
      'openssl/apps/srp.c',
    'openssl/apps/storeutl.c',
    'openssl/apps/ts.c',
    'openssl/apps/verify.c',
    'openssl/apps/version.c',
    'openssl/apps/x509.c',
    'openssl/apps/app_rand.c',
    'openssl/apps/apps.c',
    'openssl/apps/bf_prefix.c',
    'openssl/apps/opt.c',
    'openssl/apps/s_cb.c',
    'openssl/apps/s_socket.c',
  ],
 },
 'defines': ['<@(openssl_defines_BSD-x86)'],
 'include_dirs': [
   './include',
 ],
 'cflags' : ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
 'sources': ['<@(openssl_cli_srcs_BSD-x86)'],
}
```

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  assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h,
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In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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* https://www.openssl.org/source/license.html
*/

#define PLATFORM "platform: BSD-x86_64"
#define DATE "built on: Sun Aug  6 12:28:44 2023 UTC"

/*
* Generate compiler_flags as an array of individual characters. This is a
* workaround for the situation where CFLAGS gets too long for a C90 string
* literal
*/
static const char compiler_flags[] = {
  'c','o','m','p','i','l','e','r',':',' ','c','c',' ','-','f','P',
  'I','C',' ','-','p','t','h','r','e','a','d',' ','-','W','a','l',
  'l',' ','-','O','3',' ','-','D','L','_','E','N','D','I','A','N',
  ' ','-','D','O','P','E','N','S','S','L','_','P','I','C',' ','-',
  'D','_','T','H','R','E','A','D','_','S','A','F','E','
','-','D',
  '_','R','E','E','N','T','R','A','N','T',' ','-','D','N','D','E',
  'B','U','G','\0'
};
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/* WARNING: do not edit! */
/* Generated by Makefile from include/crypto/bn_conf.h.in */
/*
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*
```

```
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* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/

#ifndef OSSL_CRYPTO_BN_CONF_H
# define OSSL_CRYPTO_BN_CONF_H

/*
* The contents of this file are not used in the UEFI build, as
* both 32-bit and 64-bit builds are supported from a single run
* of the Configure script.
*/

/* Should we define BN_DIV2W here? */

/* Only one for the following should be defined */
#define SIXTY_FOUR_BIT_LONG
#undef SIXTY_FOUR_BIT
#undef THIRTY_TWO_BIT

#endif
{
 'variables': {
   'openssl_sources': [
     'openssl/ssl/bio_ssl.c',
     'openssl/ssl/d1_lib.c',
     'openssl/ssl/d1_msg.c',
     'openssl/ssl/d1_srtp.c',
     'openssl/ssl/methods.c',
     'openssl/ssl/packet.c',
     'openssl/ssl/pqueue.c',
     'openssl/ssl/record/dtls1_bitmap.c',
     'openssl/ssl/record/rec_layer_d1.c',
     'openssl/ssl/record/rec_layer_s3.c',
     'openssl/ssl/record/ssl3_buffer.c',
     'openssl/ssl/record/ssl3_record.c',
     'openssl/ssl/record/ssl3_record_tls13.c',
     'openssl/ssl/s3_cbc.c',
     'openssl/ssl/s3_enc.c',
     'openssl/ssl/s3_lib.c',
     'openssl/ssl/s3_msg.c',
     'openssl/ssl/ssl_asn1.c',
     'openssl/ssl/ssl_cert.c',
     'openssl/ssl/ssl_ciph.c',
     'openssl/ssl/ssl_conf.c',
     'openssl/ssl/ssl_err.c',
```

'openssl/ssl/ssl_init.c',
'openssl/ssl/ssl_lib.c',
'openssl/ssl/ssl_mcnf.c',
'openssl/ssl/ssl_quic.c',
'openssl/ssl/ssl_rsa.c',
'openssl/ssl/ssl_sess.c',
'openssl/ssl/ssl_stat.c',
'openssl/ssl/ssl_txt.c',
'openssl/ssl/ssl_utst.c',
'openssl/ssl/statem/extensions.c',
'openssl/ssl/statem/extensions_clnt.c',
'openssl/ssl/statem/extensions_cust.c',
'openssl/ssl/statem/extensions_srvr.c',
'openssl/ssl/statem/statem.c',
'openssl/ssl/statem/statem_clnt.c',
'openssl/ssl/statem/statem_dtls.c',
'openssl/ssl/statem/statem_lib.c',
'openssl/ssl/statem/statem_quic.c',
'openssl/ssl/statem/statem_srvr.c',
'openssl/ssl/t1_enc.c',
'openssl/ssl/t1_lib.c',
'openssl/ssl/t1_trce.c',
'openssl/ssl/tls13_enc.c',
'openssl/ssl/tls_srp.c',
'openssl/crypto/aes/aes_cbc.c',
'openssl/crypto/aes/aes_cfb.c',
'openssl/crypto/aes/aes_core.c',
'openssl/crypto/aes/aes_ecb.c',
'openssl/crypto/aes/aes_ige.c',
'openssl/crypto/aes/aes_misc.c',
'openssl/crypto/aes/aes_ofb.c',
'openssl/crypto/aes/aes_wrap.c',
'openssl/crypto/aria/aria.c',
'openssl/crypto/asn1/a_bitstr.c',
'openssl/crypto/asn1/a_d2i_fp.c',
'openssl/crypto/asn1/a_digest.c',
'openssl/crypto/asn1/a_dup.c',
'openssl/crypto/asn1/a_gentm.c',
'openssl/crypto/asn1/a_i2d_fp.c',
'openssl/crypto/asn1/a_int.c',
'openssl/crypto/asn1/a_mbstr.c',
'openssl/crypto/asn1/a_object.c',
'openssl/crypto/asn1/a_octet.c',
'openssl/crypto/asn1/a_print.c',
'openssl/crypto/asn1/a_sign.c',
'openssl/crypto/asn1/a_strex.c',
'openssl/crypto/asn1/a_strnid.c',
'openssl/crypto/asn1/a_time.c',

'openssl/crypto/asn1/a_type.c',
'openssl/crypto/asn1/a_utctm.c',
'openssl/crypto/asn1/a_utf8.c',
'openssl/crypto/asn1/a_verify.c',
'openssl/crypto/asn1/ameth_lib.c',
'openssl/crypto/asn1/asn1_err.c',
'openssl/crypto/asn1/asn1_gen.c',
'openssl/crypto/asn1/asn1_item_list.c',
'openssl/crypto/asn1/asn1_lib.c',
'openssl/crypto/asn1/asn1_par.c',
'openssl/crypto/asn1/asn_mime.c',
'openssl/crypto/asn1/asn_moid.c',
'openssl/crypto/asn1/asn_mstbl.c',
'openssl/crypto/asn1/asn_pack.c',
'openssl/crypto/asn1/bio_asn1.c',
'openssl/crypto/asn1/bio_ndef.c',
'openssl/crypto/asn1/d2i_pr.c',
'openssl/crypto/asn1/d2i_pu.c',
'openssl/crypto/asn1/evp_asn1.c',
'openssl/crypto/asn1/f_int.c',
'openssl/crypto/asn1/f_string.c',
'openssl/crypto/asn1/i2d_pr.c',
'openssl/crypto/asn1/i2d_pu.c',
'openssl/crypto/asn1/n_pkey.c',
'openssl/crypto/asn1/nsseq.c',
'openssl/crypto/asn1/p5_pbe.c',
'openssl/crypto/asn1/p5_pbev2.c',
'openssl/crypto/asn1/p5_scrypt.c',
'openssl/crypto/asn1/p8_pkey.c',
'openssl/crypto/asn1/t_bitst.c',
'openssl/crypto/asn1/t_pkey.c',
'openssl/crypto/asn1/t_spki.c',
'openssl/crypto/asn1/tasn_dec.c',
'openssl/crypto/asn1/tasn_enc.c',
'openssl/crypto/asn1/tasn_fre.c',
'openssl/crypto/asn1/tasn_new.c',
'openssl/crypto/asn1/tasn_prn.c',
'openssl/crypto/asn1/tasn_scn.c',
'openssl/crypto/asn1/tasn_typ.c',
'openssl/crypto/asn1/tasn_utl.c',
'openssl/crypto/asn1/x_algor.c',
'openssl/crypto/asn1/x_bignum.c',
'openssl/crypto/asn1/x_info.c',
'openssl/crypto/asn1/x_int64.c',
'openssl/crypto/asn1/x_long.c',
'openssl/crypto/asn1/x_pkey.c',
'openssl/crypto/asn1/x_sig.c',
'openssl/crypto/asn1/x_spki.c',

'openssl/crypto/asn1/x_val.c',
'openssl/crypto/async/arch/async_null.c',
'openssl/crypto/async/arch/async_posix.c',
'openssl/crypto/async/arch/async_win.c',
'openssl/crypto/async/async.c',
'openssl/crypto/async/async_err.c',
'openssl/crypto/async/async_wait.c',
'openssl/crypto/bf/bf_cfb64.c',
'openssl/crypto/bf/bf_ecb.c',
'openssl/crypto/bf/bf_enc.c',
'openssl/crypto/bf/bf_ofb64.c',
'openssl/crypto/bf/bf_skey.c',
'openssl/crypto/bio/b_addr.c',
'openssl/crypto/bio/b_dump.c',
'openssl/crypto/bio/b_print.c',
'openssl/crypto/bio/b_sock.c',
'openssl/crypto/bio/b_sock2.c',
'openssl/crypto/bio/bf_buff.c',
'openssl/crypto/bio/bf_lbuf.c',
'openssl/crypto/bio/bf_nbio.c',
'openssl/crypto/bio/bf_null.c',
'openssl/crypto/bio/bio_cb.c',
'openssl/crypto/bio/bio_err.c',
'openssl/crypto/bio/bio_lib.c',
'openssl/crypto/bio/bio_meth.c',
'openssl/crypto/bio/bss_acpt.c',
'openssl/crypto/bio/bss_bio.c',
'openssl/crypto/bio/bss_conn.c',
'openssl/crypto/bio/bss_dgram.c',
'openssl/crypto/bio/bss_fd.c',
'openssl/crypto/bio/bss_file.c',
'openssl/crypto/bio/bss_log.c',
'openssl/crypto/bio/bss_mem.c',
'openssl/crypto/bio/bss_null.c',
'openssl/crypto/bio/bss_sock.c',
'openssl/crypto/blake2/blake2b.c',
'openssl/crypto/blake2/blake2s.c',
'openssl/crypto/blake2/m_blake2b.c',
'openssl/crypto/blake2/m_blake2s.c',
'openssl/crypto/bn/asm/x86_64-gcc.c',
'openssl/crypto/bn/bn_add.c',
'openssl/crypto/bn/bn_blind.c',
'openssl/crypto/bn/bn_const.c',
'openssl/crypto/bn/bn_ctx.c',
'openssl/crypto/bn/bn_depr.c',
'openssl/crypto/bn/bn_dh.c',
'openssl/crypto/bn/bn_div.c',
'openssl/crypto/bn/bn_err.c',

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    'openssl/crypto/x509v3/v3_ia5.c',
    'openssl/crypto/x509v3/v3_info.c',
    'openssl/crypto/x509v3/v3_int.c',
    'openssl/crypto/x509v3/v3_lib.c',
    'openssl/crypto/x509v3/v3_ncons.c',
    'openssl/crypto/x509v3/v3_pci.c',
    'openssl/crypto/x509v3/v3_pcia.c',
    'openssl/crypto/x509v3/v3_pcons.c',
    'openssl/crypto/x509v3/v3_pku.c',
    'openssl/crypto/x509v3/v3_pmaps.c',

  'openssl/crypto/x509v3/v3_prn.c',
    'openssl/crypto/x509v3/v3_purp.c',
    'openssl/crypto/x509v3/v3_skey.c',
    'openssl/crypto/x509v3/v3_sxnet.c',
    'openssl/crypto/x509v3/v3_tlsf.c',
    'openssl/crypto/x509v3/v3_utl.c',
    'openssl/crypto/x509v3/v3err.c',
    'openssl/engines/e_capi.c',
    'openssl/engines/e_padlock.c',
   ],
   'openssl_sources_BSD-x86_64': [
    './config/archs/BSD-x86_64/asm/crypto/aes/aesni-mb-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha1-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha256-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/aes/aesni-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/aes/vpaes-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-avx2.s',
    './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-gf2m.s',
    './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont.s',
    './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont5.s',
```

```
    './config/archs/BSD-x86_64/asm/crypto/camellia/cmll-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/chacha/chacha-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/ec/ecp_nistz256-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/ec/x25519-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/md5/md5-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/modes/aesni-gcm-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/modes/ghash-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/poly1305/poly1305-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-md5-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/sha/keccak1600-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/sha/sha1-mb-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/sha/sha1-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/sha/sha256-mb-x86_64.s',

'./config/archs/BSD-x86_64/asm/crypto/sha/sha256-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/sha/sha512-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/whrlpool/wp-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/x86_64cpuid.s',
    './config/archs/BSD-x86_64/asm/engines/e_padlock-x86_64.s',
  ],
  'openssl_defines_BSD-x86_64': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_PIC',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_IA32_SSE2',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_MONT5',
    'OPENSSL_BN_ASM_GF2m',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'KECCAK1600_ASM',
    'RC4_ASM',
    'MD5_ASM',
    'AESNI_ASM',
    'VPAES_ASM',
    'GHASH_ASM',
    'ECP_NISTZ256_ASM',
    'X25519_ASM',
    'POLY1305_ASM',
  ],
  'openssl_cflags_BSD-x86_64': [
    '-Wa,--noexecstack',
    '-Wall -O3',
    '-pthread',
    '-Wall -O3',
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```
  ],
  'openssl_ex_libs_BSD-x86_64': [
    '-pthread',
  ],
 },

 'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
 ],
 'defines': ['<@(openssl_defines_BSD-x86_64)'],
 'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
}
```

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1.417 sysv-init 3.01

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1.419 libsodium 1.0.18

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1.420 glib-networking 2.72.2

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1.421 icu 70.1

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layout: default
title: Legalities
parent: Release & Milestone Tasks
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nav_order: 70

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

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

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

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

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

Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

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

```
STATIC_O = ao

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

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


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

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

## Versioned libraries rules

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

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

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a) Accompany the

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1.426 lsof 4.94.0

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005e014/dialects/osr/machine.h/*
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005e014/dialects/uw/machine.h/*
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/opt/cola/permits/2634185723_1759119893.4891255/0/lsof-org-lsof-4-94-0-0-g005e014-1-tar-gz/lsof-org-lsof-005e014/scripts/idrlogin.perl5#!/usr/local/bin/perl
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*
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1.427 swig 4.0.2

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This package was debianized by Paul Russell <prussell@debian.org> on
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It was downloaded from http://ccache.samba.org/ftp/ccache/

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(See CHANGES and CHANGES.current and the bug tracker for a more complete list).

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1.428 protobuf-c 1.4.1

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1.429 python-pip 22.0.3

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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
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
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2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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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
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.431 nasm 2.15.05

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1.433 mtd-utils 2.1.5

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```
#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
```

Return the address of the last file name component of FILENAME.
If FILENAME has some trailing slash(es), they are considered to be
part of the last component.
If FILENAME has no relative file name components because it is a file
system root, return the empty string.
Examples:

FILENAME	RESULT
"foo.c"	"foo.c"

```
            "foo/bar.c"   "bar.c"
            "/foo/bar.c"  "bar.c"
            "foo/bar/"    "bar/"
            "foo/bar//"   "bar//"
            "/"           ""
            "//"          ""
            ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
   function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
            "foo/bar/"    ""
            "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
            FILENAME      RESULT
            "foo/bar/"    "bar"
            "foo/bar//"   "bar"
            "/"           "/"
            "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
   Typically FILENAME is the value returned by base_name or last_component.
   Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
```

1.435 alsa 1.2.6.1

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

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

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

src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages

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

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

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

Hyphenation Patterns

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

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

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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. The file `tmac/hyphen.fr' contains the
same patterns as the file
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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same
patterns as the files `dehypht-x-2017-03-31.pat' and
`dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found
at

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. The file `tmac/hyphen.cs' contains the same patterns as the file
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included without limitation in the term "modification".)

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

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This option is useful when you wish to copy part of the code of

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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Version 3, 29 June 2007

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

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

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1. Source Code.

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

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

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

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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only if you received the object code with such an offer, in accord
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1.443 c-ares 1.18.1

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1.448 lua 5.4.4

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/opt/cola/permits/2634184836_1759119893.5323076/0/lua-lua-v5-4-4-0-g5d708c3-1-tar-gz/lua-lua-5d708c3/manual/2html#!/usr/bin/env lua5.3
/opt/cola/permits/2634184836_1759119893.5323076/0/lua-lua-v5-4-4-0-g5d708c3-1-tar-gz/lua-lua-5d708c3/manual/manual.of@Ci{$Id: manual.of $}
/opt/cola/permits/2634184836_1759119893.5323076/0/lua-lua-v5-4-4-0-g5d708c3-1-tar-gz/lua-lua-5d708c3/testes/all.lua#!../lua

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*
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/*
** $Id: lua.h $
** Lua - A Scripting Language
** Lua.org, PUC-Rio, Brazil (http://www.lua.org)
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*/

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* /lua-lua-v5-4-4-0-g5d708c3-1-tar-gz/lua-lua-5d708c3/lua.h

1.449 serf 1.3.10

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1.450 pmtools 20130209

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Id

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RRDTOOL - Round Robin Database Tool
A tool for fast logging of numerical data graphical display
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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

/* This file uses _GL_ATTRIBUTE_PURE. */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
#endif

#include <stddef.h>

#ifndef
 DOUBLE_SLASH_IS_DISTINCT_ROOT
define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif

/* Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME   RESULT
          "foo.c"   "foo.c"
          "foo/bar.c"   "bar.c"

```
            "/foo/bar.c"  "bar.c"
            "foo/bar/"    "bar/"
            "foo/bar//"   "bar//"
            "/"           ""
            "//"          ""
            ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
   function name because
     * Various platforms have different functions in their libc.
       In particular, the glibc basename(),
  defined in <string.h>, does
       not consider trailing slashes to be part of the component:
            FILENAME      RESULT
            "foo/bar/"    ""
            "foo/bar//"   ""
     * The 'basename' command eliminates trailing slashes and for a root
       produces a non-empty result:
            FILENAME      RESULT
            "foo/bar/"    "bar"
            "foo/bar//"   "bar"
            "/"           "/"
            "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
   Typically FILENAME is the value returned by base_name or last_component.
   Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
```

1.454 iproute 5.17.0

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1.456 libpciaccess 0.16

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1.457 strace 5.16

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1.459 man-db 2.10.2

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That's all there is to it!

```
/* Extract the last component (base name) of a file name.

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  along with this program.  If not, see <https://www.gnu.org/licenses/>.  */

#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
```

```
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
           "foo/bar/"    ""
           "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
           FILENAME      RESULT
           "foo/bar/"    "bar"
           "foo/bar//"   "bar"
           "/"           "/"
           "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
```

1.460 lvm2 2.03.11

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<signature of Ty Coon>, 1 April 1990
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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
```

```
   * Various platforms have different functions in their libc.
     In particular, the glibc basename(), defined in <string.h>, does
     not consider trailing slashes to be part of the component:
          FILENAME
     RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
   * The 'basename' command eliminates trailing slashes and for a root
     produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
```

1.462 rsync 3.2.5

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
     <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
   <xsl:with-param name="text">
    <xsl:for-each select="db:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright">
  <xsl:text>Copyright (C) </xsl:text>
```

```
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="db:year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="db:holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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  "<http://www.gnu.org/licenses/old-licenses/gpl-2.0.txt>\n"
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```
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1.474 inetutils 2.2

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```
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#ifndef IFCONFIG_SYSTEM_BSD_H
# define IFCONFIG_SYSTEM_BSD_H
# include "../printif.h"
# include "../options.h"
# include <sys/sockio.h>

/* BSD
 variant chooser.  */
# if defined __DragonFly__
#  define IU_BSD_TYPE "dragonfly"
```

```
# elif defined __FreeBSD__
#  define IU_BSD_TYPE "freebsd"
# elif defined __FreeBSD_kernel__
#  define IU_BSD_TYPE "GNU/kFreeBSD"
# elif defined __NetBSD__
#  define IU_BSD_TYPE "netbsd"
# elif defined __OpenBSD__
#  define IU_BSD_TYPE "openbsd"
#  define ETHERNAME "lladdr"
# else /* Exotic BSD versions.  */
#  define IU_BSD_TYPE "unknownbsd"
# endif

# ifndef ETHERNAME
#  define ETHERNAME "ether"
# endif


/* Option support.  */

# undef SYSTEM_SHORT_OPTIONS
# undef SYSTEM_LONG_OPTIONS

struct system_ifconfig
{
 int valid;
};


/* Output format support.  */

# define _IU_CAT2(a, b) a ## b
# define _IU_DCL(name, fld)    \
 {#name, _IU_CAT2(system_fh_, fld) }
# define _IU_EXTRN(fld)    \
 extern void _IU_CAT2(system_fh_, fld) (format_data_t, int, char *[]); \

# define SYSTEM_FORMAT_HANDLER \
 {"bsd", fh_nothing},  \
 {IU_BSD_TYPE, fh_nothing}, \
 {"brdaddr?", system_fh_brdaddr_query}, \
 {"brdaddr",
 system_fh_brdaddr}, \
 {"hwaddr?", system_fh_hwaddr_query}, \
 {"hwaddr", system_fh_hwaddr}, \
 {"hwtype?", system_fh_hwtype_query}, \
 {"hwtype", system_fh_hwtype}, \
 {"media?", system_fh_media_query}, \
```

```
 {"media", system_fh_media}, \
 {"netmask?", system_fh_netmask_query}, \
 {"netmask", system_fh_netmask}, \
 {"status?", system_fh_status_query}, \
 {"status", system_fh_status}, \
 {"tunnel?", system_fh_tunnel_query}, \
 {"tundst", system_fh_tundst}, \
 {"tunsrc", system_fh_tunsrc}, \
 {"ifstat?", system_fh_ifstat_query}, \
 _IU_DCL (collisions, collisions), \
 _IU_DCL (rxbytes, rx_bytes), \
 _IU_DCL (rxdropped, rx_dropped), \
 _IU_DCL (rxerrors, rx_errors), \
 {"rxfifoerr", system_fh_missing_stat}, \
 {"rxframeerr", system_fh_missing_stat}, \
 _IU_DCL (rxpackets, rx_packets), \
 _IU_DCL (txbytes, tx_bytes), \
 {"txcarrier", system_fh_missing_stat}, \
 _IU_DCL (txdropped, tx_dropped), \
 _IU_DCL (txerrors, tx_errors), \
 {"txfifoerr", system_fh_missing_stat},
 \
 _IU_DCL (txpackets, tx_packets),

void system_fh_brdaddr_query (format_data_t form, int argc, char *argv[]);
void system_fh_brdaddr (format_data_t form, int argc, char *argv[]);
void system_fh_hwaddr_query (format_data_t form, int argc, char *argv[]);
void system_fh_hwaddr (format_data_t form, int argc, char *argv[]);
void system_fh_hwtype_query (format_data_t form, int argc, char *argv[]);
void system_fh_hwtype (format_data_t form, int argc, char *argv[]);
void system_fh_media_query (format_data_t form, int argc, char *argv[]);
void system_fh_media (format_data_t form, int argc, char *argv[]);
void system_fh_netmask_query (format_data_t form, int argc, char *argv[]);
void system_fh_netmask (format_data_t form, int argc, char *argv[]);
void system_fh_status_query (format_data_t form, int argc, char *argv[]);
void system_fh_status (format_data_t form, int argc, char *argv[]);
void system_fh_tunnel_query (format_data_t form, int argc, char *argv[]);
void system_fh_tundst (format_data_t
 form, int argc, char *argv[]);
void system_fh_tunsrc (format_data_t form, int argc, char *argv[]);

void system_fh_ifstat_query (format_data_t form, int argc, char *argv[]);
void system_fh_missing_stat (format_data_t form, int argc, char *argv[]);

_IU_EXTRN (rx_bytes)
_IU_EXTRN (tx_bytes)
_IU_EXTRN (rx_dropped)
_IU_EXTRN (tx_dropped)
```

```
_IU_EXTRN (rx_errors)
_IU_EXTRN (tx_errors)
_IU_EXTRN (rx_packets)
_IU_EXTRN (tx_packets)
_IU_EXTRN (collisions)

#endif /* IFCONFIG_SYSTEM_BSD_H */
/* Extract the last component (base name) of a file name.

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
```

```
            "foo/bar.c"   "bar.c"
            "/foo/bar.c"  "bar.c"
            "foo/bar/"    "bar/"
            "foo/bar//"   "bar//"
            "/"           ""
            "//"          ""
            ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
   function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
            "foo/bar/"    ""
            "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
            FILENAME      RESULT
            "foo/bar/"    "bar"
            "foo/bar//"   "bar"
            "/"           "/"
            "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
   Typically FILENAME is the value returned by base_name or last_component.
   Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
```

1.475 python-requests 2.27.1

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1.477 python3-protobuf 3.20.3

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1.478 libproxy 0.4.17

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1.480 libedit 20210910-3.1

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1.481 sudo 1.9.13p3

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you believe you should be listed, send a note to sudo@sudo.ws.

  Ackeret, Matt
  Adler, Mark
  Allbery, Russ
  Anderson, Jamie
  Andrew, Nick
  Andric, Dimitry
  Barron, Danny

Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon,
Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave

Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jindrk, Jaroslav
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya,
Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren

Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Orbn, Lszl
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
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Snchez, Wilfredo
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Tucker, Darren
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Uzel, Petr
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de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin

Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Doghonadze, Temuri

Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Florentina Muat
Nurmi, Lauri
Nikoli, Miroslav
Nylander, Daniel
Pan, Yi-Jyun
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Selimaj, Agron
Sendn, Abel
erbnescu, Daniel
Shahedany, Eshagh
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

Yang, Boyuan

The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
Sandwich logo (inspired by xkcd): Stillman, Mark

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* Optimize Java serialization of strings so that UTF-8 encoding happens only
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* Fix bug with permanent callbacks that delete themselves when run.
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* Provide a type alias field ValueType
on EnumTypeWrapper
* Match service argument names to abstract interface

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve

this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of

the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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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
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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,
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This option is useful when you wish to copy part of the code of the
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not

compelled to copy the source along with the object code.

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

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

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

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

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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

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Appendix: How to Apply These Terms to Your New Libraries

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
 If FILENAME has some trailing slash(es), they are considered to be
 part of the last component.
 If FILENAME has no relative file name components because it is a file
 system root, return the empty string.
 Examples:
        FILENAME      RESULT
        "foo.c"       "foo.c"
        "foo/bar.c"   "bar.c"
        "/foo/bar.c"  "bar.c"
```

```
            "foo/bar/"    "bar/"
            "foo/bar//"   "bar//"
            "/"           ""
            "//"          ""
            ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
   function name because
     * Various platforms have different functions in their libc.
       In particular, the glibc basename(), defined in <string.h>, does
       not consider trailing slashes to be part of the component:
            FILENAME
       RESULT
            "foo/bar/"    ""
            "foo/bar//"   ""
     * The 'basename' command eliminates trailing slashes and for a root
       produces a non-empty result:
            FILENAME      RESULT
            "foo/bar/"    "bar"
            "foo/bar//"   "bar"
            "/"           "/"
            "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
   Typically FILENAME is the value returned by base_name or last_component.
   Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
^L
7. You may place library facilities that are a work based on the
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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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

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

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mail.

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your
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library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

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

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

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

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

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

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,

it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20

thus LGPL-2.1 enters to fill this void.
=2Dmike

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

-- Nathan
=20

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

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

> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a

> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

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

> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

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

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

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

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

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

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

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

From
 alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit

From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.494 libuv 1.44.2

1.494.1 Available under license :

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*/

#ifndef UV_BSD_H
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#define UV_PLATFORM_FS_EVENT_FIELDS                                           \
 uv__io_t event_watcher;                                                      \

#define UV_IO_PRIVATE_PLATFORM_FIELDS                                         \
 int rcount;                                                                  \
 int wcount;                                                                  \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
```

1.495 python3-asn1crypto 1.5.1

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1.496 libsoup 2.74.2

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<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
     <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
   <xsl:with-param name="text">
    <xsl:for-each select="db:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
```

```
    <xsl:with-param name="years" select="db:year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="db:holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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