

e-STUDIO401AC Series

Software License

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Free software component	License agreement
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DNSmasq,i2c-tools,Lib JPEG,netatalk,python,SFML,TBB, WPA supplicant, RealtekTL8152/RTL8153 NICdriver,V8 JavaScript Engine,acl,adduser,apt,apt-utils,at,attr,auditd,base-files,bash,base-passwd,bc,bind9-host,bind9utils,binutils,binutils-common,binutils-dev,binutils-x86-64-linux-gnu,bison,bsdutils,ca-certificates,comerr-dev,coreutils,cpio,cryptsetup,cryptsetup-bin,bind9,cryptsetup-initramfs,cryptsetup-run,curl,dash,dbus,dbus-user-session,debconf,debconf-i18n,debianutils,debian-archive-keyring,diffutils,dmeventd,dmidecode,dmsetup,dns-root-data,dos2unix,dosfstools,dpkg,e2fsprogs,ed,electric-fence,elfutils,ethtool,fam,fdisk,file,flashrom,flex,fontconfig,fontconfig-onfig,gawk,gcc-8-base,gdb,gettext,gettext-base,gir1.2-glib-2.0,gir1.2-gdkpixbuf-2.0,gir1.2-freedesktop,gpgv,grep,grub2,grub2-common,grub-pc,grub-pc-bin,gstreamer1.0-tools,gzip,haveged,heartbeat,	Exhibit 2

Free software component	License agreement
libraw1394-dev,libreadline5,libreadline7,librest-0.7-0,librtmp1,libsamplerate0,libsasl2-2,libsasl2-modules-db,libseccomp2,libsemanage1,libsensors5,libsemanage-common,libsensors-config,libsepol1,libsgutils2-2,libsigsegv2,libslang2,libslang2-modules,libsm6,libsmartcols1,libsndfile1,libsnmp30,libsnmp-base,libsoup2.4-1,libsoup-gnome2.4-1,libsqlite3-0,libss2,libssh2-1,libssl1.1,libstatgrab10,libswresample3,libswscale5,libswscale-dev,libsystemd0,libtasn1-6,libtheora0,libtinfo6,libts-bin,libts0,libnss3-tools,libturbojpeg0,libudev1,libunistring2,libunwind8,liburcu6,libusb-0.1-4,libusb-1.0-0,libustr-1.0-1,libuuid1,libwebpdemux2,libx264-155,libx265-165,libxapian30,libxcb-ewmh2,libxcb-icccm4,libxcb-image0,libxcb-keysyms1,libxcb-util0,libxcb-render-util0,libxdmcp6,libxi6,libxtables12,libzstd1,linux-libc-dev,lm-sensors,linux-base,locales-all,login,logrotate,lrzsz,ltrace,lsb-base,lsof,lvm2,lzop,mariadb-common,mawk,minicom,mount,multipath-tools,mysql-common,nano,ncurses-base,ncurses-bin,net-tools,netbase,nfs-common,nfs-kernel-server,openhpi-clients,openhpid,openhpi-plugin-ilo2-ribcl,openhpi-plugin-ipmi,openhpi-plugin-ipmidirect,openhpi-plugin-oa-soap,openhpi-plugin-ov-rest,openhpi-plugin-snmp-bc,openhpi,openipmi,openssh-client,parted,passwd,pciutils,pcscd,pcsc-tools,perl,perl-base,perl-modules-5.28,policycoreutils,prelink,procps,psmisc,python3.7,python3.7-minimal,python3,python3-minimal,paxctl,readline-common,resource-agents,rng-tools,rpcbind,Samhain,Sed,selinux-utils,sensible-utils,sg3-utils,sg3-utils-udev,shared-mime-info,smartmontools,snmp,snmpd,sqlite3,strace,startpar,sudo,sysfsutils,syslog-ng,syslog-ng-core,syslog-ng-mod-journal,syslog-ng-mod-mongodb,syslog-ng-mod-sql,sysstat,systemd,systemd-sysv,sysvinit-utils,sysv-rc-conf,tar,taskel,taskel-data,time,trace-cmd,traceroute,ucf,udev,uidmap,update-inetd,usb.ids,usbutils,util-linux,valgrind,vim,vim-common,vim-runtime,vim-tiny,vsftpd,wget,whichman,wireless-tools,xapian-tools,xkb-data,xbitmaps,xxd,xz-utils,zip,tcl,x11-common	
Grub,Httpd,SFML,V8 JavaScript Engine,Adduser,Apt,Auditd,base-files,bash,bc,binutils,binutils-common,binutils-dev,binutils-x86-64-linux-gnu,bison,bsdutils,comerr-dev,coreutils,corosync,cpio,curl,dbus,dbus-user-session,diffutils,dmccore,dmsetup,dosfstools,dpkg,e2fsprogs,elfutils,fdisk,file,flex,gawk,gcc-8-base,gdb,gettext,gettext-base,glib2.0,glib2.0-freedesktop,gpgv,grep,grub2,grub2-common,grub-pc,grub-pc-bin,gstreamer1.0-tools,gzip,haveged,htop,ifenslave,inetutils-ftp,inetutils-talk,inetutils-talkd,inetutils-tools,inetutils-traceroute,iptables,iptables-persistent,kbd,keyboard-configuration,krb5-admin-server,krb5-kdc,krb5-user,libapt-inst2.0,libarchive13,libasm1,libatomic1,libattr1,libaudit1,libaudit-common,libauparse0,libavcodec58,libavformat58,libavresample4,libavresample-dev,libavutil56,libavutil-dev,libbabeltrace1,libbinutils,libbison-dev,libblkid1,libbsd0,libc6,libc6-dbg,libc6-dev,libcairo2,libcap-ng0,libcairo-gobject2,libc-bin,libc-dev-bin,libcom-err2,libcorosync-common4,libcpio4,libcroco3,libcurl3-gnutls,libcurl4,libdbus-1-3,libdbus-glib-1-2,libdevmapper-event1.02.1,libdrm2,libdrm-amdgpu1,libdrm-common,libdrm-intel1,libdrm-nouveau2,	Exhibit 3

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libdrm-radeon1,libdw1,libedit2,libefiboot1,libefivar1,libegl1,libelf1, libevent-core-2.1-6,libevent-2.1-6,libevent-extra-2.1-6,libevent-openssl-2.1-6, libext2fs2,libevent-pthreads-2.1-6,libext2fs-dev,libfastjson4,libfdisk1,libffi6, libfl2,libfreetype6,libfuse2,libgcc1,libgomp1,libgcrypt20,libgdbm6,libgeoip1, libgdbm-compat4,libgl1,libgirepository-1.0-1,libgles1,libgles2,libglvnd0, libglx0,libgmp10,libgnutls30,libgpg-error0,libgpm2,libgssapi-krb5-2, libgstreamer1.0-0,libgstreamer-plugins-base1.0-0,libharfbuzz0b, libharfbuzz-gobject0,libharfbuzz-icu0,libhavege1,libhogweed4,libicu63, libidn11,libidn2-0,libip4tc0,libip6tc0,libiptc0,libjpeg62-turbo,libk5crypto3, libkadm5srv-mit11,libkdb5-9,libkrb5-3,libkrb5support0,libknet1,liblognorm5, libltdl7,liblvm2cmd2.03,liblzo2-2,libmagic1,libmagic-mgc,libmariadb3, libmount1,libmpfr6,libncurses6,libncursesw6,libnetfilter-contrack3,libnettle6, libnftnl11,libnhttp2-14,libnspr4,libonig5,libopts25,liborc-0.4-0,libp11-kit0, libpam0g,libpam0g-dev,libpam-cap,libpam-modules,libpam-modules-bin, libpam-runtime,libparted2,libpcre3,libpcsc-lite1,libperl5.28,libpng16-16, libprelude23,libpsl5,libquorum5,libpulse-mainloop-glib0,libreadline7, libsasl2-2,libsasl2-modules-db,libseccomp2,libslang2,libsmartcols1,libss2, libssh,libstdc++6,libswresample3,libswscale5,libswscale-dev,libtasn1-6, libtinfo6,libturbojpeg0,libunistring2,libuuid1,liblvm2,libvotequorum8,libxdmcp6, libxtables12,locales-all,make,mariadb-common,m4,minicom,mount,nano, ncurses-base,ncurses-bin,netfilter-persistent,openssh-client,parted,perl, perl-base,perl-modules-5.28,readline-common,sed,strace,sudo,tar,usbutils, util-linux,wget,xkb-data,	
ImageMagick,SFML,acl,binutils,binutils-common,binutils-dev, binutils-x86-64-linux-gnu,bsdutils,comerr-dev,dconf-gsettings-backend,dconf- service,dmidecode,e2fsprogs,elfutils,fdisk,flex,gawk,gcc-8-base,gdb,gettext, gettext-base,gir1.2-glib-2.0, gir1.2-atk-1.0,gir1.2-gdkpixbuf-2.0, gir1.2-freedesktop,gir1.2-gtk-3.0,gir1.2-pango-1.0,glib-networking, glib-networking-common,glib-networking-services,grub2-common,grub-pc, grub-pc-bin,gstreamer1.0-tools,gtk-update-icon-cache,hwdata,init, init-system-helpers,iptables,kexec-tools,keyutils,klibc-utils,kmod,libacl1, libasound2,libasound2-data,libasound2-plugin-smixer,libasm1,libatk1.0-0, libatk1.0-data,libatspi2.0-0,libavahi-client3,libavahi-common3, libavahi-common-data,libavcodec58,libavformat58,libavresample4, libavresample-dev,libavutil56,libavutil-dev,libbinutils,libblkid1,libbluray2, libc6,libc6-dbg,libc6-dev,libcairo-perl,libcairo-gobject-perl,libcap2,libcap2- bin,libcap-ng0,libc-bin,libc-dev-bin,libccid,libcom-err2,libcroco3,libcups2, libdbi1,libdbus-glib-1-2,libdc1394-22,libdc1394-22-dev,libdconf1,libdw1, libelf1,libestr0,libext2fs2,libext2fs-dev,libfdisk1,libflac8,libftdi1,libgeoip1, libgcrypt20,libgdk-pixbuf2.0-0,libgdk-pixbuf2.0-common,libglib2.0-0, libgirepository-1.0-1,libglib2.0-data,libglib-object-introspection-perl, libglib-perl,libgme0,libgmp10,libgnutls30,libgpg-error0,libgraphite2-3, libgstreamer1.0-0,libgstreamer-plugins-bad1.0-0, libgstreamer-plugins-base1.0-0,libgtk-3-0,libgtk-3-common,libhogweed4,	Exhibit 4

Free software component	License agreement
libidn11,libip4tc0,libip6tc0,libiptc0,libkeyutils1,libklibc,libkmod2,libknet1,libltdl7,liblzma5,libmariadb3,libmnl0,libmount1,libmp3lame0,libmpg123-0,libneon27,libnettle6,libnewt0.52,libnss3,libnss3-tools,libnuma1,libopts25,libpam0g,libpam0g-dev,libpam-cap,libpam-modules,libpam-modules-bin,libpam-runtime,libpango-1.0-0,libpangocairo-1.0-0,libpangoft2-1.0-0,libperl5.28,libprocps7,libproxy1v5,libpulse0,libpulse-mainloop-glib0,libqb0,librsvg2-2,librsvg2-common,libsmartcols1,libsoxr0,libss2,libssh-gcrypt-4,libswresample3,libswscale5,libswscale-dev,libthai0,libthai-data,libtwolame0,libunistring2,libustr-1.0-1,libutempter0,libuuid1,libx264-155,libx265-165,libxtables12,libxvidcore4,locales-all,lsof,mariadb-common,mount,nano,perl,perl-base,perl-modules-5.28,startpar,util-linux,valgrend,whiptail, xz-utils	
libp11,libssh,openldap,repoze.lru,requests,SFML,alsa-utils,auditd,base-files,binutils,binutils-common,binutils-dev,binutils-x86-64-linux-gnu,bsdutils,comerr-dev,cracklib-runtime,cryptsetup,cryptsetup-bin,cryptsetup-initramfs,cryptsetup-run,dbus,dbus-user-session,dmccventd,dmccsetup,e2fsprogs,elfutils,fdisk,findutils,gawk,gcc-8-base,gdb,gettext,gettext-base,gir1.2-glib-2.0,attr,gir1.2-atk-1.0,gir1.2-gdkpixbuf-2.0,gir1.2-freedesktop,gir1.2-gtk-3.0,gir1.2-pango-1.0,gpgv,grep,grub2-common,grub-pc,gstreamer1.0-tools,grub-pc-bin,heartbeat,initscripts,iso-codes,kbd,keyutils,kpartx,libasm1,libasynens0,libattr1,libaudit1,libaudit-common,libauparse0,libbabeltrace1,libbinutils,libblkid1,libc6,libc6-dbg,libc6-dev,libcairo-gobject-perl,libcairo-perl,libcap-ng0,libc-bin,libc-dev-bin,libccid,libgeoip1,libcodec2-0.8.1,libcom-err2,libcrack2,libcroco3,libcryptsetup12,libdatatr1,libdbus-1-3,libdw1,libdevmapper-event1.02.1,libelf1,libext2fs2,libext2fs-dev,libfdisk1,libff6,libfuse2,libgcrypt20,libgirepository-1.0-1,libglib2.0-0,libglib2.0-data,libglib-object-introspection-perl,libglib-perl,libgtk3-perl,libgnutls30,libgpg-error0,libgstreamer1.0-0,libheartbeat2,libgstreamer-plugins-base1.0-0,libhogweed4,libidn11,libidn2-0,libivykis0,libjson-glib-1.0-0,libjson-glib-1.0-common,libkeyutils1,libldap-2.4-2,libldap-common,liblognorm5,liblvm2cmd2.03,libmariadb3,libmount1,libnettle6,libnss3,libpam-systemd,libperl5.28,libprelude23,libprocps7,libpulse0,libpython2.7,libpython2.7-minimal,libpython2.7-stdlib,libpython3.7,libpython3.7-minimal,libpython3.7-stdlib,libreadline7,librest-0.7-0,librtmp1,libseccomp2,libsemanage1,libsemanage-common,libsensors5,libsepol1,libsensors-config,libsgutils2-2,libsigsegv2,libslang2-modules,libsm6,libsmartcols1,libsndfile1,libsoup2.4-1,libsoup-gnome2.4-1,libss2, libssh,libssh,libssl1.1,libstatgrab10,libsysfs2,libsystemd0,libtasn1-6,libudev1,libunistring2,liburcu6,libuuid1,libusb-0.1-4,libusb-1.0-0,libwebpdemux2,libxi6,linux-libc-dev,lm-sensors,lvm2,mariadb-common,mount,multipath-tools,pcscd,pcsc-tools,perl,perl-base,perl-modules-5.28,prelink,procps,python2.7,python2.7-minimal,python3.7,python3.7-minimal,readline-common,resource-agents,rng-tools,rpcbind,samhain,sg3-utils,sg3-utils-udev,shared-mime-info,strace, sysfsutils,syslog-ng,syslog-ng-core,syslog-ng-mod-journal,syslog-ng-mod-mongodb,	Exhibit 5

Free software component	License agreement
syslog-ng-mod-sql,systemd,systemd-sysv,time,trace-cmd,traceroute,udev,util-linux,valgrind,vim,vim-common,vim-runtime,vim-tiny,wget,xfsprogs,xxd,zip, libts-bin,libts0,libnss3-tools	
adwaita-icon-theme,auditd,base-files,bc,binutils,binutils-common,binutils-dev,binutils-x86-64-linux-gnu,bsdutils,comerr-dev,coreutils,cpio,curl,e2fsprogs,elfutils,fdisk,gawk,gcc-8-base,gdb,gettext-base,gir1.2-pango-1.0,gpgv,grub2,iso-codes,libasm1,libaudit1,libaudit-common,libauparse0,libbinutils,libblkid1,libc6,libc6-dbg,libc6-dev,libcairo2,libcairo-gobject2,libc-bin,libc-dev-bin,libcodec2-0.8.1,libcom-err2,libcurl3-gnutls,libcurl4,libdw1,libelf1,libfdisk1,libext2fs-dev, libglib-object-introspection-perl,libglib-perl,libgmp10,libgnutls30,libgpg-error0,libhogweed4,libidn11,libidn2-0,libmount1,libmpfr6,libnettle6,libopts25,libperl5.28,libprelude23,libsmartcols1,libss2,libunistring2,libuuid1,locales-all,mount,nano,perl,perl-base,perl-modules-5.28,tar,util-linux	Exhibit 6
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x11-common	Exhibit 865
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```
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```
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```

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[Exhibit-2]

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

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

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

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

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

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

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

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

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[Exhibit-5]

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

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

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

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[Exhibit-6]

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Colin Plumb - md5.cpp, md5mac.cpp
Seal Woods - rc6.cpp
Chris Morgan - rijndael.cpp
Paulo Baretto - rijndael.cpp, skipjack.cpp, square.cpp
Richard De Moliner - safer.cpp
Matthew Skala - twofish.cpp
Kevin Springle - camellia.cpp, shacal2.cpp, ttnmac.cpp, whirlpool.cpp, ripemd.cpp

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Package rc2 implements the RC2 cipher

<https://www.ietf.org/rfc/rfc2268.txt>
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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 <ftp://ds.internic.net/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](ftp://ds.internic.net/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](ftp://ds.internic.net/rfc/rfc1952.txt) (gzip format).

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This implementation is based on a design by John Brooks (IBM Pok) which uses the z/OS sockets async i/o facility. When a socket is added to the pollset, an async poll is issued for that individual socket. It specifies that the kernel should send an IPC message when the socket becomes ready. The IPC messages are sent to a single message queue that is part of the pollset. apr_pollset_poll waits on the arrival of IPC messages or the specified timeout.

Since z/OS does not support async i/o for pipes or files at present, this implementation falls back to using ordinary poll() when APR_POLLSET_THREADSAFE is unset.

Greg Ames
Apr-12

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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The crypt_blowfish homepage is:

<http://www.openwall.com/crypt/>

This code comes from John the Ripper password cracker, with reentrant and crypt(3) interfaces added, but optimizations specific to password cracking removed.

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This implementation is mostly compatible with OpenBSD's bcrypt.c (prefix \$2a\$) by Niels Provos <provos at citi.umich.edu>, and uses some of his ideas. The password hashing algorithm was designed by David Mazieres <dm at lcs.mit.edu>. For more information on the level of compatibility, prefer refer to the comments in BF_set_key() below and to the included crypt(3) man page.

There's a paper on the algorithm that explains its design decisions:

<http://www.usenix.org/events/usenix99/provos.html>

Some of the tricks in BF_ROUND might be inspired by Eric Young's Blowfish library (I can't be sure if I would think of something if I hadn't seen his code).

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The `apr_vsnprintf/apr_snprintf` functions are based on, and used with the permission of, the `SIO stdio-replacement strx_*` functions by Panos Tsirigotis <panos@alumni.cs.colorado.edu> for `xinetd`.

`test_limits.c`

A simple program for sending abusive requests to a server, based on the `sioux.c` exploit code that this nimrod posted (see below). Roy added options for testing long header fieldsize (`-t h`), long request-lines (`-t r`), and a long request body (`-t b`).

FreeBSD 2.2.x, FreeBSD 3.0, IRIX 5.3, IRIX 6.2:

```
gcc -o test_limits test_limits.c
```

Solaris 2.5.1:

```
gcc -o test_limits test_limits.c -lsocket -lnsl
```

Message-ID: <861zqspvtw.fsf@niobe.ewox.org>

Date: Fri, 7 Aug 1998 19:04:27 +0200

Sender: Bugtraq List <BUGTRAQ@netspace.org>

From: Dag-Erling Coidan =?ISO-8859-1?Q?Sm=F8rgrav?= <finrod@EWOX.ORG>

Subject: YA Apache DoS attack

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Apache HTTP Server

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The source for the has is derived CommonCrypto files CommonDigest.h, md32_common.h, md5_locl.h, md5_locl.h, and openssl/md5.h.

The following changes have been made to the original sources:

- replaced CC_LONG w/ mDNsu32
- replaced CC_MD5* with MD5*
- replaced CC_LONG w/ mDNsu32, removed conditional #defines from md5.h
- removed extern decls for MD5_Init/Update/Final from CommonDigest.h
- removed APPLE_COMMON_DIGEST specific #defines from md5_locl.h

Note: machine archetecure specific conditionals from the original sources are turned off, but are left in the code to aid in platform-specific optimizations and debugging.

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CommonDigest.c - APSL

md32_Common.h

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md5_dgst.c, md5_locl.h

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Written by Mark Wiebe (mwwiebe@gmail.com)

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Provide multidimensional arrays as a basic object type in python.

Based on Original Numeric implementation

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with contributions from many Numeric Python developers 1995-2004

Heavily modified in 2005 with inspiration from Numarray

by

Travis Oliphant, oliphant@ee.byu.edu

Brigham Young University

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Numarray design (which provided guidance) by

Space Science Telescope Institute

(J. Todd Miller, Perry Greenfield, Rick White)

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Ryan Juckett's original code was under the Zlib license; he gave numpy permission to include it under the MIT license instead.

This file contains low-level loops for data type transfers. In particular the function `PyArray_GetDTypeTransferFunction` is implemented here.

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Python Multiarray Module -- A useful collection of functions for creating and using ndarrays

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Modified for numpy in 2005

Travis E. Oliphant
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This file implements most of the main API functions of NumPy's `nditer`. This excludes functions specialized using the templating system.

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This package was initially written for numarray by Paul F. Dubois
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In 2006, the package was completely rewritten by Pierre Gerard-Marchant
(University of Georgia) to make the MaskedArray class a subclass of ndarray,
and to improve support of structured arrays.

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Adapted for numpy_core 2005 by Travis Oliphant and (mainly) Paul Dubois.
Subclassing of the base `ndarray` 2006 by Pierre Gerard-Marchant
(pgmdevlist_AT_gmail_DOT_com)
Improvements suggested by Reggie Dugard (reggie_AT_merfinllc_DOT_com)

.. moduleauthor:: Pierre Gerard-Marchant

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<https://gist.github.com/imneme/flf7821f07cf76504a97f6537c818083>

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* Reference:
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pyCMSdll, taking care of some of the more complex handling of the direct
pyCMSdll functions, as well as error-checking and making sure that all
relevant data is kept together.

While it is possible to call pyCMSdll functions directly, it's not highly
recommended.

```
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# For RLE encoded files, the 32byte header is followed by a scan
# line map, encoded as one 16bit word of encoded byte length per
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```

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pyparser -- A C parser in Python

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US National Labs (Los Alamos, Livermore, Sandia) ASC Parallel

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National Alliance for Medical Image Computing (NAMIC) is funded by the National Institutes of Health through the NIH Roadmap for Medical Research, Grant U54 EB005149.

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Adrian Kennard, Andrews & Arnold Ltd
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# Petr Pá-sa <petr.pisar@atlas.cz>, 2007, 2008, 2009, 2010, 2011, 2012, 2013.
# Petr Pá-sa <petr.pisar@atlas.cz>, 2014, 2015, 2016, 2017, 2018.
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#
# Maxim V. Dziumanenko <mvd@mylinux.com.ua>, 2004-2006.
# Yuri Chornoivan <yurchor@ukr.net>, 2012, 2013, 2014, 2015, 2016, 2017, 2018.

```

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Phan Vinh Thinh <teppi82@gmail.com>, 2005-2007.
Clytie Siddall <clytie@riverland.net.au>, 2007-2010.
Trá»n Ngá» c Quá»n <vnwildman@gmail.com>, 2012-2014, 2015.

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Ray Wang <wanglei1123@gmail.com>, 2008.
Wylmer Wang <wantinghard@gmail.com>, 2012, 2013, 2014, 2015, 2016.

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Wei-Lun Chao <bluebat@member.fsf.org>, 2010.

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Written by Karel Zak <kzak@redhat.com> [February 2018]

Written by Karel Zak <kzak@redhat.com>
Petr Uzel <petr.uzel@suse.cz>

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Based on the original code from fdisk
written by Bernhard Fastenrath (fasten@informatik.uni-bonn.de)
with code from the NetBSD disklabel command.

Arnaldo Carvalho de Melo <acme@conectiva.com.br>, March 1999
David Huggins-Daines <dhuggins@linuxcare.com>, January 2000

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This is a re-written version for libfdisk, the original was fdisksgilabel.c
from util-linux fdisk, by:

Andreas Neuper, Sep 1998,
Arnaldo Carvalho de Melo <acme@conectiva.com.br>, Mar 1999,
Phillip Kesling <pkesling@sgi.com>, Mar 2003.

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Based on original code from fdisk:

Jakub Jelinek (jj@sunsite.mff.cuni.cz), July 1996

Merged with fdisk for other architectures, aeb, June 1998.

Arnaldo Carvalho de Melo <acme@conectiva.com.br> Mar 1999, Internationalization

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\$Author: aebr \$

\$Revision: 1.18 \$

\$Date: 1998/06/11 22:30:11 \$

Updated Thu Oct 12 09:19:26 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dcs.warwick.ac.uk>

Hacked by Peter Breitenlohner, peb@mppmu.mpg.de,
to remove trailing empty fields. Oct 5, 96.

1999-02-22 Arkadiusz MiÅ›kiewicz <misiak@pld.ORG.PL>
- added Native Language Support

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\$Date: 1998/06/11 22:30:14 \$

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patches from Zefram <A.Main@dcs.warwick.ac.uk>

Updated Mon Jul 1 18:46:22 1996 by janl@math.uio.no with security
suggestion from Zefram. Disallowing users with shells not in /etc/shells
from changing their shell.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

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Michael Glad (glad@daimi.dk)
Computer Science Department, Aarhus University, Denmark
1990-07-04

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Updated Thu Nov 9 21:58:53 1995 by Martin Schulze
<joey@finlandia.infodrom.north.de>. Support for vigr.

Martin Schulze's patches adapted to Util-Linux by Nicolai Langfeldt.

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
Sun Mar 21 1999 - Arnaldo Carvalho de Melo <acme@conectiva.com.br>
- fixed strerr(errno) in gettext calls

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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
2011-08-12 Davidlohr Bueso <dave@gnu.org>
- added \$PATH lookup

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fallocate - utility to use the fallocate system call

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Karel Zak <kzak@redhat.com>

cvtnum routine taken from xfsprogs,
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Modified Mon Jul 1 18:14:10 1996, janl@ifi.uio.no, writing to stdout

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Adaption to Linux by Peter MacDonald.

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Beep modifications by Christophe Jolif (cjolif@storm.gatelink.fr.net)

Sanity increases by Caffeine Addict [sic].

Powersave features by todd j. derr <tjd@wordsmith.org>

Converted to terminfo by Kars de Jong (jongk@cs.utwente.nl)

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
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Modified for Linux, Mon Mar 8 18:16:24 1993, faith@cs.unc.edu
Wed Jun 22 21:41:56 1994, faith@cs.unc.edu:
Added fix from Mike Grupenhoff (kashmir@umiacs.umd.edu)
Mon Jul 1 17:01:39 MET DST 1996, janl@math.uio.no:

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Wed Jun 22 22:15:41 1994, faith@cs.unc.edu: Added internationalization patches from Andries.Brouwer@cw.nl

Wed Sep 14 22:31:17 1994: patches from Carl Christofferson (cchris@connected.com)

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Modified for Linux by Charles Hannum (mycroft@gnu.ai.mit.edu)
and Brian Koehmstedt (bpk@gnu.ai.mit.edu)

Wed Sep 14 22:26:00 1994: Patch from bjdouma <bjdouma@xs4all.nl> to handle last line that has no newline correctly.

3-Jun-1998: Patched by Nicolai Langfeldt to work better on Linux:
Handle any-length-lines. Code copied from util-linux' setpwnam.c

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[Exhibit_168]

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

[Exhibit_170]

GPLV2('certdata2pem.py', 'update-ca-certificates')

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# Jiří Pavlovsk <pavlovsk@ff.cuni.cz>, 1999 - 2001.
# Petr Psar <petr.pisar@atlas.cz>, 2006.
# Vladimr Michl <vladimir.michl@seznam.cz>, 2007
# Petr Psar <petr.pisar@atlas.cz>, 2007, 2008, 2009, 2010, 2011, 2012, 2013.
# Petr Psar <petr.pisar@atlas.cz>, 2014, 2015, 2016, 2017, 2018.
#
# eject tool messages merged from eject-2.1.5:
# Jeff Tranter <tranter@pobox.com>, 2005.
# Marek Eernock <marek@manet.cz>, 2006.
#
# Danish translation util-linux.
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# Claus Srensen <cs@klid.dk>, 2000.
# Keld Jrn Simonsen <keld@dkuug.dk>, 2000.
# Claus Hindsgaul <claus_h@image.dk>, 2001-2002, 2004, 2005.
# Joe Hansen <joealdton2@yahoo.dk>, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017.
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# Beth Powell <bpowell@turbolinux.com>, 2000.
# Santiago Vila Doncel <sanvila@unex.es>, 2001, 2002, 2003, 2004, 2010, 2014.
# Antonio Ceballos Roa <aceballos@gmail.com>, 2014, 2015, 2016, 2017, 2018.

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# Meelis Roos <mroos@linux.ee>, 2002
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# Mikel Olasagasti Uranga <hey_neken@mundurat.net>, 2005, 2009, 2010.
# , fuzzy
#
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# Lauri Nurmi <lanurmi@iki.fi>, 2002-2018.
# Tommi Nieminen <translator@legisign.org>, 2017.
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# ja levittää vapaasti edellyttäen, että tätä otsikkoa
# ei poisteta, ja muutetut versiot merkitään muutetuiksi.
#
# ***
# "signature" tarvitsee paremman suomennoksen kuin "allekirjoitus".
# ***
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# Michel Robitaille <robitail@IRO.UMontreal.CA>, 1996-2006.
# Nicolas Provost <nprovost@quadriv.com>, 2008-2009.
# Milan Bouchet-Valat <nalimilan@club.fr>, 2010.
# David PrÃ©vot <david@tilapin.org>, 2010-2015.
# StÃ©phane Aulery <lkppo@free.fr>, 2016, 2017.
# Frédéric Marchal <fmarchal@perso.be>, 2018.
#
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```

[illegible]

```

# niet in de imperatief of de infinitief.
#
# Woordgebruik:
# block    -> blok
# sector   -> sector
# cylinder -> cilinder
# volume   -> volumen
# filesystem type -> bestandssysteemsoort
# partition type  -> partitietype
# (inode blijft onvertaald)
#
# Berichtvertalingen die met ### beginnen zijn in feite debug-meldingen
# en de bijbehorende msgids zouden niet in dit bestand moeten voorkomen.
#
# Taco Witte <tcwite@cs.uu.nl>, 2002, 2003.
# Luk Claes <luk.claes@ugent.be>, 2005.
# Benno Schulenberg <benno@vertaalt.nl>, 2006, 2007, 2008, 2009, 2010, 2011.
# Benno Schulenberg <benno@vertaalt.nl>, 2012, 2013, 2014, 2015, 2016.

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# Jakub Bogusz <qboosh@pld-linux.org>, 2009-2018.
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# Ricardo Stefani <ricardos@francanet.com.br>, 1999
# Marcus Moreira <marcusms@frb.br>
# Paulo Henrique R Pinheiro <nulo@sul.com.br>
# Alvaro Antunes <alvaro@netpar.com.br>, 2000
# Rodrigo Stulzer Lopes <rodrigo@conectiva.com.br>, 2000-2001
# Rafael Fontenelle <rafaelff@gnome.org>, 2013-2014, 2016-2018.

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# Pavel Maryanov <acid@jack.kiev.ua>, 2003, 2004, 2005, 2006, 2015.
# Evgeniy Yakushev <yen81@mail.ru>, 2015.
#
# -*- mode: po -*- Slovenian translation for util-linux package.
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# Primož Peterlin <primoz.peterlin@biofiz.mf.uni-lj.si>, 2002, 2003.
# Simon Mihevc <simonmihevc@volja.net>, 2005, 2006
# $Id: util-linux-2.13-pre6.sl.po,v 1.3 2006/03/04 19:29:34 peterlin Exp $
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# Daniel Nylander <po@danielnylander.se>, 2007.
# Sebastian Rasmussen <sebras@gmail.com>, 2016, 2017, 2018.
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# Nilgün Belma Bugüner <nilgun@buguner.name.tr>, 2001, ..., 2006.
# Alper Tekinalp <alper.tekinalp@gmail.com>, 2017.
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# Maxim V. Dziuromanenko <mvd@mylinux.com.ua>, 2004-2006.
# Yuri Chornoivan <yurchor@ukr.net>, 2012, 2013, 2014, 2015, 2016, 2017, 2018.

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# Phan Vinh Thinh <teppi82@gmail.com>, 2005-2007.
# Clytie Siddall <clytie@riverland.net.au>, 2007-2010.
# Trá»n Ngá»c Quắ»n <vnwildman@gmail.com>, 2012-2014, 2015.
#
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# Ray Wang <wanglei1123@gmail.com>, 2008.
# Wylmer Wang <wantinghard@gmail.com>, 2012, 2013, 2014, 2015, 2016.

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# Wei-Lun Chao <bluebat@member.fsf.org>, 2010.

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written by Bernhard Fastenrath (fasten@informatik.uni-bonn.de)
with code from the NetBSD disklabel command.

Arnaldo Carvalho de Melo <acme@conectiva.com.br>, March 1999
David Huggins-Daines <dhuggins@linuxcare.com>, January 2000

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GUID Partition Table (GPT) support. Based on UEFI Specs 2.3.1
Chapter 5: GUID Partition Table (GPT) Disk Layout (Jun 27th, 2012).
Some ideas and inspiration from GNU parted and gptfdisk.

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This is a re-written version for libfdisk, the original was fdisksgilabel.c
from util-linux fdisk, by:

Andreas Neuper, Sep 1998,
Arnaldo Carvalho de Melo <acme@conectiva.com.br>, Mar 1999,
Phillip Kesling <pkesling@sgi.com>, Mar 2003.

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Based on original code from fdisk:

Jakub Jelinek (jj@sunsite.mff.cuni.cz), July 1996

Merged with fdisk for other architectures, aeb, June 1998.

Arnaldo Carvalho de Melo <acme@conectiva.com.br> Mar 1999, Internationalization

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\$Revision: 1.18 \$

\$Date: 1998/06/11 22:30:11 \$

Updated Thu Oct 12 09:19:26 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Hacked by Peter Breitenlohner, peb@mppmu.mpg.de,
to remove trailing empty fields. Oct 5, 96.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

(c) 1994 by salvatore valente <svalente@athena.mit.edu>

(c) 2012 by Cody Maloney <cmaloney@theoreticalchaos.com>

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\$Author: aebr \$

\$Revision: 1.19 \$

\$Date: 1998/06/11 22:30:14 \$

Updated Thu Oct 12 09:33:15 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Updated Mon Jul 1 18:46:22 1996 by janl@math.uio.no with security suggestion from Zefram. Disallowing users with shells not in /etc/shells from changing their shell.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

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Michael Glad (glad@daimi.dk)
Computer Science Department, Aarhus University, Denmark
1990-07-04

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Updated Thu Oct 12 09:56:55 1995 by faith@cs.unc.edu with security patches from Zefram <A.Main@dcs.warwick.ac.uk>

Updated Thu Nov 9 21:58:53 1995 by Martin Schulze
<joe@finlandia.infodrom.north.de>. Support for vigr.

Martin Schulze's patches adapted to Util-Linux by Nicolai Langfeldt.

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
Sun Mar 21 1999 - Arnaldo Carvalho de Melo <acme@conectiva.com.br>
- fixed strerr(errno) in gettext calls

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>

- added Native Language Support

2011-08-12 Davidlohr Bueso <dave@gnu.org>

- added \$PATH lookup

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Modified Fri Mar 10 20:27:19 1995, faith@cs.unc.edu, for Linux

Modified Mon Jul 1 18:14:10 1996, janl@ifi.uio.no, writing to stdout

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Adaption to Linux by Peter MacDonald.

Enhancements by Mika Liljeberg (liljeber@cs.Helsinki.FI)

Beep modifications by Christophe Jolif (cjolif@storm.gatelink.fr.net)

Sanity increases by Cafeine Addict [sic].

Powersave features by todd j. derr <tjd@wordsmith.org>

Converted to terminfo by Kars de Jong (jongk@cs.utwente.nl)

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>

- added Native Language Support

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Modified for Linux, Mon Mar 8 18:16:24 1993, faith@cs.unc.edu

Wed Jun 22 21:41:56 1994, faith@cs.unc.edu:

Added fix from Mike Grupenhoff (kashmir@umiacs.umd.edu)

Mon Jul 1 17:01:39 MET DST 1996, janl@math.uio.no:

Written by Sami Kerola <kerolasa@iki.fi>

Written by Federico Bento <up201407890@alunos.dcc.fc.up.pt>

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Wed Jun 22 22:15:41 1994, faith@cs.unc.edu: Added internationalization patches from Andries.Brouwer@cw.nl
Wed Sep 14 22:31:17 1994: patches from Carl Christofferson (cchris@connected.com)

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Modified for Linux by Charles Hannum (mycroft@gnu.ai.mit.edu)
and Brian Koehrmstedt (bpk@gnu.ai.mit.edu)

Wed Sep 14 22:26:00 1994: Patch from bjdouma <bjdouma@xs4all.nl> to handle
last line that has no newline correctly.

3-Jun-1998: Patched by Nicolai Langfeldt to work better on Linux:
Handle any-length-lines. Code copied from util-linux' setpwnam.c

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Written by Karel Zak <kzak@redhat.com>
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GPLV2('gettext.h',)

GPLV3('parse.c', 'parse.h')

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%%%%%%%%%
% GRUB2 gfxmenu default theme by Daniel Tschudi %
%%%%%%%%%

Version history:

0.99: first test release

Introduction:

This shall be the default theme for the GRUB2. As the theme format seems to be more stable then before, there is hope that this theme will work in future version of GRUB2 as well.

Usage:

The font (c.f. theme.txt) required by this theme are not supplied with it, as they should be generated out of the newest available version at compile time.

Remarks:

All images of the theme have been made by the author using GIMP.

This theme does not contain any text in a fixed language.

As soon as gfxmenu allows it, this theme should be updated to support localised layouts, such as different position for the scrollbar depending on reading direction.

In order to speed up the loading process on smaller resolutions, the starfield.png might be converted in to .jpeg images of different resolution.

This theme is inspired by the work and themes of Jo Shields.

Do not not use the m-word near the ape, ook!

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This configure script is complicated, because GRUB needs to deal
with three potentially different types:

build -- the environment for building GRUB

host -- the environment for running utilities

target -- the environment for running GRUB

In addition, GRUB needs to deal with a platform specification
which specifies the system running GRUB, such as firmware.

This is necessary because the target type in autoconf does not
describe such a system very well.

The current strategy is to use variables with no prefix (such as
CC, CFLAGS, etc.) for the host and target type, variables with
prefix "BUILD_" (such as BUILD_CC, BUILD_CFLAGS, etc.) for the
build type, variables with prefix "HOST_" (such as HOST_CC,
HOST_CFLAGS, etc.) for the host type and variables with the prefix
"TARGET_" (such as TARGET_CC, TARGET_CFLAGS, etc.) are used for
the target type. See INSTALL for full list of variables and
description of the relationships between them.

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Yoshinori K. Okuji designed and implemented the initial version.

Jeroen Dekkers added initrd support, Multiboot support, and fixed bugs
in ext2fs.

Marco Gerards added ext2fs support, grub-emu, a new command-line
engine, and fixed many bugs.

Omniflux added terminfo and serial support.

Vincent Pelletier added Sparc64 support.

Hollis Blanchard implemented many parts of PowerPC support.

Tomas Ebenlendr added the command chainloader into the normal mode,
fixed some bugs.

Guillem Jover merged architecture-independent ELF support code.

Vesa Jaaskelainen added VBE support.

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%%%%%%%%%
% GRUB2 gfxmenu default theme by Daniel Tschudi %

%%%

Version history:

0.99: first test release

Introduction:

This shall be the default theme for the GRUB2. As the theme format seems to be more stable then before, there is hope that this theme will work in future version of GRUB2 as well.

Usage:

The font (c.f. theme.txt) required by this theme are not supplied with it, as they should be generated out of the newest available version at compile time.

Remarks:

All images of the theme have been made by the author using GIMP.
This theme does not contain any text in a fixed language.
As soon as gfxmenu allows it, this theme should be updated to support localised layouts, such as different position for the scrollbar depending on reading direction.
In order to speed up the loading process on smaller resolutions, the starfield.png might be converted in to .jpeg images of different resolution.
This theme is inspired by the work and themes of Jo Shields.
Do not not use the m-word near the ape, ook!

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This configure script is complicated, because GRUB needs to deal
with three potentially different types:

build -- the environment for building GRUB
host -- the environment for running utilities
target -- the environment for running GRUB

In addition, GRUB needs to deal with a platform specification
which specifies the system running GRUB, such as firmware.
This is necessary because the target type in autoconf does not
describe such a system very well.

The current strategy is to use variables with no prefix (such as
CC, CFLAGS, etc.) for the host and target type, variables with
prefix "BUILD_" (such as BUILD_CC, BUILD_CFLAGS, etc.) for the
build type, variables with prefix "HOST_" (such as HOST_CC,
HOST_CFLAGS, etc.) for the host type and variables with the prefix
"TARGET_" (such as TARGET_CC, TARGET_CFLAGS, etc.) are used for
the target type. See INSTALL for full list of variables and
description of the relationships between them.

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Yoshinori K. Okuji designed and implemented the initial version.
Jeroen Dekkers added initrd support, Multiboot support, and fixed bugs in ext2fs.
Marco Gerards added ext2fs support, grub-emu, a new command-line engine, and fixed many bugs.
Omniflux added terminfo and serial support.
Vincent Pelletier added Sparc64 support.
Hollis Blanchard implemented many parts of PowerPC support.
Tomas Ebenlendr added the command chainloader into the normal mode, fixed some bugs.
Guillem Jover merged architecture-independent ELF support code.
Vesa Jaaskelainen added VBE support.

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%%
% GRUB2 gfxmenu default theme by Daniel Tschudi %
%%

Version history:

0.99: first test release

Introduction:

This shall be the default theme for the GRUB2. As the theme format seems to be more stable then before, there is hope that this theme will work in future version of GRUB2 as well.

Usage:

The font (c.f. theme.txt) required by this theme are not supplied with it, as they should be generated out of the newest available version at compile time.

Remarks:

All images of the theme have been made by the author using GIMP.
This theme does not contain any text in a fixed language.
As soon as gfxmenu allows it, this theme should be updated to support localised layouts, such as different position for the scrollbar depending on reading direction.
In order to speed up the loading process on smaller resolutions, the starfield.png might be converted in to .jpeg images of different resolution.
This theme is inspired by the work and themes of Jo Shields.
Do not not use the m-word near the ape, ook!

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This configure script is complicated, because GRUB needs to deal with three potentially different types:

build -- the environment for building GRUB
host -- the environment for running utilities

target -- the environment for running GRUB

In addition, GRUB needs to deal with a platform specification which specifies the system running GRUB, such as firmware. This is necessary because the target type in autoconf does not describe such a system very well.

The current strategy is to use variables with no prefix (such as CC, CFLAGS, etc.) for the host and target type, variables with prefix "BUILD_" (such as BUILD_CC, BUILD_CFLAGS, etc.) for the build type, variables with prefix "HOST_" (such as HOST_CC, HOST_CFLAGS, etc.) for the host type and variables with the prefix "TARGET_" (such as TARGET_CC, TARGET_CFLAGS, etc.) are used for the target type. See INSTALL for full list of variables and description of the relationships between them.

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Yoshinori K. Okuji designed and implemented the initial version.
Jeroen Dekkers added initrd support, Multiboot support, and fixed bugs in ext2fs.

Marco Gerards added ext2fs support, grub-emu, a new command-line engine, and fixed many bugs.

Omniflux added terminfo and serial support.

Vincent Pelletier added Sparc64 support.

Hollis Blanchard implemented many parts of PowerPC support.

Tomas Ebenlendr added the command chainloader into the normal mode, fixed some bugs.

Guillem Jover merged architecture-independent ELF support code.

Vesa Jaaskelainen added VBE support.

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@end display

@enumerate 0

@item

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%%%%%%%%%
% GRUB2 gfxmenu default theme by Daniel Tschudi %
%%%%%%%%%

Version history:

0.99: first test release

Introduction:

This shall be the default theme for the GRUB2. As the theme format seems to be more stable then before, there is hope that this theme will work in future version of GRUB2 as well.

Usage:

The font (c.f. theme.txt) required by this theme are not supplied with it, as they should be generated out of the newest available version at compile time.

Remarks:

All images of the theme have been made by the author using GIMP.

This theme does not contain any text in a fixed language.

As soon as gfxmenu allows it, this theme should be updated to support localised layouts, such as different position for the scrollbar depending on reading direction.

In order to speed up the loading process on smaller resolutions, the starfield.png might be converted in to .jpeg images of different resolution.

This theme is inspired by the work and themes of Jo Shields.

Do not not use the m-word near the ape, ook!

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This configure script is complicated, because GRUB needs to deal
with three potentially different types:

build -- the environment for building GRUB
host -- the environment for running utilities
target -- the environment for running GRUB

In addition, GRUB needs to deal with a platform specification
which specifies the system running GRUB, such as firmware.
This is necessary because the target type in autoconf does not
describe such a system very well.

The current strategy is to use variables with no prefix (such as
CC, CFLAGS, etc.) for the host and target type, variables with
prefix "BUILD_" (such as BUILD_CC, BUILD_CFLAGS, etc.) for the
build type, variables with prefix "HOST_" (such as HOST_CC,
HOST_CFLAGS, etc.) for the host type and variables with the prefix
"TARGET_" (such as TARGET_CC, TARGET_CFLAGS, etc.) are used for
the target type. See INSTALL for full list of variables and
description of the relationships between them.

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Software Foundation:

Yoshinori K. Okuji designed and implemented the initial version.
Jeroen Dekkers added initrd support, Multiboot support, and fixed bugs
in ext2fs.

Marco Gerards added ext2fs support, grub-emu, a new command-line
engine, and fixed many bugs.

Omniflux added terminfo and serial support.

Vincent Pelletier added Sparc64 support.

Hollis Blanchard implemented many parts of PowerPC support.

Tomas Ebenlendr added the command chainloader into the normal mode,
fixed some bugs.

Guillem Jover merged architecture-independent ELF support code.

Vesa Jaaskelainen added VBE support.

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%%%%%%%%%
% GRUB2 gfxmenu default theme by Daniel Tschudi %
%%%%%%%%%

Version history:

0.99: first test release

Introduction:

This shall be the default theme for the GRUB2. As the theme format seems to be more stable then before, there is hope that this theme will work

in future version of GRUB2 as well.

Usage:

The font (c.f. theme.txt) required by this theme are not supplied with it,
as they should be generated out of the newest available version at compile time.

Remarks:

All images of the theme have been made by the author using GIMP.

This theme does not contain any text in a fixed language.

As soon as gfxmenu allows it, this theme should be updated to support localised layouts, such as different position for the scrollbar depending on reading direction.

In order to speed up the loading process on smaller resolutions, the starfield.png might be converted in to .jpeg images of different resolution.

This theme is inspired by the work and themes of Jo Shields.

Do not not use the m-word near the ape, ook!

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PARTICULAR PURPOSE.

This configure script is complicated, because GRUB needs to deal
with three potentially different types:

build -- the environment for building GRUB

host -- the environment for running utilities

target -- the environment for running GRUB

In addition, GRUB needs to deal with a platform specification
which specifies the system running GRUB, such as firmware.

This is necessary because the target type in autoconf does not
describe such a system very well.

The current strategy is to use variables with no prefix (such as
CC, CFLAGS, etc.) for the host and target type, variables with
prefix "BUILD_" (such as BUILD_CC, BUILD_CFLAGS, etc.) for the
build type, variables with prefix "HOST_" (such as HOST_CC,
HOST_CFLAGS, etc.) for the host type and variables with the prefix
"TARGET_" (such as TARGET_CC, TARGET_CFLAGS, etc.) are used for
the target type. See INSTALL for full list of variables and
description of the relationships between them.

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Software Foundation:

Yoshinori K. Okuji designed and implemented the initial version.

Jeroen Dekkers added initrd support, Multiboot support, and fixed bugs
in ext2fs.

Marco Gerards added ext2fs support, grub-emu, a new command-line
engine, and fixed many bugs.

Omniflux added terminfo and serial support.
Vincent Pelletier added Sparc64 support.
Hollis Blanchard implemented many parts of PowerPC support.
Tomas Ebenlendr added the command chainloader into the normal mode,
fixed some bugs.
Guillem Jover merged architecture-independent ELF support code.
Vesa Jaaskelainen added VBE support.

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GPLV2('service', 'invoke-rc.d')

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[Exhibit_259]

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[Exhibit_260]

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Beware that some of this code is subtly aware of the way operator precedence is structured in regular expressions. Serious changes in regular-expression syntax might require a total rethink.

*** NOTE: this code has been altered slightly for use in Tcl. ***
Slightly modified by David MacKenzie to undo most of the changes for TCL.
Added regex2 with notbol parameter. -- 4/19/99 Mark Nudelman

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LGPLV2('dmx.h', 'frontend.h')

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GPLV2('test-driver', 'missing')

[Exhibit_277]

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LGPLV1('rtpdec_vc2hq.c',)

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GPLV2('etnaviv_drm.h')

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Jordi Mallach <jordi@gnu.org>, 2004, 2005.

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Jiřím Pavlovskému <pavlovsk@ff.cuni.cz>, 1999 - 2001.

Petr Pásek <petr.pisar@atlas.cz>, 2006.

Vladimír Michl <vladimir.michl@seznam.cz>, 2007

Petr Pásek <petr.pisar@atlas.cz>, 2007, 2008, 2009, 2010, 2011, 2012, 2013.


```

# Petr PÄ-saÄ™ <petr.pisar@atlas.cz>, 2014, 2015, 2016, 2017, 2018.
#
# eject tool messages merged from eject-2.1.5:
# Jeff Tranter <tranter@pobox.com>, 2005.
# Marek ÄEernockÄ½ <marek@manet.cz>, 2006.
#
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# Keld JÄ,rn Simonsen <keld@dkuug.dk>, 2000.
# Claus Hindsgaul <claus_h@image.dk>, 2001-2002, 2004, 2005.
# Joe Hansen <joedalton2@yahoo.dk>, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017.
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# Beth Powell <bpowell@turbolinux.com>, 2000.
# Santiago Vila Doncel <sanvila@unex.es>, 2001, 2002, 2003, 2004, 2010, 2014.
# Antonio Ceballos Roa <aceballos@gmail.com>, 2014, 2015, 2016, 2017, 2018.
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# Meelis Roos <mroos@linux.ee>, 2002
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# Mikel Olasagasti Uranga <hey_neken@mundurat.net>, 2005, 2009, 2010.
# , fuzzy
#
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#
# ***
# "signature" tarvitsee paremman suomennoksen kuin "allekirjoitus".
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# Michel Robitaille <robitail@IRO.UMontreal.CA>, 1996-2006.
# Nicolas Provost <nprovost@quadriv.com>, 2008-2009.
# Milan Bouchet-Valat <nalimilan@club.fr>, 2010.
# David PrÃ©vot <david@tilapin.org>, 2010-2015.
# StÃ©phane Aulery <lkppo@free.fr>, 2016, 2017.
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# FIRST AUTHOR <EMAIL@ADDRESS>, 2010.
# Fran Dieguez <frandieguez@ubuntu.com>, 2010.
# Fran DiÃ©guez <frandieguez@ubuntu.com>, 2010.
#
# Translation of util-linux to Croatian.

```

[illegible]

```

# block    -> blok
# sector   -> sector
# cylinder -> cilinder
# volume    -> volumen
# filesystem type -> bestandssysteemsoort
# partition type  -> partitietype
# (inode blijft onvertaald)
#
# Berichtvertalingen die met ### beginnen zijn in feite debug-meldingen
# en de bijbehorende msgids zouden niet in dit bestand moeten voorkomen.
#
# Taco Witte <tcwite@cs.uu.nl>, 2002, 2003.
# Luk Claes <luk.claes@ugent.be>, 2005.
# Benno Schulenberg <benno@vertaalt.nl>, 2006, 2007, 2008, 2009, 2010, 2011.
# Benno Schulenberg <benno@vertaalt.nl>, 2012, 2013, 2014, 2015, 2016.

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# Andrzej Krzysztofowicz <ankry@mif.pg.gda.pl>, 2006.
# Jakub Bogusz <qboosh@pld-linux.org>, 2009-2018.
#
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# Arnaldo Carvalho de Melo <acme@conectiva.com.br>, 1999-2000
# Ricardo Stefani <ricardos@francanet.com.br>, 1999
# Marcus Moreira <marcusms@frb.br>
# Paulo Henrique R Pinheiro <nulo@sul.com.br>
# Alvaro Antunes <alvaro@netpar.com.br>, 2000
# Rodrigo Stulzer Lopes <rodrigo@conectiva.com.br>, 2000-2001
# Rafael Fontenelle <rafaelff@gnome.org>, 2013-2014, 2016-2018.

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# Pavel Maryanov <acid@jack.kiev.ua>, 2003, 2004, 2005, 2006, 2015.
# Evgeniy Yakushev <yen81@mail.ru>, 2015.
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# *- mode: po *- Slovenian translation for util-linux package.
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# Primož Peterlin <primoz.peterlin@biofiz.mf.uni-lj.si>, 2002, 2003.
# Simon Mihevc <simonmihevc@volja.net>, 2005, 2006
# $Id: util-linux-2.13-pre6.sl.po,v 1.3 2006/03/04 19:29:34 peterlin Exp $
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# Christian Rose <menthos@menthos.com>, 2001, 2002, 2003, 2004.

```

Daniel Nylander <po@danielnylander.se>, 2007.
 # Sebastian Rasmussen <sebras@gmail.com>, 2016, 2017, 2018.
 #
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 # Nilgün Belma Bugüner <nilgun@buguner.name.tr>, 2001, ..., 2006.
 # Alper Tekinalp <alper.tekinalp@gmail.com>, 2017.
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 #
 # Maxim V. Dziumanenko <mvd@mylinux.com.ua>, 2004-2006.
 # Yuri Chornoivan <yurchor@ukr.net>, 2012, 2013, 2014, 2015, 2016, 2017, 2018.

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 # Phan Vinh Thinh <teppi82@gmail.com>, 2005-2007.
 # Clytie Siddall <clytie@riverland.net.au>, 2007-2010.
 # Trã ãn Ngã»c Quã»n <vnwildman@gmail.com>, 2012-2014, 2015.
 #
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 # Ray Wang <wanglei1123@gmail.com>, 2008.
 # Wylmer Wang <wantinghard@gmail.com>, 2012, 2013, 2014, 2015, 2016.

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 # Wei-Lun Chao <bluebat@member.fsf.org>, 2010.

 GPLv1(Many files exist)

Written by Theodore Ts'o, <tytso@mit.edu>

Miquel van Smoorenburg (miquels@drinkel.ow.org) 20-Oct-1994:
 o Changed -t fstype to behave like with mount when -A (all file
 systems) or -M (like mount) is specified.
 o fsck looks if it can find the fsck.type program to decide
 if it should ignore the fs type. This way more fsck programs
 can be added without changing this front-end.
 o -R flag skip root file system.

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20.12.91 - time began. Got VM working yesterday by doing this by hand.

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Rewritten to use libblkid for util-linux
based on ideas from Karel Zak <kzak@redhat.com>

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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 high-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 operations 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

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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.

GPLV3('parse-date.c',)

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Based on the original code from fdisk
written by Bernhard Fastenrath (fasten@informatik.uni-bonn.de)
with code from the NetBSD disklabel command.

Arnaldo Carvalho de Melo <acme@conectiva.com.br>, March 1999
David Huggins-Daines <dhuggins@linuxcare.com>, January 2000

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GUID Partition Table (GPT) support. Based on UEFI Specs 2.3.1
Chapter 5: GUID Partition Table (GPT) Disk Layout (Jun 27th, 2012).
Some ideas and inspiration from GNU parted and gptfdisk.

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2013 Karel Zak <kzak@redhat.com>

This is a re-written version for libfdisk, the original was fdisksgilabel.c

from util-linux fdisk, by:

Andreas Neuper, Sep 1998,
Arnaldo Carvalho de Melo <acme@conectiva.com.br>, Mar 1999,
Phillip Kesling <pkesling@sgi.com>, Mar 2003.

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Based on original code from fdisk:

Jakub Jelinek (jj@sunsite.mff.cuni.cz), July 1996
Merged with fdisk for other architectures, acb, June 1998.
Arnaldo Carvalho de Melo <acme@conectiva.com.br> Mar 1999, Internationalization

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\$Author: aebr \$
\$Revision: 1.18 \$
\$Date: 1998/06/11 22:30:11 \$

Updated Thu Oct 12 09:19:26 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Hacked by Peter Breitenlohner, peb@mppmu.mpg.de,
to remove trailing empty fields. Oct 5, 96.

1999-02-22 Arkadiusz MiÅkiewicz <misiiek@pld.ORG.PL>
- added Native Language Support

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\$Revision: 1.19 \$
\$Date: 1998/06/11 22:30:14 \$

Updated Thu Oct 12 09:33:15 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Updated Mon Jul 1 18:46:22 1996 by janl@math.uio.no with security
suggestion from Zefram. Disallowing users with shells not in /etc/shells
from changing their shell.

1999-02-22 Arkadiusz MiÅkiewicz <misiiek@pld.ORG.PL>
- added Native Language Support

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Michael Glad (glad@daimi.dk)
Computer Science Department, Aarhus University, Denmark
1990-07-04

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Updated Thu Oct 12 09:56:55 1995 by faith@cs.unc.edu with security patches from Zefram <A.Main@dcswarwick.ac.uk>

Updated Thu Nov 9 21:58:53 1995 by Martin Schulze <joe@finlandia.infodrom.north.de>. Support for vigr.

Martin Schulze's patches adapted to Util-Linux by Nicolai Langfeldt.

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
Sun Mar 21 1999 - Arnaldo Carvalho de Melo <acme@conectiva.com.br>
- fixed strerr(errno) in gettext calls

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- added Native Language Support
2011-08-12 Davidlohr Bueso <dave@gnu.org>
- added \$PATH lookup

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Karel Zak <kzak@redhat.com>

cvtnum routine taken from xfsprogs,
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Modified Mon Jul 1 18:14:10 1996, janl@ifi.uio.no, writing to stdout

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Beep modifications by Christophe Jolif (cjolif@storm.gatelink.fr.net)
Sanity increases by Cafeine Addict [sic].
Powersave features by todd j. derr <tjd@wordsmith.org>
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Modified for Linux, Mon Mar 8 18:16:24 1993, faith@cs.unc.edu
Wed Jun 22 21:41:56 1994, faith@cs.unc.edu:
Added fix from Mike Grunehoff (kashmir@umiacs.umd.edu)
Mon Jul 1 17:01:39 MET DST 1996, janl@math.uio.no:

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Wed Jun 22 22:15:41 1994, faith@cs.unc.edu: Added internationalization
patches from Andries.Brouwer@cw.nl
Wed Sep 14 22:31:17 1994: patches from Carl Christofferson
(cchris@connected.com)

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Modified for Linux by Charles Hannum (mycroft@gnu.ai.mit.edu)
and Brian Koehmstedt (bpk@gnu.ai.mit.edu)

Wed Sep 14 22:26:00 1994: Patch from bjdouma <bjdouma@xs4all.nl> to handle

last line that has no newline correctly.
3-Jun-1998: Patched by Nicolai Langfeldt to work better on Linux:
Handle any-length-lines. Code copied from util-linux' setpwnam.c

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[Exhibit_300]

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Demonstrates how to use the CMake 'find_package' mechanism to locate and build against libbson.

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

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[Exhibit_309]

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[Exhibit_310]

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11-keith-packard

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[Exhibit_311]

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[Exhibit_317]

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[Exhibit_330]

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A README file is required for CPAN modules since CPAN extracts the
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[Exhibit_340]

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relpath.awk Script is used to calculate relative path
between two real absolute paths.

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This file is part of LVM2.
It is required for the proper handling of failures of LVM2 mirror
devices that were created using the -m option of lvcreate.

chkconfig 12345 02 99
description Starts and stops dmeventd monitoring for lvm2

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This file is part of the device-mapper userspace tools.

It includes tree drawing code based on pstree <http://psmisc.sourceforge.net/>

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relpath.awk Script is used to calculate relative path
 between two real absolute paths.

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This file is part of LVM2.
It is required for the proper handling of failures of LVM2 mirror devices that were created using the -m option of lvcreate.

chkconfig 12345 02 99
description Starts and stops dmeventd monitoring for lvm2

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GPLV2('etnaviv_drm.h')

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[Exhibit_376]

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Antoni Bella Perez <bella5@teleline.es>, 2002, 2003.

Jordi Mallach <jordi@gnu.org>, 2004, 2005.

Josep Puigdemont <josep.puigdemont@gmail.com>, 2005

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#

Jiří Pavlovský <pavlovsk@ff.cuni.cz>, 1999 - 2001.

Petr Pář <petr.pisar@atlas.cz>, 2006.

Vladimír Michl <vladimir.michl@seznam.cz>, 2007

Petr Pář <petr.pisar@atlas.cz>, 2007, 2008, 2009, 2010, 2011, 2012, 2013.

Petr Pář <petr.pisar@atlas.cz>, 2014, 2015, 2016, 2017, 2018.

#

eject tool messages merged from eject-2.1.5:

Jeff Tranter <tranter@pobox.com>, 2005.

Marek Āernock <marek@manet.cz>, 2006.


```

#
# Danish translation util-linux.
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# Claus S rensen <cs@klid.dk>, 2000.
# Keld J rn Simonsen <keld@dkuug.dk>, 2000.
# Claus Hindsgaul <claus_h@image.dk>, 2001-2002, 2004, 2005.
# Joe Hansen <joealdon2@yahoo.dk>, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017.
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# Copyright   2014 Benjamin Weis <benjamin.weis@gmx.com>
# Mario Bl ttermann <mario.blaettermann@gmail.com>, 2014, 2015.
# Philipp Thomas <pth@suse.de>, 2014, 2015, 2017.
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#
# If you have additions/changes/other requests, please
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#
# People who helped or contributed (in historical order):
#   Martin Schulze <joe@infodrom.north.de>
#   Daniel Egger <Daniel.Egger@suse.de>
#   deliA <deliA@Wunder-Nett.org>

# Mensajes en espa ol para util-linux.
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# Copyright (C) 2001, 2002, 2003 Santiago Vila Doncel <sanvila@unex.es>.
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#
# Beth Powell <bpowell@turbolinux.com>, 2000.
# Santiago Vila Doncel <sanvila@unex.es>, 2001, 2002, 2003, 2004, 2010, 2014.
# Antonio Ceballos Roa <aceballos@gmail.com>, 2014, 2015, 2016, 2017, 2018.
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# Copyright (C) 2002 Meelis Roos <mroos@linux.ee>
# Meelis Roos <mroos@linux.ee>, 2002

```

```

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# Mikel Olasagasti Uranga <hey_neken@mundurat.net>, 2005, 2009, 2010.
# , fuzzy
#
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# Lauri Nurmi <lanurmi@iki.fi>, 2002-2018.
# Tommi Nieminen <translator@legisign.org>, 2017.
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# ja levittää vapaasti edellyttäen, että tätä otsikkoa
# ei poisteta, ja muutetut versiot merkitään muutetuiksi.
#
# ***
# "signature" tarvitsee paremman suomennoksen kuin "allekirjoitus".
# ***
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#
# Michel Robitaille <robitail@IRO.UMontreal.CA>, 1996-2006.
# Nicolas Provost <nprovost@quadriv.com>, 2008-2009.
# Milan Bouchet-Valat <nalimilan@club.fr>, 2010.
# David PrÃ©vot <david@tilapin.org>, 2010-2015.
# StÃ©phane Aulery <lkppo@free.fr>, 2016, 2017.
# Frédéric Marchal <fmarchal@perso.be>, 2018.
#
# Galician translation for util-linux
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# FIRST AUTHOR <EMAIL@ADDRESS>, 2010.
# Fran Dieguez <frandieguez@ubuntu.com>, 2010.
# Fran DiÃ©guez <frandieguez@ubuntu.com>, 2010.
#
# Translation of util-linux to Croatian.
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# Tomislav Krznar <tomislav.krznar@gmail.com>, 2012, 2013.
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```

[illegible]

```

# Berichtvertalingen die met ### beginnen zijn in feite debug-meldingen
# en de bijbehorende msgids zouden niet in dit bestand moeten voorkomen.
#
# Taco Witte <tcwitte@cs.uu.nl>, 2002, 2003.
# Luk Claes <luk.claes@ugent.be>, 2005.
# Benno Schulenberg <benno@vertaalt.nl>, 2006, 2007, 2008, 2009, 2010, 2011.
# Benno Schulenberg <benno@vertaalt.nl>, 2012, 2013, 2014, 2015, 2016.

# Polish translation of util-linux.
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# Andrzej Krzysztofowicz <ankry@mif.pg.gda.pl>, 2006.
# Jakub Bogusz <qboosh@pld-linux.org>, 2009-2018.
#
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# Arnaldo Carvalho de Melo <acme@conectiva.com.br>, 1999-2000
# Ricardo Stefani <ricardos@francanet.com.br>, 1999
# Marcus Moreira <marcusms@frb.br>
# Paulo Henrique R Pinheiro <nulo@sul.com.br>
# Alvaro Antunes <alvaro@netpar.com.br>, 2000
# Rodrigo Stulzer Lopes <rodrigo@conectiva.com.br>, 2000-2001
# Rafael Fontenelle <rafaelff@gnome.org>, 2013-2014, 2016-2018.

# Translation of util-linux-2.27-rc2.po to Russian
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# Pavel Maryanov <acid@jack.kiev.ua>, 2003, 2004, 2005, 2006, 2015.
# Evgeniy Yakushev <yen81@mail.ru>, 2015.
#
# *- mode: po *- Slovenian translation for util-linux package.
# Copyright (C) 2002, 2003 Free Software Foundation, Inc.
# Primož Peterlin <primoz.peterlin@biofiz.mf.uni-lj.si>, 2002, 2003.
# Simon Mihevc <simonmihevc@volja.net>, 2005, 2006
# $Id: util-linux-2.13-pre6.sl.po,v 1.3 2006/03/04 19:29:34 peterlin Exp $
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# Christian Rose <menthos@menthos.com>, 2001, 2002, 2003, 2004.
# Daniel Nylander <po@danielnylander.se>, 2007.
# Sebastian Rasmussen <sebras@gmail.com>, 2016, 2017, 2018.
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# Turkish translations for util-linux messages.

```

```

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# Nilgün Belma Bugüner <nilgun@buguner.name.tr>, 2001, ..., 2006.
# Alper Tekinalp <alper.tekinalp@gmail.com>, 2017.
#
# Ukrainian translation to util-linux.
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# Maxim V. Dziuromanenko <mvd@mylinux.com.ua>, 2004-2006.
# Yuri Chornoivan <yurchor@ukr.net>, 2012, 2013, 2014, 2015, 2016, 2017, 2018.

# Vietnamese translation for Util-Linux.
# Bà òn dá»ch tiá»ng Viá»t dã nh cho util-linux.
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# Phan Vinh Thinh <teppi82@gmail.com>, 2005-2007.
# Clytie Siddall <clytie@riverland.net.au>, 2007-2010.
# Trá»n Ngá»c QuÁ»n <vnwildman@gmail.com>, 2012-2014, 2015.
#
# Chinese simplified translation of util-linux.
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# Ray Wang <wanglei1123@gmail.com>, 2008.
# Wylmer Wang <wantinghard@gmail.com>, 2012, 2013, 2014, 2015, 2016.

# Traditional Chinese Messages for util-linux.
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# Wei-Lun Chao <bluebat@member.fsf.org>, 2010.

```

GPLV1(Many files exist)

fsck --- A generic, parallelizing front-end for the fsck program.
It will automatically try to run fsck programs in parallel if the
devices are on separate spindles. It is based on the same ideas as
the generic front end for fsck by David Engel and Fred van Kempen,
but it has been completely rewritten from scratch to support
parallel execution.

Written by Theodore Ts'o, <tytso@mit.edu>

Miquel van Smoorenburg (miquels@drinkel.ow.org) 20-Oct-1994:

- o Changed -t fstype to behave like with mount when -A (all file systems) or -M (like mount) is specified.
- o fsck looks if it can find the fsck.type program to decide if it should ignore the fs type. This way more fsck programs can be added without changing this front-end.
- o -R flag skip root file system.

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2001, 2002, 2003, 2004, 2005 by Theodore Ts'o.

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mkfs.minix.c - make a linux (minix) file-system.

(C) 1991 Linus Torvalds. This file may be redistributed as per the Linux copyright.

mkswap.c - set up a linux swap device

Copyright (C) 1991 Linus Torvalds
20.12.91 - time began. Got VM working yesterday by doing this by hand.

Copyright (C) 1999 Jakub Jelinek <jj@ultra.linux.cz>
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partx: tell the kernel about your disk's partitions
[This is not an fdisk - adding and removing partitions
is not a change of the disk, but just telling the kernel
about presence and numbering of on-disk partitions.]

aeb, 2000-03-21 -- sah is 42 now

Copyright (C) 2010 Davidlohr Bueso <dave@gnu.org>
Rewritten to use libblkid for util-linux
based on ideas from Karel Zak <kzak@redhat.com>

swaplabel.c - Print or change the label / UUID of a swap partition

Copyright (C) 2010 Jason Borden <jborden@bluehost.com>
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Usage: swaplabel [-L label] [-U UUID] device

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Written by Karel Zak <kzak@redhat.com>

canonicalize.c -- canonicalize pathname by removing symlinks

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Terminology:

cpuset#NAME?

cpumask- string with hex mask (e.g. "0x00000001")

cpulist - string with CPU ranges (e.g. "0-3,5,7,8")

Based on code from taskset.c and Linux kernel.

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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 high-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

Copyright (C) 2012 Sami Kerola <kerolasa@iki.fi>

ismounted.c --- Check to see if the filesystem was mounted

Copyright (C) 1995,1996,1997,1998,1999,2000,2008 Theodore Ts'o.

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This is callback solution for systems without nl_langinfo(), this function returns hardcoded and on locale setting independent value.

See langinfo.h man page for more details.

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Written by Karel Zak <kzak@redhat.com>

-- based on mount/losetup.c

Simple library for work with loop devices.

- requires kernel 2.6.x
- reads info from /sys/block/loop<N>/loop/<attr> (new kernels)
- reads info by ioctl
- supports *unlimited* number of loop devices
- supports /dev/loop<N> as well as /dev/loop/<N>
- minimize overhead (fd, loopinfo, ... are shared for all operations)
- setup (associate device and backing file)
- delete (dis-associate file)
- old LOOP_{SET,GET}_STATUS (32bit) ioctls are unsupported
- extendible

Functions for %oct encoding used in mtab/fstab/swaps/etc.

Based on code from mount(8).

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LGPLV2(Many files exist)

Very simple multibyte buffer editor. Allows to maintain the current
position in the string, add and remove chars on the current position.

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GNU Lesser General Public License.

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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.

GPLV3('parse-date.c',)

Simple functions to access files. Paths can be globally prefixed to read
data from an alternative source (e.g. a /proc dump for regression tests).

The paths is possible to format by printf-like way for functions with "f"
postfix in the name (e.g. readf, openf, ... ul_path_readf_u64()).

The ul_path_read_* API is possible to use without path_cxt handler. In this
case is not possible to use global prefix and printf-like formatting.

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Written by Karel Zak <kzak@redhat.com> [February 2018]

General purpose random utilities

Based on libuuid code.

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cache.c - allocation/initialization/free routines for cache

Copyright (C) 2001 Andreas Dilger
Copyright (C) 2003 Theodore Ts'o

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config.c - blkid.conf routines

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dev.c - allocation/initialization/free routines for dev

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devname.c - get a dev by its device inode name

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devno.c - find a particular device by its device number (major/minor)

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encode.c - string conversion routines (mostly for compatibility with
udev/volume_id)

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evaluate.c - very high-level API to evaluate LABELs or UUIDs

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getsize.c --- get the size of a partition.

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llseek.c -- stub calling the llseek system call

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aix partitions

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atari partitions parsing code

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Based on Linux kernel implementation and atari-fdisk

BSD/OSF partition parsing code

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Inspired by fdisk, partx, Linux kernel, libparted and openbsd header files.

MS-DOS partition parsing code

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Inspired by fdisk, partx, Linux kernel and libparted.

EFI GPT partition parsing code

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This code is not copy & past from any other implementation.

For more information about GPT start your study at:
http://en.wikipedia.org/wiki/GUID_Partition_Table
[http://technet.microsoft.com/en-us/library/cc739412\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc739412(WS.10).aspx)

mac partitions parsing code

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Minix partition parsing code

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partitions - partition tables parsing

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sgi partition parsing code

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Solaris x86 partition parsing code

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sun (solaris-spare) partition parsing code

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uktrix partition parsing code

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unixware partition parsing code

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The interesting information about unixware PT:

- Linux kernel / partx
- vtoc(7) SCO UNIX command man page
- evms source code (<http://evms.sourceforge.net/>)
- vxtools source code (<http://martin.hinner.info/fs/vxfs/>)

Low-level libblkid probing API

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read.c - read the blkid cache from disk, to avoid scanning all devices

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resolve.c - resolve names and tags into specific devices

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save.c - write the cache struct to disk

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Based on code fragments from bcache-tools by Kent Overstreet:
<http://evilpiepirate.org/git/bcache-tools.git>

Copyright (C) 2010 Jeroen Oortwijn <oortwijn@gmail.com>

Partly based on the Haiku BFS driver by
Axel D rfler <axeld@pinc-software.de>

Also inspired by the Linux BeFS driver by
Will Dyson <will_dyson@pobox.com>, et al.

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defines, structs taken from drbd source; file names represent drbd source
files.

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DRBD is a blocklevel replication solution in the Linux kernel,
upstream since 2.6.33. (See <http://drbd.linbit.com/>)
DRBDmanage is a configuration frontend that assists in
creating/deleting/modifying DRBD resources across multiple machines
(a DRBDmanage "cluster"); this file detects its control volume,
which is replicated (via DRBD 9) on some of the nodes.

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superblocks.c - reads information from filesystem and raid superblocks

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This is written from scratch according to Linux kernel fs/sysv/super.c file.
It seems that sysv probing code in libvolume_id and also in the original
blkid is useless.

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tag.c - allocation/initialization/free routines for tag structs

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device-mapper (dm) topology
-- this is fallback for old systems where the topology information is not
exported by sysfs

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Evms topology
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ioctl based topology -- gathers topology information

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lvm topology
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Linux Software RAID (md) topology
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sysfs based topology -- gathers topology information from Linux sysfs

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For more information see Linux kernel Documentation/ABI/testing/sysfs-block.

topology - gathers information about device topology

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version.c --- Return the version of the blkid library

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Libfdisk sample to create partitions by specify all required partition
properties (partno, start and size). The defaults is only partition type
(except MBR where 4th partition is extended).

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Libfdisk sample to create partitions by specify size, for example:

```
mkpart --label dos --device /dev/sdc 2M 2M 2M 10M 1M -
```

creates 6 partitions:

- 3 primary (3x 2M)
- 1 extended (1x 10M)
- 2 logical (1x 1M, 1x remaining-space-in-extended-partition)

Notes:

The sample specifies size and partno for MBR, and size only for another labels (e.g. GPT).

The Ask-API does not use anything else than warning/info. The partitioning has to be done non-interactive.

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Based on the original code from fdisk
written by Bernhard Fastenrath (fasten@informatik.uni-bonn.de)
with code from the NetBSD disklabel command.

Arnaldo Carvalho de Melo <acme@conectiva.com.br>, March 1999
David Huggins-Daines <dhuggins@linuxcare.com>, January 2000

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This is re-written version for libfdisk, the original was fdiskdoslabel.c
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GUID Partition Table (GPT) support. Based on UEFI Specs 2.3.1
Chapter 5: GUID Partition Table (GPT) Disk Layout (Jun 27th, 2012).
Some ideas and inspiration from GNU parted and gptfdisk.

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This is a re-written version for libfdisk, the original was fdisksgilabel.c
from util-linux fdisk, by:

Andreas Neuper, Sep 1998,
Arnaldo Carvalho de Melo <acme@conectiva.com.br>, Mar 1999,
Phillip Kesling <pkesling@sgi.com>, Mar 2003.

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Based on original code from fdisk:

Jakub Jelinek (jj@sunsite.mff.cuni.cz), July 1996

Merged with fdisk for other architectures, aeb, June 1998.

Arnaldo Carvalho de Melo <acme@conectiva.com.br> Mar 1999, Internationalization

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Routines for TEST_PROGRAMS

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LGPLV3(Many files exist)

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cell.c - functions for table handling at the cell level

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column.c - functions for table handling at the column level

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line.c - functions for table handling at the line level

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symbols.c - routines for symbol handling

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table.c - functions handling the data at the table level

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table.c - functions handling the data at the table level

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version.c - Return the version of the library

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clear.c -- Clear a UUID

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compare.c --- compare whether or not two UUIDs are the same

Returns 0 if the two UUIDs are different, and 1 if they are the same.

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gen_uuid.c --- generate a DCE-compatible uuid

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isnull.c --- Check whether or not the UUID is null

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Internal routine for packing UUIDs

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parse.c --- UUID parsing

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predefined.c --- well-known UUIDs from the RFC-4122 namespace

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tst_uuid.c --- test program from the UUID library

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Internal routine for unpacking UUID

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unparse.c -- convert a UUID to string

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uuid_time.c --- Interpret the time field from a uuid. This program violates the UUID abstraction barrier by reaching into the guts of a UUID and interpreting it.

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auth.c -- PAM authorization code, common between chsh and chfn
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chfn and chsh shared functions

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chfn.c -- change your finger information
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\$Author: aebr \$
\$Revision: 1.18 \$
\$Date: 1998/06/11 22:30:11 \$

Updated Thu Oct 12 09:19:26 1995 by faith@cs.unc.edu with security patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Hacked by Peter Breitenlohner, peb@mppmu.mpg.de,
to remove trailing empty fields. Oct 5, 96.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

chsh.c -- change your login shell
(c) 1994 by salvatore valente <svalente@athena.mit.edu>
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\$Author: aebr \$
\$Revision: 1.19 \$
\$Date: 1998/06/11 22:30:14 \$

Updated Thu Oct 12 09:33:15 1995 by faith@cs.unc.edu with security patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Updated Mon Jul 1 18:46:22 1996 by janl@math.uio.no with security suggestion from Zefram. Disallowing users with shells not in /etc/shells from changing their shell.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

libuser.c -- Utilize libuser to set a user attribute
(c) 2012 by Cody Maloney <cmaloney@theoreticalchaos.com>

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login(1)

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Michael Glad (glad@daimi.dk)
Computer Science Department, Aarhus University, Denmark
1990-07-04

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Updated Thu Oct 12 09:56:55 1995 by faith@cs.unc.edu with security patches from Zefram <A.Main@dcs.warwick.ac.uk>

Updated Thu Nov 9 21:58:53 1995 by Martin Schulze <joey@finlandia.infodrom.north.de>. Support for vigr.

Martin Schulze's patches adapted to Util-Linux by Nicolai Langfeldt.

blkid.c - User command-line interface for libblkid

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
Sun Mar 21 1999 - Arnaldo Carvalho de Melo <acme@conectiva.com.br>
- fixed strerr(errno) in gettext calls

-
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The test heavily uses shared memory, to enlarge maximal size of shared segment use:

echo "4294967295" > /proc/sys/kernel/shmm

The test is compiled against in-tree libuuid, if you want to test uuid installed to the system then make sure that libuuid uses the same socket like the running uuid. You can start the uuid manually, for example:

uuid --debug --no-fork --no-pid --socket /run/uuid/request

if the \$runstatedir (as defined by build-system) is /run. If you want to overwrite the built-in default then use:

make uuid uuidgen runstatedir=/var/run

uuid.c --- UUID-generation daemon

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gen_uuid.c --- generate a DCE-compatible uuid

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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
2011-08-12 Davidlohr Bueso <dave@gnu.org>
- added \$PATH lookup

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dmesg.c -- Print out the contents of the kernel ring buffer

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fallocate - utility to use the fallocate system call

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Written by Eric Sandeen <sandeen@redhat.com>
Karel Zak <kzak@redhat.com>

cvtnum routine taken from xfsprogs,
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Originally from Ted's losetup.c

losetup.c - setup and control loop devices

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/dev/rfkill userspace tool

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zramctl - control compressed block devices in RAM

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Modified Fri Mar 10 20:27:19 1995, faith@cs.unc.edu, for Linux
Modified Mon Jul 1 18:14:10 1996, janl@ifi.uio.no, writing to stdout

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setterm.c, set terminal attributes.

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Adaption to Linux by Peter MacDonald.

Enhancements by Mika Liljeberg (liljeber@cs.Helsinki.FI)

Beep modifications by Christophe Jolif (cjolif@storm.gatelink.fr.net)

Sanity increases by Cafeine Addict [sic].

Powersave features by todd j. derr <tjd@wordsmith.org>

Converted to terminfo by Kars de Jong (jongk@cs.utwente.nl)

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

Semantics:

Setterm writes to standard output a character string that will invoke the specified terminal capabilities. Where possible terminfo is consulted to find the string to use. Some options however do not correspond to a terminfo capability. In this case if the terminal type is "con*" or "linux*" the string that invokes the specified capabilities on the PC Linux virtual console driver is output. Options that are not implemented by the terminal are ignored.

The following options are non-obvious.

- term can be used to override the TERM environment variable.
- reset displays the terminal reset string, which typically resets the terminal to its power on state.

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Modified Sun Mar 12 10:39:22 1995, faith@cs.unc.edu for Linux

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Modified for Linux, Mon Mar 8 18:16:24 1993, faith@cs.unc.edu
Wed Jun 22 21:41:56 1994, faith@cs.unc.edu:
Added fix from Mike Grupenhoff (kashmir@umiacs.umd.edu)
Mon Jul 1 17:01:39 MET DST 1996, janl@math.uio.no:

This testing program makes sure the byteswap functions work

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test_sigreceive - wait for signal and exit with value of it

Written by Sami Kerola <kerolas@iki.fi>

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test_tiocsti - test security of TIOCSTI

Written by Federico Bento <up201407890@alunos.dcc.fc.up.pt>

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Wed Jun 22 22:15:41 1994, faith@cs.unc.edu: Added internationalization
patches from Andries.Brouwer@cw.nl

Wed Sep 14 22:31:17 1994: patches from Carl Christofferson
(cchris@connected.com)

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Modified for Linux by Charles Hannum (mycroft@gnu.ai.mit.edu)
and Brian Koehmstedt (bpk@gnu.ai.mit.edu)

Wed Sep 14 22:26:00 1994: Patch from bjdouma <bjdouma@xs4all.nl> to handle
last line that has no newline correctly.

3-Jun-1998: Patched by Nicolai Langfeldt to work better on Linux:
Handle any-length-lines. Code copied from util-linux' setpwnam.c

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*
* (based on list.h from e2fsprogs)
* Merge sort based on kernel's implementation.

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Version 2.8.3 Thu Sep 22 11:16:15 2005 Doug Lea (dl at gee)

Note There may be an updated version of this malloc obtainable at <ftp://gee.cs.oswego.edu/pub/misc/malloc.c>
Check before installing!

Quickstart

This library is all in one file to simplify the most common usage
ftp it, compile it (-O3), and link it into another program. All of

the compile-time options default to reasonable values for use on most platforms. You might later want to step through various compile-time and dynamic tuning options.

For convenience, an include file for code using this malloc is at

<ftp://gee.cs.oswego.edu/pub/misc/malloc-2.8.3.h>

You don't really need this .h file unless you call functions not defined in your system include files. The .h file contains only the excerpts from this file needed for using this malloc on ANSI C/C++ systems, so long as you haven't changed compile-time options about naming and tuning parameters. If you do, then you can create your own malloc.h that does include all settings by cutting at the point indicated below. Note that you may already by default be using a C library containing a malloc that is based on some version of this malloc (for example in linux). You might still want to use the one in this file to customize settings or to avoid overheads associated with library versions.

Vital statistics

Supported pointer/size_t representation 4 or 8 bytes
size_t MUST be an unsigned type of the same width as
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Cloned from raw_api.c

Raw_api.c author Kresten Krab Thorup <krab@gnu.org>
Java_raw_api.c author Hans-J. Boehm <hboehm@hpl.hp.com>

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Based on MIPS N32/64 port

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[Exhibit_393]

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DRBG: Deterministic Random Bits Generator

Based on NIST Recommended DRBG from NIST SP800-90A with the following properties

- " CTR DRBG with DF with AES-128, AES-192, AES-256 cores"
- " Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores"
- " HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores"
- " with and without prediction resistance"

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.....

This code schedules 1 blocks at a time, with 4 lanes per block

.....

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[Exhibit_424]

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[Exhibit_425]

- MPEG2 encoding (*msdkmpeg2enc*)
- H.264 encoding (*msdkh264enc*)
- H.265 encoding (*msdkh265enc*)
- VP8 encoding (*msdkvp8enc*)

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Basic Installation

=====

Briefly, the shell command './configure && make && make install'
should configure, build, and install this package. The following
more-detailed instructions are generic; see the 'README' file for
instructions specific to this package. Some packages provide this
'INSTALL' file but do not implement all of the features documented
below. The lack of an optional feature in a given package is not
necessarily a bug. More recommendations for GNU packages can be found
in *note Makefile Conventions: (standards)Makefile Conventions.

The 'configure' shell script attempts to guess correct values for
various system-dependent variables used during compilation. It uses
those values to create a 'Makefile' in each directory of the package.
It may also create one or more '.h' files containing system-dependent
definitions. Finally, it creates a shell script 'config.status' that
you can run in the future to recreate the current configuration, and a

file 'config.log' containing compiler output (useful mainly for debugging 'configure').

It can also use an optional file (typically called 'config.cache' and enabled with '--cache-file=config.cache' or simply '-C') that saves the results of its tests to speed up reconfiguring. Caching is disabled by default to prevent problems with accidental use of stale cache files.

If you need to do unusual things to compile the package, please try to figure out how 'configure' could check whether to do them, and mail

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#
# We need this here as well, since someone might use autoconf-2.5x
# to configure GLib then an older version to configure a package
# using AM_GLIB_GNU_GETTEXT
AC_PREREQ(2.53)
```

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@synopsis AC_C99_FUNC_LRINT

Check whether C99's lrint function is available.

@version 1.1

@author Erik de Castro Lopo <erikd AT mega-nerd DOT com>

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In addition, this is only a partial port of the original Google code, limited to what was needed so far. The (nearly) complete original code is in the ICU svn repository at `icuhtml/trunk/design/strings/contrib` (see ICU ticket 6765, r25517).

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Defines HAVE_LIBREADLINE to 1 if a working readline setup is
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M4sh Initialization.

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Version 2.0.5 (released 2018-05-18)

Switched the default library behavior to IDNA2008 as amended by TR#46 (non-transitional). That default behavior is enabled when no flags are specified to function calls. Applications can utilize the %IDN2_NO_TR46 flag to switch to the unamended IDNA2008. This is done in the interest of interoperability based on the fact that this is what application writers care about rather than strict compliance with a particular protocol.

Fixed memleak in idn2_to_unicode_8zlz().

Return error (IDN2_ICONV_FAIL) on charset conversion errors.

Fixed issue with STD3 rules applying in non-transitional TR46 mode.

idn2 added option --usestd3asciirules.

Version 2.0.4 (released 2017-08-30)

Fix integer overflow in bidi.c/_isBidi()

Fix integer overflow in puny_decode.c/decode_digit()

Improve docs

Fix idna_free() to idn_free()

Update fuzzer corpora

Version 2.0.3 (released 2017-07-24) [beta]

%IDN2_USE_STD3_ASCII_RULES disabled by default.

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Written by Gordon Matzigkeit, 1996

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GPLV2('etnaviv_drm.h')

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GPLV2('etnaviv_drm.h')

[Exhibit_450]

GPLV2('missing', 'test-driver')

LGPLV2(Many files exist)

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[Exhibit_451]

GPLV2(Many files exist)

[Exhibit_452]

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[Exhibit_453]

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Based on the x86 SIMD extension for IJG JPEG library

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Based on the x86 SIMD extension for IJG JPEG library - version 1.02

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file.

This file contains routines to read input images in Microsoft "BMP"
format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
Currently, only 8-bit and 24-bit images are supported, not 1-bit or
4-bit (feeding such low-depth images into JPEG would be silly anyway).
Also, we don't support RLE-compressed files.

These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume input from
an ordinary stdio stream. They further assume that reading begins
at the start of the file; start_input may need work if the
user interface has already read some data (e.g., to determine that
the file is indeed BMP format).

This code contributed by James Arthur Boucher.

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It was modified by The libjpeg-turbo Project to include only code relevant to libjpeg-turbo.

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This file contains common support routines used by the IJG application programs (cjpeg, djpeg, jpegtran).

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This file contains a command-line user interface for the JPEG decompressor. It should work on any system with Unix- or MS-DOS-style command lines.

Two different command line styles are permitted, depending on the compile-time switch `TWO_FILE_COMMANDLINE`

```
djpeg [options] inputfile outputfile  
djpeg [options] [inputfile]
```

In the second style, output is always to standard output, which you'd normally redirect to a file or pipe to some other program. Input is either from a named file or from standard input (typically redirected). The second style is convenient on Unix but is unhelpful on systems that don't support pipes. Also, you MUST use the first style if your system doesn't do binary I/O to stdin/stdout.

To simplify script writing, the "-outfile" switch is provided. The syntax

```
djpeg [options] -outfile outputfile inputfile
```

works regardless of which command line style is used.

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This file contains probability estimation tables for common use in arithmetic entropy encoding and decoding routines.

This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec (ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82).

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file.

This file contains application interface code for the compression half
of the JPEG library. These are the "minimum" API routines that may be
needed in either the normal full-compression case or the transcoding-only
case.

Most of the routines intended to be called directly by an application
are in this file or in jcapistd.c. But also see jcparm.c for
parameter-setup helper routines, jcomapi.c for routines shared by
compression and decompression, and jctrans.c for the transcoding case.

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file.

This file contains application interface code for the compression half
of the JPEG library. These are the "standard" API routines that are
used in the normal full-compression case. They are not used by a
transcoding-only application. Note that if an application links in
jpeg_start_compress, it will end up linking in the entire compressor.
We thus must separate this file from jcapimin.c to avoid linking the
whole compression library into a transcoder.

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file.

This file contains portable arithmetic entropy encoding routines for JPEG
(implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).

Both sequential and progressive modes are supported in this single module.

Suspension is not currently supported in this module.

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This file contains the coefficient buffer controller for compression.
This controller is the top level of the JPEG compressor proper.
The coefficient buffer lies between forward-DCT and entropy encoding steps.

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This file contains input colorspace conversion routines.

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file.

This file contains the forward-DCT management logic.
This code selects a particular DCT implementation to be used,
and it performs related housekeeping chores including coefficient
quantization.

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file.

This file contains Huffman entropy encoding routines.

Much of the complexity here has to do with supporting output suspension.
If the data destination module demands suspension, we want to be able to
back up to the start of the current MCU. To do this, we copy state
variables into local working storage, and update them back to the
permanent JPEG objects only upon successful completion of an MCU.

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This file contains routines to write JPEG datastream markers.

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file.

This file contains master control logic for the JPEG compressor.
These routines are concerned with parameter validation, initial setup,
and inter-pass control (determining the number of passes and the work
to be done in each pass).

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This file contains application interface routines that are used for both
compression and decompression.

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This file contains optional default-setting code for the JPEG compressor.
Applications do not have to use this file, but those that don't use it
must know a lot more about the innards of the JPEG code.

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file.

This file contains Huffman entropy encoding routines for progressive JPEG.

We do not support output suspension in this module, since the library
currently does not allow multiple-scan files to be written with output
suspension.

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file.

This file contains the compression preprocessing controller.
This controller manages the color conversion, downsampling,
and edge expansion steps.

Most of the complexity here is associated with buffering input rows
as required by the downsampler. See the comments at the head of
jcsample.c for the downsampler's needs.

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file.

This file contains library routines for transcoding compression,
that is, writing raw DCT coefficient arrays to an output JPEG file.
The routines in jcapimin.c will also be needed by a transcoder.

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file.

This file contains application interface code for the decompression half
of the JPEG library. These are the "minimum" API routines that may be
needed in either the normal full-decompression case or the
transcoding-only case.

Most of the routines intended to be called directly by an application
are in this file or in jdapistd.c. But also see jcomapi.c for routines
shared by compression and decompression, and jdtrans.c for the transcoding
case.

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file.

This file contains application interface code for the decompression half
of the JPEG library. These are the "standard" API routines that are
used in the normal full-decompression case. They are not used by a
transcoding-only application. Note that if an application links in
jpeg_start_decompress, it will end up linking in the entire decompressor.
We thus must separate this file from jdapimin.c to avoid linking the
whole decompression library into a transcoder.

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file.

This file contains compression data destination routines for the case of
emitting JPEG data to memory or to a file (or any stdio stream).
While these routines are sufficient for most applications,
some will want to use a different destination manager.
IMPORTANT: we assume that fwrite() will correctly transcribe an array of

JOCTETs into 8-bit-wide elements on external storage. If char is wider than 8 bits on your machine, you may need to do some tweaking.

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This file contains output colorspace conversion routines.

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This file contains output colorspace conversion routines.

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This file contains the inverse-DCT management logic.
This code selects a particular IDCT implementation to be used, and it performs related housekeeping chores. No code in this file is executed per IDCT step, only during output pass setup.

Note that the IDCT routines are responsible for performing coefficient dequantization as well as the IDCT proper. This module sets up the dequantization multiplier table needed by the IDCT routine.

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This file contains Huffman entropy decoding routines.

Much of the complexity here has to do with supporting input suspension. If the data source module demands suspension, we want to be able to back up to the start of the current MCU. To do this, we copy state variables into local working storage, and update them back to the permanent storage only upon successful completion of an MCU.

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This file contains input control logic for the JPEG decompressor. These routines are concerned with controlling the decompressor's input processing (marker reading and coefficient decoding). The actual input

reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.

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This file contains the main buffer controller for decompression.
The main buffer lies between the JPEG decompressor proper and the post-processor; it holds downsampled data in the JPEG colorspace.

Note that this code is bypassed in raw-data mode, since the application supplies the equivalent of the main buffer in that case.

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This file contains routines to decode JPEG datastream markers.
Most of the complexity arises from our desire to support input suspension: if not all of the data for a marker is available, we must exit back to the application. On resumption, we reprocess the marker.

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libjpeg-turbo Modifications:

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This file contains master control logic for the JPEG decompressor.
These routines are concerned with selecting the modules to be executed and with determining the number of passes and the work to be done in each pass.

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This file contains code for merged upsampling/color conversion.

This file combines functions from jdsample.c and jdcolor.c;
read those files first to understand what's going on.

When the chroma components are to be upsampled by simple replication (ie, box filtering), we can save some work in color conversion by calculating all the output pixels corresponding to a pair of chroma samples at one time. In the conversion equations

$$R = Y + K1 * Cr$$

$$G = Y + K2 * Cb + K3 * Cr$$

$$B = Y + K4 * Cb$$

only the Y term varies among the group of pixels corresponding to a pair of chroma samples, so the rest of the terms can be calculated just once. At typical sampling ratios, this eliminates half or three-quarters of the multiplications needed for color conversion.

This file currently provides implementations for the following cases:

YCbCr => RGB color conversion only.

Sampling ratios of 2h1v or 2h2v.

No scaling needed at upsample time.

Corner-aligned (non-CCIR601) sampling alignment.

Other special cases could be added, but in most applications these are the only common cases. (For uncommon cases we fall back on the more general code in jdsample.c and jdcolor.c.)

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This file contains code for merged upsampling/color conversion.

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This file contains Huffman entropy decoding routines for progressive JPEG.

Much of the complexity here has to do with supporting input suspension. If the data source module demands suspension, we want to be able to back up to the start of the current MCU. To do this, we copy state variables into local working storage, and update them back to the permanent storage only upon successful completion of an MCU.

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It was modified by The libjpeg-turbo Project to include only code relevant to libjpeg-turbo.

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This file contains the decompression postprocessing controller.

This controller manages the upsampling, color conversion, and color quantization/reduction steps; specifically, it controls the buffering between upsample/color conversion and color quantization/reduction.

If no color quantization/reduction is required, then this module has no work to do, and it just hands off to the upsample/color conversion code. An integrated upsample/convert/quantize process would replace this module entirely.

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file.

This file contains upsampling routines.

Upsampling input data is counted in "row groups". A row group is defined to be $(v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)$ sample rows of each component. Upsampling will normally produce $max_v_samp_factor$ pixel rows from each row group (but this could vary if the upsampler is applying a scale factor of its own).

An excellent reference for image resampling is
Digital Image Warping, George Wolberg, 1990.
Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.

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It was modified by The libjpeg-turbo Project to include only code relevant to libjpeg-turbo.

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This file contains simple error-reporting and trace-message routines. These are suitable for Unix-like systems and others where writing to stderr is the right thing to do. Many applications will want to replace some or all of these routines.

If you define `USE_WINDOWS_MESSAGEBOX` in `jpeg.h` or in the makefile, you get a Windows-specific hack to display error messages in a dialog box. It ain't much, but it beats dropping error messages into the bit bucket, which is what happens to output to stderr under most Windows C compilers.

These routines are used by both the compression and decompression code.

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This file contains a floating-point implementation of the forward DCT (Discrete Cosine Transform).

This implementation should be more accurate than either of the integer DCT implementations. However, it may not give the same results on all machines because of differences in roundoff behavior. Speed will depend on the hardware's floating point capacity.

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README.ijg). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are

simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

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This file contains a fast, not so accurate integer implementation of the forward DCT (Discrete Cosine Transform).

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README.ijg). The following code is based directly on figure 4-8 in P&M.

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The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

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This file contains a slow-but-accurate integer implementation of the forward DCT (Discrete Cosine Transform).

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on an algorithm described in

C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics, Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.

The primary algorithm described there uses 11 multiplies and 29 adds.

We use their alternate method with 12 multiplies and 32 adds.

The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in

scaled fixed-point arithmetic, with a minimal number of shifts.

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libjpeg-turbo Modifications:
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file.

This file contains a floating-point implementation of the
inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
must also perform dequantization of the input coefficients.

This implementation should be more accurate than either of the integer
IDCT implementations. However, it may not give the same results on all
machines because of differences in roundoff behavior. Speed will depend
on the hardware's floating point capacity.

A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
on each row (or vice versa, but it's more convenient to emit a row at
a time). Direct algorithms are also available, but they are much more
complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for
scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
Japanese, but the algorithm is described in the Pennebaker & Mitchell
JPEG textbook (see REFERENCES section in file README.iyg). The following
code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is
possible to arrange the computation so that many of the multiplies are
simple scalings of the final outputs. These multiplies can then be
folded into the multiplications or divisions by the JPEG quantization
table entries. The AA&N method leaves only 5 multiplies and 29 adds
to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point
implementation, accuracy is lost due to imprecise representation of the
scaled quantization values. However, that problem does not arise if

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This file contains a fast, not so accurate integer implementation of the
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A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
on each row (or vice versa, but it's more convenient to emit a row at
a time). Direct algorithms are also available, but they are much more
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code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

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This file contains a slow-but-accurate integer implementation of the inverse DCT (Discrete Cosine Transform). In the IJG code, this routine must also perform dequantization of the input coefficients.

A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on an algorithm described in

C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics, Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.

The primary algorithm described there uses 11 multiplies and 29 adds.

We use their alternate method with 12 multiplies and 32 adds.

The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.

We also provide IDCT routines with various output sample block sizes for direct resolution reduction or enlargement without additional resampling: NxN (N=1...16) pixels for one 8x8 input DCT block.

For N<8 we simply take the corresponding low-frequency coefficients of the 8x8 input DCT block and apply an NxN point IDCT on the sub-block to yield the downscaled outputs.

This can be seen as direct low-pass downsampling from the DCT domain point of view rather than the usual spatial domain point of view,

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This file contains inverse-DCT routines that produce reduced-size output: either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.

The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M) algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step with an 8-to-4 step that produces the four averages of two adjacent outputs (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).

These steps were derived by computing the corresponding values at the end of the normal LL&M code, then simplifying as much as possible.

1x1 is trivial: just take the DC coefficient divided by 8.

See jidctint.c for additional comments.

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This file contains the JPEG system-independent memory management routines. This code is usable across a wide variety of machines; most of the system dependencies have been isolated in a separate file.

The major functions provided here are:

- * pool-based allocation and freeing of memory;
- * policy decisions about how to divide available memory among the virtual arrays;
- * control logic for swapping virtual arrays between main memory and backing storage.

The separate system-dependent file provides the actual backing-storage access code, and it contains the policy decision about how much total main memory to use.

This file is system-dependent in the sense that some of its functions are unnecessary in some systems. For example, if there is enough virtual memory so that backing storage will never be used, much of the virtual array control logic could be removed. (Of course, if you have that much memory then you shouldn't care about a little bit of unused code...)

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This file provides a really simple implementation of the system-dependent portion of the JPEG memory manager. This implementation assumes that no backing-store files are needed: all required space can be obtained from malloc().

This is very portable in the sense that it'll compile on almost anything, but you'd better have lots of main memory (or virtual memory) if you want to process big images.

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This file contains a command-line user interface for JPEG transcoding. It is very similar to cjpeg.c, and partly to djpeg.c, but provides lossless transcoding between different JPEG file formats. It also provides some lossless and sort-of-lossless transformations of JPEG data.

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This file contains 1-pass color quantization (color mapping) routines. These routines provide mapping to a fixed color map using equally spaced color values. Optional Floyd-Steinberg or ordered dithering is available.

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This file contains 2-pass color quantization (color mapping) routines. These routines provide selection of a custom color map for an image, followed by mapping of the image to that color map, with optional Floyd-Steinberg dithering.

It is also possible to use just the second pass to map to an arbitrary externally-given color map.

Note: ordered dithering is not supported, since there isn't any fast way to compute intercolor distances; it's unclear that ordered dither's fundamental assumptions even hold with an irregularly spaced color map.

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Based on the x86 SIMD extension for IJG JPEG library,

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This file contains stubs for when there is no SIMD support available.

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This file contains routines to set the default Huffman tables, if they are not already set.

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It was modified by The libjpeg-turbo Project to include only code relevant to libjpeg-turbo.

For conditions of distribution and use, see the accompanying README.ijg file.

This file contains tables and miscellaneous utility routines needed for both compression and decompression.

Note we prefix all global names with "j" to minimize conflicts with a surrounding application.

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This code is the same as the code published by RSA Inc. It has been edited for clarity and style only.

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Modified 2009-2010 by Guido Vollbeding.
libjpeg-turbo Modifications:
Modified 2011 by Siarhei Siamashka.

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This file contains routines to read input images in Microsoft "BMP" format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors). Currently, only 8-bit and 24-bit images are supported, not 1-bit or 4-bit (feeding such low-depth images into JPEG would be silly anyway). Also, we don't support RLE-compressed files.

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdio stream. They further assume that reading begins at the start of the file; start_input may need work if the user interface has already read some data (e.g., to determine that the file is indeed BMP format).

This code contributed by James Arthur Boucher.

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file.

This file implements djpeg's "-map file" switch. It reads a source image
and constructs a colormap to be supplied to the JPEG decompressor.

Currently, these file formats are supported for the map file:

GIF: the contents of the GIF's global colormap are used.

PPM (either text or raw flavor): the entire file is read and
each unique pixel value is entered in the map.

Note that reading a large PPM file will be horrendously slow.
Typically, a PPM-format map file should contain just one pixel
of each desired color. Such a file can be extracted from an
ordinary image PPM file with ppmtomap(1).

Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
currently implemented.

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file.

This file contains routines to read input images in GIF format.

NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
the ability to read GIF files has been removed from the IJG distribution. *
Sorry about that. *

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of
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It was modified by The libjpeg-turbo Project to include only code relevant
to libjpeg-turbo.

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file.

This file contains a very simple stand-alone application that displays
the text in COM (comment) markers in a JFIF file.

This may be useful as an example of the minimum logic needed to parse
JPEG markers.

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file.

This file contains routines to read input images in PPM/PGM format.

The extended 2-byte-per-sample raw PPM/PGM formats are supported.
The PBMPLUS library is NOT required to compile this software
(but it is highly useful as a set of PPM image manipulation programs).

These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume input from
an ordinary stdio stream. They further assume that reading begins
at the start of the file; start_input may need work if the
user interface has already read some data (e.g., to determine that
the file is indeed PPM format).

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information relevant to libjpeg-turbo.
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file.

This file contains routines to read input images in Utah RLE format.
The Utah Raster Toolkit library is required (version 3.1 or later).

These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume input from
an ordinary stdio stream. They further assume that reading begins
at the start of the file; start_input may need work if the
user interface has already read some data (e.g., to determine that
the file is indeed RLE format).

Based on code contributed by Mike Lijewski,
with updates from Robert Hutchinson.

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file.

This file contains routines to process some of cjpeg's more complicated
command-line switches. Switches processed here are:

-qttables file	Read quantization tables from text file
-scans file	Read scan script from text file
-quality N[,N,...]	Set quality ratings
-qslots N[,N,...]	Set component quantization table selectors
-sample HxV[,HxV,...]	Set component sampling factors

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It was modified by The libjpeg-turbo Project to include only code relevant
to libjpeg-turbo.
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file.

This file contains routines to read input images in Targa format.

These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume input from
an ordinary stdio stream. They further assume that reading begins
at the start of the file; start_input may need work if the

user interface has already read some data (e.g., to determine that the file is indeed Targa format).

Based on code contributed by Lee Daniel Crocker.

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Based on the x86 SIMD extension for IJG JPEG library,

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This file contains the interface between the "normal" portions of the library and the SIMD implementations when running on a 32-bit ARM architecture.

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Based on the x86 SIMD extension for IJG JPEG library,

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This file contains the interface between the "normal" portions of the library and the SIMD implementations when running on a 64-bit ARM architecture.

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This file contains the interface between the "normal" portions of the library and the SIMD implementations when running on a MIPS architecture.

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This file contains the interface between the "normal" portions of the library and the SIMD implementations when running on a PowerPC architecture.

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This file contains image transformation routines and other utility code used by the jpegtran sample application. These are NOT part of the core JPEG library. But we keep these routines separate from jpegtran.c to ease the task of maintaining jpegtran-like programs that have other user interfaces.

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For conditions of distribution and use, see the accompanying README.ijg file.

This file contains routines to write output images in Microsoft "BMP" format (MS Windows 3.x and OS/2 1.x flavors).
Either 8-bit colormapped or 24-bit full-color format can be written.

No compression is supported.

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.

This code contributed by James Arthur Boucher.

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Modified 2009 by Guido Vollbeding.
It was modified by The libjpeg-turbo Project to include only code and information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg file.

This file contains routines to write output images in PPM/PGM format. The extended 2-byte-per-sample raw PPM/PGM formats are supported. The PBMPLUS library is NOT required to compile this software (but it is highly useful as a set of PPM image manipulation programs).

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.

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It was modified by The libjpeg-turbo Project to include only code and information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg file.

This file contains routines to write output images in RLE format. The Utah Raster Toolkit library is required (version 3.1 or later).

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.

Based on code contributed by Mike Lijewski,
with updates from Robert Hutchinson.

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It was modified by The libjpeg-turbo Project to include only code and information relevant to libjpeg-turbo.
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This file contains routines to write output images in Targa format.

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.

Based on code contributed by Lee Daniel Crocker.

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This configure script is free software; the Free Software Foundation gives unlimited permission to copy, distribute and modify it.

M4sh Initialization.

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Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

Block comments in this style.

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It was modified by The libjpeg-turbo Project to include only code relevant to libjpeg-turbo.
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This file documents the configuration options that are required to customize the JPEG software for a particular system.

The actual configuration options for a particular installation are stored in jconfig.h. On many machines, jconfig.h can be generated automatically or copied from one of the "canned" jconfig files that we supply. But if you need to generate a jconfig.h file by hand, this file tells you how.

DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
EDIT A COPY NAMED JCONFIG.H.

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This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file `example.c` provides heavily commented skeleton code for calling the JPEG library. Also see `jpeglib.h` (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The `README.ijg` file includes references for learning about JPEG. The file `libjpeg.txt` describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file `coderrules.txt` describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:

- A "component" means a color channel, e.g., Red or Luminance.
- A "sample" is a single component value (i.e., one number in the image data).
- A "coefficient" is a frequency coefficient (a DCT transform output number).
- A "block" is an 8x8 group of samples or coefficients.
- An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:

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This file defines the error and message codes for the cjpeg/djpeg applications. These strings are not needed as part of the JPEG library proper.

Edit this file to add new codes, or to translate the message strings to some other language.

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This file contains common declarations for the sample applications cjpeg and djpeg. It is NOT used by the core JPEG library.

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This file contains declarations for Huffman entropy encoding routines that are shared between the sequential encoder (jchuff.c) and the progressive encoder (jcphuff.c). No other modules need to see these.

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This file contains declarations for Huffman entropy decoding routines that are shared between the sequential decoder (jdhuff.c) and the progressive decoder (jdphuff.c). No other modules need to see these.

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This file contains the master control structure for the JPEG decompressor.

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This file defines the error and message codes for the JPEG library.
Edit this file to add new codes, or to translate the message strings to some other language.

A set of error-reporting macros are defined too. Some applications using the JPEG library may wish to include this file to get the error codes and/or the macros.

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This file exists to provide a single place to fix any problems with including the wrong system include files. (Common problems are taken care of by the standard jconfig symbols, but on really weird systems you may have to edit this file.)

NOTE: this file is NOT intended to be included by applications using the JPEG library. Most applications need only include jpeglib.h.

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This include file defines the interface between the system-independent and system-dependent portions of the JPEG memory manager. No other modules need include it. (The system-independent portion is jmemmgr.c; there are several different versions of the system-dependent portion.)

This file works as-is for the system-dependent memory managers supplied in the IJG distribution. You may need to modify it if you write a custom memory manager. If system-dependent changes are needed in this file, the best method is to #ifdef them based on a configuration symbol supplied in jconfig.h.

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This file contains additional configuration options that customize the JPEG software for special applications or support machine-dependent optimizations. Most users will not need to touch this file.

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JPEG compatibility macros
These declarations are considered internal to the JPEG library; most applications using the library shouldn't need to include this file.

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This file provides common declarations for the various JPEG modules.
These declarations are considered internal to the JPEG library; most applications using the library shouldn't need to include this file.

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This file defines the application interface for the JPEG library.
Most applications using the library need only include this file, and perhaps jerror.h if they want to know the exact error codes.

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file.

This contains for transformation and
other code by jpegtran application. These are
NOT of core library. But keep routines separate
from to the of jpegtran-like programs
that other interfaces.

NOTE: the declared have specific requirements
about they to executed the and of the
source destination the in or see
jpegtran.c an of usage.

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.so man.macros

.TH ldap n "" Ldap "Ldap Tcl Extension"

.BS

Note: do not modify the .SH NAME line immediately below!

.SH NAME

ldap *%*- connect to and query an LDAP server

.SH SYNOPSIS

*%*Bldap *%*Bopen *%*R *%*fIcommand*%*fR *%*fIhostlist*%*fR

*%*fBldap *%*fBinit *%*R *%*fIcommand*%*fR *%*fIhostlist*%*fR *%*protocol_version [2|3]?

*%*fBldap *%*fBexplode *%*-nonames|-list?*%*fR *%*fIdn*%*fR

*%*fIcommand *%*fBsubcommand *%*fIoptions ...*%*fR

.BE

.SH OVERVIEW

.PP

A new command by the name of *%*fIcommand*%*fR will be created to access
the LDAP database at *%*fIhostlist*%*fR. *%*fIhostlist*%*fR may contain elements
of the format *%*fBhost:port*%*fR if a port other than the default LDAP port
of 389 is required. The LDAP library will attempt to connect to each
host in turn until it succeeds or exhausts the list.

.PP

The *%*fBexplode*%*fR form provides a means (via `ldap_explode(3)`) to explode a DN
into its component parts. *%*fB-nonames*%*fR strips off the attribute names,
and -list returns a list suitable for *%*fBarray set*%*fR.

.PP

Finally, the last form, described in more detail below, refers generically
to how the command created by the first two examples is used.

.SH DESCRIPTION

The Lightweight Directory Access Protocol provides TCP/IP access to

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This directory contains an extension to Tcl to interface with an

LDAP server. While this software is being released to the OpenLDAP community, it is the authors' intention that support continue (and be added) for other client libraries as well. As time goes on, it is expected that code will converge rather than diverge.

Support is provided for University of Michigan LDAP version 3.3, OpenLDAP, and Netscape. The default configuration supports OpenLDAP 1.2.4 and above.

OpenLDAP 2.x is supported, but there is not yet any support for using SASL or TLS. There may be interface changes in the LDAP API which the author is unaware of (a leak was recently fixed for the return values of `ldap_first/next_attribute()` calls).

It uses GNU autoconf. It builds and installs without requiring parallel directories, but it does require that Tel and Extended Tel are installed in the directory pointed to by `--prefix (/usr/local` by default).

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This directory contains a Component Matching module and a X.509 Certificate example. In order to understand Component Matching, see RFC 3687 and <http://www.openldap.org/conf/odd-sandiego-2004/Sangseok.pdf>

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Schema for Representing CORBA Object References in an LDAP Directory

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RFC1274: Cosine and Internet X.500 schema

This file contains LDAPv3 schema derived from X.500 COSINE "pilot"
schema. As this schema was defined for X.500(89), some
oddities were introduced in the mapping to LDAPv3. The
mappings were based upon: draft-ietf-asid-ldapv3-attributes-03.txt
(a work in progress)

Note: It seems that the pilot schema evolved beyond what was
described in RFC1274. However, this document attempts to describes
RFC1274 as published.

Depends on core.ldif

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Dynamic Group schema (experimental), as defined by Netscape. See
<http://www.redhat.com/docs/manuals/ent-server/pdf/esadmin611.pdf>
page 70 for details on how these groups were used.

A description of the objectclass definition is available here:
http://www.redhat.com/docs/manuals/dir-server/schema/7.1/oc_dir.html#1303745

depends upon:
core.schema

These definitions are considered experimental due to the lack of a formal specification (e.g., RFC).

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The Netscape documentation describes this as an auxiliary objectclass but their implementations have always defined it as a structural class. The sloppiness here is because Netscape-derived servers don't actually implement the X.500 data model, and they don't honor the distinction between structural and auxiliary classes. This fact is noted here:
<http://forum.java.sun.com/thread.jspa?threadID=5016864&messageID=9034636>

In accordance with other existing implementations, we define it as a structural class.

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Definitions from Draft behera-ldap-password-policy-07 (a work in progress)
Password Policy for LDAP Directories
With extensions from Hewlett-Packard:
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Dynamic Group schema (experimental), as defined by Netscape. See <http://www.redhat.com/docs/manuals/ent-server/pdf/esadmin611.pdf> page 70 for details on how these groups were used.

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Definitions from RFC2307 (Experimental)

An Approach for Using LDAP as a Network Information Service

Depends upon core.schema and cosine.schema

Note: The definitions in RFC2307 are given in syntaxes closely related to those in RFC2252, however, some liberties are taken that are not supported by RFC2252. This file has been written following RFC2252 strictly.

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.TH ldap n "" Ldap "Ldap Tcl Extension"
.BS
Note:  do not modify the .SH NAME line immediately below!
.SH NAME
ldap % - connect to and query an LDAP server
.SH SYNOPSIS
%Bldap %Bopen %R %fIcommand%fR %fIhostlist%fR

%fBldap %fBinit %R %fIcommand%fR %fIhostlist%fR ?protocol_version [2|3]?

%fBldap %fBexplode ?-nonames|-list?%fR %fIdn%fR

%fIcommand %fBsubcommand %fIoptions ...%fR
.BE
```

.SH OVERVIEW

.PP

A new command by the name of %fIcommand%fR will be created to access
the LDAP database at %fIhostlist%fR. %fIhostlist%fR may contain elements
of the format %fBhost:port%fR if a port other than the default LDAP port
of 389 is required. The LDAP library will attempt to connect to each
host in turn until it succeeds or exhausts the list.

.PP

The %fBexplode%fR form provides a means (via ldap_explode(3)) to explode a DN
into its component parts. %fB-nonames%fR strips off the attribute names,
and -list returns a list suitable for %fBarray set%fR.

.PP

Finally, the last form, described in more detail below, refers generically
to how the command created by the first two examples is used.

.SH DESCRIPTION

The Lightweight Directory Access Protocol provides TCP/IP access to

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LDAP server. While this software is being released to the OpenLDAP
community, it is the authors' intention that support continue (and
be added) for other client libraries as well. As time goes on, it
is expected that code will converge rather than diverge.

Support is provided for University of Michigan LDAP version 3.3,
OpenLDAP, and Netscape. The default configuration supports
OpenLDAP 1.2.4 and above.

OpenLDAP 2.x is supported, but there is not yet any support for
using SASL or TLS. There may be interface changes in the LDAP API
which the author is unaware of (a leak was recently fixed for the
return values of ldap_first/next_attribute() calls).

It uses GNU autoconf. It builds and installs without requiring
parallel directories, but it does require that Tcl and Extended Tcl
are installed in the directory pointed to by --prefix (/usr/local
by default).

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This directory contains a Component Matching module and a X.509 Certificate example. In order to understand Component Matching, see RFC 3687 and <http://www.openldap.org/conf/odd-sandiego-2004/Sangseok.pdf>

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From RFC 3671 [portions trimmed]:

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From RFC 2714 [portions trimmed]:

Schema for Representing CORBA Object References in an LDAP Directory

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RFC1274: Cosine and Internet X.500 schema

This file contains LDAPv3 schema derived from X.500 COSINE "pilot" schema. As this schema was defined for X.500(89), some oddities were introduced in the mapping to LDAPv3. The mappings were based upon: draft-ietf-asid-ldapv3-attributes-03.txt (a work in progress)

Note: It seems that the pilot schema evolved beyond what was

described in RFC1274. However, this document attempts to describes RFC1274 as published.

Depends on core.ldif

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Dynamic Group schema (experimental), as defined by Netscape. See <http://www.redhat.com/docs/manuals/ent-server/pdf/esadmin611.pdf> page 70 for details on how these groups were used.

A description of the objectclass definition is available here: http://www.redhat.com/docs/manuals/dir-server/schema/7.1/oc_dir.html#1303745

depends upon:
 core.schema

These definitions are considered experimental due to the lack of a formal specification (e.g., RFC).

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The Netscape documentation describes this as an auxiliary objectclass but their implementations have always defined it as a structural class. The sloppiness here is because Netscape-derived servers don't actually implement the X.500 data model, and they don't honor the distinction between structural and auxiliary classes. This fact is noted here: <http://forum.java.sun.com/thread.jspa?threadID=5016864&messageID=9034636>

In accordance with other existing implementations, we define it as a structural class.

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Definitions from Draft behera-ldap-password-policy-07 (a work in progress)
Password Policy for LDAP Directories
With extensions from Hewlett-Packard:
pwdCheckModule etc.

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page 70 for details on how these groups were used.

A description of the objectclass definition is available here:
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depends upon:
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These definitions are considered experimental due to the lack of
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The sloppiness here is because Netscape-derived servers don't actually
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Definitions from RFC2307 (Experimental)
An Approach for Using LDAP as a Network Information Service

Depends upon core.schema and cosine.schema

Note: The definitions in RFC2307 are given in syntaxes closely related to those in RFC2252, however, some liberties are taken that are not supported by RFC2252. This file has been written following RFC2252 strictly.

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relpath.awk Script is used to calculate relative path
between two real absolute paths.

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This file is part of LVM2.
It is required for the proper handling of failures of LVM2 mirror
devices that were created using the -m option of lvcreate.

chkconfig 12345 02 99
description Starts and stops dmeventd monitoring for lvm2

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or
CPU_TYPE-MANUFACTURER-KERNEL-OPERATING_SYSTEM
The environment variables CC, GCC, LDFLAGS, LD, with_gnu_ld
should be set by the caller.

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2013-03-01 first implementation based on randsocial.c in old oqgraph v2 tree

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dbench_monitor monitor db_bench process for violation of memory utilization

default usage will monitor 'virtual memory size'. See below for standard options
passed to db_bench during this test.

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OCCUR Table that provides a view of a source table where the */
contain of several columns of the source table is placed in only */
one column, the OCCUR column, this resulting into several rows.

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This program is the REST Web API support for MariaDB. */
The way Connect handles NOSQL data returned by REST queries is */
just by retrieving it as a file and then leave the existing data */
type tables (JSON, XML or CSV) process it as usual.

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```
make -fmakefile.dj2; make test -fmakefile.dj2
```

To install libz.a, zconf.h and zlib.h in the djgpp directories, type

```
make install -fmakefile.dj2
```

after first defining LIBRARY_PATH and INCLUDE_PATH in djgpp.env as
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Rewritten with a lot of bug fixes by Jani Tolonen and Thimble Smith
15.12.2000

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You can use mail-files that are compressed or gzipped and ends with
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See header of zip.h

('C:/Users/schindhana/Documents/OSS Encryption Check/OSS packages/mariadb-10.3/mariadb-10.3-10.3.34/storage/federatedx/ha_federatedx.h')

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Rewritten for MariaDB Connector/C by Georg Richter <georg@mariadb.com>

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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.

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relational fashion. In a nutshell, tree structures and
friend-of-a-friend style searches can now be done using standard SQL
syntax, and results joined onto other tables.

Based on a concept by Arjen Lentz
v3 implementation by Antony Curtis, Arjen Lentz, Andrew McDonnell
For more information, documentation, support, enhancement engineering,
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[Exhibit_480]

GPLV2(Many files exist)

Summary: Thread-safe hash library
Name: mhash
Version: 0.9.9
Release: 1
Copyright: LGPL
Group: System Environment/Libraries
Source: <http://mhash.sf.net/dl/%{name}-%{version}.tar.gz>
BuildRoot: /tmp/%{name}-%{version}-root
Packager: Germano Rizzo <mano@pluto.linux.it>
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Adapted to pike and some cleanup by Niels M ller.

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The MD2 hash function, described in RFC 1319.
This code was originally written by Niels M ller for libnettle. It
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[Exhibit_483]

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Antoni Bella Perez <bella5@teleline.es>, 2002, 2003.
Jordi Mallach <jordi@gnu.org>, 2004, 2005.
Josep Puigdemont <josep.puigdemont@gmail.com>, 2005

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#
# JiřÃ½ PavlovskÃ½ <pavlovsk@ff.cuni.cz>, 1999 - 2001.
# Petr PÃ½sa <petr.pisar@atlas.cz>, 2006.
# VladimÃ½r Michl <vladimir.michl@seznam.cz>, 2007
# Petr PÃ½sa <petr.pisar@atlas.cz>, 2007, 2008, 2009, 2010, 2011, 2012, 2013.
# Petr PÃ½sa <petr.pisar@atlas.cz>, 2014, 2015, 2016, 2017, 2018.
#
# eject tool messages merged from eject-2.1.5:
# Jeff Tranter <tranter@pobox.com>, 2005.
# Marek ÅernockÃ½ <marek@manet.cz>, 2006.
#
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# Claus SÃ½rensen <cs@klid.dk>, 2000.
# Keld JÃ½rn Simonsen <keld@dikuug.dk>, 2000.
# Claus Hindsgaul <claus_h@image.dk>, 2001-2002, 2004, 2005.
# Joe Hansen <joadalton2@yahoo.dk>, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017.
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# Copyright © 2014 Benjamin Weis <benjamin.weis@gmx.com>
# Mario Blättermann <mario.blaettermann@gmail.com>, 2014, 2015.
# Philipp Thomas <pth@suse.de>, 2014, 2015, 2017.
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#
# If you have additions/changes/other requests, please
# send them to me (Elrond <Elrond@Wunder-Nett.org>)!
#
# People who helped or contributed (in historical order):
# Martin Schulze <joey@infodrom.north.de>
# Daniel Egger <Daniel.Egger@suse.de>
# deliA <deliA@Wunder-Nett.org>

```

```

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# Copyright (C) 2001, 2002, 2003 Santiago Vila Doncel <sanvila@unex.es>.
#
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#
# Beth Powell <bpowell@turbolinux.com>, 2000.
# Santiago Vila Doncel <sanvila@unex.es>, 2001, 2002, 2003, 2004, 2010, 2014.
# Antonio Ceballos Roa <aceballos@gmail.com>, 2014, 2015, 2016, 2017, 2018.
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# Copyright (C) 2002 Meelis Roos <mroos@linux.ee>
# Meelis Roos <mroos@linux.ee>, 2002
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# Basque translation of util-linux-ng.
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# Mikel Olasagasti Uranga <hey_neken@mundurat.net>, 2005, 2009, 2010.
# , fuzzy
#
#
# Finnish messages for util-linux
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# Copyright © 2002-2018 Lauri Nurmi <lanurmi@iki.fi>
# Lauri Nurmi <lanurmi@iki.fi>, 2002-2018.
# Tommi Nieminen <translator@legisign.org>, 2017.
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# ja levittää vapaasti edellyttäen, että tätä otsikkoa
# ei poisteta, ja muutetut versiot merkitään muutetuiksi.
#
# ***
# "signature" tarvitsee paremman suomennoksen kuin "allekirjoitus".
# ***
# Translation of util-linux-ng runtime message to French.
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# Michel Robitaille <robitail@IRO.UMontreal.CA>, 1996-2006.
# Nicolas Provost <nprovost@quadriv.com>, 2008-2009.
# Milan Bouchet-Valat <nalimilan@club.fr>, 2010.
# David PrÃ©vot <david@tilapin.org>, 2010-2015.
# StÃ©phane Aulery <lkppo@free.fr>, 2016, 2017.
# Frédéric Marchal <fmarchal@perso.be>, 2018.
#
# Galician translation for util-linux
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# FIRST AUTHOR <EMAIL@ADDRESS>, 2010.
# Fran Dieguez <frandieguez@ubuntu.com>, 2010.
# Fran DiÃ©guez <frandieguez@ubuntu.com>, 2010.
#
# Translation of util-linux to Croatian.
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# Tomislav Krznar <tomislav.krznar@gmail.com>, 2012, 2013.
#
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#
# Gábor István <stive@mezobereny.hu>, 2002.
# Gabor Kelemen <kelemeng@gnome.hu>, 2007, 2008, 2010.
# Pesan Bahasa Indonesia untuk util-linux
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# Arif E. Nugroho <arif_endro@yahoo.com>, 2006, 2008, 2009, 2010.
#
# Italian messages for util-linux-ng.
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# Marco Colombo <m.colombo@ed.ac.uk>, 2005, 2006, 2008.
# Beth Powell <bpowell@turbolinux.com>, 2000.
#
# partition table: tavola delle partizioni? tabella delle partizioni?
# Japanese messages for util-linux
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# includes cfdisk original translation by
# Hidenobu NABETANI <nabetani@kern.phys.sci.osaka-u.ac.jp>
# Daisuke Yamashita <yamad@mb.infoweb.ne.jp>, 1999-2001.
# Makoto Kato <makoto.kt@gmail.com>, 2009-2010.
# Takeshi Hamasaki <hmatrjp@users.sourceforge.jp>, 2011, 2013.
# victory <victory.deb@gmail.com>, 2013.
# Takeshi Hamasaki <hmatrjp@users.sourceforge.jp>, 2014, 2015, 2016, 2017, 2018.
#
# (Additional History)
# Once util-linux-ng was forked from util-linux,
# as of January 2011 it has overridden original name util-linux.
# Work in 2013 is by courtesy of Yasuhiko Kamata <belphegor@belbel.or.jp>.

# Dutch translations for the 'util-linux' Linux Utilities.
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#

```

[illegible]

```

# Simon Mihevc <simonmihevc@volja.net>, 2005, 2006
# $Id: util-linux-2.13-pre6.sl.po,v 1.3 2006/03/04 19:29:34 peterlin Exp $
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# Christian Rose <menthos@menthos.com>, 2001, 2002, 2003, 2004.
# Daniel Nylander <po@danielnylander.se>, 2007.
# Sebastian Rasmussen <sebras@gmail.com>, 2016, 2017, 2018.
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# Turkish translations for util-linux messages.
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# Nilgün Belma Bugünler <nilgun@buguner.name.tr>, 2001, ..., 2006.
# Alper Tekinalp <alper.tekinalp@gmail.com>, 2017.
#
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#
# Maxim V. Dziuromanenko <mvd@mylinux.com.ua>, 2004-2006.
# Yuri Chornoivan <yurchor@ukr.net>, 2012, 2013, 2014, 2015, 2016, 2017, 2018.

# Vietnamese translation for Util-Linux.
# BàoEn dá«ch tiáong Viá«t đã nh cho util-linux.
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# Phan Vinh Thinh <teppi82@gmail.com>, 2005-2007.
# Clytie Siddall <clytie@riverland.net.au>, 2007-2010.
# Tráo§n Ngá«c Quãon <vnwildman@gmail.com>, 2012-2014, 2015.
#
# Chinese simplified translation of util-linux.
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# Ray Wang <wanglei1123@gmail.com>, 2008.
# Wylmer Wang <wantinghard@gmail.com>, 2012, 2013, 2014, 2015, 2016.

# Traditional Chinese Messages for util-linux.
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# Wei-Lun Chao <bluebat@member.fsf.org>, 2010.

```

GPLV1(Many files exist)

fsck --- A generic, parallelizing front-end for the fsck program.
It will automatically try to run fsck programs in parallel if the
devices are on separate spindles. It is based on the same ideas as
the generic front end for fsck by David Engel and Fred van Kempen,
but it has been completely rewritten from scratch to support
parallel execution.

Written by Theodore Ts'o, <tytso@mit.edu>

Miquel van Smoorenburg (miquels@drinkel.ow.org) 20-Oct-1994:

- o Changed -t fstype to behave like with mount when -A (all file
systems) or -M (like mount) is specified.
- o fsck looks if it can find the fsck.type program to decide
if it should ignore the fs type. This way more fsck programs
can be added without changing this front-end.
- o -R flag skip root file system.

Copyright (C) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
2001, 2002, 2003, 2004, 2005 by Theodore Ts'o.

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License.

mkfs.minix.c - make a linux (minix) file-system.

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the Linux copyright.

mkswap.c - set up a linux swap device

Copyright (C) 1991 Linus Torvalds
20.12.91 - time began. Got VM working yesterday by doing this by hand.

Copyright (C) 1999 Jakub Jelinek <jj@ultra.linux.cz>
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partx: tell the kernel about your disk's partitions
[This is not an fdisk - adding and removing partitions
is not a change of the disk, but just telling the kernel
about presence and numbering of on-disk partitions.]

aeb, 2000-03-21 -- sah is 42 now

Copyright (C) 2010 Davidlohr Bueso <dave@gnu.org>
Rewritten to use libblkid for util-linux
based on ideas from Karel Zak <kzak@redhat.com>

swaplabel.c - Print or change the label / UUID of a swap partition

Copyright (C) 2010 Jason Borden <jborden@bluehost.com>
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Usage: swaplabel [-L label] [-U UUID] device

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Written by Karel Zak <kzak@redhat.com>

canonicalize.c -- canonicalize pathname by removing symlinks

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Terminology:

cpuset#NAME?

cpumask- string with hex mask (e.g. "0x00000001")

cpulist - string with CPU ranges (e.g. "0-3,5,7,8")

Based on code from taskset.c and Linux kernel.

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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 high-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 operations 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

Copyright (C) 2012 Sami Kerola <kerolasa@iki.fi>

smounted.c --- Check to see if the filesystem was mounted

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Written by Karel Zak <kzak@redhat.com>

-- based on mount/losetup.c

Simple library for work with loop devices.

- requires kernel 2.6.x
- reads info from /sys/block/loop<N>/loop/<attr> (new kernels)
- reads info by ioctl
- supports *unlimited* number of loop devices
- supports /dev/loop<N> as well as /dev/loop/<N>
- minimize overhead (fd, loopinfo, ... are shared for all operations)
- setup (associate device and backing file)
- delete (dis-associate file)
- old LOOP_{SET,GET}_STATUS (32bit) ioctls are unsupported
- extendible

Functions for %oct encoding used in mtab/fstab/swaps/etc.

Based on code from mount(8).

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LGPLV2(Many files exist)

Very simple multibyte buffer editor. Allows to maintain the current position in the string, add and remove chars on the current position.

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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.

GPLV3('parse-date.c',)

Simple functions to access files. Paths can be globally prefixed to read data from an alternative source (e.g. a /proc dump for regression tests).

The paths is possible to format by printf-like way for functions with "f" postfix in the name (e.g. readf, openf, ... ul_path_readf_u64()).

The ul_path_read_* API is possible to use without path_cxt handler. In this case is not possible to use global prefix and printf-like formatting.

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Written by Karel Zak <kzak@redhat.com> [February 2018]

General purpose random utilities

Based on libuuid code.

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atari partitions parsing code

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Based on Linux kernel implementation and atari-fdisk

BSD/OSF partition parsing code

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Inspired by fdisk, partx, Linux kernel, libparted and openbsd header files.

MS-DOS partition parsing code

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Inspired by fdisk, partx, Linux kernel and libparted.

EFI GPT partition parsing code

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For more information about GPT start your study at:
http://en.wikipedia.org/wiki/GUID_Partition_Table
[http://technet.microsoft.com/en-us/library/cc739412\(W.S.10\).aspx](http://technet.microsoft.com/en-us/library/cc739412(W.S.10).aspx)

unixware partition parsing code

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The interesting information about unixware PT:

- Linux kernel / partx
- vtoc(7) SCO UNIX command man page
- evms source code (<http://evms.sourceforge.net/>)
- vxtools source code (<http://martin.hinner.info/fs/vxfs/>)

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Partly based on the Haiku BFS driver by
Axel Dörfler <axeld@pinc-software.de>

Also inspired by the Linux BeFS driver by
Will Dyson <will_dyson@pobox.com>, et al.

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DRBD is a blocklevel replication solution in the Linux kernel,
upstream since 2.6.33. (See <http://drbd.linbit.com/>)
DRBDmanage is a configuration frontend that assists in
creating/deleting/modifying DRBD resources across multiple machines
(a DRBDmanage "cluster"); this file detects its control volume,
which is replicated (via DRBD 9) on some of the nodes.

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This is written from scratch according to Linux kernel fs/sysv/super.c file.
It seems that sysv probing code in libvolume_id and also in the original
blkid is useless.

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Inspired by libvolume_id by
Kay Sievers <kay.sievers@vrfy.org>

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tag.c - allocation/initialization/free routines for tag structs

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sysfs based topology -- gathers topology information from Linux sysfs

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For more information see Linux kernel Documentation/ABI/testing/sysfs-block.

version.c --- Return the version of the blkid library

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Based on the original code from fdisk
written by Bernhard Fastenrath (fasten@informatik.uni-bonn.de)
with code from the NetBSD disklabel command.

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David Huggins-Daines <dhuggins@linuxcare.com>, January 2000

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This is re-written version for libfdisk, the original was fdiskdoslabel.c
from util-linux fdisk.

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GUID Partition Table (GPT) support. Based on UEFI Specs 2.3.1
Chapter 5: GUID Partition Table (GPT) Disk Layout (Jun 27th, 2012).
Some ideas and inspiration from GNU parted and gptfdisk.

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2013 Karel Zak <kzak@redhat.com>

This is a re-written version for libfdisk, the original was fdisksgilabel.c
from util-linux fdisk, by:

Andreas Neuper, Sep 1998,
Arnaldo Carvalho de Melo <acme@conectiva.com.br>, Mar 1999,
Phillip Kesling <pkesling@sgi.com>, Mar 2003.

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Based on original code from fdisk:
Jakub Jelinek (jj@sunsite.mff.cuni.cz), July 1996
Merged with fdisk for other architectures, acb, June 1998.
Arnaldo Carvalho de Melo <acme@conectiva.com.br> Mar 1999, Internationalization

version.c - Return the version of the library

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auth.c -- PAM authorization code, common between chsh and chfn
(c) 2012 by Cody Maloney <cmaloney@theoreticalchaos.com>

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chfn and chsh shared functions

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chfn.c -- change your finger information
(c) 1994 by salvatore valente <svalente@athena.mit.edu>
(c) 2012 by Cody Maloney <cmaloney@theoreticalchaos.com>

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\$Author: aebr \$
\$Revision: 1.18 \$
\$Date: 1998/06/11 22:30:11 \$

Updated Thu Oct 12 09:19:26 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Hacked by Peter Breitenlohner, peb@mppmu.mpg.de,
to remove trailing empty fields. Oct 5, 96.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

chsh.c -- change your login shell
(c) 1994 by salvatore valente <svalente@athena.mit.edu>
(c) 2012 by Cody Maloney <cmaloney@theoreticalchaos.com>

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\$Author: aebr \$
\$Revision: 1.19 \$
\$Date: 1998/06/11 22:30:14 \$

Updated Thu Oct 12 09:33:15 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Updated Mon Jul 1 18:46:22 1996 by janl@math.uio.no with security
suggestion from Zefram. Disallowing users with shells not in /etc/shells
from changing their shell.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

libuser.c -- Utilize libuser to set a user attribute
(c) 2012 by Cody Maloney <cmaloney@theoreticalchaos.com>

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login(1)

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Rewritten to PAM-only version.

Michael Glad (glad@daimi.dk)
Computer Science Department, Aarhus University, Denmark
1990-07-04

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Updated Thu Oct 12 09:56:55 1995 by faith@cs.unc.edu with security patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Updated Thu Nov 9 21:58:53 1995 by Martin Schulze <joeey@finlandia.infodrom.north.de>. Support for vigr.

Martin Schulze's patches adapted to Util-Linux by Nicolai Langfeldt.

blkid.c - User command-line interface for libblkid

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
Sun Mar 21 1999 - Arnaldo Carvalho de Melo <acme@conectiva.com.br>
- fixed strerr(errno) in gettext calls

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The test heavily uses shared memory, to enlarge maximal size of shared segment use:

```
echo "4294967295" > /proc/sys/kernel/shmm
```

The test is compiled against in-tree libuuid, if you want to test uuid installed to the system then make sure that libuuid uses the same socket like the running uuid. You can start the uuid manually, for example:

```
uuid --debug --no-fork --no-pid --socket /run/uuid/request
```

if the \$runitdir (as defined by build-system) is /run. If you want to overwrite the built-in default then use:

```
make uuid uuidgen runstatedir=/var/run
```

uuid.c --- UUID-generation daemon

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gen_uuid.c --- generate a DCE-compatible uuid

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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c

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All alterations (C) 2017 Sami Kerola

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
2011-08-12 Davidlohr Bueso <dave@gnu.org>
- added \$PATH lookup

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2013 Sami Kerola <kerolasa@iki.fi>

dmesg.c -- Print out the contents of the kernel ring buffer

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fallocate - utility to use the fallocate system call

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Written by Eric Sandeen <sandeen@redhat.com>
Karel Zak <kzak@redhat.com>

cvtnum routine taken from xfsprogs,
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Originally from Ted's losetup.c

losetup.c - setup and control loop devices

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/dev/rfkill userspace tool

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zramctl - control compressed block devices in RAM

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Modified Fri Mar 10 20:27:19 1995, faith@cs.unc.edu, for Linux

Modified Mon Jul 1 18:14:10 1996, janl@ifi.uio.no, writing to stdout

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setterm.c, set terminal attributes.

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Adaption to Linux by Peter MacDonald.

Enhancements by Mika Liljeberg (liljeber@cs.Helsinki.FI)

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Sanity increases by Cafeine Addict [sic].

Powersave features by todd j. derr <tjd@wordsmith.org>

Converted to terminfo by Kars de Jong (jongk@cs.utwente.nl)

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

Semantics:

Setterm writes to standard output a character string that will invoke the specified terminal capabilities. Where possible

terminfo is consulted to find the string to use. Some options however do not correspond to a terminfo capability. In this case if the terminal type is "con*", or "linux*" the string that invokes the specified capabilities on the PC Linux virtual console driver is output. Options that are not implemented by the terminal are ignored.

The following options are non-obvious.

- term can be used to override the TERM environment variable.
- reset displays the terminal reset string, which typically resets the terminal to its power on state.

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Modified for Linux, Mon Mar 8 18:16:24 1993, faith@cs.unc.edu
Wed Jun 22 21:41:56 1994, faith@cs.unc.edu:
Added fix from Mike Grupenhoff (kashmir@umiacs.umd.edu)
Mon Jul 1 17:01:39 MET DST 1996, janl@math.uio.no:

This testing program makes sure the byteswap functions work

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Written by Sami Kerola <kerolas@iki.fi>

Written by Federico Bento <up201407890@alunos.dcc.fc.up.pt>

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Wed Jun 22 22:15:41 1994, faith@cs.unc.edu: Added internationalization patches from Andries.Brouwer@cw.nl

Wed Sep 14 22:31:17 1994: patches from Carl Christofferson (cchris@connected.com)

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pg - A clone of the System V CRT paging utility.

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Modified for Linux by Charles Hannum (mycroft@gnu.ai.mit.edu)
and Brian Koehmstedt (bpk@gnu.ai.mit.edu)

Wed Sep 14 22:26:00 1994: Patch from bjdouma <bjdouma@xs4all.nl> to handle
last line that has no newline correctly.

3-Jun-1998: Patched by Nicolai Langfeldt to work better on Linux:
Handle any-length-lines. Code copied from util-linux' setpwnam.c

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* (based on list.h from e2fsprogs)
* Merge sort based on kernel's implementation.

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*
* General memory allocation wrappers for malloc, realloc, calloc and strdup

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libnetfilter-conntrack-1.0.7/debian/copyright,libnetfilter-conntrack-1.0.7/debian/control,libnetfilter-conntrack-1.0.7/debian/compat,libnetfilter-conntrack-1.0.7/debian/changelog,,libnetfilter-conntrack-1.0.7/include/libnetfilter_conntrack/libnetfilter_conntrack.h,libnetfilter-conntrack-1.0.7/include/internal/types.h,libnetfilter-conntrack-1.0.7/include/internal/stack.h,libnetfilter-conntrack-1.0.7/include/internal/prototypes.h,libnetfilter-conntrack-1.0.7/include/internal/object.h,libnetfilter-conntrack-1.0.7/include/internal/linux_list.h,libnetfilter-conntrack-1.0.7/include/internal/internal.h,libnetfilter-conntrack-1.0.7/include/internal/extern.h,libnetfilter-conntrack-1.0.7/include/internal/bitops.h,libnetfilter-conntrack-1.0.7/examples/nfexp-mnl-event.c,libnetfilter-conntrack-1.0.7/examples/nfexp-mnl-dump.c,libnetfilter-conntrack-1.0.7/examples/nfct-mnl-set-label.c,libnetfilter-conntrack-1.0.7/examples/nfct-mnl-get.c,libnetfilter-conntrack-1.0.7/examples/nfct-mnl-flush.c,libnetfilter-conntrack-1.0.7/examples/nfct-mnl-event.c,libnetfilter-conntrack-1.0.7/examples/nfct-mnl-dump.c,libnetfilter-conntrack-1.0.7/examples/nfct-mnl-dump-labels.c,libnetfilter-conntrack-1.0.7/examples/nfct-mnl-del.c,libnetfilter-conntrack-1.0.7/examples/nfct-mnl-create.c,libnetfilter-conntrack-1.0.7/debian/source/format,libnetfilter-conntrack-1.0.7/debian/watch,libnetfilter-conntrack-1.0.7/debian/rules,libnetfilter-conntrack-1.0.7/debian/libnetfilter-conntrack3.install,libnetfilter-conntrack-1.0.7/debian/libnetfilter-conntrack3-dbg.dirs,libnetfilter-conntrack-1.0.7/debian/libnetfilter-conntrack-dev.install,libnetfilter-conntrack-1.0.7/debian/libnetfilter-conntrack-dev.dirs,,libnetfilter-conntrack-1.0.7/src/callback.c,libnetfilter-conntrack-1.0.7/qa/test_filter.c,libnetfilter-conntrack-1.0.7/qa/test_connlabel.c,libnetfilter-conntrack-1.0.7/qa/test_api.c,libnetfilter-conntrack-1.0.7/qa/ct_stress.c,libnetfilter-conntrack-1.0.7/qa/ct_events_reliable.c,libnetfilter-conntrack-1.0.7/include/libnetfilter_conntrack/linux_nfnetlink_conntrack.h,libnetfilter-conntrack-1.0.7/include/libnetfilter_conntrack/linux_nf_conntrack_common.h,libnetfilter-conntrack-1.0.7/include/libnetfilter_conntrack/libnetfilter_conntrack_udp.h,libnetfilter-conntrack-1.0.7/include/libnetfilter_conntrack/libnetfilter_conntrack_tcp.h,libnetfilter-conntrack-1.0.7/include/libnetfilter_conntrack/libnetfilter_conntrack_sctp.h,libnetfilter-conntrack-1.0.7/include/libnetfilter_conntrack/libnetfilter_conntrack_ipv6.h,libnetfilter-conntrack-1.0.7/include/libnetfilter_conntrack/libnetfilter_conntrack_ipv4.h,libnetfilter-conntrack-1.0.7/include/libnetfilter_conntrack/libnetfilter_conntrack_icmp.h,libnetfilter-conntrack-1.0.7/src/main.c,,libnetfilter-conntrack-1.0.7/src/conntrack/api.c,,libnetfilter-conntrack-1.0.7/src/conntrack/bsf.c,,libnetfilter-conntrack-1.0.7/src/conntrack/build.c,,libnetfilter-conntrack-1.0.7/src/conntrack/build_mnl.c,,libnetfilter-conntrack-1.0.7/src/conntrack/compare.c,,libnetfilter-conntrack-1.0.7/src/conntrack/copy.c,,libnetfilter-conntrack-1.0.7/src/conntrack/filter.c,,libnetfilter-conntrack-1.0.7/src/conntrack/filter_dump.c,,libnetfilter-conntrack-1.0.7/src/conntrack/getter.c,,libnetfilter-conntrack-1.0.7/src/conntrack/grp.c,,libnetfilter-conntrack-1.0.7/src/conntrack/grp_getter.c,,libnetfilter-conntrack-1.0.7/src/conntrack/grp_setter.c,,libnetfilter-conntrack-1.0.7/src/conntrack/objopt.c,libnetfilter-conntrack-1.0.7/src/conntrack/labels.c,,libnetfilter-conntrack-1.0.7/src/conntrack/parse.c,,libnetfilter-conntrack-1.0.7/src/conntrack/parse_mnl.c,,libnetfilter-conntrack-1.0.7/src/conntrack/setter.c,,libnetfilter-conntrack-1.0.7/src/conntrack/snprintf.c,,libnetfilter-conntrack-1.0.7/src/conntrack/snprintf_default.c,,libnetfilter-conntrack-1.0.7/src/conntrack/snprintf_xml.c,,libnetfilter-conntrack-1.0.7/src/conntrack/stack.c,,libnetfilter-conntrack-1.0.7/src/expect/api.c,,libnetfilter-conntrack-1.0.7/src/expect/build.c,,libnetfilter-conntrack-1.0.7/src/expect/build_mnl.c,,libnetfilter-conntrack-1.0.7/src/expect/compare.c,,libnetfilter-conntrack-1.0.7/src/expect/getter.c,,libnetfilter-conntrack-1.0.7/src/expect/parse.c,,libnetfilter-conntrack-1.0.7/src/expect/parse_mnl.c,,libnetfilter-conntrack-1.0.7/src/expect/setter.c,,libnetfilter-conntrack-1.0.7/src/expect/snprintf.c,,libnetfilter-conntrack-1.0.7/src/expect/snprintf_default.c,,libnetfilter-conntrack-1.0.7/src/expect/snprintf_xml.c,
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[Exhibit_507]

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We can also parse escapes within the the issue file (enabled by default, but can be disabled with the "noesc" option). It's the exact same parsing as util-linux'sagetty program performs.

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('mkhomedir_helper.c')

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Needs to be called before any other auth modules so we can setup the user prompt before it's first used. Allows one argument option, which is the full path to a file to be used for issue (uses /etc/issue as a default) such as "issue=/etc/issue.telnet".

We can also parse escapes within the the issue file (enabled by default, but can be disabled with the "noesc" option). It's the exact same parsing as util-linux'sagetty program performs.

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Structure taken from pam_lastlogin by Andrew Morgan
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('mkhomedir_helper.c',)

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USB sniffing API implementation for Linux platform
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Modifications: Kris Katterjohn <katterjohn@gmail.com>

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strtok_r, from Berkeley strtok
Oct 13, 1998 by Wes Peters <wes@softweyr.com>

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Developers

David K. Hess, Douglas Lee Schales, David R. Safford

Heavily modified for Metaware HighC + GNU C 2.8+
Gisle Vanem 1998

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Name to id translation routines used by the scanner.
These functions are not time critical.

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Optimization module for tcpdump intermediate representation.

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pcap-common.c - common code for pcap and pcap-ng files

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Modifications: Added PACKET_MMAP support
Paolo Abeni <paolo.abeni@email.it>
Added TPACKET_V3 support
Gabor Tatarka <gabor.tatarka@ericsson.com>

based on previous works of
Simon Patarin <patarin@cs.unibo.it>
Phil Wood <cpw@lanl.gov>

Monitor-mode support for mac80211 includes code taken from the iw
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Modifications made to accommodate the new SunOS4.0 NIT facility by Micky Liu, micky@cunix.cc.columbia.edu, Columbia University in May, 1989. This module now handles the STREAMS based NIT.

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savefile.c - supports offline use of tcpdump
" Extraction/creation by Jeffrey Mogul, DECWRL "
" Modified by Steve McCanne, LBL."

Used to save the received packet headers, after filtering, to
a file, and then read them later.
The first record in the file contains saved values for the machine
dependent values so we can print the dump file on any architecture.

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sf-pcap-ng.c - pcap-ng-file-format-specific code from savefile.c

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bluetooth data struct
By Paolo Abeni <paolo.abeni@email.it>

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sf-pcap-ng.h - pcap-ng-file-format-specific routines

Used to read pcap-ng savefiles.

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Test psl_is_public_suffix() for all entries in public_suffix_list.dat

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Test case for psl_load_file(), psl_is_public_suffix(), psl_free()

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11.04.2014 Tim Ruehsen created

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This module serves to replace the original parser module written by Guido. The functionality is not matched precisely, but the original may be implemented on top of this. This is desirable since the source of the text to be parsed is now divorced from this interface.

Unlike the prior interface, the ability to give a parse tree produced by Python code as a tuple to the compiler is enabled by this module. See the documentation for more details.

I've added some annotations that help with the lint code-checking program, but they're not complete by a long shot. The real errors that lint detects are gone, but there are still warnings with `Py_[X]DECREF()` and `Py_[X]INCREf()` macros. The lint annotations look like "NOTE(...)".

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('C:/Users/dhanushg/Desktop/Dhanush gowda files/encryption_check/sources/python2.7-2.7.16/Mac/Modules/icgluemodule.c',)

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This module serves to replace the original parser module written by Guido. The functionality is not matched precisely, but the original may be implemented on top of this. This is desirable since the source of the text to be parsed is now divorced from this interface.

Unlike the prior interface, the ability to give a parse tree

produced by Python code as a tuple to the compiler is enabled by this module. See the documentation for more details.

I've added some annotations that help with the lint code-checking program, but they're not complete by a long shot. The real errors that lint detects are gone, but there are still warnings with `Py_[X]DECREF()` and `Py_[X]INCREf()` macros. The lint annotations look like "NOTE(...)".

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This module serves to replace the original parser module written by Guido. The functionality is not matched precisely, but the original may be implemented on top of this. This is desirable since the source of the text to be parsed is now divorced from this interface.

Unlike the prior interface, the ability to give a parse tree produced by Python code as a tuple to the compiler is enabled by this module. See the documentation for more details.

I've added some annotations that help with the lint code-checking program, but they're not complete by a long shot. The real errors that lint detects are gone, but there are still warnings with Py_[X]DECREF() and Py_[X]INCREf() macros. The lint annotations look like "NOTE(...)".

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An Introduction to Tkinter

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Modified by Jack Jansen, CWI, July 1995:

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

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This module serves to replace the original parser module written by Guido. The functionality is not matched precisely, but the original may be implemented on top of this. This is desirable since the source of the text to be parsed is now divorced from this interface.

Unlike the prior interface, the ability to give a parse tree produced by Python code as a tuple to the compiler is enabled by this module. See the documentation for more details.

I've added some annotations that help with the lint code-checking program, but they're not complete by a long shot. The real errors that lint detects are gone, but there are still warnings with `Py_[X]DECREF()` and `Py_[X]INCREF()` macros. The lint annotations look like "NOTE(...)".

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X86 Foreign Function Interface

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An Introduction to Tkinter

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Modified by Jack Jansen, CWI, July 1995:

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

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This module serves to replace the original parser module written by Guido. The functionality is not matched precisely, but the original may be implemented on top of this. This is desirable since the source of the text to be parsed is now divorced from this interface.

Unlike the prior interface, the ability to give a parse tree produced by Python code as a tuple to the compiler is enabled by this module. See the documentation for more details.

I've added some annotations that help with the lint code-checking program, but they're not complete by a long shot. The real errors that lint detects are gone, but there are still warnings with `Py_[X]DECREF()` and `Py_[X]INCREf()` macros. The lint annotations look like "NOTE(...)".

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X86 Foreign Function Interface

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Modified by Jack Jansen, CWI, July 1995:

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

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This module serves to replace the original parser module written by Guido. The functionality is not matched precisely, but the original may be implemented on top of this. This is desirable since the source of the text to be parsed is now divorced from this interface.

Unlike the prior interface, the ability to give a parse tree

produced by Python code as a tuple to the compiler is enabled by this module. See the documentation for more details.

I've added some annotations that help with the lint code-checking program, but they're not complete by a long shot. The real errors that lint detects are gone, but there are still warnings with `Py_[X]DECREF()` and `Py_[X]INCREf()` macros. The lint annotations look like "NOTE(...)".

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 *
 * The bsd posix semaphore implementation does not have support for timing
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 * pthread_cond_timedwait function and a mutex to build all the other
 * synchronization objects with timeout capabilities.
 ('rpl_sem.h',)

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 To conform to posix API and support process shared semaphores.

The bsd posix semaphore implementation does not have support for timing
 out while waiting for a synchronization object. This uses the
 pthread_cond_timedwait function and a mutex to build all the other
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[Exhibit_560]

GPLV2('test-driver', 'missing')

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This command performs a SCSI COMPARE AND WRITE. See SBC-3 at <http://www.t10.org>

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Modified by D. Gilbert to replace the use of sysctl [20080218]
Lat change: D. Gilbert 20150219

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[Exhibit_580]

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M4sh Initialization.

[Exhibit_581]

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[Exhibit_582]

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Antoni Bella Perez <bella5@teleline.es>, 2002, 2003.

Jordi Mallach <jordi@gnu.org>, 2004, 2005.

Josep Puigdemont <josep.puigdemont@gmail.com>, 2005

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#

Jiří Pavlovský <pavlovsk@ff.cuni.cz>, 1999 - 2001.

Petr Pář <petr.pisar@atlas.cz>, 2006.

Vladimír Michl <vladimir.michl@seznam.cz>, 2007

Petr Pář <petr.pisar@atlas.cz>, 2007, 2008, 2009, 2010, 2011, 2012, 2013.

Petr Pář <petr.pisar@atlas.cz>, 2014, 2015, 2016, 2017, 2018.

#

eject tool messages merged from eject-2.1.5:

Jeff Tranter <tranter@pobox.com>, 2005.

Marek ěernocký <marek@manet.cz>, 2006.

#

Danish translation util-linux.

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Claus Sørensen <cs@klid.dk>, 2000.

Keld Jørn Simonsen <keld@dkuug.dk>, 2000.

Claus Hindsgaul <claus_h@image.dk>, 2001-2002, 2004, 2005.

Joe Hansen <joedaltan2@yahoo.dk>, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017.

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Mario Blättermann <mario.blaettermann@gmail.com>, 2014, 2015.

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# People who helped or contributed (in historical order):
#   Martin Schulze <joe@infodrom.north.de>
#   Daniel Egger <Daniel.Egger@suse.de>
#   deliA <deliA@Wunder-Nett.org>

# Mensajes en espa ol para util-linux.
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#
# Beth Powell <bpowell@turbolinux.com>, 2000.
# Santiago Vila Doncel <sanvila@unex.es>, 2001, 2002, 2003, 2004, 2010, 2014.
# Antonio Ceballos Roa <aceballos@gmail.com>, 2014, 2015, 2016, 2017, 2018.
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# Meelis Roos <mroos@linux.ee>, 2002
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# Mikel Olasagasti Uranga <hey_neken@mundurat.net>, 2005, 2009, 2010.
# , fuzzy
#
#
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# Lauri Nurmi <lanurmi@iki.fi>, 2002-2018.
# Tommi Nieminen <translator@legisign.org>, 2017.
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# T t  tiedostoa ja muutettuja versioita saa kopioida
# ja levitt   vapaasti edellytt  en, ett  t t  otsikkoa
# ei poisteta, ja muutetut versiot merkit         muutetuiksi.
#

```

```

# ***
# "signature" tarvitsee paremman suomennoksen kuin "allekirjoitus".
# ***
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#
# Michel Robitaille <robitail@IRO.UMontreal.CA>, 1996-2006.
# Nicolas Provost <nprovost@quadriv.com>, 2008-2009.
# Milan Bouchet-Valat <nalimilan@club.fr>, 2010.
# David PrÃ©vot <david@tilapin.org>, 2010-2015.
# StÃ©phane Aulery <lkppo@free.fr>, 2016, 2017.
# Frédéric Marchal <fmarchal@perso.be>, 2018.
#
# Galician translation for util-linux
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# FIRST AUTHOR <EMAIL@ADDRESS>, 2010.
# Fran Dieguez <frandieguez@ubuntu.com>, 2010.
# Fran DiÃ©guez <frandieguez@ubuntu.com>, 2010.
#
# Translation of util-linux to Croatian.
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# Tomislav Krznar <tomislav.krznar@gmail.com>, 2012, 2013.
#
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#
# Gábor István <stive@mezobereny.hu>, 2002.
# Gabor Kelemen <kelemeng@gnome.hu>, 2007, 2008, 2010.
# Pesan Bahasa Indonesia untuk util-linux
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# Arif E. Nugroho <arif_endro@yahoo.com>, 2006, 2008, 2009, 2010.
#
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# Marco Colombo <m.colombo@ed.ac.uk>, 2005, 2006, 2008.
# Beth Powell <bpowell@turbolinux.com>, 2000.
#
# partition table: tavola delle partizioni? tabella delle partizioni?
# Japanese messages for util-linux
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# includes cfdisk original translation by
# Hidenobu NABETANI <nabetani@kern.phys.sci.osaka-u.ac.jp>
# Daisuke Yamashita <yamad@mb.infoweb.ne.jp>, 1999-2001.
# Makoto Kato <makoto.kt@gmail.com>, 2009-2010.
# Takeshi Hamasaki <hmatrjp@users.sourceforge.jp>, 2011, 2013.

```

[illegible]

```

# Alvaro Antunes <alvaro@netpar.com.br>, 2000
# Rodrigo Stulzer Lopes <rodrigo@conectiva.com.br>, 2000-2001
# Rafael Fontenelle <rafaelff@gnome.org>, 2013-2014, 2016-2018.

# Translation of util-linux-2.27-rc2.po to Russian
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# Pavel Maryanov <acid@jack.kiev.ua>, 2003, 2004, 2005, 2006, 2015.
# Evgeniy Yakushev <yen81@mail.ru>, 2015.
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# *- mode: po *- Slovenian translation for util-linux package.
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# Primož Peterlin <primoz.peterlin@biofiz.mf.uni-lj.si>, 2002, 2003.
# Simon Mihevc <simonmihevc@volja.net>, 2005, 2006
# $Id: util-linux-2.13-pre6.sl.po,v 1.3 2006/03/04 19:29:34 peterlin Exp $
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# Christian Rose <menthos@menthos.com>, 2001, 2002, 2003, 2004.
# Daniel Nylander <po@danielnylander.se>, 2007.
# Sebastian Rasmussen <sebras@gmail.com>, 2016, 2017, 2018.
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# Nilgün Belma Bugüner <nilgun@buguner.name.tr>, 2001, ..., 2006.
# Alper Tekinalp <alper.tekinalp@gmail.com>, 2017.
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#
# Maxim V. Dziuromanenko <mvd@mylinux.com.ua>, 2004-2006.
# Yuri Chornoivan <yurchor@ukr.net>, 2012, 2013, 2014, 2015, 2016, 2017, 2018.

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# Báçđn dá»ch tiá»ng Viá»t dÃ nh cho util-linux.
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# Phan Vinh Thinh <teppi82@gmail.com>, 2005-2007.
# Clytie Siddall <clytie@riverland.net.au>, 2007-2010.
# Trá»n Ngá»c QuÃn <vnwildman@gmail.com>, 2012-2014, 2015.
#

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Ray Wang <wanglei1123@gmail.com>, 2008.
Wylmer Wang <wantinghard@gmail.com>, 2012, 2013, 2014, 2015, 2016.

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Wei-Lun Chao <bluebat@member.fsf.org>, 2010.

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fsck --- A generic, parallelizing front-end for the fsck program.
It will automatically try to run fsck programs in parallel if the
devices are on separate spindles. It is based on the same ideas as
the generic front end for fsck by David Engel and Fred van Kempen,
but it has been completely rewritten from scratch to support
parallel execution.

Written by Theodore Ts'o, <tytso@mit.edu>

Miquel van Smoorenburg (miquels@drinkel.ow.org) 20-Oct-1994:

- o Changed -t fstype to behave like with mount when -A (all file
systems) or -M (like mount) is specified.
- o fsck looks if it can find the fsck.type program to decide
if it should ignore the fs type. This way more fsck programs
can be added without changing this front-end.
- o -R flag skip root file system.

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2001, 2002, 2003, 2004, 2005 by Theodore Ts'o.

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mkfs.minix.c - make a linux (minix) file-system.

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mkswap.c - set up a linux swap device

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20.12.91 - time began. Got VM working yesterday by doing this by hand.

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partx: tell the kernel about your disk's partitions
[This is not an fdisk - adding and removing partitions
is not a change of the disk, but just telling the kernel
about presence and numbering of on-disk partitions.]

aeb, 2000-03-21 -- sah is 42 now

Copyright (C) 2010 Davidlohr Bueso <dave@gnu.org>
Rewritten to use libblkid for util-linux
based on ideas from Karel Zak <kzak@redhat.com>

swaplabel.c - Print or change the label / UUID of a swap partition

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Usage: swaplabel [-L label] [-U UUID] device

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it what you wish.

Written by Karel Zak <kzak@redhat.com>

canonicalize.c -- canonicalize pathname by removing symlinks

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Terminology:

cpuset #NAME?
cpumask - string with hex mask (e.g. "0x00000001")
cpulist - string with CPU ranges (e.g. "0-3,5,7,8")

Based on code from taskset.c and Linux kernel.

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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 high-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 operations 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

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ismounted.c --- Check to see if the filesystem was mounted

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This is callback solution for systems without nl_langinfo(), this function returns hardcoded and on locale setting independent value.

See langinfo.h man page for more details.

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Written by Karel Zak <kzak@redhat.com>

-- based on mount/losetup.c

Simple library for work with loop devices.

- requires kernel 2.6.x
- reads info from /sys/block/loop<N>/loop/<attr> (new kernels)
- reads info by ioctl
- supports *unlimited* number of loop devices
- supports /dev/loop<N> as well as /dev/loop/<N>
- minimize overhead (fd, loopinfo, ... are shared for all operations)
- setup (associate device and backing file)
- delete (dis-associate file)
- old LOOP_{SET,GET}_STATUS (32bit) ioctls are unsupported
- extendible

Functions for %oct encoding used in mtab/fstab/swaps/etc.

Based on code from mount(8).

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LGPLV2(Many files exist)

Very simple multibyte buffer editor. Allows to maintain the current position in the string, add and remove chars on the current position.

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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.

GPLV3('parse-date.c',)

Simple functions to access files. Paths can be globally prefixed to read
data from an alternative source (e.g. a /proc dump for regression tests).

The paths is possible to format by printf-like way for functions with "f"
postfix in the name (e.g. readf, openf, ... ul_path_readf_u64()).

The ul_path_read_* API is possible to use without path_ext handler. In this
case is not possible to use global prefix and printf-like formatting.

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Written by Karel Zak <kzak@redhat.com> [February 2018]

General purpose random utilities

Based on libuuid code.

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cache.c - allocation/initialization/free routines for cache

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Copyright (C) 2003 Theodore Ts'o

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config.c - blkid.conf routines

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dev.c - allocation/initialization/free routines for dev

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devname.c - get a dev by its device inode name

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devno.c - find a particular device by its device number (major/minor)

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encode.c - string conversion routines (mostly for compatibility with
udev/volume_id)

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evaluate.c - very high-level API to evaluate LABELs or UUIDs

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getsize.c --- get the size of a partition.

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llseek.c -- stub calling the llseek system call

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aix partitions

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atari partitions parsing code

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Based on Linux kernel implementation and atari-fdisk

BSD/OSF partition parsing code

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Inspired by fdisk, partx, Linux kernel, libparted and openbsd header files.

MS-DOS partition parsing code

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Inspired by fdisk, partx, Linux kernel and libparted.

EFI GPT partition parsing code

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This code is not copy & past from any other implementation.

For more information about GPT start your study at:
http://en.wikipedia.org/wiki/GUID_Partition_Table
[http://technet.microsoft.com/en-us/library/cc739412\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc739412(WS.10).aspx)

mac partitions parsing code

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Minix partition parsing code

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partitions - partition tables parsing

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sgi partition parsing code

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Solaris x86 partition parsing code

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sun (solaris-sparc) partition parsing code

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uktrix partition parsing code

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unixware partition parsing code

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The interesting information about unixware PT:

- Linux kernel / partx
- vtoc(7) SCO UNIX command man page
- evms source code (<http://evms.sourceforge.net/>)
- vxtools source code (<http://martin.hinner.info/fs/vxfs/>)

Low-level libblkid probing API

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read.c - read the blkid cache from disk, to avoid scanning all devices

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resolve.c - resolve names and tags into specific devices

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save.c - write the cache struct to disk

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Based on code fragments from bcache-tools by Kent Overstreet:
<http://evilpiepirate.org/git/bcache-tools.git>

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Partly based on the Haiku BFS driver by
Axel D rfler <axeld@pinc-software.de>

Also inspired by the Linux BeFS driver by
Will Dyson <will_dyson@pobox.com>, et al.

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defines, structs taken from drbd source; file names represent drbd source
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DRBD is a blocklevel replication solution in the Linux kernel,
upstream since 2.6.33. (See <http://drbd.linbit.com/>)
DRBDmanage is a configuration frontend that assists in
creating/deleting/modifying DRBD resources across multiple machines
(a DRBDmanage "cluster"); this file detects its control volume,
which is replicated (via DRBD 9) on some of the nodes.

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superblocks.c - reads information from filesystem and raid superblocks

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This is written from scratch according to Linux kernel fs/sysv/super.c file.
It seems that sysv probing code in libvolume_id and also in the original
blkid is useless.

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tag.c - allocation/initialization/free routines for tag structs

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device-mapper (dm) topology
-- this is fallback for old systems where the topology information is not
exported by sysfs

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Evms topology
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ioctl based topology -- gathers topology information

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lvm topology
-- this is fallback for old systems where the topology information is not
exported by sysfs

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Linux Software RAID (md) topology
-- this is fallback for old systems where the topology information is not
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sysfs based topology -- gathers topology information from Linux sysfs

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For more information see Linux kernel Documentation/ABI/testing/sysfs-block.

topology - gathers information about device topology

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version.c --- Return the version of the blkid library

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Libfdisk sample to create partitions by specify all required partition
properties (partno, start and size). The defaults is only partition type
(except MBR where 4th partition is extended).

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Libfdisk sample to create partitions by specify size, for example:

mkpart --label dos --device /dev/sdc 2M 2M 2M 10M 1M -

creates 6 partitions:

- 3 primary (3x 2M)
- 1 extended (1x 10M)
- 2 logical (1x 1M, 1x remaining-space-in-extended-partition)

Notes:

The sample specifies size and partno for MBR, and size only for another
labels (e.g. GPT).

The Ask-API does not use anything else than warning/info. The
partitioning has to be done non-interactive.

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Based on the original code from fdisk
written by Bernhard Fastenrath (fasten@informatik.uni-bonn.de)
with code from the NetBSD disklabel command.

Arnaldo Carvalho de Melo <acme@conectiva.com.br>, March 1999
David Huggins-Daines <dhuggins@linuxcare.com>, January 2000

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This is re-written version for libfdisk, the original was fdiskdoslabel.c
from util-linux fdisk.

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Copyright (C) 2012 Davidlohr Bueso <dave@gnu.org>

GUID Partition Table (GPT) support. Based on UEFI Specs 2.3.1
Chapter 5: GUID Partition Table (GPT) Disk Layout (Jun 27th, 2012).
Some ideas and inspiration from GNU parted and gptfdisk.

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This is a re-written version for libfdisk, the original was fdisksgilabel.c
from util-linux fdisk, by:

Andreas Neuper, Sep 1998,
Arnaldo Carvalho de Melo <acme@conectiva.com.br>, Mar 1999,
Phillip Kesling <pkesling@sgi.com>, Mar 2003.

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Based on original code from fdisk:
Jakub Jelinek (jj@sunsite.mff.cuni.cz), July 1996
Merged with fdisk for other architectures, aeb, June 1998.
Arnaldo Carvalho de Melo <acme@conectiva.com.br> Mar 1999, Internationalization

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Routines for TEST_PROGRAMS

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cell.c - functions for table handling at the cell level

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column.c - functions for table handling at the column level

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symbols.c - routines for symbol handling

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table.c - functions handling the data at the table level

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version.c - Return the version of the library

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clear.c -- Clear a UUID

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compare.c --- compare whether or not two UUIDs are the same

Returns 0 if the two UUIDs are different, and 1 if they are the same.

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gen_uuid.c --- generate a DCE-compatible uuid

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isnull.c --- Check whether or not the UUID is null

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Internal routine for packing UUIDs

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parse.c --- UUID parsing

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predefined.c --- well-known UUIDs from the RFC-4122 namespace

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tst_uuid.c --- test program from the UUID library

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arse.c -- convert a UUID to string

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uuid_time.c --- Interpret the time field from a uuid. This program violates the UUID abstraction barrier by reaching into the guts of a UUID and interpreting it.

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auth.c -- PAM authorization code, common between chsh and chfn
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chfn and chsh shared functions

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chfn.c -- change your finger information
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\$Author: aebr \$
\$Revision: 1.18 \$
\$Date: 1998/06/11 22:30:11 \$

Updated Thu Oct 12 09:19:26 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Hacked by Peter Breitenlohner, peb@mppmu.mpg.de,
to remove trailing empty fields. Oct 5, 96.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>

- added Native Language Support

chsh.c -- change your login shell
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\$Revision: 1.19 \$
\$Date: 1998/06/11 22:30:14 \$

Updated Thu Oct 12 09:33:15 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dcs.warwick.ac.uk>

Updated Mon Jul 1 18:46:22 1996 by janl@math.uio.no with security
suggestion from Zefram. Disallowing users with shells not in /etc/shells
from changing their shell.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

libuser.c -- Utilize libuser to set a user attribute
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Michael Glad (glad@daimi.dk)
Computer Science Department, Aarhus University, Denmark
1990-07-04

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Updated Thu Oct 12 09:56:55 1995 by faith@cs.unc.edu with security patches from Zefram <A.Main@dcswarwick.ac.uk>

Updated Thu Nov 9 21:58:53 1995 by Martin Schulze <joe@finlandia.infodrom.north.de>. Support for vgr.

Martin Schulze's patches adapted to Util-Linux by Nicolai Langfeldt.

blkid.c - User command-line interface for libblkid

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
Sun Mar 21 1999 - Arnaldo Carvalho de Melo <acme@conectiva.com.br>
- fixed strerr(errno) in gettext calls

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The test heavily uses shared memory, to enlarge maximal size of shared segment use:

```
echo "4294967295" > /proc/sys/kernel/shmm
```

The test is compiled against in-tree libuuid, if you want to test uuid installed to the system then make sure that libuuid uses the same socket like the running uuid. You can start the uuid manually, for example:

```
uuid --debug --no-fork --no-pid --socket /run/uuid/request
```

if the \$runitdir (as defined by build-system) is /run. If you want to overwrite the built-in default then use:

```
make uuid uuidgen runstatedir=/var/run
```

uuid.c --- UUID-generation daemon

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gen_uuid.c --- generate a DCE-compatible uuid

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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
2011-08-12 Davidlohr Bueso <dave@gnu.org>
- added \$PATH lookup

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2013 Sami Kerola <kerolas@iki.fi>

dmesg.c -- Print out the contents of the kernel ring buffer

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fallocate - utility to use the fallocate system call

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Written by Eric Sandeen <sandeen@redhat.com>
Karel Zak <kzak@redhat.com>

cvtnum routine taken from xfsprogs,
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Originally from Ted's losetup.c

losetup.c - setup and control loop devices

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/dev/rfkill userspace tool

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zramctl - control compressed block devices in RAM

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Modified Fri Mar 10 20:27:19 1995, faith@cs.unc.edu, for Linux
Modified Mon Jul 1 18:14:10 1996, janl@ifi.uio.no, writing to stdout

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setterm.c, set terminal attributes.

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Adaption to Linux by Peter MacDonald.

Enhancements by Mika Liljeberg (liljeber@cs.Helsinki.FI)

Beep modifications by Christophe Jolif (cjolif@storm.gatelink.fr.net)

Sanity increases by Cafeine Addict [sic].

Powersave features by todd j. derr <tjd@wordsmith.org>

Converted to terminfo by Kars de Jong (jongk@cs.utwente.nl)

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

Semantics:

Setterm writes to standard output a character string that will

invoke the specified terminal capabilities. Where possible terminfo is consulted to find the string to use. Some options however do not correspond to a terminfo capability. In this case if the terminal type is "con*", or "linux*" the string that invokes the specified capabilities on the PC Linux virtual console driver is output. Options that are not implemented by the terminal are ignored.

The following options are non-obvious.

- term can be used to override the TERM environment variable.
- reset displays the terminal reset string, which typically resets the terminal to its power on state.

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Modified for Linux, Mon Mar 8 18:16:24 1993, faith@cs.unc.edu
Wed Jun 22 21:41:56 1994, faith@cs.unc.edu:
Added fix from Mike Grupenhoff (kashmir@umiacs.umd.edu)
Mon Jul 1 17:01:39 MET DST 1996, janl@math.uio.no:

This testing program makes sure the byteswap functions work

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test_sigreceive - wait for signal and exit with value of it

Written by Sami Kerola <kerolas@iki.fi>

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test_tiocsti - test security of TIOCSTI

Written by Federico Bento <up201407890@alunos.dcc.fc.up.pt>

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Wed Jun 22 22:15:41 1994, faith@cs.unc.edu: Added internationalization patches from Andries.Brouwer@cw.nl
Wed Sep 14 22:31:17 1994: patches from Carl Christofferson (cchris@connected.com)

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Modified for Linux by Charles Hannum (mycroft@gnu.ai.mit.edu)
and Brian Koehmstedt (bpk@gnu.ai.mit.edu)

Wed Sep 14 22:26:00 1994: Patch from bjdouma <bjdouma@xs4all.nl> to handle last line that has no newline correctly.

3-Jun-1998: Patched by Nicolai Langfeldt to work better on Linux:
Handle any-length-lines. Code copied from util-linux' setpwnam.c

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* (based on list.h from e2fsprogs)
* Merge sort based on kernel's implementation.

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* General memory allocation wrappers for malloc, realloc, calloc and strdup

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Want to know if GCC stack protector works, both for the C and for the C++ compiler.

Just checking if the compiler accepts the required CFLAGSs is not enough because we have seen at least one instance where this check was insufficient.

Instead, try to compile and link a test program with the stack protector flags. If that works, we use it.

[Exhibit_587]

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This file implements a handler for snmptrapd which will cache incoming traps and then write them to a MySQL database.

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Reference

S.Gueron and V.Krasnov, "Fast Prime Field Elliptic Curve Cryptography with
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[Exhibit_612]

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[Exhibit_616]

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[Exhibit_617]

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Based on the x86 SIMD extension for IJG JPEG library

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Based on the x86 SIMD extension for IJG JPEG library - version 1.02

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libjpeg-turbo Modifications
Modified 2011 by Siarhei Siamashka.

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This file contains routines to read input images in Microsoft "BMP" format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
Currently, only 8-bit and 24-bit images are supported, not 1-bit or 4-bit (feeding such low-depth images into JPEG would be silly anyway).
Also, we don't support RLE-compressed files.

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdio stream. They further assume that reading begins at the start of the file; start_input may need work if the user interface has already read some data (e.g., to determine that the file is indeed BMP format).

This code contributed by James Arthur Boucher.

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It was modified by The libjpeg-turbo Project to include only code relevant to libjpeg-turbo.

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This file contains common support routines used by the IJG application programs (cjpeg, djpeg, jpegtran).

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This file contains a command-line user interface for the JPEG decompressor. It should work on any system with Unix- or MS-DOS-style command lines.

Two different command line styles are permitted, depending on the compile-time switch TWO_FILE_COMMANDLINE

```
djpeg [options] inputfile outputfile
djpeg [options] [inputfile]
```

In the second style, output is always to standard output, which you'd normally redirect to a file or pipe to some other program. Input is either from a named file or from standard input (typically redirected). The second style is convenient on Unix but is unhelpful on systems that

don't support pipes. Also, you MUST use the first style if your system doesn't do binary I/O to stdin/stdout.
To simplify script writing, the "-outfile" switch is provided. The syntax
djpeg [options] -outfile outputfile inputfile
works regardless of which command line style is used.

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This file contains probability estimation tables for common use in arithmetic entropy encoding and decoding routines.

This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec (ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82).

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This file contains application interface code for the compression half of the JPEG library. These are the "minimum" API routines that may be needed in either the normal full-compression case or the transcoding-only case.

Most of the routines intended to be called directly by an application are in this file or in jcapistd.c. But also see jcparam.c for parameter-setup helper routines, jcomapi.c for routines shared by compression and decompression, and jctrans.c for the transcoding case.

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This file contains application interface code for the compression half of the JPEG library. These are the "standard" API routines that are used in the normal full-compression case. They are not used by a transcoding-only application. Note that if an application links in jpeg_start_compress, it will end up linking in the entire compressor. We thus must separate this file from jcapimin.c to avoid linking the whole compression library into a transcoder.

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This file contains portable arithmetic entropy encoding routines for JPEG

(implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).

Both sequential and progressive modes are supported in this single module.

Suspension is not currently supported in this module.

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This file contains the coefficient buffer controller for compression.
This controller is the top level of the JPEG compressor proper.
The coefficient buffer lies between forward-DCT and entropy encoding steps.

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This file contains input colorspace conversion routines.

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This file contains input colorspace conversion routines.

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file.

This file contains the forward-DCT management logic.
This code selects a particular DCT implementation to be used,
and it performs related housekeeping chores including coefficient
quantization.

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file.

This file contains Huffman entropy encoding routines.

Much of the complexity here has to do with supporting output suspension.
If the data destination module demands suspension, we want to be able to
back up to the start of the current MCU. To do this, we copy state
variables into local working storage, and update them back to the
permanent JPEG objects only upon successful completion of an MCU.

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file.

This file contains routines to write JPEG datastream markers.

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This file contains master control logic for the JPEG compressor.
These routines are concerned with parameter validation, initial setup,
and inter-pass control (determining the number of passes and the work
to be done in each pass).

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This file contains application interface routines that are used for both
compression and decompression.

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This file contains optional default-setting code for the JPEG compressor.
Applications do not have to use this file, but those that don't use it
must know a lot more about the innards of the JPEG code.

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file.

This file contains Huffman entropy encoding routines for progressive JPEG.

We do not support output suspension in this module, since the library currently does not allow multiple-scan files to be written with output suspension.

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This file contains the compression preprocessing controller.
This controller manages the color conversion, downsampling, and edge expansion steps.

Most of the complexity here is associated with buffering input rows as required by the downsampler. See the comments at the head of jcsample.c for the downsampler's needs.

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This file contains library routines for transcoding compression, that is, writing raw DCT coefficient arrays to an output JPEG file. The routines in jcapimin.c will also be needed by a transcoder.

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This file contains application interface code for the decompression half of the JPEG library. These are the "minimum" API routines that may be needed in either the normal full-decompression case or the transcoding-only case.

Most of the routines intended to be called directly by an application are in this file or in jdapistd.c. But also see jcomapi.c for routines shared by compression and decompression, and jdtrans.c for the transcoding case.

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This file contains application interface code for the decompression half of the JPEG library. These are the "standard" API routines that are used in the normal full-decompression case. They are not used by a transcoding-only application. Note that if an application links in `jpeg_start_decompress`, it will end up linking in the entire decompressor. We thus must separate this file from `jdapimin.c` to avoid linking the whole decompression library into a transcoder.

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This file contains compression data destination routines for the case of emitting JPEG data to memory or to a file (or any stdio stream). While these routines are sufficient for most applications, some will want to use a different destination manager. IMPORTANT: we assume that `fwrite()` will correctly transcribe an array of JOCTETs into 8-bit-wide elements on external storage. If `char` is wider than 8 bits on your machine, you may need to do some tweaking.

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This file contains output colorspace conversion routines.

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This file contains output colorspace conversion routines.

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This file contains the inverse-DCT management logic. This code selects a particular IDCT implementation to be used, and it performs related housekeeping chores. No code in this file is executed per IDCT step, only during output pass setup.

Note that the IDCT routines are responsible for performing coefficient dequantization as well as the IDCT proper. This module sets up the dequantization multiplier table needed by the IDCT routine.

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file.

This file contains Huffman entropy decoding routines.

Much of the complexity here has to do with supporting input suspension.
If the data source module demands suspension, we want to be able to back
up to the start of the current MCU. To do this, we copy state variables
into local working storage, and update them back to the permanent
storage only upon successful completion of an MCU.

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file.

This file contains input control logic for the JPEG decompressor.
These routines are concerned with controlling the decompressor's input
processing (marker reading and coefficient decoding). The actual input
reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.

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file.

This file contains the main buffer controller for decompression.
The main buffer lies between the JPEG decompressor proper and the
post-processor; it holds downsampled data in the JPEG colorspace.

Note that this code is bypassed in raw-data mode, since the application
supplies the equivalent of the main buffer in that case.

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This file contains routines to decode JPEG datastream markers.
Most of the complexity arises from our desire to support input
suspension: if not all of the data for a marker is available,
we must exit back to the application. On resumption, we reprocess
the marker.

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This file contains master control logic for the JPEG decompressor.
These routines are concerned with selecting the modules to be executed
and with determining the number of passes and the work to be done in each
pass.

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This file contains code for merged upsampling/color conversion.

This file combines functions from jdsample.c and jdcolor.c;
read those files first to understand what's going on.

When the chroma components are to be upsampled by simple replication
(ie, box filtering), we can save some work in color conversion by
calculating all the output pixels corresponding to a pair of chroma
samples at one time. In the conversion equations

$$R = Y + K1 * Cr$$

$$G = Y + K2 * Cb + K3 * Cr$$

$$B = Y + K4 * Cb$$

only the Y term varies among the group of pixels corresponding to a pair
of chroma samples, so the rest of the terms can be calculated just once.

At typical sampling ratios, this eliminates half or three-quarters of the
multiplications needed for color conversion.

This file currently provides implementations for the following cases:

YCbCr => RGB color conversion only.

Sampling ratios of 2h1v or 2h2v.

No scaling needed at upsample time.

Corner-aligned (non-CCIR601) sampling alignment.

Other special cases could be added, but in most applications these are
the only common cases. (For uncommon cases we fall back on the more
general code in jdsample.c and jdcolor.c.)

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file.

This file contains code for merged upsampling/color conversion.

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file.

This file contains Huffman entropy decoding routines for progressive JPEG.

Much of the complexity here has to do with supporting input suspension.
If the data source module demands suspension, we want to be able to back
up to the start of the current MCU. To do this, we copy state variables
into local working storage, and update them back to the permanent
storage only upon successful completion of an MCU.

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It was modified by The libjpeg-turbo Project to include only code relevant to libjpeg-turbo.

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This file contains the decompression postprocessing controller.

This controller manages the upsampling, color conversion, and color quantization/reduction steps; specifically, it controls the buffering between upsample/color conversion and color quantization/reduction.

If no color quantization/reduction is required, then this module has no work to do, and it just hands off to the upsample/color conversion code.

An integrated upsample/convert/quantize process would replace this module entirely.

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This file contains upsampling routines.

Upsampling input data is counted in "row groups". A row group is defined to be $(v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)$ sample rows of each component. Upsampling will normally produce $max_v_samp_factor$ pixel rows from each row group (but this could vary if the upsampler is applying a scale factor of its own).

An excellent reference for image resampling is

Digital Image Warping, George Wolberg, 1990.

Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.

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It was modified by The libjpeg-turbo Project to include only code relevant to libjpeg-turbo.

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This file contains simple error-reporting and trace-message routines.

These are suitable for Unix-like systems and others where writing to stderr is the right thing to do. Many applications will want to replace some or all of these routines.

If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile, you get a Windows-specific hack to display error messages in a dialog box. It ain't much, but it beats dropping error messages into the bit bucket, which is what happens to output to stderr under most Windows C compilers.

These routines are used by both the compression and decompression code.

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This file contains a floating-point implementation of the forward DCT (Discrete Cosine Transform).

This implementation should be more accurate than either of the integer DCT implementations. However, it may not give the same results on all machines because of differences in roundoff behavior. Speed will depend on the hardware's floating point capacity.

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README.ijg). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

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This file contains a fast, not so accurate integer implementation of the forward DCT (Discrete Cosine Transform).

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

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The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

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This file contains a slow-but-accurate integer implementation of the forward DCT (Discrete Cosine Transform).

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on an algorithm described in C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics, Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991. The primary algorithm described there uses 11 multiplies and 29 adds. We use their alternate method with 12 multiplies and 32 adds. The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.

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Modified 2010 by Guido Vollbeding.

libjpeg-turbo Modifications:

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This file contains a floating-point implementation of the inverse DCT (Discrete Cosine Transform). In the IJG code, this routine must also perform dequantization of the input coefficients.

This implementation should be more accurate than either of the integer IDCT implementations. However, it may not give the same results on all machines because of differences in roundoff behavior. Speed will depend on the hardware's floating point capacity.

A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README.ijg). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the

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This file contains a fast, not so accurate integer implementation of the inverse DCT (Discrete Cosine Transform). In the IJG code, this routine must also perform dequantization of the input coefficients.

A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README.ijg). The following code is based directly on figure 4-8 in P&M.

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The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

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This file contains a slow-but-accurate integer implementation of the inverse DCT (Discrete Cosine Transform). In the IJG code, this routine must also perform dequantization of the input coefficients.

A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on an algorithm described in

C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics, Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.

The primary algorithm described there uses 11 multiplies and 29 adds.

We use their alternate method with 12 multiplies and 32 adds.

The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.

We also provide IDCT routines with various output sample block sizes for

direct resolution reduction or enlargement without additional resampling:
NxN (N=1...16) pixels for one 8x8 input DCT block.

For $N < 8$ we simply take the corresponding low-frequency coefficients of the 8x8 input DCT block and apply an NxN point IDCT on the sub-block to yield the downscaled outputs.

This can be seen as direct low-pass downsampling from the DCT domain point of view rather than the usual spatial domain point of view,

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This file contains inverse-DCT routines that produce reduced-size output: either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.

The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M) algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step with an 8-to-4 step that produces the four averages of two adjacent outputs (or an 8-to-2 step producing two averages of four outputs, for 2x2 output). These steps were derived by computing the corresponding values at the end of the normal LL&M code, then simplifying as much as possible.

1x1 is trivial: just take the DC coefficient divided by 8.

See jidctint.c for additional comments.

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This file contains the JPEG system-independent memory management routines. This code is usable across a wide variety of machines; most of the system dependencies have been isolated in a separate file.

The major functions provided here are:

- * pool-based allocation and freeing of memory;
- * policy decisions about how to divide available memory among the virtual arrays;
- * control logic for swapping virtual arrays between main memory and backing storage.

The separate system-dependent file provides the actual backing-storage access code, and it contains the policy decision about how much total main memory to use.

This file is system-dependent in the sense that some of its functions are unnecessary in some systems. For example, if there is enough virtual memory so that backing storage will never be used, much of the virtual array control logic could be removed. (Of course, if you have that much memory then you shouldn't care about a little bit of unused code...)

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This file provides a really simple implementation of the system-

dependent portion of the JPEG memory manager. This implementation assumes that no backing-store files are needed: all required space can be obtained from malloc().

This is very portable in the sense that it'll compile on almost anything, but you'd better have lots of main memory (or virtual memory) if you want to process big images.

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This file contains a command-line user interface for JPEG transcoding. It is very similar to cjpeg.c, and partly to djpeg.c, but provides lossless transcoding between different JPEG file formats. It also provides some lossless and sort-of-lossless transformations of JPEG data.

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This file contains 1-pass color quantization (color mapping) routines. These routines provide mapping to a fixed color map using equally spaced color values. Optional Floyd-Steinberg or ordered dithering is available.

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This file contains 2-pass color quantization (color mapping) routines. These routines provide selection of a custom color map for an image, followed by mapping of the image to that color map, with optional Floyd-Steinberg dithering. It is also possible to use just the second pass to map to an arbitrary externally-given color map.

Note: ordered dithering is not supported, since there isn't any fast way to compute intercolor distances; it's unclear that ordered dither's fundamental assumptions even hold with an irregularly spaced color map.

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Based on the x86 SIMD extension for IJG JPEG library,

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This file contains stubs for when there is no SIMD support available.

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file.

This file contains routines to set the default Huffman tables, if they are
not already set.

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It was modified by The libjpeg-turbo Project to include only code
relevant to libjpeg-turbo.
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file.

This file contains tables and miscellaneous utility routines needed
for both compression and decompression.
Note we prefix all global names with "j" to minimize conflicts with
a surrounding application.

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Modified 2011 by Siarhei Siamashka.

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file.

This file contains routines to read input images in Microsoft "BMP"
format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
Currently, only 8-bit and 24-bit images are supported, not 1-bit or
4-bit (feeding such low-depth images into JPEG would be silly anyway).
Also, we don't support RLE-compressed files.

These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume input from
an ordinary stdio stream. They further assume that reading begins
at the start of the file; start_input may need work if the
user interface has already read some data (e.g., to determine that
the file is indeed BMP format).

This code contributed by James Arthur Boucher.

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file.

This file implements djpeg's "-map file" switch. It reads a source image
and constructs a colormap to be supplied to the JPEG decompressor.

Currently, these file formats are supported for the map file:
GIF: the contents of the GIF's global colormap are used.
PPM (either text or raw flavor): the entire file is read and
each unique pixel value is entered in the map.
Note that reading a large PPM file will be horrendously slow.
Typically, a PPM-format map file should contain just one pixel
of each desired color. Such a file can be extracted from an
ordinary image PPM file with ppmtomap(1).

Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
currently implemented.

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file.

This file contains routines to read input images in GIF format.

```
*****
NOTE: to avoid entanglements with Unisys' patent on LZW compression,
the ability to read GIF files has been removed from the IJG distribution. *
Sorry about that.
*****
```

We are required to state that
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This file contains a very simple stand-alone application that displays the text in COM (comment) markers in a JFIF file.
This may be useful as an example of the minimum logic needed to parse JPEG markers.

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This file contains routines to read input images in PPM/PGM format. The extended 2-byte-per-sample raw PPM/PGM formats are supported. The PBMPLUS library is NOT required to compile this software (but it is highly useful as a set of PPM image manipulation programs).

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdio stream. They further assume that reading begins at the start of the file; start_input may need work if the user interface has already read some data (e.g., to determine that the file is indeed PPM format).

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This file contains routines to read input images in Utah RLE format. The Utah Raster Toolkit library is required (version 3.1 or later).

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdio stream. They further assume that reading begins at the start of the file; start_input may need work if the user interface has already read some data (e.g., to determine that the file is indeed RLE format).

Based on code contributed by Mike Lijewski,
with updates from Robert Hutchinson.

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file.

This file contains routines to process some of cjpeg's more complicated command-line switches. Switches processed here are:

-qtables file	Read quantization tables from text file
-scans file	Read scan script from text file
-quality N[,N,...]	Set quality ratings
-qslots N[,N,...]	Set component quantization table selectors
-sample HxV[,HxV,...]	Set component sampling factors

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It was modified by The libjpeg-turbo Project to include only code relevant to libjpeg-turbo.

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This file contains routines to read input images in Targa format.

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdio stream. They further assume that reading begins at the start of the file; start_input may need work if the user interface has already read some data (e.g., to determine that the file is indeed Targa format).

Based on code contributed by Lee Daniel Crocker.

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This file contains the interface between the "normal" portions of the library and the SIMD implementations when running on a 32-bit ARM architecture.

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This file contains the interface between the "normal" portions of the library and the SIMD implementations when running on a 64-bit ARM architecture.

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This file contains the interface between the "normal" portions of the library and the SIMD implementations when running on a PowerPC architecture.

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This file contains image transformation routines and other utility code used by the jpegtran sample application. These are NOT part of the core JPEG library. But we keep these routines separate from jpegtran.c to ease the task of maintaining jpegtran-like programs that have other user interfaces.

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For conditions of distribution and use, see the accompanying README.ijg file.

This file contains routines to write output images in Microsoft "BMP" format (MS Windows 3.x and OS/2 1.x flavors).
Either 8-bit colormapped or 24-bit full-color format can be written.
No compression is supported.

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.

This code contributed by James Arthur Boucher.

Copyright (C) 1991-1996, Thomas G. Lane.

Modified 2009 by Guido Vollbeding.

It was modified by The libjpeg-turbo Project to include only code and information relevant to libjpeg-turbo.

For conditions of distribution and use, see the accompanying README.ijg file.

This file contains routines to write output images in PPM/PGM format. The extended 2-byte-per-sample raw PPM/PGM formats are supported. The PBMPLUS library is NOT required to compile this software (but it is highly useful as a set of PPM image manipulation programs).

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.

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This file contains routines to write output images in RLE format. The Utah Raster Toolkit library is required (version 3.1 or later).

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to

an ordinary stdio stream.

Based on code contributed by Mike Lijewski,
with updates from Robert Hutchinson.

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file.

This file contains routines to write output images in Targa format.

These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume output to
an ordinary stdio stream.

Based on code contributed by Lee Daniel Crocker.

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This configure script is free software; the Free Software Foundation
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M4sh Initialization.

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Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see
jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

Block comments in this style.

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It was modified by The libjpeg-turbo Project to include only code relevant
to libjpeg-turbo.
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file.

This file documents the configuration options that are required to customize the JPEG software for a particular system.

The actual configuration options for a particular installation are stored in `jconfig.h`. On many machines, `jconfig.h` can be generated automatically or copied from one of the "canned" `jconfig` files that we supply. But if you need to generate a `jconfig.h` file by hand, this file tells you how.

DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
EDIT A COPY NAMED `JCONFIG.H`.

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For conditions of distribution and use, see the accompanying `README.iyg` file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file `example.c` provides heavily commented skeleton code for calling the JPEG library. Also see `jpeglib.h` (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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- Mechanics of usage: include files, linking, etc

Advanced features:

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This file provides an overview of the architecture of the IJG JPEG software;

that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README.ijg file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:

- A "component" means a color channel, e.g., Red or Luminance.

- A "sample" is a single component value (i.e., one number in the image data).

- A "coefficient" is a frequency coefficient (a DCT transform output number).

- A "block" is an 8x8 group of samples or coefficients.

- An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:

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This file defines the error and message codes for the cjpeg/djpeg applications. These strings are not needed as part of the JPEG library proper.

Edit this file to add new codes, or to translate the message strings to some other language.

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This file contains common declarations for the sample applications cjpeg and djpeg. It is NOT used by the core JPEG library.

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This file contains declarations for Huffman entropy encoding routines that are shared between the sequential encoder (jchuff.c) and the progressive encoder (jephuff.c). No other modules need to see these.

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This include file contains common declarations for the forward and inverse DCT modules. These declarations are private to the DCT managers (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms. The individual DCT algorithms are kept in separate files to ease machine-dependent tuning (e.g., assembly coding).

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This file contains declarations for Huffman entropy decoding routines that are shared between the sequential decoder (jdhuff.c) and the progressive decoder (jdphuff.c). No other modules need to see these.

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This file contains the master control structure for the JPEG decompressor.

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This file defines the error and message codes for the JPEG library.
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A set of error-reporting macros are defined too. Some applications using the JPEG library may wish to include this file to get the error codes and/or the macros.

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This file exists to provide a single place to fix any problems with including the wrong system include files. (Common problems are taken care of by the standard jconfig symbols, but on really weird systems you may have to edit this file.)

NOTE: this file is NOT intended to be included by applications using the JPEG library. Most applications need only include jpeglib.h.

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This include file defines the interface between the system-independent and system-dependent portions of the JPEG memory manager. No other modules need include it. (The system-independent portion is jmemmgr.c; there are several different versions of the system-dependent portion.)

This file works as-is for the system-dependent memory managers supplied in the IJG distribution. You may need to modify it if you write a custom memory manager. If system-dependent changes are needed in this file, the best method is to #ifdef them based on a configuration symbol supplied in jconfig.h.

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This file contains additional configuration options that customize the JPEG software for special applications or support machine-dependent

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JPEG compatibility macros

These declarations are considered internal to the JPEG library; most applications using the library shouldn't need to include this file.

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This file provides common declarations for the various JPEG modules.

These declarations are considered internal to the JPEG library; most applications using the library shouldn't need to include this file.

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This file defines the application interface for the JPEG library.

Most applications using the library need only include this file, and perhaps jerror.h if they want to know the exact error codes.

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This contains for transformation and
other code by jpegtran application. These are

NOT of core library. But keep routines separate
from to the of jpegtran-like programs
that other interfaces.

NOTE: the declared have specific requirements
about they to executed the and of the
source destination the in or see
jpegtran.c an of usage.

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Jiří Pavlovský <pavlovsk@ff.cuni.cz>, 1999 - 2001.

Petr Pář <petr.pisar@atlas.cz>, 2006.

Vladimír Michl <vladimir.michl@seznam.cz>, 2007

Petr Pář <petr.pisar@atlas.cz>, 2007, 2008, 2009, 2010, 2011, 2012, 2013.

Petr Pář <petr.pisar@atlas.cz>, 2014, 2015, 2016, 2017, 2018.

#

eject tool messages merged from eject-2.1.5:

Jeff Tranter <tranter@pobox.com>, 2005.

Marek Āernock <marek@manet.cz>, 2006.

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# Philipp Thomas <pth@suse.de>, 2014, 2015, 2017.
#
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# If you have additions/changes/other requests, please
# send them to me (Elrond <Elrond@Wunder-Nett.org>)!
#
# People who helped or contributed (in historical order):
#   Martin Schulze <joey@infodrom.north.de>
#   Daniel Egger <Daniel.Egger@suse.de>
#   deliA <deliA@Wunder-Nett.org>

# Mensajes en espaÃ±ol para util-linux.
# Copyright (C) 2000 Beth Powell <bpowell@turbolinux.com>.
# Copyright (C) 2001, 2002, 2003 Santiago Vila Doncel <sanvila@unex.es>.
#
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#
# Beth Powell <bpowell@turbolinux.com>, 2000.
# Santiago Vila Doncel <sanvila@unex.es>, 2001, 2002, 2003, 2004, 2010, 2014.
# Antonio Ceballos Roa <aceballos@gmail.com>, 2014, 2015, 2016, 2017, 2018.
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# Copyright (C) 2002 Meelis Roos <mroos@linux.ee>
# Meelis Roos <mroos@linux.ee>, 2002
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# Basque translation of util-linux-ng.
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# Mikel Olasagasti Uranga <hey_neken@mundurat.net>, 2005, 2009, 2010.
# , fuzzy
#
#
# Finnish messages for util-linux
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# Copyright © 2002-2018 Lauri Nurmi <lanurmi@iki.fi>
# Lauri Nurmi <lanurmi@iki.fi>, 2002-2018.
# Tommi Nieminen <translator@legisign.org>, 2017.
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#
# Tätä tiedostoa ja muutettuja versioita saa kopioida
# ja levittää vapaasti edellyttäen, että tätä otsikkoa
# ei poisteta, ja muutetut versiot merkitään muutetuiksi.
#
# ***
# "signature" tarvitsee paremman suomennoksen kuin "allekirjoitus".
# ***
# Translation of util-linux-ng runtime message to French.
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#
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#
# Michel Robitaille <robitail@IRO.UMontreal.CA>, 1996-2006.
# Nicolas Provost <nprovost@quadriv.com>, 2008-2009.
# Milan Bouchet-Valat <nalimilan@club.fr>, 2010.
# David PrÃ©vot <david@tilapin.org>, 2010-2015.
# StÃ©phane Aulery <lkppo@free.fr>, 2016, 2017.
# Frédéric Marchal <fmarchal@perso.be>, 2018.
#
# Galician translation for util-linux
# Copyright (c) 2010 Rosetta Contributors and Canonical Ltd 2010
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# FIRST AUTHOR <EMAIL@ADDRESS>, 2010.
# Fran Dieguez <frandieguez@ubuntu.com>, 2010.
# Fran DiÃ©guez <frandieguez@ubuntu.com>, 2010.
#
# Translation of util-linux to Croatian.
# Copyright © 2012 Karel Zak <kzak@redhat.com>
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# Tomislav Krznar <tomislav.krznar@gmail.com>, 2012, 2013.
#
# Hungarian translation of util-linux-ng
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#
# Gábor István <stive@mezobereny.hu>, 2002.

```

[illegible]


```

# en de bijbehorende msgids zouden niet in dit bestand moeten voorkomen.
#
# Taco Witte <tcwite@cs.uu.nl>, 2002, 2003.
# Luk Claes <luk.claes@ugent.be>, 2005.
# Benno Schulenberg <benno@vertaalt.nl>, 2006, 2007, 2008, 2009, 2010, 2011.
# Benno Schulenberg <benno@vertaalt.nl>, 2012, 2013, 2014, 2015, 2016.

# Polish translation of util-linux.
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# Andrzej Krzysztofowicz <ankry@mif.pg.gda.pl>, 2006.
# Jakub Bogusz <qboosh@pld-linux.org>, 2009-2018.
#
# Brazilian Portuguese translation for util-linux.
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# Arnaldo Carvalho de Melo <acme@conectiva.com.br>, 1999-2000
# Ricardo Stefani <ricardos@francanet.com.br>, 1999
# Marcus Moreira <marcusms@frb.br>
# Paulo Henrique R Pinheiro <nulo@sul.com.br>
# Alvaro Antunes <alvaro@netpar.com.br>, 2000
# Rodrigo Stulzer Lopes <rodrigo@conectiva.com.br>, 2000-2001
# Rafael Fontenelle <rafaelff@gnome.org>, 2013-2014, 2016-2018.

# Translation of util-linux-2.27-rc2.po to Russian
# Copyright (C) 2003 Free Software Foundation Inc.
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# Pavel Maryanov <acid@jack.kiev.ua>, 2003, 2004, 2005, 2006, 2015.
# Evgeniy Yakushev <yen81@mail.ru>, 2015.
#
# *- mode: po *- Slovenian translation for util-linux package.
# Copyright (C) 2002, 2003 Free Software Foundation, Inc.
# Primož Peterlin <primoz.peterlin@biofiz.mf.uni-lj.si>, 2002, 2003.
# Simon Mihevc <simonmihevc@volja.net>, 2005, 2006
# $Id: util-linux-2.13-pre6.sl.po,v 1.3 2006/03/04 19:29:34 peterlin Exp $
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# Christian Rose <menthos@menthos.com>, 2001, 2002, 2003, 2004.
# Daniel Nylander <po@danielnylander.se>, 2007.
# Sebastian Rasmussen <sebras@gmail.com>, 2016, 2017, 2018.
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#
# Turkish translations for util-linux messages.

```

```

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# Nilgün Belma Bugüner <nilgun@buguner.name.tr>, 2001, ..., 2006.
# Alper Tekinalp <alper.tekinalp@gmail.com>, 2017.
#
# Ukrainian translation to util-linux.
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#
# Maxim V. Dziuromanenko <mvd@mylinux.com.ua>, 2004-2006.
# Yuri Chornoivan <yurchor@ukr.net>, 2012, 2013, 2014, 2015, 2016, 2017, 2018.

# Vietnamese translation for Util-Linux.
# Báçñ dá»ch tiá»ng Viá»t đã nh cho util-linux.
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# Phan Vinh Thinh <teppi82@gmail.com>, 2005-2007.
# Clytie Siddall <clytie@riverland.net.au>, 2007-2010.
# Trá»n Ngá»c Quá»n <vnwildman@gmail.com>, 2012-2014, 2015.
#
# Chinese simplified translation of util-linux.
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# Ray Wang <wanglei1123@gmail.com>, 2008.
# Wylmer Wang <wantinghard@gmail.com>, 2012, 2013, 2014, 2015, 2016.

# Traditional Chinese Messages for util-linux.
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# Wei-Lun Chao <bluebat@member.fsf.org>, 2010.

```

GPLV1(Many files exist)

fsck --- A generic, parallelizing front-end for the fsck program.
It will automatically try to run fsck programs in parallel if the
devices are on separate spindles. It is based on the same ideas as
the generic front end for fsck by David Engel and Fred van Kempen,
but it has been completely rewritten from scratch to support
parallel execution.

Written by Theodore Ts'o, <tytso@mit.edu>

Miquel van Smoorenburg (miquels@drinkel.ow.org) 20-Oct-1994:

- o Changed -t fstype to behave like with mount when -A (all file systems) or -M (like mount) is specified.
- o fsck looks if it can find the fsck.type program to decide if it should ignore the fs type. This way more fsck programs can be added without changing this front-end.
- o -R flag skip root file system.

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2001, 2002, 2003, 2004, 2005 by Theodore Ts'o.

Copyright (C) 2009-2014 Karel Zak <kzak@redhat.com>

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mkfs.minix.c - make a linux (minix) file-system.

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mkswap.c - set up a linux swap device

Copyright (C) 1991 Linus Torvalds
20.12.91 - time began. Got VM working yesterday by doing this by hand.

Copyright (C) 1999 Jakub Jelinek <jj@ultra.linux.cz>
Copyright (C) 2007-2014 Karel Zak <kzak@redhat.com>

partx: tell the kernel about your disk's partitions
[This is not an fdisk - adding and removing partitions
is not a change of the disk, but just telling the kernel
about presence and numbering of on-disk partitions.]

aeb, 2000-03-21 -- sah is 42 now

Copyright (C) 2010 Davidlohr Bueso <dave@gnu.org>
Rewritten to use libblkid for util-linux
based on ideas from Karel Zak <kzak@redhat.com>

swaplabel.c - Print or change the label / UUID of a swap partition

Copyright (C) 2010 Jason Borden <jborden@bluehost.com>
Copyright (C) 2010 Karel Zak <kzak@redhat.com>

Usage: swaplabel [-L label] [-U UUID] device

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Written by Karel Zak <kzak@redhat.com>

canonicalize.c -- canonicalize pathname by removing symlinks

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Terminology:

cpuset #NAME?
cpumask - string with hex mask (e.g. "0x00000001")
cpulist - string with CPU ranges (e.g. "0-3,5,7,8")

Based on code from taskset.c and Linux kernel.

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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 high-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

Copyright (C) 2012 Sami Kerola <kerolas@iki.fi>

ismounted.c --- Check to see if the filesystem was mounted

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This is callback solution for systems without nl_langinfo(), this function returns hardcoded and on locale setting independent value.

See langinfo.h man page for more details.

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Written by Karel Zak <kzak@redhat.com>

-- based on mount/losetup.c

Simple library for work with loop devices.

- requires kernel 2.6.x
- reads info from /sys/block/loop<N>/loop/<attr> (new kernels)
- reads info by ioctl
- supports *unlimited* number of loop devices
- supports /dev/loop<N> as well as /dev/loop/<N>
- minimize overhead (fd, loopinfo, ... are shared for all operations)
- setup (associate device and backing file)
- delete (dis-associate file)
- old LOOP_{SET,GET}_STATUS (32bit) ioctls are unsupported
- extendible

Functions for %oct encoding used in mtab/fstab/swaps/etc.

Based on code from mount(8).

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LGPLV2(Many files exist)

Very simple multibyte buffer editor. Allows to maintain the current
position in the string, add and remove chars on the current position.

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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.

GPLV3('parse-date.c',)

Simple functions to access files. Paths can be globally prefixed to read
data from an alternative source (e.g. a /proc dump for regression tests).

The paths is possible to format by printf-like way for functions with "f"
postfix in the name (e.g. readf, openf, ... ul_path_readf_u64()).

The ul_path_read_* API is possible to use without path_cxt handler. In this
case is not possible to use global prefix and printf-like formatting.

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Written by Karel Zak <kzak@redhat.com> [February 2018]

General purpose random utilities

Based on libuuid code.

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cache.c - allocation/initialization/free routines for cache

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Copyright (C) 2003 Theodore Ts'o

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config.c - blkid.conf routines

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dev.c - allocation/initialization/free routines for dev

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devname.c - get a dev by its device inode name

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devno.c - find a particular device by its device number (major/minor)

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encode.c - string conversion routines (mostly for compatibility with
udev/volume_id)

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evaluate.c - very high-level API to evaluate LABELs or UUIDs

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getsize.c --- get the size of a partition.

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lseek.c -- stub calling the llseek system call

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aix partitions

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atari partitions parsing code

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Based on Linux kernel implementation and atari-fdisk

BSD/OSF partition parsing code

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Inspired by fdisk, partx, Linux kernel, libparted and openbsd header files.

MS-DOS partition parsing code

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Inspired by fdisk, partx, Linux kernel and libparted.

EFI GPT partition parsing code

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For more information about GPT start your study at:
http://en.wikipedia.org/wiki/GUID_Partition_Table
[http://technet.microsoft.com/en-us/library/cc739412\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc739412(WS.10).aspx)

mac partitions parsing code

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Minix partition parsing code

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partitions - partition tables parsing

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sgi partition parsing code

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Solaris x86 partition parsing code

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sun (solaris-sparc) partition parsing code

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uktrix partition parsing code

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unixware partition parsing code

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The interesting information about unixware PT:

- Linux kernel / partx
- vtoc(7) SCO UNIX command man page
- evms source code (<http://evms.sourceforge.net/>)
- vxtools source code (<http://martin.hinner.info/fs/vxfs/>)

Low-level libblkid probing API

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read.c - read the blkid cache from disk, to avoid scanning all devices

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resolve.c - resolve names and tags into specific devices

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save.c - write the cache struct to disk

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Inspired by libvolume_id by
Kay Sievers <kay.sievers@vrfy.org>

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Based on code fragments from bcache-tools by Kent Overstreet:
<http://evilpiepirate.org/git/bcache-tools.git>

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Partly based on the Haiku BFS driver by
Axel D rfler <axeld@pinc-software.de>

Also inspired by the Linux BeFS driver by
Will Dyson <will_dyson@pobox.com>, et al.

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defines, structs taken from drbd source; file names represent drbd source
files.

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DRBD is a blocklevel replication solution in the Linux kernel,
upstream since 2.6.33. (See <http://drbd.linbit.com/>)
DRBDmanage is a configuration frontend that assists in

creating/deleting/modifying DRBD resources across multiple machines (a DRBDmanage "cluster"); this file detects its control volume, which is replicated (via DRBD 9) on some of the nodes.

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superblocks.c - reads information from filesystem and raid superblocks

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This is written from scratch according to Linux kernel fs/sysv/super.c file.
It seems that sysv probing code in libvolume_id and also in the original
blkid is useless.

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tag.c - allocation/initialization/free routines for tag structs

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device-mapper (dm) topology
-- this is fallback for old systems where the topology information is not
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Evms topology
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ioctl based topology -- gathers topology information

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lvm topology
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Linux Software RAID (md) topology
-- this is fallback for old systems where the topology information is not
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sysfs based topology -- gathers topology information from Linux sysfs

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For more information see Linux kernel Documentation/ABI/testing/sysfs-block.

topology - gathers information about device topology

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version.c --- Return the version of the blkid library

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Libfdisk sample to create partitions by specify all required partition
properties (partno, start and size). The defaults is only partition type
(except MBR where 4th partition is extended).

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Libfdisk sample to create partitions by specify size, for example:

```
mkpart --label dos --device /dev/sdc 2M 2M 2M 10M 1M -
```

creates 6 partitions:

- 3 primary (3x 2M)
- 1 extended (1x 10M)
- 2 logical (1x 1M, 1x remaining-space-in-extended-partition)

Notes:

The sample specifies size and partno for MBR, and size only for another
labels (e.g. GPT).

The Ask-API does not use anything else than warning/info. The
partitioning has to be done non-interactive.

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Based on the original code from fdisk
written by Bernhard Fastenrath (fasten@informatik.uni-bonn.de)
with code from the NetBSD disklabel command.

Arnaldo Carvalho de Melo <acme@conectiva.com.br>, March 1999
David Huggins-Daines <dhuggins@linuxcare.com>, January 2000

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GUID Partition Table (GPT) support. Based on UEFI Specs 2.3.1
Chapter 5: GUID Partition Table (GPT) Disk Layout (Jun 27th, 2012).
Some ideas and inspiration from GNU parted and gptfdisk.

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This is a re-written version for libfdisk, the original was fdisksgilabel.c
from util-linux fdisk, by:

Andreas Neuper, Sep 1998,
Arnaldo Carvalho de Melo <acme@conectiva.com.br>, Mar 1999,
Phillip Kesling <pkesling@sgi.com>, Mar 2003.

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Based on original code from fdisk:
Jakub Jelinek (jj@sunsite.mff.cuni.cz), July 1996
Merged with fdisk for other architectures, aeb, June 1998.
Arnaldo Carvalho de Melo <acme@conectiva.com.br> Mar 1999, Internationalization

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Routines for TEST_PROGRAMs

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cell.c - functions for table handling at the cell level

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symbols.c - routines for symbol handling

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table.c - functions handling the data at the table level

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table.c - functions handling the data at the table level

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version.c - Return the version of the library

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clear.c -- Clear a UUID

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compare.c --- compare whether or not two UUIDs are the same

Returns 0 if the two UUIDs are different, and 1 if they are the same.

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gen_uuid.c --- generate a DCE-compatible uuid

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isnull.c --- Check whether or not the UUID is null

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parse.c --- UUID parsing

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predefined.c --- well-known UUIDs from the RFC-4122 namespace

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tst_uuid.c --- test program from the UUID library

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Internal routine for unpacking UUID

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unparse.c -- convert a UUID to string

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uuid_time.c --- Interpret the time field from a uuid. This program violates the UUID abstraction barrier by reaching into the guts of a UUID and interpreting it.

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auth.c -- PAM authorization code, common between chsh and chfn
(c) 2012 by Cody Maloney <cmaloney@theoreticalchaos.com>

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chfn and chsh shared functions

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chfn.c -- change your finger information
(c) 1994 by salvatore valente <svalente@athena.mit.edu>
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\$Author: aebr \$
\$Revision: 1.18 \$
\$Date: 1998/06/11 22:30:11 \$

Updated Thu Oct 12 09:19:26 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Hacked by Peter Breitenlohner, peb@mppmu.mpg.de,
to remove trailing empty fields. Oct 5, 96.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

chsh.c -- change your login shell
(c) 1994 by salvatore valente <svalente@athena.mit.edu>
(c) 2012 by Cody Maloney <cmaloney@theoreticalchaos.com>

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\$Author: aebr \$
\$Revision: 1.19 \$
\$Date: 1998/06/11 22:30:14 \$

Updated Thu Oct 12 09:33:15 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Updated Mon Jul 1 18:46:22 1996 by janl@math.uio.no with security
suggestion from Zefram. Disallowing users with shells not in /etc/shells
from changing their shell.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

libuser.c -- Utilize libuser to set a user attribute
(c) 2012 by Cody Maloney <cmaloney@theoreticalchaos.com>

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login(1)

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Michael Glad (glad@daimi.dk)
Computer Science Department, Aarhus University, Denmark
1990-07-04

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Updated Thu Oct 12 09:56:55 1995 by faith@cs.unc.edu with security patches from Zefram <A.Main@dcs.warwick.ac.uk>

Updated Thu Nov 9 21:58:53 1995 by Martin Schulze
<joey@finlandia.infodrom.north.de>. Support for vigr.

Martin Schulze's patches adapted to Util-Linux by Nicolai Langfeldt.

blkid.c - User command-line interface for libblkid

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>

- added Native Language Support

Sun Mar 21 1999 - Arnaldo Carvalho de Melo <acme@conectiva.com.br>

- fixed strerr(errno) in gettext calls

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The test heavily uses shared memory, to enlarge maximal size of shared
segment use:

```
echo "4294967295" > /proc/sys/kernel/shmm
```

The test is compiled against in-tree libuuid, if you want to test uuid
installed to the system then make sure that libuuid uses the same socket
like the running uuid. You can start the uuid manually, for example:

```
uuid --debug --no-fork --no-pid --socket /run/uuid/request
```

if the \$runstatedir (as defined by build-system) is /run. If you want
to overwrite the built-in default then use:

```
make uuid uuidgen runstatedir=/var/run
```

uuid.c --- UUID-generation daemon

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gen_uuid.c --- generate a DCE-compatible uuid

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uuidparse.c --- Interpret uuid encoded information. This program
violates the UUID abstraction barrier by reaching into the
guts of a UUID.

Based on libuuid/src/uuid_time.c
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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
2011-08-12 Davidlohr Bueso <dave@gnu.org>
- added \$PATH lookup

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dmesg.c -- Print out the contents of the kernel ring buffer

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fallocate - utility to use the fallocate system call

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Written by Eric Sandeen <sandeen@redhat.com>
Karel Zak <kzak@redhat.com>

cvtnum routine taken from xfsprogs,
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Originally from Ted's losetup.c

losetup.c - setup and control loop devices

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/dev/rfkill userspace tool

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zramctl - control compressed block devices in RAM

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Modified Fri Mar 10 20:27:19 1995, faith@cs.unc.edu, for Linux
Modified Mon Jul 1 18:14:10 1996, janl@ifi.uio.no, writing to stdout

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setterm.c, set terminal attributes.

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Adaption to Linux by Peter MacDonald.

Enhancements by Mika Liljeberg (liljeber@cs.Helsinki.FI)

Beep modifications by Christophe Jolif (cjolif@storm.gatelink.fr.net)

Sanity increases by Cafeine Addict [sic].

Powersave features by todd j. derr <tjd@wordsmith.org>

Converted to terminfo by Kars de Jong (jongk@cs.utwente.nl)

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

Semantics:

Setterm writes to standard output a character string that will invoke the specified terminal capabilities. Where possible terminfo is consulted to find the string to use. Some options however do not correspond to a terminfo capability. In this case if the terminal type is "con*" or "linux*" the string that invokes the specified capabilities on the PC Linux virtual console driver is output. Options that are not implemented by the terminal are ignored.

The following options are non-obvious.

- term can be used to override the TERM environment variable.
- reset displays the terminal reset string, which typically resets the terminal to its power on state.

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Modified Sun Mar 12 10:39:22 1995, faith@cs.unc.edu for Linux

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Modified for Linux, Mon Mar 8 18:16:24 1993, faith@cs.unc.edu
Wed Jun 22 21:41:56 1994, faith@cs.unc.edu:
Added fix from Mike Grunehoff (kashmir@umiacs.umd.edu)
Mon Jul 1 17:01:39 MET DST 1996, janl@math.uio.no:

This testing program makes sure the byteswap functions work

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test_sigreceive - wait for signal and exit with value of it

Written by Sami Kerola <kerolasa@iki.fi>

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test_tiocsti - test security of TIOCSTI

Written by Federico Bento <up201407890@alunos.dcc.fc.up.pt>

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Wed Jun 22 22:15:41 1994, faith@cs.unc.edu: Added internationalization patches from Andries.Brouwer@cw.nl
Wed Sep 14 22:31:17 1994: patches from Carl Christofferson (cchris@connected.com)

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Modified for Linux by Charles Hannum (mycroft@gnu.ai.mit.edu)
and Brian Koehmstedt (bpk@gnu.ai.mit.edu)

Wed Sep 14 22:26:00 1994: Patch from bjdouma <bjdouma@xs4all.nl> to handle
last line that has no newline correctly.

3-Jun-1998: Patched by Nicolai Langfeldt to work better on Linux:
Handle any-length-lines. Code copied from util-linux' setpwnam.c

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*
* (based on list.h from e2fsprogs)
* Merge sort based on kernel's implementation.

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* General memory allocation wrappers for malloc, realloc, calloc and strdup

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- * auth.h -- PAM authorization code, common between chsh and chfn

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[Exhibit_634]

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GPLV2('test-driver', 'missing')

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[Exhibit_649]

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This is a header file for the x264ASM assembly language, which uses NASM/YASM syntax combined with a large number of macros to provide easy abstraction between different calling conventions (x86_32, win64, linux64). It also has various other useful features to simplify writing the kind of DSP functions that are most often used in x264.

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M4sh Initialization.

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Modifications and fixes for the Zapping 0.5 release by
Iñaki García Etxebarria <garetxe@users.sourceforge.net>

Modifications by Michael H. Schimek <mschimek@users.sf.net>
for libzvb1 0.1: Added character classes :gfx: and :dres:,
commented out the surrogate expansion and IGNORE_NONSPACING
in ure_exec since we don't need that.

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Iñaki García Etxebarria <garetxe@users.sourceforge.net>

Modifications by Michael H. Schimek <mschimek@users.sf.net>
for libzvb 0.1: Added character classes :gfx: and :drcs:,
commented out the surrogate expansion and IGNORE_NONSPACING
in ure_exec since we don't need that.

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Simple script to generate a deb package for a Linux kernel. All the complexity of what to do with a kernel after it is installed or removed is left to other scripts and packages: they can install scripts in the /etc/kernel/{pre,post}{inst,rm}.d/ directories (or an alternative location specified in KDEB_HOOKDIR) that will be called on package install and removal.

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Linux driver for QLogic BR-series Fibre Channel Host Bus Adapter.

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An even bigger kudos to John Grana at Performance Technologies for providing me with the hardware to write this driver, you rule

John you really do.

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This driver adds support for UART devices via Freescale's QUICC Engine
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If Soft-UART support is needed but not already present, then this driver
will request and upload the Soft-UART microcode upon probe. The
filename of the microcode should be fsl_qe_uct_uart_X_YZ.bin, where X
is the name of the SOC (e.g. 8323), and YZ is the revision of the SOC,
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The USB isight cameras in recent Apples are roughly compatible with the USB video class specification, and can be driven by uvcvideo. However, they need firmware to be loaded beforehand. After firmware loading, the device detaches from the USB bus and reattaches with a new device ID. It can then be claimed by the uvc driver.

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Generic filesystem journal-writing code; part of the ext2fs
journaling system.

This file manages journals: areas of disk reserved for logging
transactional updates. This includes the kernel journaling thread
which is responsible for scheduling updates to the log.

We do not actually manage the physical storage of the journal in this
file: that is left to a per-journal policy function, which allows us
to store the journal within a filesystem-specified area for ext2
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this code maps all the lock dependencies as they occur in a live kernel
and will warn about the following classes of locking bugs:

- lock inversion scenarios
- circular lock dependencies
- hardirq/softirq safe/unsafe locking bugs

Bugs are reported even if the current locking scenario does not cause
any deadlock at this point.

I.e. if anytime in the past two locks were taken in a different order,
even if it happened for another task, even if those were different
locks (but of the same class as this lock), this code will detect it.

Thanks to Arjan van de Ven for coming up with the initial idea of
mapping lock dependencies runtime.

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Defines low-level handling of mcount calls when the kernel is compiled with the -pg flag. When using dynamic ftrace, the mcount call-sites get patched with NOP till they are enabled. All code mutation routines here are called under stop_machine().

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ISA shared memory and I/O port support, and is required to support iopl, inb, outb and friends in userspace via glibc emulation.

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ARMv6 has 2 configurable performance counters and a single cycle counter. They all share a single reset bit but can be written to zero so we can use that for a reset.

The counters can't be individually enabled or disabled so when we remove one event and replace it with another we could get spurious counts from the wrong event. However, we can take advantage of the fact that the performance counters can export events to the event bus, and the event bus itself can be monitored. This requires that we *don't* export the events to the event bus. The procedure for disabling a configurable counter is:

- change the counter to count the ETMEXTOUT[0] signal (0x20). This effectively stops the counter from counting.
- disable the counter's interrupt generation (each counter has it's own interrupt enable bit).

Once stopped, the counter value can be written as 0 to reset.

To enable a counter:

- enable the counter's interrupt generation.

#NAME?

Note: the dedicated cycle counter only counts cycles and can't be enabled/disabled independently of the others. When we want to disable the cycle counter, we have to just disable the interrupt reporting and start ignoring that counter. When re-enabling, we have to reset the value and enable the interrupt.

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Based on the previous xscale OProfile code.

There are two variants of the xscale PMU that we support:

- xscale1pmu: 2 event counters and a cycle counter
- xscale2pmu: 4 event counters and a cycle counter

The two variants share event definitions, but have different PMU structures.

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Perform ISA memory and IO accesses. The EBSA110 has some peculiarities
in the way it handles accesses to odd IO ports on 16-bit devices. These
devices have their D0-D15 lines connected to the processors D0-D15 lines.
Since they expect all byte IO operations to be performed on D0-D7, and the
StrongARM expects to transfer the byte to these odd addresses on D8-D15,
we must use a trick to get the required behaviour.

The trick employed here is to use long word stores to odd address -1. The
glue logic picks this up as a trick access, and asserts the LSB of the
peripherals address bus, thereby accessing the odd IO port. Meanwhile, the
StrongARM transfers its data on D0-D7 as expected.

Things get more interesting on the pass-1 EBSA110 - the PCMCIA controller
wiring was screwed in such a way that it had limited memory space access.

Luckily, the work-around for this is not too horrible. See
__isamem_convert_addr for the details.

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Paul Walmsley, Jouni Högander

This file contains clockdomains and clockdomain wakeup dependencies
for OMAP2420 chips. Some notes:

A useful validation rule for struct clockdomain: Any clockdomain
referenced by a wkdep_srcs must have a dep_bit assigned. So
wkdep_srcs are really just software-controllable dependencies.
Non-software-controllable dependencies do exist, but they are not
encoded below (yet).

24xx does not support programmable sleep dependencies (SLEEPDEP)

The overly-specific dep_bit names are due to a bit name collision
with CM_FCLKEN_{DSP,IVA2}. The DSP/IVA2 PM_WKDEP and CM_SLEEPDEP shift
value are the same for all powerdomains: 2

XXX should dep_bit be a mask, so we can test to see if it is 0 as a
sanity check?
XXX encode hardware fixed wakeup dependencies -- esp. for 3430 CORE

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Hacked for ARM by Phil Blundell <philb@gnu.org>
Hacked to allow all architectures to build, and various cleanups
by Russell King

This allows a driver to remap an arbitrary region of bus memory into virtual space. One should *only* use readl, writel, memcpy_toio and so on with such remapped areas.

Because the ARM only has a 32-bit address space we can't address the whole of the (physical) PCI space at once. PCI huge-mode addressing allows us to circumvent this restriction by splitting PCI space into two 2GB chunks and mapping only one at a time into processor memory. We use MMU protection domains to trap any attempt to access the bank that is not currently mapped. (This isn't fully implemented yet.)

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Reads the ACPI SRAT table to figure out what memory belongs to which CPUs.

Called from acpi_numa_init while reading the SRAT and SLIT tables.
Assumes all memory regions belonging to a single proximity domain are in one chunk. Holes between them will be included in the node.
(acpi_numa.c.)

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This borrows heavily from powerpc version, which is

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This is a pseudo I/O MMU which dispatches to the hardware I/O MMU whenever possible. We assume that the hardware I/O MMU requires full 32-bit addressability, as is the case, e.g., for HP zx1-based systems (there, the I/O MMU window is mapped at 3-4GB). If a device doesn't provide full 32-bit addressability, we fall back on the sw I/O TLB. This is good enough to let us support broken hardware such as soundcards which have a DMA engine that can address only 28 bits.

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02/01/15 David Mosberger Updated for v2.5.1
99/12/18 David Mosberger Added support for READ10/WRITE10 needed by linux v2.3.33

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All EFI Runtime Services are not implemented yet as EFI only
supports physical mode addressing on SoftSDV. This is to be fixed
in a future version. --drummond 1999-07-20

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Defines low-level handling of mcount calls when the kernel
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00/04/19 D. Mosberger Rewritten to mirror more closely the x86 I/O
APIC code. In particular, we now have separate

handlers for edge and level triggered interrupts.

00/10/27 Asit Mallick, Goutham Rao <goutham.rao@intel.com> IRQ vector allocation PCI to vector mapping, shared PCI interrupts.

00/10/27 D. Mosberger Document things a bit more to make them more understandable. Clean up much of the old IOSAPIC cruft.

01/07/27 J.I. Lee PCI irq routing, Platform/Legacy interrupts and fixes for ACPI S5(SoftOff) support.

02/01/23 J.I. Lee iosapic pgm fixes for PCI irq routing from _PRT

02/01/07 E. Focht <efocht@ess.nec.de> Redirectable interrupt vectors in iosapic_set_affinity(), initializations for /proc/irq/ /smp_affinity

02/04/02 P. Diefenbaugh Cleaned up ACPI PCI IRQ routing.

02/04/18 J.I. Lee bug fix in iosapic_init_pci_irq

02/04/30 J.I. Lee bug fix in find_iosapic to fix ACPI PCI IRQ to IOSAPIC mapping error

02/07/29 T. Kochi Allocate interrupt vectors dynamically

02/08/04 T. Kochi Cleaned up terminology (irq, global system interrupt, vector, etc.)

02/09/20 D. Mosberger Simplified by taking advantage of ACPI's pci_irq code.

03/02/19 B. Helgaas Make pcat_compat system-wide, not per-IOAPIC. Remove iosapic_address & gsi_base from

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This file contains the code used by various IRQ handling routines asking for different IRQs should be done through these routines instead of just grabbing them. Thus setups with different IRQ numbers shouldn't result in any weird surprises, and installing new handlers should be easier.

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4/14/2004 Added code to handle cpu migration and do safe irq migration without losing interrupts for iosapic architecture.

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2000-03-29 Chuck Fleckenstein <cfleck@co.intel.com>

Fixed PAL/SAL update issues, began MCA bug fixes, logging issues,
added min save state dump, added INIT handler.

2001-01-03 Fred Lewis <frederick.v.lewis@intel.com>

Added setup of CMCI and CPEI IRQs, logging of corrected platform
errors, completed code for logging of corrected & uncorrected
machine check errors, and updated for conformance with Nov. 2000
revision of the SAL 3.0 spec.

2002-01-04 Jenna Hall <jenna.s.hall@intel.com>

Aligned MCA stack to 16 bytes, added platform vs. CPU error flag,
set SAL default return values, changed error record structure to
linked list, added init call to sal_get_state_info_size().

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Ashok Raj <ashok.raj@intel.com>

05/26/2000 S.Eranian initial release

08/21/2000 S.Eranian updated to July 2000 PAL specs

02/05/2001 S.Eranian fixed module support

10/23/2001 S.Eranian updated pal_perf_mon_info bug fixes

03/24/2004 Ashok Raj updated to work with CPU Hotplug

10/26/2006 Russ Anderson updated processor features to rev 2.2 spec

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David Mosberger-Tang <davidm@hpl.hp.com>
04/11/17 Ashok Raj <ashok.raj@intel.com> Added CPU Hotplug Support

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08/02/00 A. Mallick <asit.k.mallick@intel.com>
Modified RID allocation for SMP
Goutham Rao <goutham.rao@intel.com>
IPI based ptc implementation and A-step IPI implementation.
Rohit Seth <rohit.seth@intel.com>
Ken Chen <kenneth.w.chen@intel.com>
Christophe de Dinechin <ddd@hp.com> Avoid ptc.e on memory allocation
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Fenghua Yu <fenghua.yu@intel.com>
Add multiple ptc.g/ptc.ga instruction support in global tlb purge.

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The concept of some functions bases on the original Amiga OS function

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5/2/94 Roman Hodek
Added setting of time_adj to get a better clock.

5/14/94 Roman Hodek
gettod() for TT

5/15/94 Roman Hodek
hard_reset_now() for Atari (and others?)

94/12/30 Andreas Schwab
atari_sched_init fixed to get precise clock.

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based on
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Reworked for Linux by Roman Zippel <zippel@linux-m68k.org>

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Based on ARAnyM driver for FreeMiNT written by Standa Opichal

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10/01/99 cleaned up the code and changing to the same interface
used by other architectures /Roman Zippel

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based on code from Oliver Jowett <oliver@jowett.manawatu.gen.nz>

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dmesg
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Provide default implementations of the DMA mapping callbacks for directly mapped busses.

[Exhibit_716]

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[Exhibit_717]

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[Exhibit_724]

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This file is part of LVM2.
It is required for the proper handling of failures of LVM2 mirror devices that were created using the -m option of lvcreate.

chkconfig 12345 02 99
description Starts and stops dmeventd monitoring for lvm2

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OS/2 32-bit
Borland C/C++

@call b%prepare.cmd
@if %BECHO%==n echo off

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OS/2 32-bit
emx + gcc

@call b%prepare.cmd
@if %BECHO%==n echo off

gcc -Wall -O2 %CFI% -s -o %BEXE% @b%src.rsp -L. -llzo2

@if errorlevel 1 goto error

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OS/2 32-bit
IBM Visual Age C/C++

@call b%prepare.cmd
@if %BECHO%==n echo off

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Watcom C/C++

@call b%prepare.cmd
@if %BECHO%==n echo off

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OS/2 16-bit
Symantec C/C++

@call b%prepare.cmd
@if %BECHO%==n echo off

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dbench_monitor monitor db_bench process for violation of memory utilization

default usage will monitor 'virtual memory size'. See below for standard options
passed to db_bench during this test.

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*/

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one column, the OCCUR column, this resulting into several rows.

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just by retrieving it as a file and then leave the existing data */
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```
make -fmakefile.dj2; make test -fmakefile.dj2
```

To install libz.a, zconf.h and zlib.h in the djgpp directories, type

```
make install -fmakefile.dj2
```

after first defining LIBRARY_PATH and INCLUDE_PATH in djgpp.env as
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Rewritten with a lot of bug fixes by Jani Tolonen and Thimble Smith
15.12.2000

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Written by Paul Eggert.

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Re-implemented by Vincent Sanders <vince@kyllikki.org> with extensive reference to original curl example code

Rewritten for MariaDB Connector/C by Georg Richter <georg@mariadb.com>

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Based on a concept by Arjen Lentz
v3 implementation by Antony Curtis, Arjen Lentz, Andrew McDonnell
For more information, documentation, support, enhancement engineering,
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[Exhibit_730]

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[Exhibit_731]

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Jordi Mallach <jordi@gnu.org>, 2004, 2005.
Josep Puigdemont <josep.puigdemont@gmail.com>, 2005

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# Jiř Pavlovsk½ <pavlovsk@ff.cuni.cz>, 1999 - 2001.
# Petr Psa <petr.pisar@atlas.cz>, 2006.
# Vladimr Michl <vladimir.michl@seznam.cz>, 2007
# Petr Psa <petr.pisar@atlas.cz>, 2007, 2008, 2009, 2010, 2011, 2012, 2013.
# Petr Psa <petr.pisar@atlas.cz>, 2014, 2015, 2016, 2017, 2018.
#
# eject tool messages merged from eject-2.1.5:
# Jeff Tranter <tranter@pobox.com>, 2005.
# Marek Eernock½ <marek@manet.cz>, 2006.
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# Claus Srensen <cs@klid.dk>, 2000.
# Keld Jrn Simonsen <keld@dkuug.dk>, 2000.
# Claus Hindsgaul <claus_h@image.dk>, 2001-2002, 2004, 2005.
# Joe Hansen <joedalton2@yahoo.dk>, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017.
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#
# People who helped or contributed (in historical order):
# Martin Schulze <joe@infodrom.north.de>
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# Beth Powell <bpowell@turbolinux.com>, 2000.
# Santiago Vila Doncel <sanvila@unex.es>, 2001, 2002, 2003, 2004, 2010, 2014.
# Antonio Ceballos Roa <aceballos@gmail.com>, 2014, 2015, 2016, 2017, 2018.
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# Mikel Olasagasti Uranga <hey_neken@mundurat.net>, 2005, 2009, 2010.
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# Tommi Nieminen <translator@legisign.org>, 2017.
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#
# ***
# signature tarvitsee paremman suomennoksen kuin allekirjoitus.
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# Michel Robitaille <robitail@IRO.UMontreal.CA>, 1996-2006.
# Nicolas Provost <nprovost@quadriv.com>, 2008-2009.
# Milan Bouchet-Valat <nalimilan@club.fr>, 2010.
# David PrÃ©vot <david@tilapin.org>, 2010-2015.

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# StÃ©phane Aulery <lkppo@free.fr>, 2016, 2017.
# Frédéric Marchal <fmarchal@perso.be>, 2018.
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# FIRST AUTHOR <EMAIL@ADDRESS>, 2010.
# Fran Dieguez <frandieguez@ubuntu.com>, 2010.
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# Tomislav Krznar <tomislav.krznar@gmail.com>, 2012, 2013.
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# Gábor István <stive@mezobereny.hu>, 2002.
# Gabor Kelemen <kelemeng@gnome.hu>, 2007, 2008, 2010.
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# Arif E. Nugroho <arif_endro@yahoo.com>, 2006, 2008, 2009, 2010.
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# Marco Colombo <m.colombo@ed.ac.uk>, 2005, 2006, 2008.
# Beth Powell <bpowell@turbolinux.com>, 2000.
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# partition table: tavola delle partizioni? tabella delle partizioni?
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# includes cfdisk original translation by
# Hidenobu NABETANI <nabetani@kern.phys.sci.osaka-u.ac.jp>
# Daisuke Yamashita <yamad@mb.infoweb.ne.jp>, 1999-2001.
# Makoto Kato <makoto.kt@gmail.com>, 2009-2010.
# Takeshi Hamasaki <hmatrjp@users.sourceforge.jp>, 2011, 2013.
# victory <victory.deb@gmail.com>, 2013.
# Takeshi Hamasaki <hmatrjp@users.sourceforge.jp>, 2014, 2015, 2016, 2017, 2018.
#
# (Additional History)
# Once util-linux-ng was forked from util-linux,
# as of January 2011 it has overridden original name util-linux.
# Work in 2013 is by courtesy of Yasuhiko Kamata <belphegor@belbel.or.jp>.

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# Christian Rose <menthos@menthos.com>, 2001, 2002, 2003, 2004.
# Daniel Nylander <po@danielnylander.se>, 2007.
# Sebastian Rasmussen <sebras@gmail.com>, 2016, 2017, 2018.
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# Nilgün Belma Bugüner <nilgun@buguner.name.tr>, 2001, ..., 2006.
# Alper Tekinalp <alper.tekinalp@gmail.com>, 2017.
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# Maxim V. Dziuromanenko <mvd@mylinux.com.ua>, 2004-2006.
# Yuri Chornoivan <yurchor@ukr.net>, 2012, 2013, 2014, 2015, 2016, 2017, 2018.

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# Phan Vinh Thinh <teppi82@gmail.com>, 2005-2007.
# Clytie Siddall <clytie@riverland.net.au>, 2007-2010.
# Trá»£n Ngá»c QuÃ£n <vnwildman@gmail.com>, 2012-2014, 2015.
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# Ray Wang <wanglei1123@gmail.com>, 2008.
# Wylmer Wang <wantinghard@gmail.com>, 2012, 2013, 2014, 2015, 2016.

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# Wei-Lun Chao <bluebat@member.fsf.org>, 2010.
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fsck --- A generic, parallelizing front-end for the fsck program. It will automatically try to run fsck programs in parallel if the devices are on separate spindles. It is based on the same ideas as the generic front end for fsck by David Engel and Fred van Kempen, but it has been completely rewritten from scratch to support parallel execution.

Written by Theodore Ts'o, <tytso@mit.edu>

Miquel van Smoorenburg (miquels@drinkel.ow.org) 20-Oct-1994:

- o Changed -t fstype to behave like with mount when -A (all file systems) or -M (like mount) is specified.
- o fsck looks if it can find the fsck.type program to decide if it should ignore the fs type. This way more fsck programs can be added without changing this front-end.
- o -R flag skip root file system.

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mkfs.minix.c - make a linux (minix) file-system.

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mkswap.c - set up a linux swap device

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20.12.91 - time began. Got VM working yesterday by doing this by hand.

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partx: tell the kernel about your disk's partitions
[This is not an fdisk - adding and removing partitions is not a change of the disk, but just telling the kernel about presence and numbering of on-disk partitions.]

aeb, 2000-03-21 -- sah is 42 now

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Rewritten to use libblkid for util-linux
based on ideas from Karel Zak <kzak@redhat.com>

swaplabel.c - Print or change the label / UUID of a swap partition

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Usage: swaptlabel [-L label] [-U UUID] device

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Written by Karel Zak <kzak@redhat.com>

canonicalize.c -- canonicalize pathname by removing symlinks

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Terminology:

cpuset #NAME?
cpumask - string with hex mask (e.g. 0x00000001)
cpulist - string with CPU ranges (e.g. 0-3,5,7,8)

Based on code from taskset.c and Linux kernel.

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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 high-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 operations 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

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ismounted.c --- Check to see if the filesystem was mounted

Copyright (C) 1995,1996,1997,1998,1999,2000,2008 Theodore Ts'o.

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This is callback solution for systems without nl_langinfo(), this function returns hardcoded and on locale setting independent value.

See langinfo.h man page for more details.

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Written by Karel Zak <kzak@redhat.com>

-- based on mount/losetup.c

Simple library for work with loop devices.

- requires kernel 2.6.x
- reads info from /sys/block/loop<N>/loop/<attr> (new kernels)

- reads info by ioctl
- supports *unlimited* number of loop devices
- supports /dev/loop<N> as well as /dev/loop/<N>
- minimize overhead (fd, loopinfo, ... are shared for all operations)
- setup (associate device and backing file)
- delete (dis-associate file)
- old LOOP_{SET,GET}_STATUS (32bit) ioctls are unsupported
- extendible

Functions for ioctl encoding used in mtab/fstab/swaps/etc.

Based on code from mount(8).

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GNU Lesser General Public License.

LGPLV2(Many files exist)

Very simple multibyte buffer editor. Allows to maintain the current
position in the string, add and remove chars on the current position.

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GNU Lesser General Public License.

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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.

GPLV3('parse-date.c',)

Simple functions to access files. Paths can be globally prefixed to read data from an alternative source (e.g. a /proc dump for regression tests).

The paths is possible to format by printf-like way for functions with f postfix in the name (e.g. readf, openf, ... ul_path_readf_u64()).

The ul_path_read_* API is possible to use without path_ext handler. In this case is not possible to use global prefix and printf-like formatting.

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Written by Karel Zak <kzak@redhat.com> [February 2018]

General purpose random utilities

Based on libuuid code.

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cache.c - allocation/initialization/free routines for cache

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config.c - blkid.conf routines

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dev.c - allocation/initialization/free routines for dev

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devname.c - get a dev by its device inode name

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devno.c - find a particular device by its device number (major/minor)

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encode.c - string conversion routines (mostly for compatibility with
udev/volume_id)

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evaluate.c - very high-level API to evaluate LABELs or UUIDs

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getsize.c --- get the size of a partition.

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llseek.c -- stub calling the llseek system call

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aix partitions

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atari partitions parsing code

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Based on Linux kernel implementation and atari-fdisk

BSD/OSF partition parsing code

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Inspired by fdisk, partx, Linux kernel, libparted and openbsd header files.

MS-DOS partition parsing code

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Inspired by fdisk, partx, Linux kernel and libparted.

EFI GPT partition parsing code

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This code is not copy & past from any other implementation.

For more information about GPT start your study at:
http://en.wikipedia.org/wiki/GUID_Partition_Table
[http://technet.microsoft.com/en-us/library/cc739412\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc739412(WS.10).aspx)

mac partitions parsing code

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Minix partition parsing code

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partitions - partition tables parsing

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sgi partition parsing code

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Solaris x86 partition parsing code

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sun (solaris-sparc) partition parsing code

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uktrix partition parsing code

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unixware partition parsing code

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The interesting information about unixware PT:

- Linux kernel / partx
- vtoc(7) SCO UNIX command man page
- evms source code (<http://evms.sourceforge.net/>)
- vxtools source code (<http://martin.hinner.info/fs/vxfs/>)

Low-level libblkid probing API

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read.c - read the blkid cache from disk, to avoid scanning all devices

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resolve.c - resolve names and tags into specific devices

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save.c - write the cache struct to disk

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Based on code fragments from bcache-tools by Kent Overstreet:
<http://evilpiepirate.org/git/bcache-tools.git>

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Partly based on the Haiku BFS driver by
Axel Dörfler <axeld@pinc-software.de>

Also inspired by the Linux BeFS driver by
Will Dyson <will_dyson@pobox.com>, et al.

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defines, structs taken from drbd source; file names represent drbd source
files.

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DRBD is a blocklevel replication solution in the Linux kernel,
upstream since 2.6.33. (See <http://drbd.linbit.com/>)
DRBDmanage is a configuration frontend that assists in
creating/deleting/modifying DRBD resources across multiple machines
(a DRBDmanage cluster); this file detects its control volume,
which is replicated (via DRBD 9) on some of the nodes.

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superblocks.c - reads information from filesystem and raid superblocks

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This is written from scratch according to Linux kernel fs/sysv/super.c file.
It seems that sysv probing code in libvolume_id and also in the original
blkid is useless.

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tag.c - allocation/initialization/free routines for tag structs

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device-mapper (dm) topology
-- this is fallback for old systems where the topology information is not
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ioctl based topology -- gathers topology information

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lvm topology
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Linux Software RAID (md) topology
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sysfs based topology -- gathers topology information from Linux sysfs

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For more information see Linux kernel Documentation/ABI/testing/sysfs-block.

topology - gathers information about device topology

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version.c --- Return the version of the blkid library

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Libfdisk sample to create partitions by specify all required partition
properties (partno, start and size). The defaults is only partition type
(except MBR where 4th partition is extended).

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GNU Lesser General Public License.

Libfdisk sample to create partitions by specify size, for example:

mkpart --label dos --device /dev/sdc 2M 2M 2M 10M 1M -

creates 6 partitions:

- 3 primary (3x 2M)
- 1 extended (1x 10M)
- 2 logical (1x 1M, 1x remaining-space-in-extended-partition)

Notes:

The sample specifies size and partno for MBR, and size only for another
labels (e.g. GPT).

The Ask-API does not use anything else than warning/info. The
partitionning has to be done non-interactive.

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Based on the original code from fdisk
written by Bernhard Fastenrath (fasten@informatik.uni-bonn.de)
with code from the NetBSD disklabel command.

Arnaldo Carvalho de Melo <acme@conectiva.com.br>, March 1999
David Huggins-Daines <dhuggins@linuxcare.com>, January 2000

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This is re-written version for libfdisk, the original was fdiskdoslabel.c
from util-linux fdisk.

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Copyright (C) 2012 Davidlohr Bueso <dave@gnu.org>

GUID Partition Table (GPT) support. Based on UEFI Specs 2.3.1
Chapter 5: GUID Partition Table (GPT) Disk Layout (Jun 27th, 2012).
Some ideas and inspiration from GNU parted and gptfdisk.

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This is a re-written version for libfdisk, the original was fdisksgilabel.c
from util-linux fdisk, by:

Andreas Neuper, Sep 1998,
Arnaldo Carvalho de Melo <acme@conectiva.com.br>, Mar 1999,
Phillip Kesling <pkesling@sgi.com>, Mar 2003.

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Based on original code from fdisk:
Jakub Jelinek (jj@sunsite.mff.cuni.cz), July 1996
Merged with fdisk for other architectures, aeb, June 1998.
Arnaldo Carvalho de Melo <acme@conectiva.com.br> Mar 1999, Internationalization

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Routines for TEST_PROGRAMs

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cell.c - functions for table handling at the cell level

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column.c - functions for table handling at the column level

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symbols.c - routines for symbol handling

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table.c - functions handling the data at the table level

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table.c - functions handling the data at the table level

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version.c - Return the version of the library

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clear.c -- Clear a UUID

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compare.c --- compare whether or not two UUIDs are the same

Returns 0 if the two UUIDs are different, and 1 if they are the same.

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copy.c --- copy UUIDs

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gen_uuid.c --- generate a DCE-compatible uuid

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isnull.c --- Check whether or not the UUID is null

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Internal routine for packing UUIDs

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parse.c --- UUID parsing

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predefined.c --- well-known UUIDs from the RFC-4122 namespace

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tst_uuid.c --- test program from the UUID library

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Internal routine for unpacking UUID

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unparse.c -- convert a UUID to string

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uuid_time.c --- Interpret the time field from a uuid. This program violates the UUID abstraction barrier by reaching into the guts of a UUID and interpreting it.

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auth.c -- PAM authorization code, common between chsh and chfn
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chfn and chsh shared functions

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chfn.c -- change your finger information
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\$Author: aebr \$
\$Revision: 1.18 \$
\$Date: 1998/06/11 22:30:11 \$

Updated Thu Oct 12 09:19:26 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Hacked by Peter Breitenlohner, peb@mppmu.mpg.de,
to remove trailing empty fields. Oct 5, 96.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

chsh.c -- change your login shell
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\$Author: aebr \$
\$Revision: 1.19 \$
\$Date: 1998/06/11 22:30:14 \$

Updated Thu Oct 12 09:33:15 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Updated Mon Jul 1 18:46:22 1996 by janl@math.uio.no with security
suggestion from Zefram. Disallowing users with shells not in /etc/shells
from changing their shell.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

libuser.c -- Utilize libuser to set a user attribute
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Michael Glad (glad@daimi.dk)
Computer Science Department, Aarhus University, Denmark
1990-07-04

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Updated Thu Oct 12 09:56:55 1995 by faith@cs.unc.edu with security patches from Zefram <A.Main@dcs.warwick.ac.uk>

Updated Thu Nov 9 21:58:53 1995 by Martin Schulze
<joey@finlandia.infodrom.north.de>. Support for vigr.

Martin Schulze's patches adapted to Util-Linux by Nicolai Langfeldt.

blkid.c - User command-line interface for libblkid

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
Sun Mar 21 1999 - Arnaldo Carvalho de Melo <acme@conectiva.com.br>
- fixed strerr(errno) in gettext calls

-
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The test heavily uses shared memory, to enlarge maximal size of shared segment use:

```
echo 4294967295 > /proc/sys/kernel/shmm
```

The test is compiled against in-tree libuuid, if you want to test uuid installed to the system then make sure that libuuid uses the same socket like the running uuid. You can start the uuid manually, for example:

```
uuid --debug --no-fork --no-pid --socket /run/uuid/request
```

if the \$runstatedir (as defined by build-system) is /run. If you want to overwrite the built-in default then use:

```
make uuid uuidgen runstatedir=/var/run
```

uuid.c --- UUID-generation daemon

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gen_uuid.c --- generate a DCE-compatible uuid

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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
2011-08-12 Davidlohr Bueso <dave@gnu.org>
- added \$PATH lookup

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2013 Sami Kerola <kerolasa@iki.fi>

dmesg.c -- Print out the contents of the kernel ring buffer

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fallocate - utility to use the fallocate system call

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Written by Eric Sandeen <sandeen@redhat.com>
Karel Zak <kzak@redhat.com>

cvtnum routine taken from xfsprogs,
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Originally from Ted's losetup.c

losetup.c - setup and control loop devices

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/dev/rfkill userspace tool

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zramctl - control compressed block devices in RAM

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Modified Fri Mar 10 20:27:19 1995, faith@cs.unc.edu, for Linux
Modified Mon Jul 1 18:14:10 1996, janl@ifi.uio.no, writing to stdout

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setterm.c, set terminal attributes.

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Adaption to Linux by Peter MacDonald.

Enhancements by Mika Liljeberg (liljeber@cs.Helsinki.FI)

Beep modifications by Christophe Jolif (cjolif@storm.gatelink.fr.net)

Sanity increases by Cafeine Addict [sic].

Powersave features by todd j. derr <tjd@wordsmith.org>

Converted to terminfo by Kars de Jong (jongk@cs.utwente.nl)

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

Semantics:

Setterm writes to standard output a character string that will invoke the specified terminal capabilities. Where possible terminfo is consulted to find the string to use. Some options however do not correspond to a terminfo capability. In this case if the terminal type is con*, or linux* the string that invokes the specified capabilities on the PC Linux virtual console driver is output. Options that are not implemented by the terminal are ignored.

The following options are non-obvious.

-term can be used to override the TERM environment variable.

-reset displays the terminal reset string, which typically resets the terminal to its power on state.

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Modified for Linux, Mon Mar 8 18:16:24 1993, faith@cs.unc.edu

Wed Jun 22 21:41:56 1994, faith@cs.unc.edu:

Added fix from Mike Grupenhoff (kashmir@umiacs.umd.edu)

Mon Jul 1 17:01:39 MET DST 1996, janl@math.uio.no:

This testing program makes sure the byteswap functions work

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test_sigreceive - wait for signal and exit with value of it

Written by Sami Kerola <kerolasa@iki.fi>

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test_tiocsti - test security of TIOCSTI

Written by Federico Bento <up201407890@alunos.dcc.fc.up.pt>

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Wed Jun 22 22:15:41 1994, faith@cs.unc.edu: Added internationalization patches from Andries.Brouwer@cw.nl
Wed Sep 14 22:31:17 1994: patches from Carl Christofferson

(cchris@connected.com)

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Modified for Linux by Charles Hannum (mycroft@gnu.ai.mit.edu)
and Brian Koehmstedt (bpk@gnu.ai.mit.edu)

Wed Sep 14 22:26:00 1994: Patch from bjdouma <bjdouma@xs4all.nl> to handle last line that has no newline correctly.

3-Jun-1998: Patched by Nicolai Langfeldt to work better on Linux:
Handle any-length-lines. Code copied from util-linux' setpwnam.c

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* (based on list.h from e2fsprogs)

* Merge sort based on kernel's implementation.

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* General memory allocation wrappers for malloc, realloc, calloc and strdup

* blkidP.h - Internal interfaces for libblkid

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This code implements the MD5 message-digest algorithm.
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To compute the message digest of a chunk of bytes, declare an
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needed on buffers full of bytes, and then call MD5Final, which
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Equivalent code is available from RSA Data Security, Inc.
This code has been tested against that, and is equivalent,
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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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This module serves to replace the original parser module written by Guido. The functionality is not matched precisely, but the original may be implemented on top of this. This is desirable since the source of the text to be parsed is now divorced from this interface.

Unlike the prior interface, the ability to give a parse tree produced by Python code as a tuple to the compiler is enabled by this module. See the documentation for more details.

I've added some annotations that help with the lint code-checking program, but they're not complete by a long shot. The real errors that lint detects are gone, but there are still warnings with `Py_[X]DECREF()` and `Py_[X]INCREf()` macros. The lint annotations look like `NOTE(...)`.

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('C:/Users/dhanushg/Desktop/Dhanush gowda files/encryption_check/sources/python2.7-2.7.16/Mac/Modules/icgluemodule.c',)

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This module serves to replace the original parser module written
by Guido. The functionality is not matched precisely, but the
original may be implemented on top of this. This is desirable
since the source of the text to be parsed is now divorced from
this interface.

Unlike the prior interface, the ability to give a parse tree
produced by Python code as a tuple to the compiler is enabled by
this module. See the documentation for more details.

I've added some annotations that help with the lint code-checking
program, but they're not complete by a long shot. The real errors
that lint detects are gone, but there are still warnings with
Py_[X]DECREF() and Py_[X]INCREC() macros. The lint annotations
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An Introduction to Tkinter

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

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This module serves to replace the original parser module written by Guido. The functionality is not matched precisely, but the original may be implemented on top of this. This is desirable

since the source of the text to be parsed is now divorced from this interface.

Unlike the prior interface, the ability to give a parse tree produced by Python code as a tuple to the compiler is enabled by this module. See the documentation for more details.

I've added some annotations that help with the lint code-checking program, but they're not complete by a long shot. The real errors that lint detects are gone, but there are still warnings with `Py_[X]DECREF()` and `Py_[X]INCREf()` macros. The lint annotations look like `NOTE(...)`.

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X86 Foreign Function Interface

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An Introduction to Tkinter

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Modified by Jack Jansen, CWI, July 1995:

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

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This module serves to replace the original parser module written by Guido. The functionality is not matched precisely, but the original may be implemented on top of this. This is desirable since the source of the text to be parsed is now divorced from this interface.

Unlike the prior interface, the ability to give a parse tree produced by Python code as a tuple to the compiler is enabled by this module. See the documentation for more details.

I've added some annotations that help with the lint code-checking program, but they're not complete by a long shot. The real errors that lint detects are gone, but there are still warnings with `Py_[X]DECREF()` and `Py_[X]INCREf()` macros. The lint annotations look like `NOTE(...)`.

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X86 Foreign Function Interface

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[Exhibit_787]

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To compute the message digest of a chunk of bytes, declare an
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Anton Zinoviev <zinoviev@debian.org>, 2000,2006.

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Àngel Mompalao <ecatis@gmail.com>, 2010, 2011.

Czech translations for GNU tar
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Vladimir Michl <Vladimir.Michl@seznam.cz>, 1997.
Petr Písař <petr.pisar@atlas.cz>, 2009, 2010, 2011, 2013, 2014, 2016.

Danish messages for GNU tar.
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Claus Hindsgaul <claus_h@image.dk>, 2001.
Keld Jørn Simonsen <keld@keldix.com>, 2000-2001,2009,2010.
Keld Simonsen <keld@keldix.com>, 2010-2011, 2015.

German messages for GNU tar.
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Copyright (C) 2001 Free Software Foundation, Inc.
Ulrich Drepper <drepper@gnu.ai.mit.edu>, 1995?
Karl Eichwalder <ke@ke.central.de>, 1996
Christian Kirsch <ck@held.mind.de>, 1996, 2001

```

# Michael Piefel <piefel@informatik.hu-berlin.de>, 2003, 2006, 2007, 2008, 2009, 2010, 2011, 2013, 2014, 2016
#
# Greek translation of tar
# Copyright (C) 2003, 2004 Free Software Foundation, Inc.
# Μπαλάσκας Ευάγγελος (Balaskas Euaggelos) <ebalaskas@cs.teiath.gr>, 2004.
# Simos Xenitellis <simos74@gmx.net>, 2004.
#
# Esperanto translation.
# Copyright (C) 2013, 2014, 2016 Free Software Foundation, Inc.
# This file is distributed under the same license as the tar package.
# Felipe Castro <fefcas@gmail.com>, 2013, 2014, 2016.
#
# Mensajes en espa  para GNU tar.
# Copyright (C) 1997, 1998, 1999, 2000 Free Software Foundation, Inc.
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# Federico Rivas <frivas@arrakis.es>, 1997.
# Enrique Melero <melero@iprolink.ch>, 1997.
# Santiago Vila Doncel <sanvila@unex.es>, 1998, 1999, 2000, 2001, 2002, 2004, 2014.
# Antonio Ceballos <aceballos@gmail.com>, 2015, 2016
#
# This file is distributed under the same license as the tar package.
# Estonian translations for GNU tar.
# Copyright (C) 2001 Free Software Foundation, Inc.
# Toomas Soome <tsoome@me.com>, 2016.
#
# Translation of tar messages to Basque.
# Copyright (C) 2006 Free Software Foundation, Inc.
# Mikel Olasagasti <hey_neken@mundurat.net>, 2006.
# Piarres Beobide <pi@beobide.net>, 2006.
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#
#
# Finnish messages for GNU tar.
# Copyright   2002, 2003, 2004, 2006, 2014 Free Software Foundation, Inc.
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# Lauri Nurmi <lanurmi@iki.fi>, 2002-2006, 2014.
#
# Messages fran ais pour GNU concernant tar.
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#
# Michel Robitaille <robitail@IRO.UMontreal.CA>, jusqu'en 2004.
# Christophe Combelles <ccomb@free.fr>, 2007, 2008, 2009, 2010, 2011.
# St phane Aul ry <lkppo@free.fr>, 2015, 2016.
#
# Irish translations for tar.
# Copyright (C) 2003, 2004 Free Software Foundation, Inc.
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# Kevin Patrick Scannell <scannell@SLU.EDU>, 2003, 2004, 2006, 2007, 2008, 2009, 2017.

# Galician translation of GNU tar.
# Copyright (C) 2002 Free Software Foundation, Inc.
# Jacobo Tarr  Barreiro <jtarrio@iname.com>, 2002.
#
# Translation of tar to Croatian.
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#
# ... wishes to thank everybody who helped in good faith.
#
# Well, in 03:12 hrs (for 1st pass)!! who beats me I owe him a pizza ;-) -- TM

```

```

#
# bp, travanj 2016.: to je originalni TK zadnji prijevod od 2012. godine
# samo su dodani novi msgid-ovi i uređeni fuzirani msgstr-ovi.
# korektura u dogovoru s lingvistima slijedi u dogledno vrijeme.
#
#
# Mirsad Todorovac <mtodorov_69@yahoo.com>, 2002.
# Tomislav Krznar <tomislav.krznar@gmail.com>, 2012.
# Božidar Putanec <bozidarp@yahoo.com>, 2016.

# Hungarian translation of the GNU tar.
# Copyright (C) 2002, 2006, 2007, 2008, 2009, 2010, 2014, 2015, 2016 Free Software Foundation, Inc.
# This file is distributed under the same license as the tar package.
#
# Gábor István <stive@mezobereny.hu>, 2002.
# Gabor Kelemen <kelemeng@gnome.hu>, 2006, 2007, 2008, 2009, 2010, 2014, 2016.
# Balázs Úr <urbalazs@gmail.com>, 2015.

# Pesan bahasa indonesia untuk tar
# Copyright (C) 1999, 2002 Free Software Foundation, Inc.
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# Tedi Heriyanto <tedi_h@gmx.net>, 1999, 2002.
# Arif E. Nugroho <arif_endro@yahoo.com>, 2008, 2009, 2010, 2011, 2012, 2013, 2014.
#
# Italian translation of GNU tar.
# Copyright (C) 2008, 2009, 2010, 2011, 2013, 2014, 2016 Free Software Foundation, Inc.
# This file is distributed under the same license as the tar package.
#
# Lele Gaifax <lele@nautilus.eclipse.it>, 1996.
# Marco d'Itri <md@linux.it>, 1998.
# Milo Casagrande <milo@milo.name>, 2008-2010, 2011, 2013, 2014, 2016.
#
# Japanese messages for GNU tar 1.28.90
# Copyright (C) 1999, 2000, 2001, 2004, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2016 Free Software
Foundation, Inc.
# This file is distributed under the same license as the tar package.
# Masahito Yamaga <ma@yama-ga.com>, 2016.
#   derived from the version by
#       Daisuke Yamashita <yamad@mb.infoweb.ne.jp>, 1999-2001.
#       Masahito Yamaga <yamaga@ipc.chiba-u.ac.jp>, 2007.
#
# Korean translation for the GNU tar
# Copyright (C) 1996, 1997, 2016 Free Software Foundation, Inc.
# This file is distributed under the same license as the tar package.
# Bang Jun-Young <bangjy@nownuri.net>, 1996-1997.
# Seong-ho Cho <darkcircle.0426@gmail.com>, 2016.
#
# Translation of tar-1.18 messages to Kirghiz/Kyrgyz
# Copyright (C) 2007 Free Software Foundation, Inc.
# This file is distributed under the same license as the PACKAGE package.
# Azilet Beishenaliev <aziletb@gmail.com>, 2007.
#
# tar : Perisian membina arkib fail
# Copyright (C) 2002 Free Software Foundation, Inc.
# Hasbullah Bin Pit <sebol@ikhlas.com>, 2002.
#
# Norwegian (Bokmål) translation of GNU tar.
# Copyright (C) 2016 Free Software Foundation, Inc.
# This file is distributed under the same license as the tar package.
# Karl Anders Øygard <Karl.Oygard@fou.telenor.no>, 1996.

```

```

# Espen Skjelnes Johnsen <espejohn@sn.no>, 1997.
# Johnny A. Solbu <johnny@solbu.net>, 2014.
# Åka Sikrom <a4@hush.com>, 2016.
#
# Dutch translations for GNU tar.
# Copyright (C) 2016 Free Software Foundation, Inc.
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#
# □Moet men krabben waar het jeukt?□
#
# Benno Schulenberg <benno@vertaalt.nl>, 2005, 2006, 2007, 2008, 2010, 2011, 2013, 2014, 2016.
# Erwin Poeze <erwin.poeze@gmail.com>, 2009.
# Elros Cyriatan <cyriatan@fastmail.fm>, 2004.

# Polish translation of GNU tar
# Copyright (C) 1996, 1997, 2000, 2001, 2003, 2004, 2006, 2007, 2008, 2009, 2010, 2011, 2016, 2017 Free Software
Foundation, Inc.
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# Rafał Maszkowski <rzm@icm.edu.pl>, 1996, 1997, 2000, 2001, 2003, 2004, 2006-2011, 2016-2017.
# Thanks to: Jakub Bogusz for remarks and corrections, 2003, 2004, 2007, 2008, 2010,
#           Jan Psota for corrections, 2017.
#
# Portuguese translation of the tar messages
# Copyright (1995) Free Software Foundation, Inc.
# Ant□ Jos 頃 outinho <ajc@di.uminho.pt>
#
# Brazilian Portuguese translations for tar package
# Tradu 紘 s em portugu 冑 brasileiro para o pacote tar
# Copyright (C) 2017 Free Software Foundation, Inc.
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# Rodolfo Ferraz <rcaFerraz@gmail.com>, 2013.
# Eduardo Tenorio <embatbr@gmail.com>, 2013.
# Lucas Inojosa C. Ferreira <lucas.inojosa@gmail.com>, 2013.
# based on the previous translation to pt_BR (1.26) by
# Alexandre Folle de Menezes <afmenez@terra.com.br>, 2002.
# based on the previous translation to pt_BR (1.13.17) by
# Jo 樺Luiz Barbosa Silva <jl@conectiva.com.br>, 1997.
# based on the translation to Portuguese (pt) by
# Ant□ Jos 頃 outinho <ajc@di.uminho.pt>, 1996.
# Marcus Moreira de Souza <marcusms@frb.br>
# Rafael Fontenelle <rffontenelle@gmail.com>, 2017.

# Mesajele □limba rom 冑 pentru GNU tar
# Copyright (C) 2005 Free Software Foundation, Inc.
# Laurentiu Buzdugan <lbuz@rolix.org>, 2005.
#
#
# Translation of tar messages to Russian
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#
# Const Kaplinsky <const@ce.cctpu.edu.ru>, 1998, 1999.
# Pavel Maryanov <acid_jack@ukr.net>, 2004, 2006, 2008.
# Yuri Kozlov <yuray@komyakino.ru>, 2009, 2013, 2014, 2016.
# Pavel Maryanov <acid@jack.kiev.ua>, 2010, 2014.

# Slovak translations for GNU tar
# Copyright (C) 1997 Free Software Foundation, Inc.
# Martin Lacko <lacko@host.sk>, 2001.

```

```

#
# -*- mode: po; coding: utf-8; -*- Slovenian message catalog for GNU Tar
# Copyright (C) 1996, 1999, 2000, 2001, 2005, 2006, 2007, 2009, 2011, 2013, 2014 Free Software Foundation, Inc.
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# Primož Peterlin <primozz.peterlin@gmail.com>, 1996, 1999, 2000, 2001, 2005, 2006, 2007, 2009, 2011, 2013, 2014.
#
# Serbian translation of tar.
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# Мирослав Николић <miroslavnikolic@rocketmail.com>, 2014—2016.

# Swedish messages for tar
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# This file is distributed under the same license as the tar package.
# Jan Djärv <jan.h.d@swipnet.se>, 2000, 2001, 2004, 2006, 2007, 2008, 2009, 2010, 2011, 2013, 2014
# Anders Jonsson <anders.jonsson@norsjovallen.se>, 2016
#
# Turkish translations for GNU tar messages.
# Copyright (C) 2007 Free Software Foundation, Inc.
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# Nilgün Belma Bugüner <nilgun@buguner.name.tr>, 2001, ..., 2007.
# Volkan Gezer <vlkngzr@gmail.com>, 2013, 2017.

# Ukrainian messages for GNU tar
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#
# Sergey Poznyakoff <gray@gnu.org>, 2005-2010, 2016, 2017
# Yuri Chornoivan <yurchor@ukr.net>, 2014.

# Vietnamese translation for Tar.
# Bản dịch tiếng Việt dành cho tar.
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# Phan Vinh Thinh <teppi82@gmail.com>, 2005.
# Clytie Siddall <clytie@riverland.net.au>, 2007-2010.
# Trần Ngọc Quân <vnwildman@gmail.com>, 2012-2014, 2016.
#
# Chinese (simplified) translation for tar.
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# Wang Li <charles@linux.net.cn>, 2002.
# Rongjun Mu <rongjunmu+i18n@gmail.com>, 2004.
# Ji ZhengYu <zhengyuji@gmail.com>, 2016.
#
# Traditional Chinese Messages for tar.
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# Wei-Lun Chao <bluebat@member.fsf.org>, 2009, 2013, 2016.

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[Exhibit_811]

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# Abdulaziz Al-Arfaj <alarfaj0@yahoo.com>, 2004.
# Ossama M. Khayat <okhayat@yahoo.com>, 2005.
#
# Bulgarian translation of tasksel.

```

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Ognyan Kulev <ogi@fmi.uni-sofia.bg>, 2004.
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Mahay Alam Khan (মাহে আলম) <makl10n@yahoo.com>, 2006.
Israt Jahan <israt@ankur.org.bd>, 2010.

Catalan messages for Debian's tasksel.
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Jordi Mallach <jordi@debian.org>, 2001, 2003, 2004, 2006.

Czech translation for tasksel.
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Petr Cech <cech@debian.org>, 2000.
Miroslav Kure <kurem@debian.cz>, 2004-2005.

Welsh translations for tasksel.
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Dafydd Harries <daf@muse.19inch.net>, 2004.

translation of tasksel.po to Danish
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Claus Hindsgaul <claus_h@image.dk>, 2002-2003, 2004, 2005.
Morten Brix Pedersen <morten@wtf.dk>, 2001.
translation of de.po to german
Translation file for tasksel to German.
Copyright (C) 2000, 2003, 2004 Free Software Foundation, Inc.
Othmar Pasteka <pasteka@kabsi.at>, 2000, 2003.
Rene Engelhard <rene@debian.org>, 2004.
Dennis Stampfer <seppy@debian.org>, 2004.

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George Papamichelakis <george@step.gr>, 2004.

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Enrique Zanardi <ezanard@debian.org>, 2000.
Javier Fernandez-Sanguino <jfs@debian.org>, 2003

translation of eu.po to librezale
Inaki Larranaga Murgoitio, <dooteo@euskalgnu.org>, 2005.
Piarres Beobide <pi@beobide.net>, 2007.
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Piarres Beobide <pi@beobide.net> 2005
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# Arash Bijanzadeh <a.bijanzadeh@linuxiran.org>, 2004.
#
# translation of fi.po to Finnish
# Finnish translation for newtasksel/po/fi.po
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# Tommi Vainikainen <thv+debian@iki.fi>, 2003.
# Tapio Lehtonen <tale@debian.org>, 2004-2006.
#
# translation of fr.po to French
# Translation file for tasksel to French.
# Copyright (C) 2001, 2004, 2005 Free Software Foundation, Inc.
# Nicolas Sabouret <nico@limsi.fr>, 2001.
# Christian Perrier <bubulle@debian.org>, 2004, 2005.
#
# translation of gl.po to Galician
# Galician translation of Debian's tasksel.
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#
# H 飴 or Fern ez L  <trorrr@yahoo.es>, 2004.
# Jacobo Tarr jtarrio@debian.org>, 2001, 2005.
# Jorge Barreiro <yortx.barry@gmail.com>, 2012.
# translation of he.po to Hebrew
# English translation of newtasksel.
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#
# <>, 2004.
# Lior Kaplan <kaplan@debian.org>, 2006.
# Hungarian Debian team translation of tasksel.
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# Risko Gergely <risko@njszki.hu>, 2003.
# Verok Istvan <vi@fsf.hu>, 2004.
#
# translation of hy.po to Armenian
# translation of tasksel_po_hy.po to Armenian
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# Vardan Gevorgyan <vgevorgyan@debian.am>, 2008.
#
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# Riccardo Fabris <frick@linux.it>, 2002-2004.
# Giuseppe Sacco <epesuig@debian.org>, 2004-2005.
# Milo Casagrande <milo@ubuntu.com>, 2009.
# Japanese translation for tasksel.
# Copyright (C) 2000 Free Software Foundation, Inc.
# Keita Maehara <maehara@debian.org>, 2000.
# Tomohiro KUBOTA <kubota@debian.org>, 2004.
#
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# Kęstutis Biliūnas <kebil@kaunas.init.lt>, 2004, 2005.
# Rimas Kudelis <rq@akl.lt>, 2012.
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# Håvard Korsvoll <korsvoll@skulelinux.no>, 2004.
# Axel Bojer <axelb@skulelinux.no>, 2004.
# Knut Yrvin <knuty@skulelinux.no>, 2004.
# Klaus Ade Johnstad <klaus.johnstad@holmlia.gs.oslo.no>, 2004.
# Bjørn Steensrud <bjornst@powertech.no>, 2006.
#
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#
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# Marcin Owsiany <porridge@debian.org>, 2000, 2001.
# Bartosz Fenski aka fEnIo <fenio@debian.org>, 2004, 2005
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# Miguel Figueiredo <elmig@debianPT.org>, 2004.
#
# 2005-06-14 - Miguel Figueiredo <elmig@debianpt.org> - 1f
# 2005-12-13 - Miguel Figueiredo <elmig@debianpt.org> - 1f
#
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# Eddy Petrișor <eddy.petrisor@gmail.com>, 2004, 2005.
#
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# translation of tasksel_po_ru.po to Russian
# Copyright (C) 2000, 2004, 2005 Free Software Foundation, Inc.
# Peter Novodvorsky <petya@logic.ru>, 2000.
# Nikolai Prokoschenko <nikolai@prokoschenko.de>, 2004.
# Yuriy Talakan' <yt@amur.elektra.ru>, 2004.
# Yuri Kozlov <kozlov.y@gmail.com>, 2005.
#
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#
# , 2011.
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# Matjaz Horvat <matjaz@owca.info>, 2004.
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# Albanian translation of tasksel.
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# Elian Myftiu <elian@lycos.com>, 2004.
# , fuzzy

```



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# Janos Guljas <janos@janos.in.rs>, 2010.
# Karolina Kalic <karolina@janos.in.rs>, 2010.
#
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# Serbian/Latin messages for tasksel.
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# Janos Guljas <janos@janos.in.rs>, 2010.
# Karolina Kalic <karolina@janos.in.rs>, 2010.
#
#: ../tasksel.pl:394
# Swedish translation of tasksel
# Copyright (C) 2000, 2006 Software in the Public Interest, Inc.
# Daniel Nylander <po@danielnylander.se>, 2006.
# peter karlsson <peter@softwolves.pp.se>, 2000.
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#
# Damodharan Rajalingam <rdamodharan@gmail.com>, 2006.
# drtvasudevan <agnihot3@gmail.com>, 2006.
#: ../tasksel.pl:394
# translation of tasksel.po to Telugu
# Copyright (C) 2008, Y Giridhar Appaji Nag <giridhar@appaji.net>
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# Y Giridhar Appaji Nag <giridhar@appaji.net>, 2008.
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# Thai translation of tasksel.
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# Tagalog translation of tasksel.
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# Eric Pareja <xenos@upm.edu.ph>, 2005.
#
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# Turkish translation of tasksel.
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# Recai Oktaş <roktas@omu.edu.tr>, 2004.
#
#: ../tasksel.pl:394
# Uyghur translation for tasksel.
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# Sahran <sahran.ug@gmail.com>, 2010.
#
#: ../tasksel.pl:394
# translation of tasksel.po to Ukrainian

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Eugeniy Meshcheryakov <eugen@univ.kiev.ua>, 2004, 2005, 2006.
#

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Translation of Tasksel to Vietnamese
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Phan Vinh Thinh <teppi@vnoss.org>, 2005.
Clytie Siddall <clytie@riverland.net.au>, 2006.
#: ../tasksel.pl:394

translation of tasksel_po.po to Wolof
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Mouhamadou Mamoune Mbacke <mouhamadoumamoune@gmail.com>, 2005.
#

#: ../tasksel.pl:394
Simplified Chinese translation for tasksel.
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#

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Carlos Z.F. Liu <carlos_liu@yahoo.com>, 2004.
Ming Hua <minghua@rice.edu>, 2005.
#

#: ../tasksel.pl:394
Traditional Chinese translation for tasksel
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Tetralet <tetralet@pchome.com.tw>
Thanks to prev translator, Anthony Wong <ypwong@debian.org>
#

#: ../tasksel.pl:394
translation of tasksel_tasks_po.po to Arabic
translation of tasksel_tasks_po.po to
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Abdulaziz Al-Arfaj <alarfaj0@yahoo.com>, 2004.
Ossama M. Khayat <okhayat@yahoo.com>, 2005, 2006, 2007, 2008, 2010.

Bangla translation of tasksel_tasks.
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Progga <progga@BengaLinux.Org>, 2005, 2006.
Khandakar Mujahidul Islam <suzan@bengalinux.org>, 2006.
Mahay Alam Khan (মাহে আলম খান) <makl10n@yahoo.com>, 2006.
Md. Rezwan Shahid <rezwan@ankur.org.bd>, 2009.
Loba Yeasmeen <loba@ankur.org.bd>, 2010.
#

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Jordi Mallach <jordi@debian.org>, 2003, 2004, 2006, 2010.
#

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Miroslav Kure <kurem@debian.cz> 2003-2009.
#

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Dafydd Harries <daf@muse.19inch.net>, 2004.
#

Danish translation tasksel.

```

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# Claus Hindsgaul <claus_h@image.dk>, 2003, 2004, 2005, 2006.
# Claus Hindsgaul <claus.hindsgaul@gmail.com>, 2006, 2007.
# Joe Hansen <joedalton2@yahoo.dk>, 2010.
#
# German translation.
# This file is distributed under the same license as the tasksel package.
# First author unknown.
# Rene Engelhard <rene@debian.org>, 2004.
# Dennis Stampfer <seppy@debian.org>, 2004.
# Jens Seidel <jensseidel@users.sf.net>, 2005, 2006, 2008.
# Holger Wansing <linux@wansing-online.de>, 2010.
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#
# Konstantinos Margaritis <markos@debian.org>, 2004.
# George Papamichelakis <george@step.gr>, 2004.
# Greek Translation Team <debian-l10n-greek@lists.debian.org>, 2005.
# Antonis Antoniadis <cereal.killer.rules@gmail.com>, 2006, 2010.
# Emmanuel Galatoulas <galaxico@quad-nrg.net>, 2010.

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# Serge Leblanc <serge.leblanc@wanadoo.fr>, 2006.
# Felipe Castro <fefcas@gmail.com>, 2009.
#
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# Tommi Vainikainen <thv+debian@iki.fi>, 2003.
# Tapio Lehtonen <tale@debian.org>, 2004, 2006, 2010.
# Raija Polojärvi <raijapolojarvi@gmail.com>, 2006.
# Finnish language names checked from:
# http://www.kotoistus.fi/suosituksset/vahv\_kielten-nimet-suomeksi\_cldr1\_4.pdf
#
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#
# Héctor Fernández López <trorrr@yahoo.es>, 2004.
# Jacobo Tarrío <jtarrío@debian.org>, 2005, 2006, 2007, 2008.
# Jorge Barreiro <yortx.barry@gmail.com>, 2010, 2012.

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# Kartik Mistry <kartik.mistry@gmail.com>, 2006.
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# Lior Kaplan <kaplan@debian.org>, 2006, 2007, 2008, 2010.

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# Giuseppe Sacco <epesuig@debian.org>, 2004, 2005, 2006.
# Stefano Canepa <sc@linux.it>, 2006, 2007 (just to help Giuseppe)
# Milo Casagrande <milo@ubuntu.com>, 2009.

# Georgian translation of tasksel_tasks from Debian Installer, Level 2
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# Aiet Kolkhi <aietkolkhi@gmail.com>, 2008.
#
# translation of tasksel_tasks_kn.po to Kannada
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# Swatantra Kannada Localisation Initiative
# Vikram Vincent <vincentvikram@gmail.com>, 2007, 2012.
# Translators
# Prabodh C P <prabodh@fsmk.org>, 2012.
# Credits
# Translations by Free Software Movement Karnataka(FSMK), 2012.
#
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr ಸ್ವತಃ ಮೆದುಸರಕಿನ ಆಯ್ಕೆ
# translation of tasksel_tasks.po to Lithuanian
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# Copyright (C) 2004, 2005 Free Software Foundation, Inc.
# Kęstutis Biliūnas <kebil@kaunas.init.lt>, 2004, 2005, 2006, 2007, 2009.
# Rimas Kudelis <rq@akl.lt>, 2012.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr rankinis paketų pasirinkimas
#~ msgid Manually select packages to install in aptitude.
# translation of lv.po to Latvian
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#
# Aigars Mahinovs <aigarius@debian.org>, 2006.
# Rūdolfs Mazurs <rudolfs.mazurs@gmail.com>, 2012.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr manuāla paku izvēle
# translation of mg.po to Malagasy
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# Jaonary Rabarisoa <mpandikateny@linuxmg.org>, 2005.
#
# Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr safidy an-tanana ny fonosana
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Safidy an-tanana ireo fonosana hapetraka miaraka amin'ny aptitude.
# Tasksel tasks (set of packages for a particular job) translation to malayalam
# Copyright (C) 2006 tasksel'S COPYRIGHT HOLDER
# Praveen[പ്രവീൺ A|എ] <pravi.a@gmail.com>, 2007, 2008.
#
# Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr തന്നത്താനുള്ള പാക്കേജ് തെരഞ്ഞെടുക്കൽ
#~ msgid Manually select packages to install in aptitude.
#~ msgstr ഇൻസ്റ്റോൾ ചെയ്യേണ്ട പാക്കേജുകളെ ആപ്റ്റിറ്റ്യൂഡിൽ തന്നത്താൻ തിരഞ്ഞെടുക്കുക.
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# FIRST AUTHOR <nyogi2004@gmail.com>,2007.
#
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr पैकेजची अस्वयंचलीत निवड
#~ msgid Manually select packages to install in aptitude.
#~ msgstr एप्टिट्यूड मध्ये संस्थापित करण्यासाठी पैकेजेसची निवड करा.
# translation of tasksel tasks.po to Norwegian Bokmål
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#
# Håvard Korsvoll <korsvoll@stud.ntnu.no>, 2004.
# Håvard Korsvoll <korsvoll@skulelinux.no>, 2004.
# Axel Bojer <axelb@skolelinux.no>, 2004.
# Knut Yrvin <knut@skolelinux.no>, 2004.
# Klaus Ade Johnstad <klaus.johnstad@holmlia.gs.oslo.no>, 2004.
# Bjørn Steensrud <bjornst@powertech.no>, 2005, 2006.
# Hans Fredrik Nordhaug <hans@nordhaug.priv.no>, 2007, 2010.
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
# translation of tasksel_2.81_nl.po to Dutch
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#
# Frans Pop <elendil@planet.nl>, 2010.
# Description

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#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
# translation of nn.po to Norwegian nynorsk
# translation of tasksel_tasks.po to
# translation of tasksel_tasks.po to
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#
# Håvard Korsvoll <korsvoll@stud.ntnu.no>, 2004.
# Håvard Korsvoll <korsvoll@skulelinux.no>, 2004, 2006.
# Axel Bojer <axelb@skulelinux.no>, 2004.
# Håvard Korsvoll <korsvoll@gmail.com>, 2006, 2007.
#. Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
#. Description
#: ../po/debian-tasks.desc:10001
# translation of pa.po to Punjabi
# Translation of ISO-3166 (country names) to Panjabi
#
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#
# Amanpreet Singh Alam[ਅਮਨਪ੍ਰੀਤ] <amanpreetalam@yahoo.com>, 2005.
# A S Alam <apbrar@gmail.com>, 2006.
# A S Alam <aalam@users.sf.net>, 2007.
#. Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
#. Description
#: ../po/debian-tasks.desc:10001
# Polish translation of tasksel tasks.
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#
# Bartosz Fenski aka fEnIo <fenio@debian.org>, 2004-2008.
# Michał Kulach <michal.kulach@gmail.com>, 2012.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr ręczny wybór pakietów
# tasksel Portuguese translation
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# Miguel Figueiredo <elmig@debianpt.org>, 2004-2009.
#
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr selecção manual de pacotes
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Escolher manualmente os pacotes a instalar no aptitude.

```

```

# Tasksel's tasklist Brazilian Portuguese translation.
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# Andr 頌 u□opes <andrelop@debian.org>, 2004.
# Andr 頌 u□opes <andrelop@debian.org>, 2005.
# Felipe Augusto van de Wiel <faw@debian.org>, 2007-2008.
# Adriano Rafael Gomes <adrianorg@arg.eti.br>, 2010-2015.
#
#. Description
#: ../po/debian-tasks.desc:10001
#| msgid standard system
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr sele 礪 manual de pacotes
# translation of ro.po to Romanian
# Romanian translation
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#
# Eddy Petriřor <eddy.petrisor@gmail.com>, 2004, 2005, 2006, 2007.
# Eddy Petrisor <eddy.petrisor@gmail.com>, 2006.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr selecție manuală a pachetelor
# translation of ru.po to Russian
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#
# Eugene Konev <ejka@imfi.kspu.ru>, 2004.
# Nikolai Prokoschenko <nikolai@prokoschenko.de>, 2004.
# Yuri Kozlov <kozlov.y@gmail.com>, 2005, 2006, 2007, 2008.
# Yuri Kozlov <yuray@komyakino.ru>, 2009.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
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#
# Danishka Navin <danishka@gmail.com>, 2011.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr ක්‍රමික ඇකේෂ තෝරාගැනීම
#~ msgid Manually select packages to install in aptitude.
#~ msgstr යෝග්‍යතාවේදී ස්ථාපනය කරන ඇකේෂ ශ්‍රමිකව තෝරන්න.
# translation of sl.po to Slovenian
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# Matej Kovacic <matej.kovacic@owca.info>, 2006.
# Jure Cuhalev <gandalf@owca.info>, 2006.
#
#. Description
#: ../po/debian-tasks.desc:10001

```

```

# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr ročna izbira paketov
# Albanian translation of tasksel_tasks.
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# Elian Myftiu <elian.myftiu@gmail.com>, 2006.
# Nafie Shehu <nafie.shehu@gmail.com>, 2017.
#
#
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr zgjedhje paketash manuale
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Zgjedh manualisht paketat për instalimin në aptitude.
# Serbian/Cyrillic messages for tasksel.
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# Janos Guljas <janos@janos.in.rs>, 2010.
# Karolina Kalic <karolina@janos.in.rs>, 2010.
#
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr ручно бирање пакета
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Ручно бира пакете за инсталацију са aptitude-ом.
# Serbian/Latin messages for tasksel.
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# Janos Guljas <janos@janos.in.rs>, 2010.
# Karolina Kalic <karolina@janos.in.rs>, 2010.
#
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr ručno biranje paketa
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Ručno bira pakete za instalaciju sa aptitude-om.
# Swedish translation of tasksel tasks.
# Copyright (C) 2004, 2006 Free Software Foundation, Inc.
# This file is distributed under the same license as the tasksel package.
# Martin Bagge <brother@bsnet.se>, 2011.
# Daniel Nylander <po@danielnylander.se>, 2006.
# André Dahlqvist <andre.dahlqvist@telia.com>, 2004.
#
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr manuella paketval

```



```

# translation of ta.po to Tamil
# package name tasksel_tasks_po
# Tamil messages for debian-installer.
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#
#
# Senthil Kumar B <senthilb@cdac.in> ,2006.
# Senthil Kumar B ,senthilb@cdac.in> ,2007.
# Dr.T.Vasudevan <agnihot3@gmail.com>, 2007, 2008.
# Dr.T.Vasudevan <agnihot3@gmail.com>, 2010.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
# translation of debian-tasks.pot to Telugu
# Copyright (C) 2008, Y Giridhar Appaji Nag <giridhar@appaji.net>
# This file is distributed under the same license as the PACKAGE package.
#
# Y Giridhar Appaji Nag <giridhar@appaji.net>, 2008.
#. Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr మోటుగా (manual) ప్యాకేజీల ఎంపిక
#~ msgid Manually select packages to install in aptitude.
#~ msgstr అప్టిట్యూడ్ (అప్టిట్యూడ్) ద్వారా ప్రతిష్టాపించుటకు మోటుగా (manually) ప్యాకేజీల ఎంచుకోండి.
#. SOME DESCRIPTIVE TITLE.
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# Victor Ibragimov <victor.ibragimov@gmail.com>, 2018.
#
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
# Thai translation of tasksel.
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# Theppitak Karoonboonyanan <thep@linux.thai.net>, 2006-2008.
#
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr เลือกแพคเกจเอง
#~ msgid Manually select packages to install in aptitude.
#~ msgstr เลือกแพคเกจที่จะติดตั้งเองด้วย aptitude
#~ msgid SQL database
# Tagalog messages for tasksel
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# Itong talaksan ay ipinapamahagi sa parehong lisensya ng tasksel
# Eric Pareja <xenos@upm.edu.ph>, 2004
# This file is maintained by Eric Pareja <xenos@upm.edu.ph>
# Itong talaksan ay inaalagaan ni Eric Pareja <xenos@upm.edu.ph>
#

```

```

# Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr mano-manong pagpili ng mga pakete
#~ msgid Manually select packages to install in aptitude.
# Turkish translation of tasksel/tasks.
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# Çağatay Tengiz <cagatay@tengiz.net>, 2004.
#
# Recai Oktaş <roktas@omu.edu.tr>, 2005, 200, 2009.
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr elle paket seçimi
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Aptitude programıyla kurulacak paketleri elle seçin.
# Uyghur translation for tasksel_tasks.
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# Sahran <sahran.ug@gmail.com>, 2010.
#
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid SQL database
#~ msgstr SQL ساندان
#~ msgid
#~ This task selects client and server packages for the PostgreSQL database.
#~ msgstr سانداننىڭ خېرىدار ۋە مۇلازىمەتلىرىنى تاللايدۇ PostgreSQL بۇ ۋەزىپە
# translation of uk-exim-installer.po to Українська мова
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#
# Eugeniy Meshcheryakov <eugen@debian.org>, 2004, 2005, 2006.
# Yanovych Borys <borman@pravex.kiev.ua>, 2006.
# Borys Yanovych <borys@yanovy.ch>, 2010.
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
# Translation of tasksel tasks to Vietnamese
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# Phan Vinh Thinh <teppei@vnoss.org>, 2005.
# Clytie Siddall <clytie@riverland.net.au>, 2005-2008.
#
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr tự chọn gói

```

```

#~ msgid Manually select packages to install in aptitude.
# translation of wo.po to Wolof
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#
# Mouhamadou Mamoune Mbacke <mouhamadoumamoune@gmail.com>, 2006.
#. Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr Tann paket yi ak loxo
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Tann ak sa loxo paket yi ngay istale ak aptitude.
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#
# Copyright:
# Carlos Z.F. Liu <carlosliu@users.sourceforge.net>, 2004,2005,2006.
# Ming Hua <minghua-guest@users.aliases.debian.org>, 2005,2006,2007,2008.
#
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr 手动软件包选择
#~ msgid Manually select packages to install in aptitude.
#~ msgstr 在 aptitude 中手动选择要安装的软件包。
#!/usr/bin/perl
# Debian task selector, mark II.
# Copyright 2004-2011 by Joey Hess <joe@debian.org>.
# Licensed under the GPL, version 2 or higher.
# Run a shell command except in test mode, and returns its exit code.
# Prints the command in test mode. Parameters should be pre-split for
# system.

```

[Exhibit_812]

```

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# Ossama M. Khayat <okhayat@yahoo.com>, 2005.
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# Mahay Alam Khan (মাহে আলম) <mak110n@yahoo.com>, 2006.
# Israt Jahan <israt@ankur.org.bd>, 2010.
#
# Catalan messages for Debian's tasksel.
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Jordi Mallach <jordi@debian.org>, 2001, 2003, 2004, 2006.
 #
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 # Copyright (C) 2000 Software in the Public Interest, Inc.
 # Petr Cech <cech@debian.org>, 2000.
 # Miroslav Kure <kurem@debian.cz>, 2004-2005.
 #
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 # Dafydd Harries <daf@muse.19inch.net>, 2004.
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 # translation of tasksel.po to Danish
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 # Claus Hindsgaul <claus_h@image.dk>, 2002-2003, 2004, 2005.
 # Morten Brix Pedersen <morten@wtf.dk>, 2001.
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 # Translation file for tasksel to German.
 # Copyright (C) 2000, 2003, 2004 Free Software Foundation, Inc.
 # Othmar Pasteka <pasteka@kabsi.at>, 2000, 2003.
 # Rene Engelhard <rene@debian.org>, 2004.
 # Dennis Stampfer <seppy@debian.org>, 2004.
 #
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 # George Papamichelakis <george@step.gr>, 2004.
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 #
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 # Enrique Zanardi <ezanard@debian.org>, 2000.
 # Javier Fernandez-Sanguino <jfs@debian.org>, 2003
 #
 # translation of eu.po to librezale
 # Inaki Larranaga Murgoitio, <dooteo@euskalgnu.org>, 2005.
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 # Arash Bijanzadeh <a.bijanzadeh@linuxiran.org>, 2004.
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 # Finnish translation for newtasksel/po/fi.po
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 # Tommi Vainikainen <thv+debian@iki.fi>, 2003.
 # Tapio Lehtonen <tale@debian.org>, 2004-2006.
 #
 # translation of fr.po to French
 # Translation file for tasksel to French.

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 # Nicolas Sabouret <nico@limsi.fr>, 2001.
 # Christian Perrier <bubulle@debian.org>, 2004, 2005.
 #
 # translation of gl.po to Galician
 # Galician translation of Debian's tasksel.
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 #
 # H 飴 or Fern ez L  <trorr@yahoo.es>, 2004.
 # Jacobo Tarr jtarrio@debian.org>, 2001, 2005.
 # Jorge Barreiro <yortx.barry@gmail.com>, 2012.
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 # English translation of newtasksel.
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 #
 # <>, 2004.
 # Lior Kaplan <kaplan@debian.org>, 2006.
 # Hungarian Debian team translation of tasksel.
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 # Risko Gergely <risko@njszki.hu>, 2003.
 # Verok Istvan <vi@fsf.hu>, 2004.
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 # Vardan Gevorgyan <vgevorgyan@debian.am>, 2008.
 #
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 # Riccardo Fabris <frick@linux.it>, 2002-2004.
 # Giuseppe Sacco <epesuig@debian.org>, 2004-2005.
 # Milo Casagrande <milo@ubuntu.com>, 2009.
 # Japanese translation for tasksel.
 # Copyright (C) 2000 Free Software Foundation, Inc.
 # Keita Maehara <maehara@debian.org>, 2000.
 # Tomohiro KUBOTA <kubota@debian.org>, 2004.
 #
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 # Copyright (C) 2004, 2005 Free Software Foundation, Inc.
 # Kęstutis Biliūnas <kebil@kaunas.init.lt>, 2004, 2005.
 # Rimas Kudelis <rq@akl.lt>, 2012.
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 # H vard Korsvoll <korsvoll@stud.ntnu.no>, 2004.
 # H vard Korsvoll <korsvoll@skulelinux.no>, 2004.
 # Axel Bojer <axelb@skolelinux.no>, 2004.
 # Knut Yrvin <knuty@skolelinux.no>, 2004.
 # Klaus Ade Johnstad <klaus.johnstad@holmlia.gs.oslo.no>, 2004.
 # Bj rn Steensrud <bjornst@powertech.no>, 2006.
 #
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#
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# Marcin Owsiany <porridge@debian.org>, 2000, 2001.
# Bartosz Fenski aka fEnIo <fenio@debian.org>, 2004, 2005
# Taskel Portuguese Translation for the Debian Installer
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# Miguel Figueiredo <elmig@debianPT.org>, 2004.
#
# 2005-06-14 - Miguel Figueiredo <elmig@debianpt.org> - 1f
# 2005-12-13 - Miguel Figueiredo <elmig@debianpt.org> - 1f
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# Eddy Petrișor <eddy.petrisor@gmail.com>, 2004, 2005.
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# Copyright (C) 2000, 2004, 2005 Free Software Foundation, Inc.
# Peter Novodvorsky <petya@logic.ru>, 2000.
# Nikolai Prokoschenko <nikolai@prokoschenko.de>, 2004.
# Yuriy Talakan' <yt@amur.elektra.ru>, 2004.
# Yuri Kozlov <kozlov.y@gmail.com>, 2005.
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# Matjaz Horvat <matjaz@owca.info>, 2004.
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# Elian Myftiu <elian@lycos.com>, 2004.
# , fuzzy
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# Daniel Nylander <po@danielnylander.se>, 2006.
# peter karlsson <peter@softwolves.pp.se>, 2000.
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# Phan Vinh Thinh <teppi@vnoss.org>, 2005.
# Clytie Siddall <clytie@riverland.net.au>, 2006.
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# Abdulaziz Al-Arfaj <alarfaj0@yahoo.com>, 2004.
# Ossama M. Khayat <okhayat@yahoo.com>, 2005, 2006, 2007, 2008, 2010.

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# Progga <progga@BengaLinux.Org>, 2005, 2006.
# Khandakar Mujahidul Islam <suzan@bengalinux.org>, 2006.
# Mahay Alam Khan (মাহে আলম খান) <makl10n@yahoo.com>, 2006.
# Md. Rezwan Shahid <rezwan@ankur.org.bd>, 2009.
# Loba Yeasmeen <loba@ankur.org.bd>, 2010.
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# Dafydd Harries <daf@muse.19inch.net>, 2004.
#
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# Claus Hindsgaul <claus_h@image.dk>, 2003, 2004, 2005, 2006.
# Claus Hindsgaul <claus.hindsgaul@gmail.com>, 2006, 2007.
# Joe Hansen <jloedalton2@yahoo.dk>, 2010.
#
# German translation.
# This file is distributed under the same license as the tasksel package.
# First author unknown.
# Rene Engelhard <rene@debian.org>, 2004.
# Dennis Stampfer <seppy@debian.org>, 2004.
# Jens Seidel <jensseidel@users.sf.net>, 2005, 2006, 2008.
# Holger Wansing <linux@wansing-online.de>, 2010.

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# Konstantinos Margaritis <markos@debian.org>, 2004.
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# Greek Translation Team <debian-l10n-greek@lists.debian.org>, 2005.
# Antonis Antoniadis <cereal.killer.rules@gmail.com>, 2006, 2010.
# Emmanuel Galatoulas <galaxico@quad-nrg.net>, 2010.

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# Felipe Castro <fefcas@gmail.com>, 2009.
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# Tapio Lehtonen <tale@debian.org>, 2004, 2006, 2010.
# Raija Polojärvi <raijapolojarvi@gmail.com>, 2006.
# Finnish language names checked from:
# http://www.kotoistus.fi/suosituksset/vahv\_kielten-nimet-suomeksi\_cldr1\_4.pdf
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# Héctor Fernández López <trorrr@yahoo.es>, 2004.
# Jacobo Tarrío <jtarrio@debian.org>, 2005, 2006, 2007, 2008.
# Jorge Barreiro <yortx.barry@gmail.com>, 2010, 2012.

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# Kartik Mistry <kartik.mistry@gmail.com>, 2006.
#
# Copyright (C) 2004 THE tasksel-tasks'S COPYRIGHT HOLDER
# This file is distributed under the same license as the tasksel-tasks package.
# Lior Kaplan <kaplan@debian.org>, 2006, 2007, 2008, 2010.

# translation of tasksel_tasks_is.po to Icelandic
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#
# Copyright (C) 2004 Randolph Chung
# Copyright (C) 2009 the Free Software Foundation, Inc.
# This file is distributed under the same license as the tasksel package.
# Giuseppe Sacco <epesuig@debian.org>, 2004, 2005, 2006.
# Stefano Canepa <sc@linux.it>, 2006, 2007 (just to help Giuseppe)
# Milo Casagrande <milo@ubuntu.com>, 2009.

```

```

# Georgian translation of tasksel_tasks from Debian Installer, Level 2
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# This file is distributed under the same license as the PACKAGE package.
# Aiet Kolkhi <aietkolkhi@gmail.com>, 2008.
#
# translation of tasksel_tasks_kn.po to Kannada
# Copyright (C) 2007 THE tasksel_tasks_kn'S COPYRIGHT HOLDER
# This file is distributed under the same license as the tasksel_tasks_kn package.
# Swatantra Kannada Localisation Initiative
# Vikram Vincent <vincentvikram@gmail.com>, 2007, 2012.
# Translators
# Prabodh C P <prabodh@fsmk.org>, 2012.
# Credits
# Translations by Free Software Movement Karnataka(FSMK), 2012.
#
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr ಸ್ವತಃ ಮೆದುಸರಕಿನ ಆಯ್ಕೆ
# translation of tasksel_tasks.po to Lithuanian
# This file is distributed under the same license as the tasksel package.
# Copyright (C) 2004, 2005 Free Software Foundation, Inc.
# Kęstutis Biliūnas <kebil@kaunas.init.lt>, 2004, 2005, 2006, 2007, 2009.
# Rimas Kudelis <rq@akl.lt>, 2012.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr rankinis paketų pasirinkimas
#~ msgid Manually select packages to install in aptitude.
# translation of lv.po to Latvian
# Copyright (C) YEAR THE PACKAGE'S COPYRIGHT HOLDER
# This file is distributed under the same license as the PACKAGE package.
#
# Aigars Mahinovs <aigarius@debian.org>, 2006.
# Rūdolfs Mazurs <rudolfs.mazurs@gmail.com>, 2012.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr manuāla paku izvēle
# translation of mg.po to Malagasy
# This file is distributed under the same license as the PACKAGE package.
# Copyright (C) YEAR THE PACKAGE'S COPYRIGHT HOLDER.
# Jaonary Rabarisoa <mpandikateny@linuxmg.org>, 2005.
#
#. Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr safidy an-tanana ny fonosana
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Safidy an-tanana ireo fonosana hapetraka miaraka amin'ny aptitude.

```

```

# Tasksel tasks (set of packages for a particular job) translation to malayalam
# Copyright (C) 2006 tasksel'S COPYRIGHT HOLDER
# Praveen[പ്രവീൺ A|എ] <pravi.a@gmail.com>, 2007, 2008.
#
#. Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr തന്നത്താനുള്ള പാക്കേജ് തെരഞ്ഞെടുക്കൽ
#~ msgid Manually select packages to install in aptitude.
#~ msgstr ഇൻസ്റ്റോൾ ചെയ്യേണ്ട പാക്കേജുകളെ ആപ്റ്റിറ്റ്യൂഡിൽ തന്നത്താൻ തിരഞ്ഞെടുക്കുക.
# SOME DESCRIPTIVE TITLE.
# Copyright (C) YEAR THE PACKAGE'S COPYRIGHT HOLDER
# This file is distributed under the same license as the PACKAGE package.
# FIRST AUTHOR <nyogi2004@gmail.com>,2007.
#
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr പേജ്‌വീ അസ്വയ്‌ചലീത നിറുട
#~ msgid Manually select packages to install in aptitude.
#~ msgstr ഏറ്റിയൂട മധ്യെ സംസ്ഥാപിത കരണ്യസാതീ പേജ്‌സചീ നിറുട കരാ.
# translation of tasksel tasks.po to Norwegian Bokmål
# This file is distributed under the same license as the tasksel_tasks package.
#
# Håvard Korsvoll <korsvoll@stud.ntnu.no>, 2004.
# Håvard Korsvoll <korsvoll@skulelinux.no>, 2004.
# Axel Bojer <axelb@skolelinux.no>, 2004.
# Knut Yrvin <knut@skolelinux.no>, 2004.
# Klaus Ade Johnstad <klaus.johnstad@holmlia.gs.oslo.no>, 2004.
# Bjørn Steensrud <bjornst@powertech.no>, 2005, 2006.
# Hans Fredrik Nordhaug <hans@nordhaug.priv.no>, 2007, 2010.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
# translation of tasksel_2.81_nl.po to Dutch
# Copyright (C) YEAR THE PACKAGE'S COPYRIGHT HOLDER
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#
# Frans Pop <elendil@planet.nl>, 2010.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
# translation of nn.po to Norwegian nynorsk
# translation of tasksel_tasks.po to
# translation of tasksel_tasks.po to
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#
# Håvard Korsvoll <korsvoll@stud.ntnu.no>, 2004.
# Håvard Korsvoll <korsvoll@skulelinux.no>, 2004, 2006.
# Axel Bojer <axelb@skolelinux.no>, 2004.

```

```

# Håvard Korsvoll <korsvoll@gmail.com>, 2006, 2007.
#. Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
#. Description
#: ../po/debian-tasks.desc:10001
# translation of pa.po to Punjabi
# Translation of ISO-3166 (country names) to Panjabi
#
# This file is distributed under the same license as the iso-codes package.
#
# Copyright (C)
#
# Amanpreet Singh Alam[ਅਮਨਪ੍ਰੀਤ] <amanpreetalam@yahoo.com>, 2005.
# A S Alam <apbrar@gmail.com>, 2006.
# A S Alam <aalam@users.sf.net>, 2007.
#. Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
#. Description
#: ../po/debian-tasks.desc:10001
# Polish translation of tasksel tasks.
# Copyright (C) 2004-2012
# This file is distributed under the same license as the tasksel package.
#
# Bartosz Fenski aka fEnIo <fenio@debian.org>, 2004-2008.
# Michał Kulach <michal.kulach@gmail.com>, 2012.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr ręczny wybór pakietów
# tasksel Portuguese translation
# Copyright (C) 2004 Miguel Figueiredo
# This file is distributed under the same license as the tasksel package.
# Miguel Figueiredo <elmig@debianpt.org>, 2004-2009.
#
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr selecção manual de pacotes
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Escolher manualmente os pacotes a instalar no aptitude.
# Tasksel's tasklist Brazilian Portuguese translation.
# Copyright (C) 2004, Andr 頌 u□opes
# This file is distributed under the same license as the tasksel package.
# Andr 頌 u□opes <andrelop@debian.org>, 2004.
# Andr 頌 u□opes <andrelop@debian.org>, 2005.
# Felipe Augusto van de Wiel <faw@debian.org>, 2007-2008.
# Adriano Rafael Gomes <adrianorg@arg.eti.br>, 2010-2015.
#
#. Description
#: ../po/debian-tasks.desc:10001
#| msgid standard system
#. Description

```

```

#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr sele 礪 manual de pacotes
# translation of ro.po to Romanian
# Romanian translation
# This file is distributed under the same license as the tasksel package.
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#
# Eddy Petrișor <eddy.petrisor@gmail.com>, 2004, 2005, 2006, 2007.
# Eddy Petrisor <eddy.petrisor@gmail.com>, 2006.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr selecție manuală a pachetelor
# translation of ru.po to Russian
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#
# Eugene Konev <ejka@imfi.kspu.ru>, 2004.
# Nikolai Prokoschenko <nikolai@prokoschenko.de>, 2004.
# Yuri Kozlov <kozlov.y@gmail.com>, 2005, 2006, 2007, 2008.
# Yuri Kozlov <yuray@komyakino.ru>, 2009.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
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#
# Danishka Navin <danishka@gmail.com>, 2011.
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr කුමක පැකේජ තෝරාගැනීම
#~ msgid Manually select packages to install in aptitude.
#~ msgstr යෝග්‍යතාවේදී ස්ථාපනය කරන පැකේජ ශ්‍රමිකව තෝරන්න.
# translation of sl.po to Slovenian
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# Copyright (C) YEAR THE PACKAGE'S COPYRIGHT HOLDER.
# Matej Kovacic <matej.kovacic@owca.info>, 2006.
# Jure Cuhalev <gandalf@owca.info>, 2006.
#
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr ročna izbira paketov
# Albanian translation of tasksel_tasks.
# Copyright (C) 2004 THE tasksel_tasks'S COPYRIGHT HOLDER
# This file is distributed under the same license as the tasksel_tasks package.
# Elian Myftiu <elian.myftiu@gmail.com>, 2006.
# Nafie Shehu <nafie.shehu@gmail.com>, 2017.
#
#. Description

```

```

#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr zgjedhje paketash manuale
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Zgjedh manualisht paketat për instalimin në aptitude.
# Serbian/Cyrillic messages for tasksel.
# Copyright (C) 2010 Software in the Public Interest, Inc.
# This file is distributed under the same license as the tasksel package.
# Janos Guljas <janos@janos.in.rs>, 2010.
# Karolina Kalic <karolina@janos.in.rs>, 2010.
#
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr ручно бирање пакета
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Ручно бира пакете за инсталацију са aptitude-ом.
# Serbian/Latin messages for tasksel.
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# Janos Guljas <janos@janos.in.rs>, 2010.
# Karolina Kalic <karolina@janos.in.rs>, 2010.
#
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr ručno biranje paketa
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Ručno bira pakete za instalaciju sa aptitude-om.
# Swedish translation of tasksel tasks.
# Copyright (C) 2004, 2006 Free Software Foundation, Inc.
# This file is distributed under the same license as the tasksel package.
# Martin Bagge <brother@bsnet.se>, 2011.
# Daniel Nylander <po@danielnylander.se>, 2006.
# André Dahlqvist <andre.dahlqvist@telia.com>, 2004.
#
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr manuella paketval
# translation of ta.po to Tamil
# package name tasksel_tasks_po
# Tamil messages for debian-installer.
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#
#
# Senthil Kumar B <senthilb@cdac.in>, 2006.
# Senthil Kumar B ,senthilb@cdac.in>, 2007.
# Dr.T.Vasudevan <agnihot3@gmail.com>, 2007, 2008.
# Dr.T.Vasudevan <agnihot3@gmail.com>, 2010.
#. Description
#: ../po/debian-tasks.desc:10001

```

```

# Description
#: ../po/debian-tasks.desc:10001
# translation of debian-tasks.pot to Telugu
# Copyright (C) 2008, Y Giridhar Appaji Nag <giridhar@appaji.net>
# This file is distributed under the same license as the PACKAGE package.
#
# Y Giridhar Appaji Nag <giridhar@appaji.net>, 2008.
# Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr మోటుగా (manual) ప్యాకేజీల ఎంపిక
#~ msgid Manually select packages to install in aptitude.
#~ msgstr aptitude (అప్టిట్యూడ్) ద్వారా ప్రతిష్టాపించుటకు మోటుగా (manually) ప్యాకేజీల ఎంచుకోండి.
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# Victor Ibragimov <victor.ibragimov@gmail.com>, 2018.
#
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
# Thai translation of tasksel.
# Copyright (C) 2006-2008 Software in the Public Interest, Inc.
# This file is distributed under the same license as the tasksel package.
# Theppitak Karoonboonyanan <thep@linux.thai.net>, 2006-2008.
#
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr เลือกรแพกเกจเอง
#~ msgid Manually select packages to install in aptitude.
#~ msgstr เลือกรแพกเกจที่จะติดตั้งเองด้วย aptitude
#~ msgid SQL database
# Tagalog messages for tasksel
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# This file is distributed under the same license as tasksel
# Itong talaksan ay ipinapamahagi sa parehong lisensya ng tasksel
# Eric Pareja <xenos@upm.edu.ph>, 2004
# This file is maintained by Eric Pareja <xenos@upm.edu.ph>
# Itong talaksan ay inaalagaan ni Eric Pareja <xenos@upm.edu.ph>
#
# Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr mano-manong pagpili ng mga pakete
#~ msgid Manually select packages to install in aptitude.
# Turkish translation of tasksel/tasks.
# This file is distributed under the same license as the tasksel package.
# Çağatay Tengiz <cagatay@tengiz.net>, 2004.

```

```

#
# Recai Oktaş <roktas@omu.edu.tr>, 2005, 200, 2009.
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr elle paket seçimi
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Aptitude programıyla kurulacak paketleri elle seçin.
# Uyghur translation for tasksel_tasks.
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# Sahran <sahran.ug@gmail.com>, 2010.
#
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid SQL database
#~ msgstr SQL ساندان
#~ msgid
#~ This task selects client and server packages for the PostgreSQL database.
#~ msgstr سانداننىڭ خېرىدار ۋە مۇلازىمەتلىرىنى تاللايدۇ PostgreSQL بۇ ۋەزىپە
# translation of uk-exim-installer.po to Українська мова
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#
# Eugeniy Meshcheryakov <eugen@debian.org>, 2004, 2005, 2006.
# Yanovych Borys <borman@pravex.kiev.ua>, 2006.
# Borys Yanovych <borys@yanovy.ch>, 2010.
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
# Translation of tasksel tasks to Vietnamese
# Copyright © 2008 Free Software Foundation, Inc.
# This file is distributed under the same license as the tasksel_tasks package.
# Phan Vinh Thinh <teppei@vnoss.org>, 2005.
# Clytie Siddall <clytie@riverland.net.au>, 2005-2008.
#
# Description
#: ../po/debian-tasks.desc:10001
# Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr tۈر چۈن گۈي
#~ msgid Manually select packages to install in aptitude.
# translation of wo.po to Wolof
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#
# Mouhamadou Mamoune Mbacke <mouhamadoumamoune@gmail.com>, 2006.
# Description
#: ../po/debian-tasks.desc:10001
#, fuzzy
#| msgid standard system
# Description
#: ../po/debian-tasks.desc:10001

```



```

#~ msgid manual package selection
#~ msgstr Tann paket yi ak loxo
#~ msgid Manually select packages to install in aptitude.
#~ msgstr Tann ak sa loxo paket yi ngay istale ak aptitude.
# Simplified Chinese translation for tasksel tasks.
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#
# Copyright:
# Carlos Z.F. Liu <carlosliu@users.sourceforge.net>, 2004,2005,2006.
# Ming Hua <minghua-guest@users.alioth.debian.org>, 2005,2006,2007,2008.
#
#. Description
#: ../po/debian-tasks.desc:10001
#. Description
#: ../po/debian-tasks.desc:10001
#~ msgid manual package selection
#~ msgstr 手动软件包选择
#~ msgid Manually select packages to install in aptitude.
#~ msgstr 在 aptitude 中手动选择要安装的软件包。
#!/usr/bin/perl
# Debian task selector, mark II.
# Copyright 2004-2011 by Joey Hess <joe@debian.org>.
# Licensed under the GPL, version 2 or higher.
# Run a shell command except in test mode, and returns its exit code.
# Prints the command in test mode. Parameters should be pre-split for
# system.

```

[Exhibit_813]

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One or two things that technically ought to be in here are actually in
color.c, thanks to some incestuous relationships in the color chains.

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#
# This script will read either ASN.1-style MIB files or the .defs files
# created by the ISODE mosy program on such files.
#
# The output of this script is the mib.h file used by tcpdumps' ASN.1/SNMP
# decoding code.
#
# This script needs to be run by gawk (GNU awk).  nawk will work, but
# dump will get a recursion error if you process LARGE mibs.  While it would
# be fairly easy to rewrite this not to use recursion (and also easy to
```

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Modified to:

- print version, type string and packet length
- print IP address count if > 1 (-v)
- verify checksum (-v)
- print authentication string (-v)

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Support for USB packets

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Jiahui Xie has re-reformatted and expanded the original script in accordance to the requirements of the PEP 8 style guide and 'systemd' project, respectively.

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# Petr Pářsa <petr.pisar@atlas.cz>, 2006.
# Vladimír Michl <vladimir.michl@seznam.cz>, 2007
# Petr Pářsa <petr.pisar@atlas.cz>, 2007, 2008, 2009, 2010, 2011, 2012, 2013.
# Petr Pářsa <petr.pisar@atlas.cz>, 2014, 2015, 2016, 2017, 2018.
#
# eject tool messages merged from eject-2.1.5:
# Jeff Tranter <tranter@pobox.com>, 2005.
# Marek Āernock½ <marek@manet.cz>, 2006.
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# Claus Hindsgaul <claus_h@image.dk>, 2001-2002, 2004, 2005.
# Joe Hansen <joadalton2@yahoo.dk>, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017.
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# Beth Powell <bpowell@turbolinux.com>, 2000.
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# Mikel Olasagasti Uranga <hey_neken@mundurat.net>, 2005, 2009, 2010.
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# Michel Robitaille <robitail@IRO.UMontreal.CA>, 1996-2006.
# Nicolas Provost <nprovost@quadriv.com>, 2008-2009.
# Milan Bouchet-Valat <nalimilan@club.fr>, 2010.
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# FIRST AUTHOR <EMAIL@ADDRESS>, 2010.
# Fran Dieguez <frandieguez@ubuntu.com>, 2010.
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# Gábor István <stive@mezobereny.hu>, 2002.
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# Marco Colombo <m.colombo@ed.ac.uk>, 2005, 2006, 2008.
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# Makoto Kato <makoto.kt@gmail.com>, 2009-2010.
# Takeshi Hamasaki <hmatrjp@users.sourceforge.jp>, 2011, 2013.
# victory <victory.deb@gmail.com>, 2013.
# Takeshi Hamasaki <hmatrjp@users.sourceforge.jp>, 2014, 2015, 2016, 2017, 2018.
#
# (Additional History)
# Once util-linux-ng was forked from util-linux,
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[illegible]


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# Daniel Nylander <po@danielnylander.se>, 2007.
# Sebastian Rasmussen <sebras@gmail.com>, 2016, 2017, 2018.
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# Alper Tekinalp <alper.tekinalp@gmail.com>, 2017.
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# Yuri Chornoivan <yurchor@ukr.net>, 2012, 2013, 2014, 2015, 2016, 2017, 2018.

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# Clytie Siddall <clytie@riverland.net.au>, 2007-2010.
# Tráo§n Ngáo»c QuÃoñ <vnwildman@gmail.com>, 2012-2014, 2015.
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# Wylmer Wang <wantinghard@gmail.com>, 2012, 2013, 2014, 2015, 2016.

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# Wei-Lun Chao <bluebat@member.fsf.org>, 2010.

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fsck --- A generic, parallelizing front-end for the fsck program.
It will automatically try to run fsck programs in parallel if the
devices are on separate spindles. It is based on the same ideas as
the generic front end for fsck by David Engel and Fred van Kempen,
but it has been completely rewritten from scratch to support
parallel execution.

Written by Theodore Ts'o, <tytso@mit.edu>

Miquel van Smoorenburg (miquels@drinkel.ow.org) 20-Oct-1994:
o Changed -t fstype to behave like with mount when -A (all file
systems) or -M (like mount) is specified.
o fsck looks if it can find the fsck.type program to decide
if it should ignore the fs type. This way more fsck programs
can be added without changing this front-end.
o -R flag skip root file system.

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mkfs.minix.c - make a linux (minix) file-system.

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mkswap.c - set up a linux swap device

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20.12.91 - time began. Got VM working yesterday by doing this by hand.

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partx: tell the kernel about your disk's partitions
[This is not an fdisk - adding and removing partitions
is not a change of the disk, but just telling the kernel
about presence and numbering of on-disk partitions.]

aeb, 2000-03-21 -- sah is 42 now

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Rewritten to use libblkid for util-linux
based on ideas from Karel Zak <kzak@redhat.com>

swaplabel.c - Print or change the label / UUID of a swap partition

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Usage: swaplabel [-L label] [-U UUID] device

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canonicalize.c -- canonicalize pathname by removing symlinks

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Terminology:

cpuset #NAME?
cpumask - string with hex mask (e.g. 0x00000001)
cpulist - string with CPU ranges (e.g. 0-3,5,7,8)

Based on code from taskset.c and Linux kernel.

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COPYRIGHT (C) 1986 Gary S. Brown. You may use this program, or
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 high-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 operations 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

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ismounted.c --- Check to see if the filesystem was mounted

Copyright (C) 1995,1996,1997,1998,1999,2000,2008 Theodore Ts'o.

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This is callback solution for systems without nl_langinfo(), this function returns hardcoded and on locale setting independent value.

See langinfo.h man page for more details.

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Written by Karel Zak <kzak@redhat.com>

-- based on mount/losetup.c

Simple library for work with loop devices.

- requires kernel 2.6.x

- reads info from /sys/block/loop<N>/loop/<attr> (new kernels)
- reads info by ioctl
- supports *unlimited* number of loop devices
- supports /dev/loop<N> as well as /dev/loop/<N>
- minimize overhead (fd, loopinfo, ... are shared for all operations)
- setup (associate device and backing file)
- delete (dis-associate file)
- old LOOP_{SET,GET}_STATUS (32bit) ioctls are unsupported
- extendible

Functions for %oct encoding used in mtab/fstab/swaps/etc.

Based on code from mount(8).

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LGPLV2(Many files exist)

Very simple multibyte buffer editor. Allows to maintain the current
position in the string, add and remove chars on the current position.

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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.

GPLV3('parse-date.c',)

Simple functions to access files. Paths can be globally prefixed to read data from an alternative source (e.g. a /proc dump for regression tests).

The paths is possible to format by printf-like way for functions with f postfix in the name (e.g. readf, openf, ... ul_path_readf_u64()).

The ul_path_read_* API is possible to use without path_cxt handler. In this case is not possible to use global prefix and printf-like formatting.

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Written by Karel Zak <kzak@redhat.com> [February 2018]

General purpose random utilities

Based on libuuid code.

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cache.c - allocation/initialization/free routines for cache

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config.c - blkid.conf routines

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dev.c - allocation/initialization/free routines for dev

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devname.c - get a dev by its device inode name

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devno.c - find a particular device by its device number (major/minor)

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encode.c - string conversion routines (mostly for compatibility with
udev/volume_id)

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evaluate.c - very high-level API to evaluate LABELs or UUIDs

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getsize.c --- get the size of a partition.

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llseek.c -- stub calling the llseek system call

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aix partitions

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atari partitions parsing code

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Based on Linux kernel implementation and atari-fdisk

BSD/OSF partition parsing code

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Inspired by fdisk, partx, Linux kernel, libparted and openbsd header files.

MS-DOS partition parsing code

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Inspired by fdisk, partx, Linux kernel and libparted.

EFI GPT partition parsing code

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This code is not copy & past from any other implementation.

For more information about GPT start your study at:
http://en.wikipedia.org/wiki/GUID_Partition_Table
[http://technet.microsoft.com/en-us/library/cc739412\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc739412(WS.10).aspx)

mac partitions parsing code

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Minix partition parsing code

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partitions - partition tables parsing

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sgi partition parsing code

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Solaris x86 partition parsing code

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sun (solaris-sparc) partition parsing code

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uktrix partition parsing code

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unixware partition parsing code

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The interesting information about unixware PT:

- Linux kernel / partx
- vtoc(7) SCO UNIX command man page
- evms source code (<http://evms.sourceforge.net/>)
- vxtools source code (<http://martin.hinner.info/fs/vxfs/>)

Low-level libblkid probing API

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read.c - read the blkid cache from disk, to avoid scanning all devices

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resolve.c - resolve names and tags into specific devices

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save.c - write the cache struct to disk

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Based on code fragments from bcache-tools by Kent Overstreet:
<http://evilpiepirate.org/git/bcache-tools.git>

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Partly based on the Haiku BFS driver by
Axel Dörfler <axeld@pinc-software.de>

Also inspired by the Linux BeFS driver by
Will Dyson <will_dyson@pobox.com>, et al.

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defines, structs taken from drbd source; file names represent drbd source files.

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DRBD is a blocklevel replication solution in the Linux kernel,
upstream since 2.6.33. (See <http://drbd.linbit.com/>)
DRBDmanage is a configuration frontend that assists in
creating/deleting/modifying DRBD resources across multiple machines
(a DRBDmanage cluster); this file detects its control volume,
which is replicated (via DRBD 9) on some of the nodes.

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uperblocks.c - reads information from filesystem and raid superblocks

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This is written from scratch according to Linux kernel fs/sysv/super.c file.
It seems that sysv probing code in libvolume_id and also in the original
blkid is useless.

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tag.c - allocation/initialization/free routines for tag structs

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device-mapper (dm) topology
-- this is fallback for old systems where the topology information is not
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ioctl based topology -- gathers topology information

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lvm topology
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Linux Software RAID (md) topology
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For more information see Linux kernel Documentation/ABI/testing/sysfs-block.

topology - gathers information about device topology

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version.c --- Return the version of the blkid library

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Libfdisk sample to create partitions by specify all required partition
properties (partno, start and size). The defaults is only partition type
(except MBR where 4th partition is extended).

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Libfdisk sample to create partitions by specify size, for example:

`mkpart --label dos --device /dev/sdc 2M 2M 2M 10M 1M -`

creates 6 partitions:

- 3 primary (3x 2M)
- 1 extended (1x 10M)
- 2 logical (1x 1M, 1x remaining-space-in-extended-partition)

Notes:

The sample specifies size and partno for MBR, and size only for another
labels (e.g. GPT).

The Ask-API does not use anything else than warning/info. The
partitioning has to be done non-interactive.

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Based on the original code from fdisk
written by Bernhard Fastenrath (fasten@informatik.uni-bonn.de)
with code from the NetBSD disklabel command.

Arnaldo Carvalho de Melo <acme@conectiva.com.br>, March 1999
David Huggins-Daines <dhuggins@linuxcare.com>, January 2000

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This is re-written version for libfdisk, the original was fdiskdoslabel.c
from util-linux fdisk.

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Copyright (C) 2012 Davidlohr Bueso <dave@gnu.org>

GUID Partition Table (GPT) support. Based on UEFI Specs 2.3.1
Chapter 5: GUID Partition Table (GPT) Disk Layout (Jun 27th, 2012).
Some ideas and inspiration from GNU parted and gptfdisk.

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This is a re-written version for libfdisk, the original was fdisksgilabel.c
from util-linux fdisk, by:

Andreas Neuper, Sep 1998,
Arnaldo Carvalho de Melo <acme@conectiva.com.br>, Mar 1999,
Phillip Kesling <pklesling@sgi.com>, Mar 2003.

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Based on original code from fdisk:
Jakub Jelinek (jj@sunsite.mff.cuni.cz), July 1996
Merged with fdisk for other architectures, aeb, June 1998.
Arnaldo Carvalho de Melo <acme@conectiva.com.br> Mar 1999, Internationalization

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Routines for TEST_PROGRAMS

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cell.c - functions for table handling at the cell level

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column.c - functions for table handling at the column level

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symbols.c - routines for symbol handling

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table.c - functions handling the data at the table level

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version.c - Return the version of the library

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clear.c -- Clear a UUID

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compare.c --- compare whether or not two UUIDs are the same

Returns 0 if the two UUIDs are different, and 1 if they are the same.

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copy.c --- copy UUIDs

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gen_uuid.c --- generate a DCE-compatible uuid

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isnull.c --- Check whether or not the UUID is null

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Internal routine for packing UUIDs

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parse.c --- UUID parsing

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predefined.c --- well-known UUIDs from the RFC-4122 namespace

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tst_uuid.c --- test program from the UUID library

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Internal routine for unpacking UUID

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unparse.c -- convert a UUID to string

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uuid_time.c --- Interpret the time field from a uuid. This program violates the UUID abstraction barrier by reaching into the guts of a UUID and interpreting it.

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auth.c -- PAM authorization code, common between chsh and chfn
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chfn and chsh shared functions

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\$Author: aebr \$
\$Revision: 1.18 \$
\$Date: 1998/06/11 22:30:11 \$

Updated Thu Oct 12 09:19:26 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Hacked by Peter Breitenlohner, peb@mppmu.mpg.de,
to remove trailing empty fields. Oct 5, 96.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

chsh.c -- change your login shell
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\$Revision: 1.19 \$
\$Date: 1998/06/11 22:30:14 \$

Updated Thu Oct 12 09:33:15 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dc.s.warwick.ac.uk>

Updated Mon Jul 1 18:46:22 1996 by janl@math.uio.no with security
suggestion from Zefram. Disallowing users with shells not in /etc/shells
from changing their shell.

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

libuser.c -- Utilize libuser to set a user attribute
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Michael Glad (glad@daimi.dk)
Computer Science Department, Aarhus University, Denmark
1990-07-04

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Updated Thu Oct 12 09:56:55 1995 by faith@cs.unc.edu with security
patches from Zefram <A.Main@dcs.warwick.ac.uk>

Updated Thu Nov 9 21:58:53 1995 by Martin Schulze
<joey@finlandia.infodrom.north.de>. Support for vigr.

Martin Schulze's patches adapted to Util-Linux by Nicolai Langfeldt.

blkid.c - User command-line interface for libblkid

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support
Sun Mar 21 1999 - Arnaldo Carvalho de Melo <acme@conectiva.com.br>
- fixed strerr(errno) in gettext calls

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SAP Technology Group

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The test heavily uses shared memory, to enlarge maximal size of shared segment use:

```
echo 4294967295 > /proc/sys/kernel/shmm
```

The test is compiled against in-tree libuuid, if you want to test uuid installed to the system then make sure that libuuid uses the same socket like the running uuid. You can start the uuid manually, for example:

```
uuid --debug --no-fork --no-pid --socket /run/uuid/request
```

if the \$runstatedir (as defined by build-system) is /run. If you want to overwrite the built-in default then use:

```
make uuid uuidgen runstatedir=/var/run
```

uuid.c --- UUID-generation daemon

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gen_uuid.c --- generate a DCE-compatible uuid

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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c

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1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>

- added Native Language Support

2011-08-12 Davidlohr Bueso <dave@gnu.org>

- added \$PATH lookup

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2013 Sami Kerola <kerolasa@iki.fi>

dmesg.c -- Print out the contents of the kernel ring buffer

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allocate - utility to use the fallocate system call

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Written by Eric Sandeen <sandeen@redhat.com>

Karel Zak <kzak@redhat.com>

cvtnum routine taken from xfsprogs,

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Originally from Ted's losetup.c

losetup.c - setup and control loop devices

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/dev/rfkill userspace tool

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zramctl - control compressed block devices in RAM

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Modified Fri Mar 10 20:27:19 1995, faith@cs.unc.edu, for Linux
Modified Mon Jul 1 18:14:10 1996, janl@ifi.uio.no, writing to stdout

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SUCH DAMAGE.

setterm.c, set terminal attributes.

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Adaption to Linux by Peter MacDonald.

Enhancements by Mika Liljeberg (liljeber@cs.Helsinki.FI)

Beep modifications by Christophe Jolif (cjolif@storm.gatelink.fr.net)

Sanity increases by Cafeine Addict [sic].

Powersave features by todd j. derr <tjd@wordsmith.org>

Converted to terminfo by Kars de Jong (jongk@cs.utwente.nl)

1999-02-22 Arkadiusz MiÅkiewicz <misiek@pld.ORG.PL>
- added Native Language Support

Semantics:

Setterm writes to standard output a character string that will invoke the specified terminal capabilities. Where possible terminfo is consulted to find the string to use. Some options however do not correspond to a terminfo capability. In this case if the terminal type is con*, or linux* the string that invokes the specified capabilities on the PC Linux virtual console driver is output. Options that are not implemented by the terminal are ignored.

The following options are non-obvious.

-term can be used to override the TERM environment variable.

-reset displays the terminal reset string, which typically resets the terminal to its power on state.

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Modified for Linux, Mon Mar 8 18:16:24 1993, faith@cs.unc.edu

Wed Jun 22 21:41:56 1994, faith@cs.unc.edu:

Added fix from Mike Grupenhoff (kashmir@umiacs.umd.edu)

Mon Jul 1 17:01:39 MET DST 1996, janl@math.uio.no:

This testing program makes sure the byteswap functions work

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test_sigreceive - wait for signal and exit with value of it

Written by Sami Kerola <kerolasa@iki.fi>

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test_tiocsti - test security of TIOCSTI

Written by Federico Bento <up201407890@alunos.dcc.fc.up.pt>

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Wed Jun 22 22:15:41 1994, faith@cs.unc.edu: Added internationalization
patches from Andries.Brouwer@cw.nl

Wed Sep 14 22:31:17 1994: patches from Carl Christofferson
(cchris@connected.com)

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Modified for Linux by Charles Hannum (mycroft@gnu.ai.mit.edu)
and Brian Koehrmstedt (bpk@gnu.ai.mit.edu)

Wed Sep 14 22:26:00 1994: Patch from bjdouma <bjdouma@xs4all.nl> to handle last line that has no newline correctly.

3-Jun-1998: Patched by Nicolai Langfeldt to work better on Linux:
Handle any-length-lines. Code copied from util-linux' setpwnam.c

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*
* (based on list.h from e2fsprogs)
* Merge sort based on kernel's implementation.

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* General memory allocation wrappers for malloc, realloc, calloc and strdup

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Modifications for MSVC: Yasuhiro Matsumoto

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Named character class support added by Walter Briscoe (1998 Jul 01)

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Modifications for MSVC: Yasuhiro Matsumoto

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[Exhibit_847]

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Beware that some of this code is subtly aware of the way operator precedence is structured in regular expressions. Serious changes in regular-expression syntax might require a total rethink.

Changes have been made by Tony Andrews, Olaf 'Rhialto' Seibert, Robert Webb, Ciaran McCreesh and Bram Moolenaar.
Named character class support added by Walter Briscoe (1998 Jul 01)

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for placing in the public domain the zip file format, compression for-

[Exhibit_856]

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This code is a modified version of crypting code in Infozip distribution

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

If you don't need crypting in your application, just define symbols NOCRYPT and NOUNCRYPT.

This code support the Traditional PKWARE Encryption.

The new AES encryption added on Zip format by Winzip (see the page [http //www.winzip.com/aes_info.htm](http://www.winzip.com/aes_info.htm)) and PKWare PKZip 5.x Strong Encryption is not supported.

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For more info read MiniZip_info.txt

Changes

Oct-2009 - Defined ZPOS64_T to fpos_t on windows and u_int64_t on linux. (might need to find a better why for this)

Oct-2009 - Change to fseeko64, ftello64 and fopen64 so large files would work on linux.

More if/def section may be needed to support other platforms

Oct-2009 - Defined fxxxx64 calls to normal fopen/ftell/fseek so they would compile on windows.

(but you should use iowin32.c for windows instead)

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Modifications of Unzip for Zip64

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Modifications for Zip64 support on both zip and unzip

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crypt.c (full version) by Info-ZIP. Last revised [see crypt.h]

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S.Gueron and V.Krasnov, "Fast Prime Field Elliptic Curve Cryptography with 256 Bit Primes"

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