

1 The Aim of this Workshop

We do not expect you to be able to write your own commands or develop your own scripts straight away, but we shall teach you a lot about `bash` by using it and seeing what happens.

The exercises in the accompanying handout shall take you through `bash` in detail. This should get you the stage where you are confident enough to read commands and scripts written by others, figure out what they are doing, and then adapt them for your own purposes.

2 What can I do with the Command Line?

- Define Aliases
- Case conditional branching
- Command chaining
- Command History
- Command-Line expansion
- Conditional execution of subsequent commands
- Conditional If-Then-Else
- Error return codes
- Job control Foreground/Background processing
- Loops For-While-Until
- Menu creation
- Positional parameters
- Quoting and Escaping
- Read Command Manuals
- Redirection
- Sequential execution via pipes
- Script-capture for analysis.

3 `bash` defines the following built-in commands:

```
: . [ alias bg bind break builtin caller case cd command compgen complete continue
declare dirs disown echo enable eval exec exit export false fc fg getopts hash help
history if jobs kill let local logout popd printf pushd pwd read readonly return set
shift shopt source suspend test times trap true type typeset ulimit umask unalias
unset until wait while
```

4 Starting a Terminal

| | | | | | | |
|---|-----------------|----|-----------------|---------------------|----------|---------------------|
| 1 | CTRL + ALT + F2 | or | CTRL + ALT + F3 | [login console] | | |
| 2 | CTRL + ALT + T | | | [terminal emulator] | | |
| 3 | Applications | -> | Accessories | -> | Terminal | [terminal emulator] |

Further Assistance

For learning `bash` a very good book at every level of expertise is *A Practical Guide to Linux: Commands, Editors and Shell Programming* by Mark Sobell.

```
#!/bin/bash
# './explore' manuals for all linux commands in a random order so discover new ones

# define number of screen lines desired
let lines=20; [ ! -z "$1" ] && let lines=$1

# make a list of directories and thus commands
directories="/bin /sbin /usr/bin /usr/sbin /usr/local/bin"
commands=$(/bin/ls $directories|grep -v /)

# add builtins to list of commands
commands="$commands builtins"

# look at all commands in alphabetic order
echo $commands \
|tr ' \t' '\n' \
|grep -v "^[ \t]*$" \
|sort -u \
|tee explore.commands \
|tr '\n' ' ' \
|fold -s -w 80 \
|less

# generate random numbers for tagging commands
rm -f explore.random
for command in $(cat explore.commands)
do echo "$RANDOM $command">>explore.random; done

# randomise the commands list
commands=$(cat explore.random|sort -n|awk '{print $2}')

# view the first $lines of each command in the list
for prog in $commands
do
  clear
  man $prog|col -b|grep -v "^[ \t]*$" |head -$lines
  echo
  read -p "q=quit, enter=next<" ans
  if [ "$ans" == "q" ]
  then
    break
  fi
done

echo
less $HOME/commands.list
echo "found $(cat explore.commands|wc -l) user commands"
exit 0
```

```
$ ./explore
[ 411toppm 7zr 822-date a2dismod a2dissite a2enmod a2ensite a2p a2ping
a2ps a2ps-lpr-wrapper a5booklet ab abiword abw2html accept accessdb
aclocal aclocal-1.7 aconnect acpi acpi_available acpid acpi_listen
addftinfo addgroup addpart addr2line add-shell adduser afm2tfm afmtodit
aide aideinit aide.wrapper akodeplay alacarte allcm allec allneeded
alsa alsacnf alsactl alsamixer alsamixergui alsaplayer amidi amixer
amuFormat.sh anacron analog animate anytopnm aoss apache2 apache2ctl
aplay aplaymidi apm_available appletproxy appres apropos aps2file
apsfilter-bug apsfilterconfig apspreview apt-cache apt-cdrom apt-config
apt-extracttemplates apt-ftparcarchive apt-get aptitude
aptitude-create-state-bundle aptitude-run-state-bundle apt-key apt-mark
apt-sortpkgs apt-spy ar arecord arecordmidi arj arjdisp arj-register
arm2hpd1 arora arp arpd artscat artsd artsdsp artsmesssage artsplay
artsrec artsshell artswrapper as asciitopgm ascii-xfr aseqdump aseqnet
asoundconf aspell aspell-autobuildhash aspell-import at atd atktopbm
atobm atq atrm audiocompose audiosend aumix autoconf autoheader
autom4te automake automake-1.7 autopoint autoreconf autoscan autoupdate
avahi-browse avahi-browse-domains avahi-daemon avahi-publish
avahi-publish-address avahi-publish-service avahi-resolve
avahi-resolve-address avahi-resolve-host-name avahi-set-host-name
avidemux avidemux2_gtk aviplay avr-addr2line avr-ar avr-as avr-c++
avr-c++filt avr-cpp avrdude avr-g++ avr-gcc avr-gcc-4.3.2 avr-gccbug
avr-gcov avr-gprof avr-ld avr-man avr-nm avr-objcopy avr-objdump
avr-ranlib avr-readelf avr-size avr-strings avr-strip awk axel b2m
b2m.emacs22 badblocks baobab base64 basename bash bashbug batch bbox bc
bdftopcf bdftops bdftruncate beaver bibtex bibtex8 bioradtopgm
biosdecode bison bison.yacc bitmap blkid blockdev bluefish bmptopnm
bmptoppm bmtoa bootlogd brasero brctl brushtopbm bsd-mailx bsd-write
bsh btcflash btcompletedir btcompletedir.bittorrent btdownloadcurses
btdownloadcurses.bittorrent btdownloadheadless
btdownloadheadless.bittorrent btlaunchmany btlaunchmany.bittorrent
btlaunchmanycurses btlaunchmanycurses.bittorrent btmakemetafile
btmakemetafile.bittorrent btreannounce btreannounce.bittorrent btrename
btrename.bittorrent btshowmetainfo btshowmetainfo.bittorrent btrack
btrack.bittorrent buildhash builtins bunzip2 bzip2 bzip2recover bzless bzip2
bzegrep bzexe bzfgrep bzgrep bzip2 bzip2recover bzless bzip2
bzegrep bzexe bzfgrep bzgrep bzip2 bzip2recover bzless bzip2
c89 c89-gcc c99 c99-gcc cal calendar cancel capinfos captainfo card cat
catchsegv catman cc ccmake cdparanoia cdrdao cfdisk c++filt chage
charmap chat chattr chcon check_forensic checkgid cheese cherokee
cherokee-admin cherokee-guardian cherokee-tweak chfn chgpasswd chgrp
chkdupexe chmod chown chpasswd chroot chrt chsh chvt ciptool cjpeg
cksum clambc clamscan claws-mail cleanup-info clear clear_console cli
cli-gacutil cli-wrapper cmake cmp cmuwmtopbm codepage col colcrt colrm
column combinediff comm compare comp_err compile_et compose
composeglyphs composite compress-dummy config_data conjure convert
corelist cp cpack cpan cpan2dist cpanp cpanp-run-perl cpgr cpio cpp
cpp-4.1 cpp-4.3 cppw cpufreq-info cpufreq-selector cpufreq-set
create-branching-keyboard c_rehash cron crontab csplit csslint-0.6
csv2vcards ctags ctags.emacs22 ctangle ctest ctie ctrlaltdel ctstat
```

cupsaccept cupsaddsmb cups-calibrate cups-config cupsctl cupsd
cupsdconf cupsdisable cupsdoprint cupsenable cupsfilter cups-genppd.5.0
cups-genppdconfig.5.0 cups-genppdupdate.5.0 cupsreject cupstestdsc
cupstestppd curl cut cvt cweave cytune daemon_wallpapoz dash dasher
date dbilogstrip dbiprof dbiproxy dbmmanage dbus-cleanup-sockets
dbus-daemon dbus-launch dbus-monitor dbus-send dbus-uuidgen dc
dccleanrw dcfujigreen dcfujiturn dcfujiturn16 dcop dcopclient dcopfind
dcoobject dcopquit dcopref dcopserver dcopserver_shutdown dcopstart
dcparse dcraw dd ddate deallocvt debconf debconf-apt-progress
debconf-communicate debconf-copydb debconf-escape debconf-getlang
debconf-get-selections debconf-gettextize debconf-loadtemplate
debconf-mergetemplate debconf-set-selections debconf-show
debconf-updatepo debmirror debugfs defoma defoma-app defoma-font
defoma-hints defoma-id defoma-psfont-installer defoma-reconfigure
defoma-subst defoma-user dehtmldiff delgroup delpart deluser depmod
Desktop desktop-file-install desktop-file-validate detex detox devdump
dexconf df dfutool dh dh_auto_build dh_auto_clean dh_auto_configure
dh_auto_install dh_auto_test dh_bash-completion dh_builddeb dh_clean
dhclient dhclient3 dhclient-script dh_compress dhcpcd dhcpcd-bin
dh_desktop dh_fixperms dh_gconf dh_gencontrol dh_gstscancodecs
dh_gtkmodules dh_icons dh_install dh_installcatalogs
dh_installchangelogs dh_installcron dh_installdeb dh_installdebconf
dh_installdefoma dh_installdirs dh_installdocs dh_installemacsen
dh_installexamples dh_installifupdown dh_installinfo dh_installinit
dh_installogcheck dh_installogrotate dh_installman dh_installmanpages
dh_installmenu dh_installmime dh_installmodules dh_installpam
dh_installppp dh_installtex dh_installudev dh_installwm
dh_installxfonts dh_installxmlcatalogs dh_link dh_lintian
dh_listpackages dh_makeshlibs dh_md5sums dh_movefiles dh_pangomodules
dh_perl dh_prep dh_pycentral dh_pysupport dh_python dh_scrollkeeper
dh_shlibdeps dh_strip dh_suidregister dh_testdir dh_testroot
dh_testversion dh_undocumented dh_usrlocal di dialog diff diff3 diffpp
dig dir dircolors directfb-config directfb-csource directomatic dirname
dirsplit display djpeg dmesg dmidcode dnsdomainname dosfsck dosfslabel
dotlockfile dpatch dpatch-convert-diffgz dpatch-cowdancer-patch
dpatch-edit-patch dpatch-get-origtargz dpatch-list-patch dpkg
dpkg-architecture dpkg-buildpackage dpkg-checkbuilddeps dpkg-deb
dpkg-distaddfile dpkg-divert dpkg-genchanges dpkg-gencontrol
dpkg-gensymbols dpkg-name dpkg-parsechangelog dpkg-preconfigure
dpkg-query dpkg-reconfigure dpkg-scanpackages dpkg-scansources
dpkg-shlibdeps dpkg-source dpkg-split dpkg-statoverride dpkg-trigger
dprofpp drkonqi dt2dv du dumpcap dumpe2fs dumphint dumpkeys dumpreg
dumpsexp dund dv2dt dvd-ram-control dvd+rw-booktype dvd+rw-format
dvd+rw-mediainfo dvi2fax dvibook dviconcat dvicopy dvidvi dvigif dvihp
dvilj dvilj2p dvilj4 dvilj4l dvilj6 dvipdf dvipdfm dvipdfmx dvipdft
dvipng dvipos dvips dvired dviselect dvitodvi dvitype
dwell-click-applet e2fsck e2image e2label e2pall e2undo ebb ebrowse
ebrowse.emacs22 echo ed edit editcap editdiff editor editres egrep
eject ekiga ekiga-config-tool emacs emacs22 emacs22-x emacsclient
emacsclient.emacs22 enc2xs enchant enchant-lsmod enscript env envsubst

eog epiphany epiphany-browser epiphany-gecko eps2eps epsffit epstopdf
eqn eqn2graph esdcat esdctl esddsp esdfilt esdloop esdmon esdplay
esdrec esdsample espeak espeak-synthesis-driver etags etags.emacs22
etex eventlogadm evince evince-thumbailer evolution
evolution-addressbook-export ex exicyclog exifautotran exigrep exim
exim4 exim_checkaccess exim_convert4r4 exim_dbmbuild exim_dumpdb
exim_fixdb exim_lock eximstats exim_tidydb exinext exipick exiqgrep
exiqsumm exiwhat expand expect expiry expr extcompose extensionproxy
extlinux extractbb extractres eyuvtoppm factor faillog faked-sysv
faked-tcp fakeroot fakeroot-sysv fakeroot-tcp false famd fastjar
fc-cache fc-cat fc-list fc-match fdformat fdisk festival
festival_client festival-synthesis-driver fetchmail ffmpeg ffplay
ffserver fgconsole fgrep fh-sync fiascotopnm filan file filefrag
file-roller filesharelist fileshareset filterdiff find find2perl
findaffix findfs findsmb finger firefox fitstopnm fixcvsdiff fixdlrps
fixfmps fixmacps fixnt fixps fixpsditps fixpspps fixscribeps fixtps
fixwfwps fixwpps fixwwps flashrom flipdiff flock fmt fmtutil
fmtutil-sys fold font2c fontinst fonttosfnt foo2hp foo2hp2600-wrapper
foo2lava foo2lava-wrapper foo2oak-wrapper foo2qpdL foo2qpdL-wrapper
foo2xqx foo2xqx-wrapper foo2zjs foo2zjs-icc2ps foo2zjs-wrapper
foomatic-addpjloptions foomatic-cleanupdrivers foomatic-combo-xml
foomatic-compiledb foomatic-configure foomatic-datafile
foomatic-extract-text foomatic-fix-xml foomatic-getpjloptions
foomatic-gswrapper foomatic-kitload foomatic-nonnumericalids
foomatic-perl-data foomatic-ppdfile foomatic-ppd-options
foomatic-preferred-driver foomatic-printermap-to-gutenprint-xml
foomatic-printjob foomatic-replaceoldprinterids foomatic-rip
foomatic-searchprinter formail free freetype-config freshclam fribidi
from fsck fsck.cramfs fsck.ext2 fsck.ext3 fsck.ext4 fsck.ext4dev
fsck.minix fsck.msdos fsck.nfs fsck.vfat fsLsfonts f-spot f-spot-import
f-spot-sqlite-upgrade fstobdf fstopgm ftp funzip fuser g++ g3topbm
g++-4.3 gacutil gamma4scanimage gawk gcalctool gcc gcc-4.1 gcc-4.3
gccbug-4.1 gcj-dbtool-4.3 gconf-editor gconf-merge-tree gconf-schemas
gconfsharp2-schemagen gconftool gconftool-2 gcov gcov-4.1 gcov-4.3
gda-author-dict-file-3.0 gda-config-tool-3.0 gda-diagnose-3.0
gda-inspect-dict-file-3.0 gda-list-config-3.0 gda-report-test-3.0
gda-run-3.0 gda-test-connection-3.0 gdialog gdk-pixbuf-csource
gdk-pixbuf-query-loaders gdm gdm-dmx-reconnect-proxy gdmdynamic
gdmflexiserver gdmphotosetup gdmsetup gdmthemetester gdmXnest
gdmXnestchooser gedit gemtopbm gemtopnm gencat gendiff genisoimage geqn
GET getafm getconf geteltorito getent getfilename gethostip geticonset
getkeycodes getnonfreefonts getnonfreefonts-sys getopt getstyle gettext
gettextize gettext.sh getty getweb gfloppy gftodvi gftopk gftype ggtick
ghostscript giftopnm gij-4.3 gimp gimp-2.4 gimp-console
gimp-console-2.4 gimp-remote gimp-remote-2.4 ginstall-info gkeytool-4.3
gksu gksudo gksu-properties glib-genmarshal glib-gettextize
glib-mkenums gmenu-simple-editor gmplayer gnome-about gnome-about-me
gnome-appearance-properties gnome-app-install gnome-app-install-helper
gnome-at-mobility gnome-at-properties gnome-at-visual
gnome-audio-profiles-properties gnome-calculator gnome-character-map

gnome-codec-install gnome-control-center
gnome-default-applications-properties gnome-desktop-item-edit
gnome-dictionary gnome-display-properties gnome-doc-prepare
gnome-doc-tool gnome-eject gnome-font-viewer gnome-help
gnome-keybinding-properties gnome-keyboard-properties
gnome-keyring-daemon gnome-mount gnome-mouse-properties gnome-nettool
gnome-network-preferences gnome-open gnome-panel gnome-panel-logout
gnome-panel-screenshot gnome-power-cmd gnome-power-manager
gnome-power-preferences gnome-power-statistics gnome-screensaver
gnome-screensaver-command gnome-screensaver-preferences
gnome-screenshot gnome-search-tool gnome-session
gnome-session-properties gnome-session-remove gnome-session-save
gnome-settings-daemon gnome-sound-properties gnome-sound-recorder
gnome-system-log gnome-system-monitor gnome-terminal
gnome-terminal.wrapper gnome-text-editor gnome-theme-thumbailer
gnome-thumbnail-font gnome-typing-monitor gnome-umount gnomevfs-cat
gnomevfs-copy gnomevfs-df gnomevfs-info gnomevfs-ls gnomevfs-mkdir
gnomevfs-monitor gnomevfs-mv gnomevfs-rm gnome-video-thumbailer
gnome-volume-control gnome-volume-manager-gthumb
gnome-volume-properties gnome-window-properties gnome-wm
gnome-www-browser gnumeric gnuplot gnuplot-nox gobject-query gok
gorbd-4.3 Gouldtoppm gparted gpartedbin gpasm gpasswd gpdasm gpg
gpg-convert-from-106 gpg-error gpg-error-config gpgsplit gpgv gpg-zip
gpic gplib gplink gprof gpstrip gpvc gpvo gqview grep grep-changelog
grep-changelog.emacs22 grepdiff grepjar grmid-4.3 grmiregistry-4.3 grn
grodvi groff groffer grog grolbp grolj4 grops grotty groupadd groupdel
groupmod groups growisofs grpck grpconv grpunconv grub grub-floppy
grub-install grub-md5-crypt grub-mkdevicemap grub-probe grub-reboot
grub-set-default grub-terminfo gs gsbj gsdj gsdj500 gserialver-4.3
gsftopk gslj gslp gsnd gss_clnt_send_err gss_destroy_creds gst-feedback
gst-feedback-0.10 gst-inspect gst-inspect-0.10 gst-launch
gst-launch-0.10 gstreamer-properties gst-typefind gst-typefind-0.10
gst-visualise-0.10 gst-xmlinspect gst-xmlinspect-0.10 gst-xmllaunch
gst-xmllaunch-0.10 gtbl gtester gtester-report gtf gthumb
gtk-builder-convert gtk-query-immodules-2.0 gtk-update-icon-cache
gucharmap guile guile-1.6 gunzip gv gvimtutor gv-update-userconfig
gxditview gzexe gzip h2ph h2xs hald hal-device hal-disable-polling
hal-find-by-capability hal-find-by-property hal-get-property
hal-is-caller-locked-out hal-lock hal-set-property hal-setup-keymap
halt hardinfo hciattach hciconfig hcid hcitool hd head HEAD helpztags
hexdump hid2hci hidd hipstopgm host hostid hostname hp-align hp-check
hp-clean hp-colorcal hp-fab hp-firmware hpftodit hp-info hp-levels
hplj1000 hplj1005 hplj1018 hplj1020 hp-makecopies hp-makeuri hp-print
hp-probe hp-scan hp-sendfax hp-setup hpssd hp-systray hp-testpage
hp-timedate hp-toolbox hp-unload hsqldb-databasemanager
hsqldb-databasemanagerswing hsqldb-querytool hsqldb-sqltool
hsqldb-transfer htcacheclean htcdm htdigest html2text httpasswd
httxt2dbm hwclock hwinfo i386 i486-linux-gnu-cpp i486-linux-gnu-cpp-4.1
i486-linux-gnu-cpp-4.3 i486-linux-gnu-g++ i486-linux-gnu-g++-4.3
i486-linux-gnu-gcc i486-linux-gnu-gcc-4.1 i486-linux-gnu-gcc-4.3

iceauth iceweasel icombine icontopbm iconv iconvconfig id identify
iecset ifconfig ifdown ifnames ifup igawk ijoin ilbmtoppm imagetops
imgtoppm imlib-config import includeres indxbib inetd info infobrowser
infocmp infokey infotocap init inkscape inkview innochecksum innotop
insmod inspectsocks install install-docs install-info installkernel
install-keymap install-menu install-sgmlcatalog instmodsh interdiff
intltool-extract intltoolize intltool-merge intltool-prepare
intltool-update invest-chart invoke-rc.d ionice ip ip6tables
ip6tables-restore ip6tables-save ipcrm ipcs ipmaddr iptables
iptables-apply iptables.init iptables-restore iptables-save
iptables-xml iptunnel isodump isoinfo isosize isovfy ispell
ispell-autobuildhash ispellconfig ispell-wrapper iwconfig iwevent
iwgetid iwlist iwpriv iwspy jack jack_alias jack_bufsize jack_connect
jackd jack_disconnect jack_evmon jack_freewheel jack_impulse_grabber
jack_load jack_lsp jack_metro jack_midiseq jack_midisine
jack_monitor_client jackrec jack_showtime jack_simple_client
jack_transport jack_unload jar java javaws jexec join jpegexiforient
jpegtopnm jpegtran kab2kabc kabc2mutt kaccess kaddprinterwizard
kaddressbook kapplymousetheme kasbar kbd-config kbd_mode kbdrate
kblankscrn.kss kbookmarkmerger kbuildsycoca kcheckpass kcheckrunning
kcminit kcminit_startup kcmshell kconf_update kcontrol kcookiejar kdcop
kdebugdialog kde-config kded kdeject kdeinit kdeinit_shutdown
kdeinit_wrapper kdeinstallktheme kde-menu kDepIDB kDepPre kdesktop
kdesktop_lock kdesu kdesud kdesu_stub kdialog kdontchangethehostname
kdostartupconfig keditbookmarks keditfiletype kerneloops
kerneloops-applet kernel-packageconfig keytool kfile kfind kfmclient
kfmexec kfontinst kfontview kgrantpty khotkeys khotnewstuff kicker kill
killall killall5 kinfocenter kinstalltheme kioexec
kio_http_cache_cleaner kio_media_mounthelper kioslave
kio_system_documenthelper kio_uiserver klauncher
klocaldomainurifilterhelper kmailservice kmk kmk_append kmk_ash kmk_cat
kmk_cmp kmk_cp kmk_echo kmk_gmake kmk_install kmk_ln kmk_md5sum
kmk_mkdir kmk_mv kmk_printf kmk_redirect kmk_rm kmk_rmdir kmk_sed
kmk_test knetattach kObjCache koi8rxterm konqueror kpac_dhcp_helper
kpseaccess kpsepath kpsereadlink kpsestat kpsetool kpsewhere kpsewhich
kpsexpand krandom.kss krandrtray krb5-config krdb kreadconfig
ksendbugmail kshell kstart kstartupconfig ksystraycmd ktelnetservice
ktradertest ktrash kwebdesktop kwrapper kwriteconfig kxkb l2ping
lacheck lame laptop-detect last lastb lastlog latex lavadecode lcf ld
ldconfig ldd leaftoppm less lessecho lessfile lesskey lesspipe lexicgrog
lft lft.db lftp lftpget libgcrypt-config libglade-convert
libgnutls-config libgnutls-extra-config libgraphviz4-config-update
libnetcfg libpng12-config libpng-config libtasn1-config libtool
libtoolize liferea liferea-add-feed liferea-bin line link links links2
linux32 linux64 linux-boot-prober lispmtopgm listres lkbib ln lnstat
lnusertemp loadkeys loadunimap locale localedef locale-gen locate
lockfile lockfile-create lockfile-remove lockfile-touch logger login
logname logresolve logrotate logsave look lookbib lorder losetup lp
lpadmin lpc lpdomatic lpinfo lpmove lpoptions lppasswd lpq lpr lprm
lpr.orig lp_solve lpstat lrelease lrelease-qt3 ls lsattr lsb_release

lsdiff lshal lsmod lsof lspci lspgpot lss16toppm lsubb luit lupdate
lupdate-qt3 lwp-download lwp-mirror lwp-request lwp-rget lxterm lynx
lynx.cur lyx lyxclient lz lzcat lzma lzmainfo m16c-flash m4 m-a
macptopbm Magick-config Magick+-config MagickCore-config
MagickWand-config magnifier mail Mail mail-files mail-lock mailq
mailshar mailstat mailto mail-touchlock mail-unlock mailx make MAKEDEV
make_driver_db_cups make_driver_db_lpr make-googleearth-package
makeindex makeinfo make-kpkg make-ssl-cert makestrs man mandb manpath
mapscrn mattrib mautil mawk mbadblocks mbchk mcat mcd mcheck
mclasserace mcomp mcookie mcopy md5pass md5sum md5sum.textutils
mdatopbm mdel mdeltree mdir mdu meinproc mencoder mergecap mesg
metacity metacity-message metacity-theme-viewer metacity-window-demo
metamail metasend mf mf-nowin mformat mft mgrtopbm mii-tool mimeit
mimencode minfo minicom mkafmmmap mkbimage mkboot mkdir mkdiskimage
mkdosfs mke2fs mkfifo mkfontdir mkfontscale mkfs mkfs.bfs mkfs.cramfs
mkfs.ext2 mkfs.ext3 mkfs.ext4 mkfs.ext4dev mkfs.minix mkfs.msdos
mkfs.vfat mkindex mkinitramfs mkinitramfs-kpkg mklost+found mkmanifest
mk_modmap mknod mkocp mkofm mkpasswd mksmbpasswd mksquashfs mkswap
mktemp mktexfmt mktexlsr mktexmf mktexpk mktextfm mkzftree mlabel
mlocate mmd mmount mmove mmroff moc moc-qt3 mode3 modinfo modprobe
module-assistant mogrify mono montage more mount mount.nfs mount.nfs4
mountpoint moutro mountrw mousetweaks mozilla mozilla-firefox
mp3-decoder mpartition mpg123 mpg123-alsa mpg123.bin mpg123-esd
mpg123-nas mpg123-oss mpg123-oss-i486 mpg321 mplayer mrd mren msgattrib
msgcat msgcmp msgcomm msgconv msgen msgexec msgfilter msgfmt msggrep
msginit msgmerge msgunfmt msguniq mshowfat msq2mysql mt mt-gnu mtools
mtoolstest mtr mtrace mtvtppm mtype munchlist mute mutt mutt_dotlock
mv mxtar myisamchk myisam_ftdump myisamlog myisampack my_print_defaults
mysql mysqlaccess mysqladmin mysqlanalyze mysqlbinlog mysqlbug
mysqlcheck mysql_client_test mysql_client_test_embedded mysql_config
mysql_convert_table_format mysqld mysqld_multi mysqld_safe mysqldump
mysqldumpslow mysql_explain_log mysql_find_rows mysql_fix_extensions
mysql_fix_privilege_tables mysqlhotcopy mysqlimport mysql_install_db
mysqlmanager mysqloptimize mysqlrepair mysqlreport
mysql_secure_installation mysql_setpermission mysqlshow mysql_tableinfo
mysqltest mysqltest_embedded mysqltestmanager mysqltestmanagerc
mysqltestmanager-pwgen mysql_tzinfo_to_sql mysql_upgrade
mysql_upgrade_shell mysql_waitpid mysql_zap mzip naim namei nameif nano
nautilus nautilus-cd-burner nautilus-connect-server
nautilus-file-management-properties nawk nc ncal nc.traditional
ncurses5-config ncursesw5-config ndb_config ndbd ndb_delete_all
ndb_desc ndb_drop_index ndb_drop_table ndb_error_reporter ndb_mgm
ndb_mgmd ndb_restore ndb_select_all ndb_select_count ndb_show_tables
ndb_size ndb_test_platform ndb_waiter neotppm neqn nero nerocmd
neroexpress net netcat netkit-ftp netrik netscsid net-snmp-config
netstat network-admin newaliases newgrp newusers nfsstat ngettext nice
nicq nip2 nirc nl nlily nm nmap nmbd nmblookup nohup nologin nroff
nslookup nstat nsupdate ntpdate ntpdate-debian nxproxy obex-data-server
objcopy objdump oclock od ogg123 oggdec oggenc ogginfo ogonkify
oil-bugreport okidecode oldfind oldfuser omshell on_ac_power oobase

oocalc oodraw ooffice oofromtemplate ooimpress oomath ooweb oowriter
open openoffice openssl openssl-vulnkey openvt opldecode orbd orca
os-prober ots over ownership oxdvi p7zip pack200 pager palmtopnm pamcut
pamdeinterlace pamdice pamfile pam_getenv pamoil pamstack pamstretch
pamstretch-gen pam_tally pand panel-test-applets pango-querymodules
pango-view paps parsechangelog partx passwd paste pat2ppm patch
patch-metamail patextract patgen pathchk pbmclean pbmlife pbmmake
pbmmask pbmpage pbmpscale pbmreduce pbmtext pbmtextps pbmto10x
pbmtoascii pbmtoatk pbmtobnbg pbmtocmuwm pbmtoepsi pbmtoepson pbmtog3
pbmtogem pbmtogo pbmtoicon pbmtolj pbmtomacp pbmtomda pbmtomgr
pbmtonokia pbmtopgm pbmtopi3 pbmtoplot pbmtoppa pbmtopsg3 pbmtoptx
pbmtowbmp pbmtox10bm pbmtoxbm pbmtoybm pbmtozinc pbmupc pcimodules
pcretest pcxtoppm pdb pdb2.5 pdbedit pdf2dsc pdf2ps pdfclose pdfcrop
pdfetex pdffonts pdfimages pdfinfo pdflatex pdfopen pdfopt pdftex
pdftoabw pdftohtml pdftoppm pdftops pdftotext pdiff pear peardev pecl
peekfd perl perl5.10.0 perlbug perldoc perlivp perror pf2afm pfbtopfa
pfbtops pftp pg pgawk pgmbentley pgmcrater pgmedge pgmenhance pgmhist
pgmkernel pgmnoise pgmnorm pgmoil pgmramp pgmslice pgmtexture pgmtofs
pgmtolisp pmgtopbm pgmtoppm pgrep php php5 piitoppm pi3topbm pic
pic2graph picasa picasm pico piconv pidof pilconvert.py pildriver.py
pilfile.py pilfont.py pilprint.py ping ping6 pinky pivot_root pjtoppm
pkfix pkg-config pkill pktogf pktype pl2pm planner play plipconfig plog
pma-configure pmap pmap_dump pmap_set pma-secure pm-hibernate
pm-is-supported pmount pmount-hal pm-powersave pm-suspend
pm-suspend-hybrid png2pat pngtopnm pnmaliases pnmarith pnmcat pnmcolormap
pnmcomp pnmconvol pnmcrop pnmcut pnmdepth pnm enlarge pnmfile pnmflip
pnm gamma pnmhisteq pnmhistmap pnmindex pnminterp pnminterp-gen
pnminvert pnm margin pnm montage pnmnlfilt pnmnoraw pnmnorm pnm pad
pnpaste pnm psnr pnmquant pnmremap pnmrotate pnm scale pnm scalefixed
pnm shear pnm smooth pnm split pnm tile pnm toddif pnm tofiasco pnm tofits
pnm tojpeg pnm topalm pnm topplainpnm pnm topng pnm tops pnm torast pnm torle
pnm tosgi pnm tosir pnm totiff pnm totiffcmyk pnm toxwd po2debconf pod2html
pod2latex pod2man pod2text pod2usage podchecker podebconf-display-po
podebconf-report-po podselect poff poff.wvdial pointer-capture-applet
policytool polipo pon pon.wvdial pooltype popclient portmap POST poster
post-grohtml poweroff ppm3d ppmbrighten ppmchange ppmcie ppmcolormask
ppmcolors ppm dim ppm dist ppm dither ppm fade ppm flash ppm forge ppm hist
ppm label ppm make ppm mix ppm norm ppm ntsc ppm pat ppm quant ppm quantall
ppm qvga ppm rainbow ppm relief ppm shadow ppm shift ppm spread ppm toacad
ppm tobmp ppm toeyuv ppm togif ppm toicr ppm toilbm ppm tojpeg ppm toleaf
ppm tolj ppm tolss16 ppm tomap ppm tomitsu ppm tompeg ppm toneo ppm topcx
ppm topgm ppm topi1 ppm topict ppm topj ppm topuzz ppm torgb3 ppm tosixel
ppm totga ppm touil ppm towinicon ppm toxpm ppm toyuv ppm toyuvsplit ppm tv
pppd pppdump pppoe-discovery pppstats pr precat pre-grohtml prename
preunzip prezip prezip-bin print printafm printenv printf procan
procmail profiles prove ps ps2ascii ps2eps ps2epsi ps2pdf ps2pdf12
ps2pdf13 ps2pdf14 ps2pdfwr ps2ps ps2ps2 ps2txt ps4pdf psbook psed
psfaddtable psfgettable psfstrietable psfxtable psidtopgm pslatex
psmandup psmerge psnup psresize psselect psset pstopnm pstops pstree
pstree.x11 pstruct ptar ptardiff ptked ptksh ptx pumount pwck pwconv

pwd pwdx pwunconv pycentral py_compilefiles pydoc pydoc2.5 pygettext
pygettext2.5 pyntor pyntor-components pyntor-selfrun
pysupport-movemodules pysupport-parseversions python python2.5
pyversions qdbus qembed qiv qjackctl qmake qmake-qt3 qpdldcode
qrttoppm qtconfig qtconfig-qt4 qt-faststart qtnx querybts ramsize
ranlib rar rarian-example rarian-sk-config rarian-sk-extract
rarian-sk-gen-uuid rarian-sk-get-cl rarian-sk-get-content-list
rarian-sk-get-extended-content-list rarian-sk-get-scripts
rarian-sk-install rarian-sk-migrate rarian-sk-preinstall
rarian-sk-rebuild rarian-sk-update rarp rasttopnm raw rawshark rawtopgm
rawtoppm rb rbash rcp rcs-checkin rcs-checkin.emacs22 rdesktop rdev
rdjpgcom readelf readlink readom readprofile realplay realplayer rearj
reboot rebuild-gcj-db rebuild-security-providers rec recode-sr-latin
recordmydesktop recountdiff red rediff refer reject
remove-default-ispell remove-default-wordlist remove-shell remsync
rename rename.ul renice replace reportbug report-hw reset resize
resize2fs resolveip resolve_stack_dump restorefont restorepalette
restore.talk restoretextmode rev rfcomm rgb2pat rgb3toppm rgrep
rhd_conntest richtext rletopnm rlogin rm rmail rmdir rmid rmiregistry
rmmmod rmt rmt-tar rnano rootflags rotatelog route routef routel
rpcclient rpcdebug rpcgen rpc.gssd rpc.idmapd rpcinfo rpc.statd rpl8
rpm rpm2cpio rpmbuild rpmdb rpme rpmgraph rpmi rpmquery rpmsign rpmu
rpmverify rsh rsmtmp rstart rstartd rsync rsyslogd rtacct rtcwake rtmon
rtstat runcon runlevel run-mailcap run-parts runq runscript
run-with-aspell rview rvim rx rz s2p s5 safe_finger saned
sane-find-scanner savelog saveme savetextmode saytime sb sbigttopgm
scanimage scp screen screendump script scriptreplay scrollkeeper-config
scrollkeeper-extract scrollkeeper-gen-seriesid scrollkeeper-get-cl
scrollkeeper-get-content-list scrollkeeper-get-extended-content-list
scrollkeeper-get-index-from-docpath scrollkeeper-get-toc-from-docpath
scrollkeeper-get-toc-from-id scrollkeeper-install
scrollkeeper-preinstall scrollkeeper-rebuilddb scrollkeeper-uninstall
scrollkeeper-update sdiff sdptool seahorse seahorse-agent
seahorse-daemon seahorse-preferences seahorse-tool sed see
select-default-ispell select-default-iwrap select-default-wordlist
sendmail sensible-browser sensible-editor sensible-pager seq serialver
servertool services-admin sessreg setarch setfont seticons setkeycodes
setleds setlogcons setmetamode setpci setsid setstyle setterm
setvesablank setxkbmap sfdisk sftp sg sgitopnm sh sha1pass sha1sum
sha224sum sha256sum sha384sum sha512sum shadowconfig shar shares-admin
shasum showaudio showchar showconsolefont showexternal showfont showkey
showmount shownonascii showpartial showpicture showrgb shred shuf
shutdown sigtool simpdfTeX sirtopnm size skill slabtop slattach
sldtoppm sleep sliceprint slogin smartctl smartd smbcacls smbclient
smbcontrol smbquotas smbdrive smbget smbpasswd smbpool smbstatus smbtree
smbtree smfspd smime_keys sm-notify smproxy snd snice snxdump snxterm
socat soelim soffice software-properties-gtk sort sound-juicer sox
spawn-fcgi spawn-fcgi.cherokee spctoppm speaker-test splain split
splitdiff splitfont split-logfile splitmail sprof sputoppm sq sqlite
sqlite3 ss ssconvert ssh ssh-add ssh-agent ssh-argv0 ssh-copy-id sshd

ssh-keygen ssh-keyscan ssh-vulnkey ssindex st4topgm start_kdeinit
start_kdeinit_wrapper startpar start-stop-daemon startx stat states
store.talk stream strings strip stty su sudo sudoedit sulogin sum
su-to-root svgakeymap svlc svn svnadmin svndumpfilter svnlook svnmucc
svn-populate-node-origins-index svnservice svnsync svnversion swapoff
swapon swfdec-player swfdec-thumbailer sx sylpheed sylpheed-claws-gtk2
synaptic sync synclient syndaemon sysctl syslinux syslinux2ansi
syslog2eximlog system-tools-backends sysv-rc-conf sz tabs tac tail
tailf tangle tar taskjuggler TaskJugglerUI tasksel taskset tasm tbl tc
tcdialog tclsh tclsh8.4 tclsh8.5 tcpd tcpdchk tcpdmatch tcpdump
tcptraceroute tcptraceroute.db tdbbackup tee telinit telnet
telnet.netkit tempfile test testparm tex tex2lyx texconfig
texconfig-dialog texconfig-sys texdoc texdoctk texhash texi2dvi
texi2dvi4a2ps texi2pdf texindex texlinks text2pcap text2wave textmode
tftodit tgatoppm tgz themus-theme-applier thinkjettopbm thumbpdf tic
tie tiff2topnm time time-admin tixindex tkjpeg tload tnameserv toc2cddb
toc2cue toe toolame top tor tor-gencert torify tor-resolve totem
totem-audio-preview totem-gstreamer totem-gstreamer-audio-preview
totem-gstreamer-video-indexer totem-gstreamer-video-thumbailer
totem-video-indexer touch tpic2pdf tex tput tr traceproto traceproto.db
traceroute traceroute6 traceroute6.db traceroute.db traceroute-nanog
traceroute-nanog.db tracert tracert.db troff true tryaffix try-from
tsclient tset tsocks tsort tty tune2fs tunelp twm tzconfig tzselect ucf
ucfq ucfu ucs2any udevadm udevd udevinfo udevsettle uic uic-qt3 ul
umax_pp umount umount.hal umount.nfs umount.nfs4 uname
unattended-upgrade uncompress unexpand unicode_start unicode_stop uniq
unix_chkpwd unix_update unlink unlzma unopkg unpack200 unrar
unrar-nonfree unshar unsq unsquashfs unwrapdiff unxz unzip unzipsfx
update-aide.conf update-alternatives update-app-install
update-auctex-elisp update-auctex-install update-binfmts
update-ca-certificates update-catalog updatedb updatedb.mlocate
update-default-aspell update-default-ispell update-default-wordlist
update-desktop-database update-dictcommon-aspell update-exim4.conf
update-exim4.conf.template update-exim4defaults update-fmtutil
update-fontlang update-fonts-alias update-fonts-dir update-fonts-scale
update-gconf-defaults update-gdkpixbuf-loaders update-grub
update-gtk-immodules update-icon-caches update-inetd update-initramfs
update-ispell-dictionary update-java-alternatives update-language
update-locale update-manager update-menus update-mime
update-mime-database update-modules update-notifier
update-openoffice-dicts update-pangox-aliases update-passwd
update-pciids update-perl-sax-parsers update-python-modules update-rc.d
update-texmf update-updmap update-usbids update-xmlcatalog
update-xpdfrc updmap updmap-sys upgrade-windowmaker-defaults uptime
usb_printerid useradd userdel usermod users users-admin uudecode
uudepipe uuencode uuenpipe uxterm uz validateconf validlocale vbetool
VBoxAddIF VBoxDeleteIF vboxheadless VBoxHeadless vboxmanage VBoxManage
vboxsdk VBoxSDL VBoxTAP VBoxTunctl vcstime vcut vdir vditool vga_reset
vi vidmode view viewres vigr vim vim.basic vimdiff vim.tiny vimtutor
vinagre vino-preferences vipw virtualbox VirtualBox visgrep visudo vlc

```

vmstat vnc4config vnc4passwd vnc4server vncconfig vncpasswd vncserver
vncviewer vol_id volname vorbiscomment vorbistagedit vpddecode vpe
vrflash vumeter w w3m w3mman wall wallpapoz Wand-config watch wbmptopbm
wc wdiff wread wwrite weave weblint wftopfa wget whatis whereis which
whiptail who whoami whois wicd wicd-client wicd-curses widget
WindowMaker winicontoppm wipe wireshark wmagnify wmaker wsetbg wodim
word-list-compress wpa_action wpa_cli wpa_passphrase wpa_suppllicant
WPrefs w.procps write wrjpgcom wvdial wvdialconf www-browser wxcopy
wypaste wxvlc X x0vnc4server x0vncserver X11 x11perf x11perfcomp x11vnc
xargs xaumix xauth xbiff xbmtopbm xbsh xcalc xclipboard xclock xcmsdb
xconsole xcursorgen xcutsel xdg-desktop-icon xdg-desktop-menu xdg-email
xdg-icon-resource xdg-mime xdg-open xdg-screensaver xditview xdpiinfo
xdriinfo xdvi xdvi.bin xdvi-xaw.bin xephem xev xeyes xfd xfe xfileimage
xfilepackage xfilequery xfileview xfilewriter xfontsel xfsinfo
xft-config xgamma xgc xgettext xhost ximtoppm xinit xinput xkbbell
xkbcamp xkbevd xkbprint xkbvleds xkbwatch xkill xlinks2 xload xlogo
xlsatoms xlsclients xlsfonts xmag xman xmessage xminicom xml2-config
xml2po xmlcatalog xmlint xmodmap xmore xmousepos Xorg xournal xpaint
xpdf xpdf.bin xpmtoppm xprop qxqdecode xrandr xrdp xrefresh xsane
x-session-manager xset xsetmode xsetpointer xsetroot xsltproc xsm
xstddmap xsubpp xte xterm x-terminal-emulator xtrapchar xtrapin
xtrapinfo xtrapout xtrapproto xtrapreset xtrapstats xulrunner-1.9
xvidtune xvinfo xvminitoppm Xvnc Xvnc4 xvnc4viewer xvncviewer xwd
xwdtopnm x-window-manager xwininfo xwud x-www-browser xxd xz xzcat
xzcmp xzdiff xzegrep xzfgrep xzgrep xzgv xzless xzmore yacc yasm
ybmptopbm yelp yes youtube-dl yuvsplittoppm yvtoppm zcat zcmp zdiff
zdump zegrep zeisstopnm zenity zfgrep zforce zgrep zic zip zipcloak
zipgrep zipinfo zipnote zipsplit zjsdecode zless zmore znew zsoelim
zpdf

```

```

ogginfo(1)                                Vorbis Tools                                ogginfo(1)
NAME

```

```

ogginfo - gives information about Ogg files, and does extensive valid
ity checking

```

SYNOPSIS

```

ogginfo [ -q ] [ -v ] [ -h ] file1.ogg ... fileN.ogg

```

DESCRIPTION

ogginfo reads one or more Ogg files and prints information about stream contents (including chained and/or multiplexed streams) to standard output. It will detect (but not correct) a wide range of common defects, with many additional checks specifically for Ogg Vorbis streams.

For all stream types ogginfo will print the filename being processed, the stream serial numbers, and various common error conditions.

For Vorbis streams, information including the version used for encoding, the sample rate and number of channels, the bitrate and playback length, and the contents of the comment header are printed.

Similarly, for Theora streams, basic information about the video is provided, including frame rate, aspect ratio, bitrate, length, and the comment header.

q=quit, enter=next<q

411toppm - convert Sony Mavica .411 image to ppm
7zr - A file archiver with highest compression ratio
822-date - Print date and time in RFC2822 format
a2enmod, a2dismod - enable or disable an apache2 module
a2ensite, a2dissite - enable or disable an apache2 site / virtual host
a2p - Awk to Perl translator
a2ping -- convert between PS, EPS and PDF and other page description formats
a2ps - format files for printing on a PostScript printer
a2ps-lpr-wrapper lp/lpr wrapper script for GNU a2ps on Debian
a5booklet - copy two A5 pages from a .dvi file to one A4 page in
ab - Apache HTTP server benchmarking tool
AbiWord - AbiWord Word Processor
abw2html - Abiword to HTML converter
accept/reject - accept/reject jobs sent to a destination
accessdb - dumps the content of a man-db database in a human readable
aclocal - automatically generate aclocal.m4 from configure.in
aconect - ALSA sequencer connection manager
acpi_available - test whether ACPI subsystem is available
acpid - Advanced Configuration and Power Interface event daemon
acpi_listen - ACPI event listener
acpi - Shows battery status and other ACPI information
addftinfo - add information to troff font files for use with groff
addpart - simple wrapper around the "add partition" ioctl
addr2line - convert addresses into file names and line numbers.
add-shell - add shells to the list of valid login shells
adduser, addgroup - add a user or group to the system
afm2tfm - convert Adobe font metrics to TeX font metrics
afmtodit - create font files for use with groff -Tps
agetty - alternative Linux getty
aide - Advanced Intrusion Detection Environment
aideinit - create a new AIDE database
aide.wrapper - call aide binary for Debian mechanisms
alacarte - edit freedesktop.org menus
allcm - force the most important Computer-Modern-fonts to be calculated
allneeded - force the calculation of all fonts now needed
alsaconf - configuration tool for the Advanced Linux Sound Architecture
alsactl - advanced controls for ALSA soundcard driver
alsamixer - soundcard mixer for ALSA soundcard driver, with ncurses
amidi - read from and write to ALSA RawMIDI ports
amixer - command-line mixer for ALSA soundcard driver
anacron - runs commands periodically
analog - web server logfile analyser
animate - animates an image or image sequence on any X server.
anytopnm - attempt to convert an unknown type of image file to a
apache2 - Apache Hypertext Transfer Protocol Server
apache2ctl - Apache HTTP server control interface
aplaymidi - play Standard MIDI Files

apm_available - test whether APM subsystem is available
appletproxy - KDE kicker panel applet proxy
appres - list X application resource database
apropos - search the manual page names and descriptions
aps2file - printing to a file via apsfilter
apsfilter-bug - create a half-automatic bug report for apsfilter
apsfilter - magic print filter with auto file type recognition
apspreview - preview PostScript file(s) as generated by apsfilter
apt-cache - APT package handling utility -- cache manipulator
apt-cdrom - APT CDROM management utility
apt-config - APT Configuration Query program
apt-extracttemplates - Utility to extract DebConf config and templates
apt-ftparchive - Utility to generate index files
apt-get - APT package handling utility -- command-line interface
aptitude-create-state-bundle - bundle the current aptitude state
aptitude - high-level interface to the package manager
aptitude-run-state-bundle - unpack an aptitude state bundle and invoke
apt-key - APT key management utility
apt-mark - mark/unmark a package as being automatically-installed
apt-sortpkgs - Utility to sort package index files
apt-spy - program to generate a /etc/apt/sources.list file
ar - create, modify, and extract from archives
arecord, aplay - command-line sound recorder and player for ALSA sound
arecordmidi - record Standard MIDI Files
arj - Archiver for .arj files
arjdisp - ARJ simple graphical interface
arj-register - Register the ARJ archiver
arm2hpd1 - part of the printer driver foo2zjs
Arora - Lightweight web browser based on Qt and WebKit
arpd - userspace arp daemon.
arp - manipulate the system ARP cache
artscat pipe data to sound device
artsdsp - manual page for artsdsp
artsmesssage Utility to display aRts error messages
asciitopgm - convert ASCII graphics into a portable graymap
ascii-xfr - upload/download files using the ASCII protocol
aseqdump - show the events received at an ALSA sequencer port
aseqnet - ALSA sequencer connectors over network
asoundconf - utility to read and change the users ALSA library config
aspell-autobuildhash - Autobuilding aspell hash files for some dicts
aspell-import - import old personal dictionaries into GNU Aspell
aspell - interactive spell checker
AS - the portable GNU assembler.
at, batch, atq, atrm - queue, examine or delete jobs for later execu
atd - run jobs queued for later execution
atktopbm - convert Andrew Toolkit raster object to portable bitmap
audiocompose - Compose an audio fragment for inclusion in a mail mes
audiosend - Send an audio email message
aumix - adjust audio mixer
autoconf - Generate configuration scripts

autoheader - Create a template header for configure
autom4te - Generate files and scripts thanks to M4
automake - automatically create Makefile.ins from Makefile.ams
autopoint - copies standard gettext infrastructure
autoreconf - Update generated configuration files
autoscan - Generate a preliminary configure.in
autoupdate - Update a configure.in to a newer Autoconf
avahi-browse - Browse for mDNS/DNS-SD services using the Avahi daemon
avahi-daemon - The Avahi mDNS/DNS-SD daemon
avahi-publish-service - Register an mDNS/DNS-SD service or host name or
avahi-resolve - Resolve one or more mDNS/DNS host name(s) to IP
avahi-set-host-name - Change mDNS host name
Avidemux a free video editor
aviplay - QT-based movie player
avrdude - driver program for simple Atmel AVR MCU programmer
badblocks - search a device for bad blocks
Baobab - A graphical tool to analyse disk usage
base64 - base64 encode/decode data and print to standard output
basename - strip directory and suffix from filenames
bashbug - report a bug in bash
bash-builtins - bash built-in commands, see bash(1)
bash - GNU Bourne-Again SHell
bbox - prints out the bounding box of a rawppm or rawpbm image
bc - An arbitrary precision calculator language
bdf2pcf - convert X font from Bitmap Distribution Format to Portable
bdftruncate - generate truncated BDF font from ISO 10646-1-encoded BDF
beaver - an advanced editor based on GTK+ libraries.
bibtex8 - 8-bit Big BibTeX version 0.99c
bibtex - make a bibliography for (La)TeX
bioradtopgm - convert a Biorad confocal file into a portable graymap
biosdecode - BIOS information decoder
bison - GNU Project parser generator (yacc replacement)
bison.yacc - GNU Project parser generator (yacc replacement)
bitmap, bmtoa, atobm - bitmap editor and converter utilities for the X
blkid - command-line utility to locate/print block device attributes
blockdev - call block device ioctls from the command line
bmptopnm - convert a BMP file into a portable anymap
bootlogd - record boot messages
brasero - Simple and easy to use CD/DVD burning application for the
brushtopbm - convert a doodle brush file into a portable bitmap
bsh - BeanShell: A Java scripting environment (command-line version).
BTCFLASH - firmware flash utility for BTC DRW1008 DVD+/-RW recorder.
bzcmp, bzdiff - compare bzip2 compressed files
bzexe - compress executable files in place
bzgrep, bzfgrep, bzegrep - search possibly bzip2 compressed files for a
bzip2, bunzip2 - a block-sorting file compressor, v1.0.4
bzmore, bzless - file perusal filter for crt viewing of bzip2 com
c2ph, pstruct - Dump C structures as generated from "cc -g -S" stabs
c89 - ANSI (1989) C compiler
c99 - ANSI (1999) C compiler

calendar - reminder service
cal, ncal - displays a calendar and the date of easter
cancel - cancel jobs
captainfo - convert a termcap description into a terminfo description
card - print reference card of program options
catchsegv - Catch segmentation faults in programs
cat - concatenate files and print on the standard output
catman - create or update the pre-formatted manual pages
cdparanoia - an audio CD reading utility which includes extra data ver
cdrdao - reads and writes CDs in disc-at-once mode
cfdisk - Curses/slang based disk partition table manipulator for Linux
c++filt - Demangle C++ and Java symbols.
chage - change user password expiry information
charmap - character symbols to define character encodings
charset - Set an ACM for use in one of the G0/G1 charset slots.
chat - Automated conversational script with a modem
chattr - change file attributes on a Linux second extended file system
chcon - change file security context
check_forensic - tool to extract mod_log_forensic output from apache
checkgid - checks the gid
cheese - A tool to take pictures and videos from your webcam
cherokee-admin - Runs Cherokees administrative interface
cherokee - Cherokee web server
cherokee-guardian - Cherokee web server safe invoker
cherokee_tweak - Command-line interface to the Cherokee administrative
chfn - change real user name and information
chgpaswd - update group passwords in batch mode
chgrp - change group ownership
chkdupexe - find duplicate executables
chmod - change file mode bits
chown - change file owner and group
chpasswd - update passwords in batch mode
chroot - run command or interactive shell with special root directory
chrt - manipulate real-time attributes of a process
chsh - change login shell
chvt - change foreground virtual terminal
cjpeg - compress an image file to a JPEG file
cksum - checksum and count the bytes in a file
clambc - Bytecode Testing Tool
clamscan - scan files and directories for viruses
Claws Mail - a GTK+ based fast email and news client
cleanup-info - clean up the mess that bogus install-info may have done
clear - clear the terminal screen
clear_console - clear the console
cmp - compare two files byte by byte
cmuwmtpbm - convert a CMU window manager bitmap into a portable bitmap
codepage - extract a codepage from an MSDOS codepage file
colcrt - filter nroff output for CRT previewing
col - filter reverse line feeds from input
colrm - remove columns from a file

column - columnate lists
combinediff - create a cumulative unified patch from two incremental
comm - compare two sorted files line by line
compare - mathematically and visually annotate the difference between
comp_err - compile MySQL error message file
compile_et - error table compiler
composeglyphs - generate an encoding vector or new font for postscript
composite - overlaps one image over another.
compress-dummy - manual page for compress-dummy - sharutils 4.6.3
config_data - Query or change configuration of Perl modules
conjure - interprets and executes scripts written in the Magick Script
consolechars - load EGA/VGA console screen font, screen-font map,
convert - convert between image formats as well as resize an image,
corelist - a commandline frontend to Module::CoreList
cpan2dist - The CPANPLUS distribution creator
cpan - easily interact with CPAN from the command line
cpanp - The CPANPLUS launcher
cp - copy files and directories
cpio - copy files to and from archives
cppw, cpgr - copy with locking the given file to the password or group
cpufreq-info - Utility to retrieve cpufreq kernel information
cpufreq-selector - tool to set CPU frequency
cpufreq-set - A small tool which allows to modify cpufreq settings.
c_rehash - Create symbolic links to files named by the hash values
cron - daemon to execute scheduled commands (Vixie Cron)
crontab - maintain crontab files for individual users (V3)
csplit - split a file into sections determined by context lines
csv2vcard - Convert a CSV-formatted list of contacts to vCards
ctangle, cweave - translate CWEB to C and/or TeX
ctie - merge or apply CWEB change files
ctrlaltdel - set the function of the Ctrl-Alt-Del combination
cupsaddsmb - export printers to samba for windows clients
cups-calibrate - ESP CUPS Printer Calibration Tool
cups-config - get cups api, compiler, directory, and link information.
cupsctl - configure cupsd.conf options
cupsd - common unix printing system daemon
cupsdconf A CUPS configuration tool
cupsdisable, cupsenable - stop/start printers and classes
cupsdoprint - KDE command line tool to print files via CUPS
cupsfilter - convert a file to another format using cups filters
cups-genppdconfig - a user-friendly interface to generate Gutenprint
cups-genppd - generate Gutenprint PPD files for use with CUPS
cups-genppdupdate - update CUPS+Gutenprint PPD files
cupsprofile - cups simple profiling tool
cupstestdsc - test conformance of postscript files
cupstestppd - test conformance of ppd files
cut - remove sections from each line of files
cvt - calculate VESA CVT mode lines
cytune - Tune driver parameters for Cyclades-Z multiport serial card
dasher - graphical predictive text entry system

date - print or set the system date and time
dbilogstrip - filter to normalize DBI trace logs for diffing
dbiprof - command-line client for DBI::ProfileData
dbiproxy - A proxy server for the DBD::Proxy driver
dbmmanage - Manage user authentication files in DBM format
dbus-cleanup-sockets - clean up leftover sockets in a directory
dbus-daemon - Message bus daemon
dbus-launch - Utility to start a message bus from a shell script
dbus-monitor - debug probe to print message bus messages
dbus-send - Send a message to a message bus
dbus-uuidgen - Utility to generate UUIDs
dc - an arbitrary precision calculator
dccleanrw - Canon (CRW) RAW photo file recovery utility
dcfujigreen - Alternative processing for Fuji RAW images
dcfujiturn/dcfujiturn16 - Alternative rotation for dcraw processed
dcoclient - extracts the application id from a DCOP reference of a KDE
dcop Console DCOP client
dcofind Find the DCOP reference of a KDE service
dcoobject - extracts the object id from a DCOP reference of a KDE ser
dcoquit - terminates a KDE service
dcopref - creates a DCOP reference of a KDE service from application id
dcopserver KDE DCOP server
dcopserver_shutdown - shuts down the KDE DCOP service
dcoptart Start a KDE service and return its DCOP reference
dcpase - Extract embeded thumbnail image and print CIFF/TIFF data to
dcraw - command-line decoder for raw digital photos
ddate - converts Gregorian dates to Discordian dates
dd - convert and copy a file
deallocvt - deallocate unused virtual terminals
debconf-apt-progress - install packages using debconf to display a
debconf-communicate - communicate with debconf
debconf-copydb - copy a debconf database
debconf-escape - helper when working with debconfs escape capability
debconf-gettextize - extract translations of debconf templates into PO
debconf - run a debconf-using program
debconf-set-selections - insert new default values into the debconf
debconf-show - query the debconf database
debconf-updatepo - update PO files about debconf templates
debmirror - Debian partial mirror script, with ftp, http, hftp or rsync
debugfs - ext2/ext3 file system debugger
defoma-app - configure a specific application about fonts registered in
defoma - Debian Font Manager, a framework for automatic font configura
defoma-font - register/unregister font(s) to Debian Font Manager
defoma-hints - generate font hints.
defoma-id - Manage id-cache of Debian Font Manager
defoma-psfont-installer - register fonts installed in a PostScript
defoma-reconfigure - Reconfigure all from zero.
defoma-subst - Modify a rulefile of Defoma font substitution system.
defoma-user - Debian Font Manager for users
dehtmldiff - get usable diff from an HTML page

delpart - simple wrapper around the "del partition" ioctl
deluser, delgroup - remove a user or group from the system
depmod program to generate modules.dep and map files.
desktop-file-install - install a desktop file to the applications
desktop-file-validate - validate a .desktop file
detex - a filter to strip TeX commands from a .tex file.
detox - clean up filenames
devdump, isoinfo, isovfy, isodump - Utility programs for dumping and
dexconf - generate Xorg X server configuration file from debconf data
df - report file system disk space usage
dh_auto_build - automatically builds a package
dh_auto_clean - automatically cleans up after a build
dh_auto_configure - automatically configure a package prior to building
dh_auto_install - automatically runs make install or similar
dh_auto_test - automatically runs a packages test suites
dh_bash-completion - install bash completions for package
dh_builddeb - build debian binary packages
dh_clean - clean up package build directories
dhclient - Dynamic Host Configuration Protocol Client
dhclient-script - DHCP client network configuration script
dh_compress - compress files and fix symlinks in package build
dhcpcd - an RFC 2131 compliant DHCP client
dhcpcd - a wrapper for the DHCP client daemon.
dh - debhelper command sequencer
dh_desktop - Register .desktop files
dh_fixperms - fix permissions of files in package build directories
dh_gconf - generate GConf schema registration scripts
dh_gencontrol - generate and install control file
dh_gtkmodules - create Gtk module files for Gtk modules
dh_icons - Update freedesktop icon caches
dh_installcatalogs - install and register SGML Catalogs
dh_installchangelogs - install changelogs into package build
dh_installcron - install cron scripts into etc/cron.*
dh_installdebconf - install files used by debconf in package build
dh_installdeb - install files into the DEBIAN directory
dh_installdefoma - install a defoma related scripts
dh_installdirs - create subdirectories in package build directories
dh_installdocs - install documentation into package build directories
dh_installemacs - register an emacs add on package
dh_installexamples - install example files into package build
dh_installifupdown - install if-up and if-down hooks
dh_installinfo - install and register info files
dh_installinit - install init scripts into package build directories
dh_install - install files into package build directories
dh_installlogcheck - install logcheck rulefiles into etc/logcheck/
dh_installlogrotate - install logrotate config files
dh_installman - install man pages into package build directories
dh_installmanpages - old-style man page installer
dh_installmenu - install debian menu files into package build
dh_installemime - install mime files into package build directories

dh_installmodules - register modules with modutils
dh_installpam - install pam support files
dh_installppp - install ppp ip-up and ip-down files
dh_installtex - register Type 1 fonts, languages, or formats with TeX
dh_installudev - install udev rules files
dh_installwm - register a window manager
dh_installxfonts - register X fonts
dh_installxmlcatalogs - install and register XML catalog files
dh_link - create symlinks in package build directories
dh_lintian - install lintian override files into package build
dh_listpackages - list binary packages debhelper will act on
dh_makeshlibs - automatically create shlibs file and call
dh_md5sums - generate DEBIAN/md5sums file
dh_movefiles - move files out of debian/tmp into subpackages
dh_pangomodules - create a Pango Module file for all Pango modules
dh_perl - calculates perl dependencies and cleans up after MakeMaker
dh_prep - perform cleanups in preparation for building a binary package
dh_pycentral - use the python-central framework to handle Python
dh_pysupport - use the python-support framework to handle Python
dh_python - calculates python dependencies and adds postinst and premd
dh_scrollkeeper - generate ScrollKeeper registration scripts
dh_shlibdeps - calculate shared library dependencies
dh_strip - strip executables, shared libraries, and some static
dh_suidregister - obsolete suid registration program
dh_testdir - test directory before building debian package
dh_testroot - ensure that a package is built as root
dh_testversion - ensure that the correct version of debhelper is
dh_undocumented - obsolete undocumented.7 symlink program
dh_usrlocal - migrate usr/local directories to maintainer scripts
diagnostics, splain - produce verbose warning diagnostics
dialog - display dialog boxes from shell scripts
diff3 - compare three files line by line
diff - compare files line by line
diffpp - pretty-print diff outputs with GNU enscript
dig - DNS lookup utility
dircolors - color setup for ls
directfb-config - script to get information about the installed version
directfb-csource - C code generation utility for DirectFB surfaces
dir - list directory contents
dirname - strip non-directory suffix from file name
dirsplit - splits directory into multiple with equal size
display - displays an image or image sequence on any X server.
djpeg - decompress a JPEG file to an image file
dmesg - print or control the kernel ring buffer
dmidecode - DMI table decoder
dosfsck - check and repair MS-DOS file systems
dosfslabel - set or get a MS-DOS filesystem label
dotlockfile - Utility to manage lockfiles
dpatch-convert-diffgz - Convert a debian .diff.gz to a dpatch file
dpatch-edit-patch - maintain dpatch patches for a Debian source package

dpatch-get-origtargz - Obtain upstream tarball
dpatch-list-patch - List available patches
dpatch - patch maintenance system for Debian
dpkg-architecture - set and determine the architecture for package
dpkg-buildpackage - build binary or source packages from sources
dpkg-checkbuilddeps - check build dependencies and conflicts
dpkg-deb - Debian package archive (.deb) manipulation tool
dpkg-distaddfile - add entries to debian/files
dpkg-divert - override a packages version of a file
dpkg-genchanges - generate Debian .changes files
dpkg-gencontrol - generate Debian control files
dpkg-gensymbols - generate symbols files (shared library dependency
dpkg-name - rename Debian packages to full package names
dpkg - package manager for Debian
dpkg-parsechangelog - parse Debian changelog files
dpkg-preconfigure - let packages ask questions prior to their
dpkg-query - a tool to query the dpkg database
dpkg-reconfigure - reconfigure an already installed package
dpkg-scanpackages - create Packages index files
dpkg-scansources - create Sources index files
dpkg-shlibdeps - generate shared library substvar dependencies
dpkg-source - Debian source package (.dsc) manipulation tool
dpkg-split - Debian package archive split/join tool
dpkg-statoverride - override ownership and mode of files
dpkg-trigger - a package trigger utility
dprofpp - display perl profile data
drkonqi - KDE crash handler gives the user feedback if a program
dt2dv - convert a DTL text representation of a TeX DVI file to a binary
du - estimate file space usage
dumpe2fs - dump ext2/ext3 filesystem information
dumpkeys - dump keyboard translation tables
dumpsexp - Debug tool for S-expressions
dv2dt - convert a binary TeX DVI file to DTL text representation
dvd+rw-booktype - format DVD+-RW/-RAM disk with a logical format
dvd+rw-format - format DVD+-RW/-RAM disk
dvd+rw-mediainfo - display information about dvd drive and disk
dvi2fax - convert a TeX DVI file to G3 fax format
dvibook - rearrange pages in DVI file into signatures
dviconcat - concatenate DVI files
dvicopy - produce modified copy of DVI file
dvidvi - selects and/or re-arranges pages in a TeX dvi file
dvihp - convert a TeX DVI file to Hewlett-Packard PCL
dvilj4, dvilj4l, dvilj2p, dvilj - convert a TeX DVI file to PCL, for HP
dvipdf - Convert TeX DVI file to PDF using ghostscript and dvips
dvipdfm - Produce PDF files directly from DVI files
dvipdfm - create thumbnail images for use with dvipdfm
dvipos - compute positions in a DVI file
dvips - convert a TeX DVI file to PostScript
dvired - print dvi-files
dviselect - extract pages from DVI files

dvitodvi - rearrange pages in a DVI file
dvitype - translate a dvi file for humans
dwell-click-applet - Useful to select click type when using dwell click
e2fsck - check a Linux ext2/ext3 file system
e2image - Save critical ext2/ext3 filesystem metadata to a file
e2label - Change the label on an ext2/ext3 filesystem
e2pall - convert all EPS files in a LaTeX document to PDF
e2undo - Replay an undo log for an ext2/ext3/ext4 filesystem
ebb - extract a bounding box from JPEG, PNG, and PDF files
echo - display a line of text
editres - a dynamic resource editor for X Toolkit applications
ed, red - text editor
eject - eject removable media
ekiga-config-tool - Ekiga GConf Setup Configuration Assistant.
Ekiga - SIP and H.323 Voice over IP and Videoconferencing for UN*X
emacsclient - tells a running Emacs to visit a file
emacs - GNU project Emacs
enc2xs -- Perl Encode Module Generator
Enchant - a spellchecker
enscript - convert text files to PostScript, HTML, RTF, ANSI, and over
env - run a program in a modified environment
envsubst - substitutes environment variables in shell format strings
eog - a GNOME image viewer
epiphany - simple to use web browser for GNOME
epsffit - fit encapsulated PostScript file (EPSF) into constrained size
epstopdf - convert an EPS file to PDF
eqn2graph - convert an EQN equation into a cropped image
eqn - format equations for troff
espeak - A multi-lingual software speech synthesizer.
etags, ctags - generate tag file for Emacs, vi
etex, einitex, evirtex - extended TeX
evince - GNOME document viewer
evince-thumbnailer - create png thumbnails from PostScript and PDF doc
evolution-addressbook-export - export addressbook content from Evolution
evolution - groupware suite for GNOME containing e-mail, calendar,
exicyclog - Cycle exims logfiles
exifautotran - Transforms Exif files so that Orientation becomes 1
EXIGREP - Search Exims main log
exim4 - a Mail Transfer Agent
exim_checkaccess - Check address acceptance from given IP
exim_convert4r4 - Convert Exim configuration from v3 to v4 format
exim_db - Manage Exims hint databases (exim_dumpdb, exim_fixdb,
exim_dbmbuild - Build a DBM file.
exim_lock - Mailbox maintenance
eximstats - generates statistics from Exim mainlog or syslog files.
exinext - Finding individual retry times
exipick - selectively display messages from an Exim queue
exiqgrep - Search in the exim queue
exiqsumm - Summarising the queue
exiwhat - Finding out what Exim processes are doing

expand - convert tabs to spaces
expiry - check and enforce password expiration policy
expr - evaluate expressions
extcompose - Compose a reference to external data for inclusion in a
extensionproxy - KDE kicker panel extension proxy
extractres - filter to extract resources from a PostScript document
eyuvtoppm - convert a Berkeley YUV file to a portable pixmap file
factor - factor numbers
faillog - display faillog records or set login failure limits
faked - daemon that remembers fake ownership/permissions of files
fakeroot - run a command in an environment faking root privileges for
false - do nothing, unsuccessfully
famd - The File Alteration Monitor (FAM) daemon
fastjar - archive tool for Java archives
fc-cache - build font information cache files
fc-cat - read font information cache files
fc-list - list available fonts
fc-match - match available fonts
fdformat - Low-level formats a floppy disk
fdisk - Partition table manipulator for Linux
festival - a text-to-speech system.
festival_client - client access to festiva; text-to-speech server mode
fetchmail - fetch mail from a POP, IMAP, ETRN, or ODMR-capable server
ffmpeg - FFmpeg video converter
ffplay - FFplay media player
ffserver - FFserver video server
fgconsole - print the number of the active VT.
fiascotopnm - Convert compressed FIASCO image to PGM, or PPM
file - determine file type
filefrag - report on file fragmentation
File Roller - archive manager for GNOME
fileshareset, filesharelist - add/remove/list NFS and Samba file shares
filterdiff - extract or exclude diffs from a diff file
find2perl - translate find command lines to Perl code
findfs - Find a filesystem by label or UUID
find - search for files in a directory hierarchy
findsmb - list info about machines that respond to SMB name queries on
finger - user information lookup program
fitstopnm - convert a FITS file into a portable anymap
fix_bs_and_del - Fix the Delete and BackSpace keys on a console
fixcvsdiff - fix problematic diff files
fixdlsrps - filter to fix DviLaser/PS documents to work with PSUtils
fixfmps - filter to fix Framemaker documents so PSUtils work
fixmacps - filter to fix Macintosh documents with saner version of md
fixnt - Filter for the Windows NT postscript printer driver.
fixpsditps - filter to fix Transcript psdit documents so PSUtils work
fixpspps - filter to fix PSPrint PostScript so PSUtils work
fixps - sanitize PostScript files
fixscribeps - filter to fix Scribe documents so PSUtils work
fixtpps - filter to fix Tpscript documents to work with PSUtils

fixwfwps - filter to fix Word for Windows documents so PSUtils work
fixwpps - filter to fix WP documents so PSUtils work
fixwwps - filter to fix Windows Write documents so PSUtils work
flipdiff - exchange the order of two incremental patches
flock - Manage locks from shell scripts
fmt - simple optimal text formatter
fmtutil - utility for maintaining TeX format files
fold - wrap each input line to fit in specified width
font2c - Write PostScript Type 0 or Type 1 font as C code
font2psf - convert a 256-character fonts to PSF format
fontinst - utility to run TeX as fontinst
fonttosfnt - Wrap a bitmap font in a sfnt (TrueType) wrapper
foo2hp2600-wrapper - part of the printer driver foo2zjs
foo2lava - Convert Ghostscript pbmraw or bitcmyk format into a LAVAFLOW
foo2lava-wrapper - Convert Postscript into a LAVAFLOW printer stream
foo2oak-wrapper - Convert Postscript into an OAKT printer stream
foo2xqx - Convert Ghostscript pbmraw into a XQX printer stream
foo2xqx-wrapper - Convert Postscript into a XQX printer stream
foo2zjs - Convert Ghostscript pbmraw or bitcmyk format into a ZJS
foo2zjs-icc2ps - part of the printer driver foo2zjs
foo2zjs-wrapper - Convert Postscript into a ZJS printer stream
foomatic-addpjloptions - Format PJI option information the for foomatic
foomatic-combo-xml - <put a short description here>
foomatic-compiledb - Compile the Foomatic printer/driver database
foomatic-configure - the main configuration program of the foomatic
foomatic-getpjloptions - <put a short description here>
foomatic-gswrapper - foomatic wrapper for ghostscript
foomatic-kitload - installs a data kit into the foomatic database.
foomatic-perl-data - generate Perl data structures from XML
foomatic-ppdfile - Generate a PPD file for a given printer/driver combo
foomatic-ppd-options - show the PPD options
foomatic-preferred-driver - <put a short description here>
foomatic-printjob - manage printer jobs in a spooler-independent fash
foomatic-rip - Universal print filter/RIP wrapper
formail - mail (re)formatter
free - Display amount of free and used memory in the system
freetype-config show information about installed freetype2 libraries
freshclam - update virus databases
fribidi - a command line interface for the fribidi library, converts a
from - print names of those who have sent mail
fsck - check and repair a Linux file system
fsck.minix - a file system consistency checker for Linux
fsck.nfs - Dummy fsck.nfs script that always returns success.
fslsfonts - list fonts served by X font server
f-spot - A program to manage a photo collection
fstobdf - generate BDF font from X font server
fstopgm - convert a Usenix FaceSaver(tm) file into a portable graymap
ftp - Internet file transfer program
funzip - filter for extracting from a ZIP archive in a pipe
fuser - identify processes using files or sockets

g3topbm - convert a Group 3 fax file into a portable bitmap
gacutil - Global Assembly Cache management utility.
gawk - pattern scanning and processing language
gcalctool - a desktop calculator
gccbug - Reporting GCC Bugs
gconf-editor - an editor for the GConf configuration system
gconf-schemas - register gconf schemas with the gconf database
gconftool-2 - GNOME configuration tool
gda-config-tool-3.0 - Tool for managing libgda configuration file.
gdk-pixbuf-csource - C code generation utility for GdkPixbuf images
gdk-pixbuf-query-loaders - GdkPixbuf loader registration utility
gdmflexiserver - start a GDM session using the GDM flexible server
GDM - The GNOME Display Manager
gedit - text editor for the GNOME Desktop
gemtopnm - convert a GEM .img file into a portable anymap
gencat - Generate message catalog
genisoimage - create ISO9660/Joliet/HFS filesystem with optional Rock
getafm - create an AFM file for a PostScript font.
getconf - Query system configuration variables
geteltorito - an El Torito boot image extractor
getent - get entries from administrative database
getfilename - Ask the user to name a file in a given format
gethostip convert an IP address into various formats
geticonset - gets the current Window Maker iconset
getkeycodes - print kernel scancode-to-keycode mapping table
getnonfreefonts - download and install fonts which cannot be dis
getopt - parse command options (enhanced)
getstyle - dumps the current Window Maker style related configuration
getttextize - install or upgrade gettext infrastructure
gettext - translate message
gfloppy - a simple floppy formatter for the GNOME
gftodvi - make proof sheets from generic font files
gftopk - convert generic font files to packed font files
gftype - translate a generic font file for humans to read
giftopnm - convert a GIF file into a portable anymap
gimp - an image manipulation and paint program.
gimp-remote - tells a running GIMP to open a (local or remote) image
ginstall-info - update info/dir entries
gkeytool - Manage private keys and public certificates
gksu - GTK+ frontend for su and sudo
glib-genmarshal - C code marshaller generation utility for GLib
glib-gettextize - gettext internationalization utility
glib-mkenums - C language enum description generation utility
gnome-about - The Gnome about box.
gnome-app-install - Application Installer gnome-codec-install - Codec
gnome-app-install-helper - Helper for the Application Installer
GNOME Character map - Unicode character picker and font browser
gnome-control-center Desktop properties manager
gnome-desktop-item-edit tool to edit .desktop file
gnome-dictionary - Look up words on dictionaries

gnome-keyboard-properties - manage keyboard behaviour in GNOME
gnome-keyring-daemon - keep password and other secrets for users
gnome-mount - Mount drives and volumes using HAL and read settings from
gnome-panel - display the GNOME panel
gnome-power-manager - gnome power manager userspace daemon
gnome-power-preferences - gnome power preferences gui
gnome-power-statistics - gnome power statistics gui
gnome-screensaver-command - controls GNOME screensaver
GNOME Screensaver Preferences - configure GNOME Screensaver
GNOME Screensaver - screen saver and locker
gnome-screenshot - capture screen or window and save the image to a
gnome-search-tool - the GNOME Search Tool
gnome-session-remove - Remove or list applications in the current GNOME
gnome-session-save - Saves the current GNOME session (or terminates it)
gnome-session - Starts up the GNOME desktop environment
gnome-sound-recorder - simple sound recorder
gnome-system-log - the GNOME System Log Viewer
gnome-system-monitor view and control processes
gnome-terminal is a terminal emulation application.
gnome-volume-control - Sound volume controller
gnome-volume-properties - configure the gnome-volume-manager daemon.
gnome-wm - Launches the user selected window manager for the GNOME ses
gnumeric - a GNOME spreadsheet application.
gnuplot - an interactive plotting program
gobject-query - display a tree of types
gorbd - - An object request broker daemon
gouldtoppm - convert Gould scanner file into a portable pixmap
gparted - Front-end to parted for manipulating disk partitions
gpasm - GNU PIC assembler
gpasswd - administer the /etc/group and /etc/gshadow files
gpdasm - GNU PIC disassembler
gpg-convert-from-106 - converts your public keyring and trustdb from
gpg-error - program to convert GnuPG error numbers to text
gpg - OpenPGP encryption and signing tool
gpgsplit - Split an OpenPGP message into packets
gpgv - Verify OpenPGP signatures
gpgzip - encrypt or sign files into an archive
gplib - GNU PIC librarian
gplink - GNU PIC linker
gprof - display call graph profile data
gpstrip - discard symbols from object file
gpvc - GNU PIC COD file viewer
gpvo - GNU PIC object file viewer
GQview - GTK based multiformat image viewer
grepdiff - show files modified by a diff containing a regex
grep, egrep, fgrep, rgrep - print lines matching a pattern
grepjar - search files in a jar file for a pattern
grmid - - RMI activation system daemon
grmiregistry - - Remote object registry
grn - groff preprocessor for gremlin files

grodvi - convert groff output to TeX dvi format
groffer - display groff files and man pages on X and tty
groff - front-end for the groff document formatting system
grog - guess options for groff command
grohtml - html driver for groff
grolbp - groff driver for Canon CAPSL printers (LBP-4 and LBP-8 series)
grolj4 - groff driver for HP Laserjet 4 family
grops - PostScript driver for groff
grotty - groff driver for typewriter-like devices
groupadd - create a new group
groupdel - delete a group
groupmod - modify a group definition on the system
groups - print the groups a user is in
growisofs - combined genisoimage frontend/DVD recording program.
grpck - verify integrity of group files
grub-install - install GRUB on your drive
grub-md5-crypt - Encrypt a password in MD5 format
grub-reboot - manual page for grub-reboot 0.01
grub-set-default - Set the default boot entry for GRUB
grub-terminfo - Generate a terminfo command from a terminfo name
grub - the grub shell
gserialver - version command
gsftopk - render a ghostscript font in TeX pk form
gs - Ghostscript (PostScript and PDF language interpreter and pre
gs - Format and print text using ghostscript
gsnd - Run ghostscript (PostScript and PDF engine) without display
gst-feedback - generate debug info for GStreamer bug reports
gst-inspect - print info about a GStreamer plugin or element
gst-launch - build and run a GStreamer pipeline
gststreamer-properties - Multimedia systems selector
gst-typefind - print MIME type of file
gst-xmllaunch - build and run a GStreamer pipeline from an XML serial
gtf - calculate VESA GTF mode lines
gThumb - an image viewer and browser for GNOME
gtk-query-immodules-2.0 - Input method module registration utility
gtk-update-icon-cache - Icon theme caching utility
gv - Postscript and PDF viewer
gxditview - display gtroff output files
gzexe - compress executable files in place
gzip, gunzip, zcat - compress or expand files
h2ph - convert .h C header files to .ph Perl header files
h2xs - convert .h C header files to Perl extensions
hald - HAL daemon
hal-disable-polling - disable polling on drives with removable media
hal-find-by-capability - find device objects by capability matching
hal-find-by-property - find device objects by property matching
hal-get-property - get a property from a device object
hal-is-caller-locked-out - determine if a caller is locked out
hal-lock - lock an interface
hal-set-property - set a property on a device object

halt, reboot, poweroff - stop the system.
hardinfo - shows hardware information in a GTK+ window
hdparm - get/set SATA/ATA device parameters
head - output the first part of files
helpztags - generate the help tags file for directory
hexdump, hd - ASCII, decimal, hexadecimal, octal dump
hipstopgm - convert a HIPS file into a portable graymap
host - DNS lookup utility
hostid - print the numeric identifier for the current host
hostname - show or set the systems host name
hpftodit - create font description files for use with groff -Tlj4
hpijs - HP IJS server for the GhostScript IJS client driver
hsqldb-databasemanager - GUI database management tool
hsqldb-databasemanagerswing - GUI database management tool
hsqldb-querytool - GUI database management tool
hsqldb-sqltool - JDBC database console frontend
hsqldb-transfer - transfers data from one JDBC database to another
htcacheclean - Clean up the disk cache
htdbm - Manipulate DBM password databases
htdigest - manage user files for digest authentication
html2text - an advanced HTML-to-text converter
htpasswd - Manage user files for basic authentication
htttxt2dbm - Generate dbm files for use with RewriteMap
hwclock - query and set the hardware clock (RTC)
iceauth - ICE authority file utility
iceweasel - a Web browser for X11 derived from the Mozilla browser
icontopbm - convert a Sun icon into a portable bitmap
iconvconfig - Create fastloading iconv module configuration file
iconv - Convert encoding of given files from one encoding to another
identify - describes the format and characteristics of one or more
id - print user identity
iecset - Set or dump IEC958 status bits
ifconfig - configure a network interface
ifnames - Extract CPP conditionals from a set of files
ifup - bring a network interface up
igawk - gawk with include files
ijsgutenprint - Ghostscript driver for Gutenprint
ilbmtoppm - convert an ILBM file into a portable pixmap
imagetops - generic image to ps filter
imgtoppm - convert an Img-whatnot file into a portable pixmap
imlib-config - Display Imlib and GDK-Imlib Library Configuration
import - saves any visible window on an X server and outputs it as an
includeres - filter to include resources in a PostScript document
indxbib - make inverted index for bibliographic databases
inetd - internet super-server
infocmp - compare or print out terminfo descriptions
infokey - compile customizations for Info
info - read Info documents
infotocap - convert a terminfo description into a termcap description
init, telinit - process control initialization

Inkscape - an SVG (Scalable Vector Graphics) editing program.
inkview - slideshow program which uses SVG files
innochecksum - offline InnoDB file checksum utility
innotop - MySQL and InnoDB transaction/status monitor.
insmod simple program to insert a module into the Linux Kernel
install - copy files and set attributes
install-docs - manage online Debian documentation
install-info - create or update entry in Info dir file
installkernel - install a new kernel image
install-keymap expand a given keymap and install it as boot-time
install-menu - Process a menu method and generate the menu files for a
install-sgmlcatalog - maintain transitional SGML catalog
instmodsh - A shell to examine installed modules
interdiff - show differences between two diff files
intltool-extract - generate header files which can be read by gettext
intltoolize - copy intltool related files to software package
intltool-merge - merge translated strings into various types of file
intltool-prepare - Prepare software to make use of intltool
intltool-update - updates PO template file and merge translations with
invoke-rc.d - executes System-V style init script actions
ionice - get/set program io scheduling class and priority
ip6tables - IPv6 packet filter administration
ip6tables-restore - Restore IPv6 Tables
ip6tables-save - Save IPv6 Tables
ipcrm - remove a message queue, semaphore set or shared memory id
ipcs - provide information on ipc facilities
ip - show / manipulate routing, devices, policy routing and tunnels
iptables - administration tool for IPv4 packet filtering and NAT
iptables-apply - a safer way to update iptables remotely
iptables-restore - Restore IP Tables
iptables-save - Save IP Tables
iptables-xml - Convert iptables-save format to XML
isosize - outputs the length of a iso9660 file system
ispell-autobuildhash - Autobuilding the ispell hash file for some dicts
ispell, buildhash, munchlist, findaffix, tryaffix, icombine, ijoin -
ispell-wrapper - smart wrapper for ispell
iwconfig - configure a wireless network interface
iwevent - Display Wireless Events generated by drivers and setting
iwgetid - Report ESSID, NWID or AP/Cell Address of wireless network
iwlist - Get more detailed wireless information from a wireless inter
iwpriv - configure optionals (private) parameters of a wireless network
iwspy - Get wireless statistics from specific nodes
Java IDL: Transient Naming Service - tnameserv
javaws - a Java Web Start client
join - join lines of two files on a common field
jpeg2yuv - Convert jpeg images to the yuv format.
jpegexiforient - reads or writes the Exif Orientation Tag
jpegtopnm - convert JPEG/JFIF file to portable pixmap or graymap
jpegtran - lossless transformation of JPEG files
kab2kabc - KDE address book converter

kabc2mutt - kabc to mutt converter
kaddprinterwizard Start the add printer wizard
kaddressbook - The KDE Address Book
kaffeine - A media player for KDE that can use multiple backends for
kasbar - An alternative task manager
kbd-config - Configure the console keyboard
kbd_mode - report or set the keyboard mode
kbrate - reset the keyboard repeat rate and delay time
kblankscreen.kss - KDE screensaver which shows a blank screen
kbuildsycoca Rebuilds the system configuration cache
kcheckpass - The KCheckPass authentication software
kcmshell - runs startups initialization for Control Modules.
kcmshell - tool to start single KDE control modules
kconf_update KDE Tool for updating user configuration files
kcookiejar HTTP Cookie Daemon
kdcop - A graphical DCOP browser/client
kdebugdialog - A dialog box for setting preferences for debug output
kde-config A little program to output installation paths
kded triggers Sycoca database updates when needed
kdeinit - KDE process launcher
kdeinit_shutdown - shuts down kdeinit master process
kdeinit_wrapper, kshell, kwrapper - start applications via kdeinit
kde-menu - KDE Menu query tool.
kdesu - Runs a program with elevated privileges.
kdesu_stub - used by KDE su
kdialog - Show KDE dialog boxes from shell scripts
kdontchangethehostname Informs KDE about a change in hostname
keditbookmarks - Konqueror Bookmark Editor
kerneloops - program to collect and submit kernel oopses to ker
kernel-packageconfig - Internal handler of /etc/kernel-pkg.conf.
keytool - Key and Certificate Management Tool
kfile A commandline tool to read and modify metadata of files
kfind - KDE find tool
kfmclient - KDE tool for opening URLs from the command line
kgrantpty - KDE helper program to fix terminal permissions
khotkeys - daemon to bind actions to triggers and conditions
khotnewstuff - KDE tool to test GHNS repositories
kicker - The KDE panel
killall5 -- send a signal to all processes.
killall - kill processes by name
kill - send a signal to a process
kinstalltheme KDE Tool to build a cache list of all pixmap themes
kioexec, kfmexec - open remote files, watch modifications, ask for
kio_http_cache_cleaner KDE HTTP cache maintenance tool
kio_media_mounthelper - kio_media_mounthelper
kio_system_documenthelper - KDE helper script used by document.desktop
kio_uiserver KDE Progress Information UI Server
klauncher - daemon for service activation in KDE
kmailservice mail service
kmk - framework for writing simple makefiles for complex tasks

knetattach - KDE Network Wizard
koi8rxterm - X terminal emulator for KOI8-R environments
konqueror - Web browser, file manager, ...
kpac_dhcp_helper - KDE helper program for automatic proxy discovery via
kypseaccess - determine whether a file can be accessed
kpsereadlink - print contents of symbolic link
kpsestat - compute octal mode from mode of existing file
kpsetool - script to make teTeX-style kpsetool, kpsexpand, and kpsepath
kpsewhere - Expanding kpsewhich to separately iterate over each texmf
kpsewhich - standalone path lookup and expansion for kpathsea
krandom.kss - Start a random KDE screen saver
krb5-config - tool for linking against MIT Kerberos libraries
kreadconfig - Read KConfig entries (for use in shell scripts)
ksendbugemail Sends a short bug report to submit@bugs.kde.org
kstartupconfig, kdostartupconfig - KDE configuration options loader
kstart - Utility to launch applications with special window properties
ksystraycmd - Allows any application to be kept in the system tray
ktelnet service telnet service
ktradertest - A KTrader testing tool
ktrash - Helper program to handle the KDE trash can
kwriteconfig - Write KConfig entries (for use in shell scripts)
kxkb - A utility to switch keyboard maps
lacheck - A consistency checker for LaTeX documents.
lame - create mp3 audio files
laptop-detect - attempt to detect a laptop
last, lastb - show listing of last logged in users
lastlog - reports the most recent login of all users or of a given user
latex, elatex, lambda, pdflatex - structured text formatting and type
lav2mpeg - easy conversion of lav files to mpeg
lav2wav - Extract the audio out of MJPEG container files to stdout
lav2yuv - Convert a MJPEG file to raw yuv
lavdecode - Decode a XQX stream into human readable form.
lavpipe - creates raw YUV streams from pipe list scripts
lavplay - Playback and edit MJPEG video
lavrec - Record MJPEG-video from a zoran/video4linux-device
lavtrans - Convert MJPEG videos to other MJPEG video formats
lcf - Determine which of the historical versions of a config is
ldconfig - configure dynamic linker run-time bindings
ldd - print shared library dependencies
ld - The GNU linker
leaftoppm - convert Interleaf image format to a portable anymap
lessecho - expand metacharacters
lessfile, lesspipe - "input preprocessor" for less.
lesskey - specify key bindings for less
less - opposite of more
lexgrog - parse header information in man pages
libcrypt-config - script to get information about the installed ver
libglade-convert - Utility to convert old .glade files into new ones.
libgnutls-config, libgnutls-extra-config - script to get information
libgpg-error-config - script to get information about the installed

libgraphviz4-config-update - maintain libgraphvizs configuration file
libnetcfg - configure libnet
libpng12-config - get information about installed libpng library
libtasn1config - Get information about the installed location of lib
Liferea - RSS/RDF and Atom news aggregator
line - read one line
link - call the link function to create a link to a file
lispmtopgm - convert a Lisp Machine bitmap file into pgm format
listres - list resources in widgets
lkbib - search bibliographic databases
ln - make links between files
lstat - unified linux network statistics
lnusertemp tool to create KDE resources and symlinks to them
loadkeys - load keyboard translation tables
localedef - compile locale definition files
locale-gen generates localisation files from templates
locale - Get locale-specific information.
locate - find files by name
lockfile - conditional semaphore-file creator
lockfile-progs - command-line programs to safely lock and unlock files
logger - a shell command interface to the syslog(3) system log module
login - begin session on the system
logname - print users login name
logresolve - Resolve IP-addresses to hostnames in Apache log files
logrotate - rotates, compresses, and mails system logs
logsave - save the output of a command in a logfile
lookbib - search bibliographic databases
look - display lines beginning with a given string
lorder - list dependencies for object files
losetup - set up and control loop devices
lpadmin - configure cups printers and classes
lpc - line printer control program
lpinfo - show available devices or drivers
lpmove - move a job or all jobs to a new destination
lpoptions - display or set printer options and defaults
lppasswd - add, change, or delete digest passwords.
lp - print files
lpq - show printer queue status
lprm - cancel print jobs
lpr - print files
lpstat - print cups status information
lrelease - generate Qt message files from Qt Linguist translation files
lsattr - list file attributes on a Linux second extended file system
lsb_release - print distribution-specific information
lsdiff - show which files are modified by a patch
lshal - list HAL devices
ls - list directory contents
lsmod program to show the status of modules in the Linux Kernel
lsuf - list open files
lspci - list all PCI devices

lspgpot - extracts the ownertrust values from PGP keyrings and list
lss16toppm Convert an LSS-16 image to PPM
lsusb - list USB devices
luit - Locale and ISO 2022 support for Unicode terminals
lupdate - update Qt Linguist translation files
lwp-download - Fetch large files from the web
lwp-mirror - Simple mirror utility
lwp-request, GET, POST, HEAD - Simple command line user agent
lwp-rget - Retrieve web documents recursively
lxterm - locale-sensitive wrapper for xterm
lynx - a general purpose distributed information browser for the World
lz - gunzips and shows a listing of a gzipd tar archive
lzma, unlzma, lzip - LZMA compression and decompression tool
m4 - macro processor
macptopbm - convert a MacPaint file into a portable bitmap
Magick-config - get information about the installed version of
Magick++-config - get information about the installed version of Mag
MagickCore-config - get information about the installed version of
MagickWand-config - get information about the installed version of the
magnifier - GNOME Magnifier (gnome-mag)
mail, mailx, Mail - send and receive mail
mailshar, remsync, mail-files - GNU sharutils
mailstat - shows mail-arrival statistics
mailto - Simple multimedia mail sending program
MAKEDEV - create devices
make_driver_db_cups - create a printer database from ppd files
make_driver_db_lpr - create a printer database from aps filter database
make - GNU make utility to maintain groups of programs
makeindex - a general purpose, formatter-independent index processor
makeinfo - translate Texinfo documents
make-kpkg - build Debian kernel packages from Linux kernel sources
make-ssl-cert - Debconf wrapper for openssl
makestrs - makes string table C source and header(s)
man - an interface to the on-line reference manuals
mandb - create or update the manual page index caches
manpath - determine search path for manual pages
mawk - pattern scanning and text processing language
mbchk - check the format of a Multiboot kernel
mcheck - verify all files on an MS-DOS formatted disk
mcomp - Compares two files using mtools
mcookie - generate magic cookies for xauth
md5sum - compute and check MD5 message digest
mdatopbm - convert a Microdesign .mda or .mdp file into a portable
meinproc KDE Translator for XML
mesg - control write access to your terminal
METACITY-MESSAGE - a command to send a message to Metacity
METACITY - minimal GTK2 Window Manager
metacity-theme-viewer - view metacity themes
metacity-window-demo - demo of window features
metamail - infrastructure for mailcap-based multimedia mail handling

metasend - Crude interface for sending non-text mail
mf, mf-nowin, inifm, virmf - Metafont, a language for font and logo
mft - translate Metafont code to TeX code for prettyprinting
mgrtopbm - convert a MGR bitmap into a portable bitmap
mii-tool - view, manipulate media-independent interface status
mimeit - base64-encode stdin and mail it
mimencode - Translate to and from mail-oriented encoding formats
minicom - friendly serial communication program
mkafmmap - creates font map for AFM files
mkboot - makes a bootdisk
mkdir - make directories
mkdosfs - create an MS-DOS file system under Linux
mke2fs - create an ext2/ext3 filesystem
mkfifo - make FIFOs (named pipes)
mkfontdir - create an index of X font files in a directory
mkfontscale - create an index of scalable font files for X
mkfs.bfs - make an SCO bfs filesystem
mkfs - build a Linux file system
mkfs.minix - make a Linux MINIX filesystem
mkindex - script to process LaTeX index and glossary files
mkinitramfs-kpkg - generates an initramfs image for kernel-package
mkinitramfs - low-level tool for generating an initramfs image
mklost+found - create a lost+found directory on a mounted Linux second
mk_modmap - translate a Linux keytable file into an xmodmap file
mknod - make block or character special files
mkocp - frontend to otp2ocp(1)
mkofm - front end to mktextfm(1)
mkpasswd - Overfeatured front end to crypt(3)
mkswap - set up a Linux swap area
mktemp - make temporary filename (unique)
mktexlsr - create ls-R databases
mktexmf - create a Metafont source file
mktexpk - create a PK file for a font
mktextfm - create a TFM file for a font
mkzftree - Create a zisofs/RockRidge compressed file tree
mmroff - reference preprocessor
moc - generate Qt meta object support code
modinfo program to show information about a Linux Kernel module
modprobe program to add and remove modules from the Linux Kernel
module-assistant - manage kernel modules packages
mogrify - resize an image, blur, crop, despeckle, dither, draw on,
mono - Monos ECMA-CLI native code generator (Just-in-Time and Ahead-
montage - create a composite image by combining several separate
more - file perusal filter for crt viewing
mount - mount a file system
mount.nfs, mount.nfs4 - mount a Network File System
mountpoint - see if a directory is a mountpoint
mousetweaks - Accessibility enhancements for the mouse
mp2enc - Simple MPEG-1 layer-II audio encoder
mpeg2enc - MPEG-1/2 encoder

mpg123 - play audio MPEG 1.0/2.0/2.5 stream (layers 1, 2 and 3)
mpg321 Free clone of mpg123, a command-line mp3 player
mplayer - movie player
mplex - MPEG 1/2 program/system stream multiplexer
msgattrib - attribute matching and manipulation on message catalog
msgcat - combines several message catalogs
msgcmp - compare message catalog and template
msgcomm - match two message catalogs
msgconv - character set conversion for message catalog
msgen - create English message catalog
msgexec - process translations of message catalog
msgfilter - edit translations of message catalog
msgfmt - compile message catalog to binary format
msggrep - pattern matching on message catalog
msginit - initialize a message catalog
msgmerge - merge message catalog and template
msgunfmt - uncompile message catalog from binary format
msguniq - unify duplicate translations in message catalog
msql2mysql - convert mSQL programs for use with MySQL
mt - control magnetic tape drive operation
mtrace - Interpret output from MALLOC_TRACE
mtvtoppm - convert output from the MTV or PRT ray tracers into a
mute - use aumix to mute your soundcard
mutt_dotlock - Lock mail spool files.
mutt - The Mutt Mail User Agent
mv - move (rename) files
mxtar - Wrapper for using GNU tar directly from a floppy disk
myisamchk - MyISAM table-maintenance utility
myisam_ftdump - display full-text index information
myisamlog - display MyISAM log file contents
myisampack - generate compressed, read-only MyISAM tables
my_print_defaults - display options from option files
mysqlaccess - client for checking access privileges
mysqladmin - client for administering a MySQL server
mysqlbinlog - utility for processing binary log files
mysqlbug - MySQL bug reporting tool.
mysqlcheck - a table maintenance and repair program
mysql_client_test - test client API
mysql_config - get compile options for compiling clients
mysql_convert_table_format - convert tables to use a given storage
mysqld_multi - manage multiple MySQL servers
mysqld_safe - MySQL server startup script
mysqld - the MySQL server
mysqldump - a database backup program
mysqldumpslow - Parse and summarize the MySQL slow query log.
mysql_explain_log - use EXPLAIN on statements in query log
mysql_find_rows - extract SQL statements from files
mysql_fix_extensions - normalize table filename extensions
mysql_fix_privilege_tables - upgrade MySQL system tables
mysqlhotcopy - a database backup program

mysqlimport - a data import program
mysql_install_db - initialize MySQL data directory
mysqlmanager - the MySQL Instance Manager
mysqlreport - Makes a friendly report of important MySQL status values
mysql_secure_installation - improve MySQL installation security
mysql_setpermission - interactively set permissions in grant tables
mysqlshow - display database, table, and column information
mysql_tableinfo - generate database metadata
mysqltest - program to run test cases
mysql - the MySQL command-line tool
mysql_tzinfo_to_sql - load the time zone tables
mysql_upgrade - check tables for MySQL upgrade
mysql_waitpid - kill process and wait for its termination
mysql_zap - kill processes that match a pattern
naim - console mode chat client
NAME
nano - Nanos ANOther editor, an enhanced free Pico clone
Nautilus Connect Server - To Access a remote server
nautilus-file-management-properties - File Management Preferences
Nautilus - the GNOME File Manager
nc - TCP/IP swiss army knife
ndb_config - extract NDB configuration information
ndb_delete_all - delete all rows from NDB table
ndb_desc - describe NDB tables
ndb_drop_index - drop index from NDB table
ndb_drop_table - drop NDB table
nbd - the storage engine node process
ndb_error_reporter - NDB error-reporting utility
ndb_mgmd - the management server process
ndb_mgm - the management client process
ndb_restore - restore a Cluster backup
ndb_select_all - print rows from NDB table
ndb_select_count - print row counts for NDB tables
ndb_show_tables - display list of NDB tables
ndb_waiter - wait for cluster to reach a given status
neotoppm - convert an Atari Neochrome .neo into a portable pixmap
neqn - format equations for ascii output
netrik - The ANTRIK internet browser
net-snmp-config - returns information about installed net-snmp
netstat - Print network connections, routing tables, interface statis
net - Tool for administration of Samba and remote CIFS servers.
network-admin - Network Administration Tool
newgrp - log in to a new group
newusers - update and create new users in batch
nfsstat - list NFS statistics
ngettext - translate message and choose plural form
nice - run a program with modified scheduling priority
nip2 - image processing with the VIPS library
nl - number lines of files
nmblookup - NetBIOS over TCP/IP client used to lookup NetBIOS names

nm - list symbols from object files
nohup - run a command immune to hangups, with output to a non-tty
nologin - politely refuse a login
nroff - emulate nroff command with groff
nslookup - query Internet name servers interactively
nstat, rtacct - network statistics tools.
nsupdate - Dynamic DNS update utility
ntpdate-debian - set the date and time via NTP
ntpdate - set the date and time via NTP
objcopy - copy and translate object files
objdump - display information from object files.
oclock - round X clock
od - dump files in octal and other formats
ogg123 - plays Ogg Vorbis files
oggdec - simple decoder, Ogg Vorbis file to PCM audio file (WAV or
oggenc - encode audio into the Ogg Vorbis format
ogginfo - gives information about Ogg files, and does extensive valid
ogonkify - international support for PostScript
okidecode - Decode a ZjStream into human readable form
omshell - OMAPI Command Shell
on_ac_power - test whether computer is running on AC power
openssl - OpenSSL command line tool
openssl-vulnkey - check blacklist of compromised certificates, requests
openvt - start a program on a new virtual terminal (VT).
orbd - The Object Request Broker Daemon
orca - a screen reader / magnifier
over - pretty print and scroll source code on terminal
ownership - Compaq ownership tag retriever
p7zip - Wrapper on 7zr, a 7-zip file archiver with high compression
pack200 - JAR Packing tool
palmtopnm - convert a Palm pixmap into a portable anymap
pamcut - cut a rectangle out of a PAM, PBM, PGM, or PPM image
pamdeinterlace - remove ever other row from a PAM/PNM image
pamdice - slice a Netpbm image into many horizontally and/or vertically
pamfile - describe a Netpbm (PAM or PNM) file
pam_getenv - get environment variables from /etc/environment
pamoil - turn a PAM image into an oil painting
pamstack - stack planes of multiple PAM images into one PAM image
pamstretch-gen - use pamstretch and pnmscale to scale by non-integer
pamstretch - scale up a PNM or PAM image by interpolating between pix
pam_tally - The login counter (tallying) module
panel-test-applets display installed applets
pango-querymodules - Module registration utility
paps - UTF-8 to PostScript converter using Pango
partx - telling the kernel about presence and numbering of on-disk par
passwd - change user password
paste - merge lines of files
pat2ppm - Converts an image file from PAT to PPM format.
patch - apply a diff file to an original
patch-metamail - Install a patch to the latest metamail release

patextract - Extract a part of a PNG image file
patgen - generate patterns for TeX hyphenation
pathchk - check whether file names are valid or portable
pbmclean - flip isolated pixels in portable bitmap
pbmlife - apply Conways rules of Life to a portable bitmap
pbmmake - create a blank bitmap of a specified size
pbmmask - create a mask bitmap from a regular bitmap
pbmpage - create a one page test pattern for printing
pbmpscale - enlarge a portable bitmap with edge smoothing
pbmreduce - read a portable bitmap and reduce it N times
pbmtextps - render text into a bitmap via postscript
pbmtext - render text into a bitmap
pbmto10x - convert a portable bitmap into Gemini 10X printer graphics
pbmtoascii - convert a portable bitmap into ASCII graphics
pbmtoatk - convert portable bitmap to Andrew Toolkit raster object
pbmtobnbg - convert a portable bitmap into BitGraph graphics
pbmtocmwm - convert a portable bitmap into a CMU window manager bitmap
pbmtoepsi - convert a portable bitmap into an encapsulated PostScript
pbmtoepson - convert a portable bitmap into Epson printer graphics
pbmtog3 - convert a portable bitmap into a Group 3 fax file
pbmtogem - convert a portable bitmap into a GEM .img file
pbmtogo - convert a portable bitmap into compressed GraphOn graphics
pbmtoicon - convert a portable bitmap into a Sun icon
pbmtolj - convert a portable bitmap into HP LaserJet format
pbmtomacp - convert a portable bitmap into a MacPaint file
pbmtomda - convert a portable bitmap to a Microdesign .mda
pbmtomgr - convert a portable bitmap into a MGR bitmap
pbmtonokia - convert a portable bitmap to Nokia Smart Messaging Formats
pbmtopgm - convert portable bitmap to portable graymap by averaging
pbmtopi3 - convert a portable bitmap into an Atari Degas .pi3 file
pbmtoplot - convert a portable bitmap into a Unix plot(5) file
pbmtoppa - convert PBM image to HP Printer Performance Architecture
pbmtopsg3 - convert PBM images to Postscript with G3 fax compression
pbmtoptx - convert a portable bitmap into Printronix printer graphics
pbmtowbmp - convert a portable bitmap to a wireless bitmap (wbmp) file
pbmtox10bm - convert a portable bitmap into an X10 bitmap
pbmtoxbm - convert a portable bitmap into an X11 bitmap
pbmtoybm - convert a portable bitmap into a Bennet Yee "face" file
pbmtozinc - convert a portable bitmap into a Zinc bitmap
pbmupc - create a Universal Product Code bitmap
pcimodules - List kernel driver modules available for all currently
pcretest - a program for testing Perl-compatible regular expressions.
pcxtoppm - convert a PCX file into a portable pixmap
pdb2.5 - the Python debugger
pdf2dsc - generate a PostScript page list of a PDF document
pdf2ps - Ghostscript PDF to PostScript translator
PDFCROP - crop pdf files to their minimal size.
pdfetex, pdfeinitex, pdfvirtex - PDF output from e-TeX
pdffonts - Portable Document Format (PDF) font analyzer (version 3.00)
pdfimages - Portable Document Format (PDF) image extractor (version

pdftinfo - Portable Document Format (PDF) document information extractor
pdfopen, pdfclose - manual page for pdfopen 0.4: Acrobat Reader remote
pdfopt - Ghostscript PDF Optimizer
pdftex, pdfinitex, pdfvirtex - PDF output from TeX
pdftohtml - program to convert pdf files into html, xml and png images
pdftoppm - Portable Document Format (PDF) to Portable Pixmap (PPM) con
pdftops - Portable Document Format (PDF) to PostScript converter (ver
pdftotext - Portable Document Format (PDF) to text converter (version
pdiff - produce a pretty comparison between files
peekfd - peek at file descriptors of running processes
perlbug - how to submit bug reports on Perl
perlivp - Perl Installation Verification Procedure
perl - Practical Extraction and Report Language
perror - explain error codes
pf2afm - Make an AFM file from Postscript (PFB/PFA/PFM) font files
pfbtopfa - Convert Postscript .pfb fonts to .pfa format using
pfbtops - translate a PostScript font in .pfb format to ASCII
pg - browse pagewise through text files
pgmbentley - Bentleyize a portable graymap
pgmcrater - create cratered terrain by fractal forgery
pgmedge - edge-detect a portable graymap
pgmenhance - edge-enhance a portable graymap
pgmhist - print a histogram of the values in a portable graymap
pgmkernel - generate a convolution kernel
pgmnoise - create a graymap made up of white noise
pgmramp - generate a grayscale ramp
pgmslice - extract one line of pixel values out of a portable graymap
pgmtexture - calculate textural features on a portable graymap
pgmtofs - convert portable graymap to Usenix FaceSaver(tm) format
pgmtolispm - convert a portable graymap into Lisp Machine format
pgmtopbm - convert a portable graymap into a portable bitmap
pgmtoppm - colorize a portable graymap into a portable pixmap
pgmtoy4m - Convert mpeg2dec pgm and pgmpipe output to YUV4MPEG2
pgrep, pkill - look up or signal processes based on name and other
php - PHP Command Line Interface CLI
piltoppm - convert an Atari Degas .pi1 into a portable pixmap
pi3topbm - convert an Atari Degas .pi3 file into a portable bitmap
pic2graph - convert a PIC diagram into a cropped image
pic - compile pictures for troff or TeX
piconv -- iconv(1), reinvented in perl
pidgin - Pidgin Instant Messaging client
pidof -- find the process ID of a running program.
ping, ping6 - send ICMP ECHO_REQUEST to network hosts
pinky - lightweight finger
pivot_root - change the root file system
pjtoppm - convert an HP PaintJet file to a portable pixmap
pkfix - replace pk fonts in postscript files with type1 versions
pkg-config - Return metainformation about installed libraries
pktogf - convert packed font files to generic font files
pktype - verify and translate a packed font bitmap file to plain text

pl2pm - Rough tool to translate Perl4 .pl files to Perl5 .pm modules.
planner - Project Management application for GNOME
plipconfig - fine tune PLIP device parameters
pma-configure - enables configuration of phpMyAdmin installation
pm-action - Suspend or Hibernate your computer
pmap_dump - print a list of all registered RPC programs
pmap - report memory map of a process
pmap_set - set the list of registered RPC programs
pma-secure - secures phpMyAdmin installation
pm-is-supported - Test whether suspend or hibernate is supported.
pmount-hal - HAL-aware wrapper around pmount
pmount - mount arbitrary hotpluggable devices as normal user
pm-powersave - Put your computer into low power mode
png2pat - Converts an image file from PNG to PAT format.
png2yuv - Convert PNG images to the YUV4MPEG stream format.
pngtopnm - convert a Portable Network Graphics file into portable
pnmalias - antialias a portable anymap.
pnmarith - perform arithmetic on two portable anymaps
pnmcat - concatenate portable anymaps
pnmcolormap - create quantization color map for a portable anymap
pnmcomp - composite (overlay) two portable anymap files together
pnmconvol - general MxN convolution on a portable anymap
pnmcrop - crop a portable anymap
pnmcut - cut a rectangle out of a portable anymap
pnmdepth - change the maxval in a portable anymap
pnm enlarge - read a portable anymap and enlarge it N times
pnmfile - describe a portable anymap
pnmflip - perform one or more flip operations on a portable anymap
pnm gamma - perform gamma correction on a portable anymap
pnmhisteq - histogram equalise a portable anymap
pnmhistmap - draw a histogram for a PGM or PPM file
pnmindex - build a visual index of a bunch of anymaps
pnminvert - invert a portable anymap
pnm margin - add a border to a portable anymap
pnm montage - create a montage of portable anymaps
pnmnlfilt - non-linear filters: smooth, alpha trim mean, optimal esti
pnmnorm - normalize the contrast in a Netpbm image
pmpad - add borders to portable anymap
pmpaste - paste a rectangle into a portable anymap
pmpsnr - compute the difference between two portable anymaps
pnmquant - quantize the colors in a Netpbm image to a smaller set
pnmremap - replace colors in a PPM image with colors from another set
pnmrotate - rotate a portable anymap by some angle
pnmscalefixed - scale a portable anymap quickly, but less accurate
pnmscale - scale a portable anymap
pnmshear - shear a portable anymap by some angle
pnmsmooth - smooth out an image
pnmsplit - split a multi-image portable anymap into multiple single-
pnmtile - replicate a portable anymap into a specified size
pnmtofiasco - Convert a portable anymap to FIASCO compressed file

pnmtofits - convert a portable anymap into FITS format
pnmtjpeg - convert PNM image to a JFIF ("JPEG") image
pnmtopalm - convert a portable anymap into a Palm pixmap
pnmtoplainpnm - convert portable any map to plain (ASCII) anymap format
pnmtopng - convert a portable anymap into a Portable Network Graphics
pnmtops - convert portable anymap to PostScript
pnmtorast - convert a portable pixmap into a Sun rasterfile
pnmtorle - convert a Netpbm image file into an RLE image file.
pnmtosgi - convert a portable anymap to a SGI image file
pnmtosir - convert a portable anymap into a Solitaire format
pnmtotiffcmyk - convert a portable anymap into a CMYK encoded TIFF file
pnmtotiff - convert a portable anymap into a TIFF file
pnmtowd - convert a portable anymap into an X11 window dump
pnmtoy4m - Convert PNM/PAM images to YUV4MPEG2 stream
po2debconf - merge master templates file and PO files
pod2html - convert .pod files to .html files
pod2latex - convert pod documentation to latex format
pod2man - Convert POD data to formatted *roff input
pod2text - Convert POD data to formatted ASCII text
pod2usage - print usage messages from embedded pod docs in files
podchecker - check the syntax of POD format documentation files
podebconf-display-po - display content of a PO file in a debconf
podebconf-report-po - send outdated debconf PO files to the last
podselect - print selected sections of pod documentation on standard
pointer-capture-applet - Creates an area on the panel to capture the
policytool - PolicyTool Administration GUI Utility
polipo - a caching web proxy
pon, poff, plog - starts up, shuts down or lists the log of PPP connec
pon.wvdial - A pon replacement.
pooltype - display a WEB pool file
portmap - DARPA port to RPC program number mapper
poster - Scale and tile a postscript image to print on multiple pages
ppdc - cups ppd compiler
ppdhtml - cups html summary generator
ppdi - import ppd files
ppdmerge - merge ppd files
ppdpo - cups message catalog generator
ppm3d - convert two portable pixmap into a red/blue 3d glasses pixmap
ppmbrighten - change an images Saturation and Value from an HSV map
ppmchange - change all pixels of one color to another in a portable
ppmcie - draw a CIE color chart as a PPM image
ppmcolormask - produce mask of areas of a certain color in a PPM file
ppmcolors - generate a color map of all colors of a certain maxval
ppmdim - dim a portable pixmap down to total blackness
ppmdist - simplistic grayscale assignment for machine generated, color
ppmdither - ordered dither for color images
ppmfade - generate a transition between two image files using special
ppmflash - brighten a picture up to complete white-out
ppmforge - fractal forgeries of clouds, planets, and starry skies
ppmhist - print a histogram of a portable pixmap

ppmlabel - add text to a portable pixmap
ppmmake - create a pixmap of a specified size and color
ppmmix - blend together two portable pixmaps
ppmntsc - make a portable pixmap look like taken from an American TV
ppmpat - make a pretty pixmap
ppmquantall - run ppmquant on a bunch of files all at once, so they
ppmquant - quantize the colors in a portable pixmap down to a specified
ppmqvga - 8 plane quantization
ppmrainbow - Generate a rainbow
ppmrelief - run a Laplacian relief filter on a portable pixmap
ppmshadow - add simulated shadows to a portable pixmap image
ppmshift - shift lines of a portable pixmap left or right by a random
ppmspread - displace a portable pixmaps pixels by a random amount
ppmtoacad - convert portable pixmap to AutoCAD database or slide
ppmtobmp - convert a portable pixmap into a BMP file
ppmtoeyuv - convert a portable pixmap into a Berkeley YUV file
ppmtogif - convert a portable pixmap into a GIF file
ppmtoicr - convert a portable pixmap into NCSA ICR format
ppmtoilbm - convert a portable pixmap into an ILBM file
ppmtoleaf - convert portable pixmap to Interleaf image format
ppmtolj - convert a portable pixmap to an HP LaserJet PCL 5 Color file
ppmtolss16 Convert a PPM to an LSS16 image
ppmtomap - extract all colors from a portable pixmap
ppmtomitsu - convert a portable pixmap to a Mitsubishi S340-10 file
ppmtompeg - encodes MPEG-1 bitstreams
ppmtoneo - convert a portable pixmap into an Atari Neochrome .neo file
ppmtopcx - convert a portable pixmap into a PCX file
ppmtopgm - convert a portable pixmap into a portable graymap
ppmtopi1 - convert a portable pixmap into an Atari Degas .pi1 file
ppmtopict - convert a portable pixmap into a Macintosh PICT file
ppmtopj - convert a portable pixmap to an HP PaintJet file
ppmtopuzz - convert a portable pixmap into an X11 "puzzle" file
ppmtorgb3 - separate a portable pixmap into three portable graymaps
ppmtosixel - convert a portable pixmap into DEC sixel format
ppmtotga - convert portable pixmap into a TrueVision Targa file
ppmtouil - convert a portable pixmap into a Motif UIL icon file
ppmtowinicon - convert 1 or more portable pixmaps into a Windows .ico
ppmtoxpm - convert a portable pixmap into an X11 pixmap
ppmtoy4m - Convert PPM images to YUV4MPEG2 stream
ppmtoyuv - convert a portable pixmap into an Abekas YUV file
ppmtoyuvsplit - convert a portable pixmap into 3 subsampled raw YUV
ppmtv - make a portable pixmap look like taken from an American TV
pppd - Point-to-Point Protocol Daemon
pppdump - convert PPP record file to readable format
pppoe-discovery - perform PPPoE discovery
pppstats - print PPP statistics
pr - convert text files for printing
prezip-bin - prefix zip delta word list compressor/decompressor
printafm - Print the metrics from a Postscript font in AFM format using
printconf - automatically configure attached USB and parallel printers

printenv - print all or part of environment
printf - format and print data
procmail - autonomous mail processor
prove -- A command-line tool for running tests against Test::Harness
ps2ascii - Ghostscript translator from PostScript or PDF to ASCII
ps2eps - convert PostScript to EPS (Encapsulated PostScript) files
ps2epsi - generate conforming Encapsulated PostScript
ps2pdf - Convert PostScript to PDF using ghostscript
ps2pdfwr - Convert PostScript to PDF without specifying Compatibil
ps2ps, eps2eps - Ghostscript PostScript "distiller"
ps4pdf - a shell script for creating .pdf from .tex
psbook - rearrange pages in PostScript file into signatures
psed - a stream editor
psfaddtable - add a Unicode character table to a console font
psfgettable - extract the embedded Unicode character table from a con
psfstriptable - remove the embedded Unicode character table from a con
psidtopgm - convert PostScript "image" data into a portable graymap
pslatex - utility to typeset LaTeX files using PostScript fonts
psmandup - print duplex on non duplex printers
psmerge - filter to merge several PostScript files into one
psnup - multiple pages per sheet
ps - report a snapshot of the current processes.
psresize - rescales and centers a document for new output paper size
psselect - select pages from a PostScript file
psset - insert page device request in PostScript files
pstopnm - convert a PostScript file into a portable anymap
pstops - shuffle pages in a PostScript file
pstree - display a tree of processes
ptar - a tar-like program written in perl
ptardiff - program that diffs an extracted archive against an
ptked - an editor in Perl/Tk
ptksh - Perl/Tk script to provide a graphical user interface for
ptx - produce a permuted index of file contents
pumount - umount arbitrary hotpluggable devices as normal user
pwck - verify integrity of password files
pwconv, pwunconv, grpconv, grpunconv - convert to and from shadow
pwd - print name of current/working directory
pwdx - report current working directory of a process
pycentral - register and build utility for Python packages
py_compilefiles - byte-compile python .py files
pydoc2.5 - the Python documentation tool
pygettext - Python equivalent of xgettext(1)
pyntor-components - manage components for the presentation program Pyn
pyntor - modular slides viewer and presentation tool
pyntor-selfrun - creation of self-extracting presentation archives
pysupport-movemodules - move python modules and extensions for python-
pysupport-parseversion - parse python-support version information files
python - an interpreted, interactive, object-oriented programming lan
pyversions - print python version information
qembed - Converts arbitrary files into C++ code.

qiv - a fast gdk/implib image viewer for X. Version: 2.1-pre11,
qrtpopm - convert output from the QRT ray tracer into a portable
qtconfig - Configuration tool for Qt
querybts - view outstanding bug reports on a debbugs server
ranlib - generate index to archive.
rar - archive files with compression
rarp - manipulate the system RARP table
rasttopnm - convert a Sun rasterfile into a portable anymap
raw - bind a Linux raw character device
rawtopgm - convert raw grayscale bytes into a portable graymap
rawtoppm - convert raw RGB bytes into a portable pixmap
rbash - restricted bash, see bash(1)
rdesktop - Remote Desktop Protocol client
rdev - query/set image root device, RAM disk size, or video mode
rdjpgcom - display text comments from a JPEG file
readelf - Displays information about ELF files.
readlink - display value of a symbolic link
readom - read or write data Compact Discs
readprofile - a tool to read kernel profiling information
rearj - Converts other archive formats to .arj files
recode-sr-latin - convert Serbian text from Cyrillic to Latin script
recountdiff - recompute patch counts and offsets
rediff, editdiff - fix offsets and counts of a hand-edited diff
refer - preprocess bibliographic references for groff
remove-default-ispell - remove default ispell dictionary
remove-default-wordlist - remove default wordlist
remove-shell - remove shells from the list of valid login shells
rename - Rename files
rename - renames multiple files
renice - alter priority of running processes
replace - a string-replacement utility
reportbug - reports a bug to a debbugs server
report-hw - dump information on the systems hardware
resize2fs - ext2/ext3 file system resizer
resize - set TERMCAP and terminal settings to current xterm window size
resolveip - resolve hostname to IP address or vice versa
resolve_stack_dump - resolve numeric stack trace dump to symbols
rev - reverse lines of a file or files
rgb2pat - Converts an image file from 24-bit RGB to PAT format.
rgb3toppm - combine three portable graymaps into one portable pixmap
richtext - View a richtext document, typically a mail message
rletopnm - convert a Utah Raster Tools RLE image file into a PNM image
rmdir - remove empty directories
rmid - The Java RMI Activation System Daemon
rmiregistry - The Java Remote Object Registry
rmmod simple program to remove a module from the Linux Kernel
rm - remove files or directories
rmt - remote magtape protocol module
rnano - Restricted mode for Nanos ANOther editor, an enhanced free
rotatelog - Piped logging program to rotate Apache logs

routel - list routes with pretty output format
route - show / manipulate the IP routing table
rpcclient - tool for executing client side MS-RPC functions
rpcdebug - set and clear NFS and RPC kernel debug flags
rpcgen - an RPC protocol compiler
rpc.gssd - rpcsec_gss daemon
rpc.idmapd - NFSv4 ID <-> Name Mapper
rpcinfo - report RPC information
rpc.statd - NSM status monitor
rpl8 - Firmware loader for DVD drives
rstart - a sample implementation of a Remote Start client
rstartd - a sample implementation of a Remote Start rsh helper
rsync a fast, versatile, remote (and local) file-copying tool
rsyslogd - reliable and extended syslogd
rtcwake - enter a system sleep state until specified wakeup time
rtmon - listens to and monitors RTnetlink
runcon - run command with specified security context
runlevel -- find the previous and current system runlevel.
run-mailcap, view, see, edit, compose, print - execute programs via
run-parts - run scripts or programs in a directory
runscript - script interpreter for minicom
run-with-aspell - script to help use GNU Aspell as an ispell replace
rx, rb, rz - XMODEM, YMODEM, ZMODEM (Batch) file receive
s5 - set up and update S5 presentations
safe_finger - finger client wrapper that protects against nasty stuff
savelog - save a log file
saveme - unlink ld.so.preload
saytime - audio time check
sbigtopgm - convert an SBIG CCDOPS file into a portable graymap
scp - secure copy (remote file copy program)
screendump - dump the contents of a virtual console to stdout
script - make typescript of terminal session
scriptreplay - play back typescripts, using timing information
sdiff - side-by-side merge of file differences
seahorse-agent - seahorse pass phrase caching agent
seahorse-daemon - seahorse pass phrase caching agent
seahorse-tool - PGP/GnuPG file encryption for the GNOME Desktop
sed - stream editor for filtering and transforming text
select-default-ispell - select default ispell dictionary
select-default-iwrap - Selects the user default ispell dictionary for
select-default-wordlist - select default wordlist
sensible-editor, sensible-pager, sensible-browser - sensible editing,
seq - print a sequence of numbers
servertool - The Java(TM) IDL Server Tool
services-admin - Services Administration Tool
sessreg - manage utmp/wtmp entries for non-init clients
setarch - change reported architecture in new program environment and
seticons - sets the icon images used in Window Maker
setkeycodes - load kernel scancode-to-keycode mapping table entries
setleds - set the keyboard leds

setlogcons - Send kernel messages to console N
setmetamode - define the keyboard meta key handling
setpci - configure PCI devices
setsid - run a program in a new session
setstyle - set style related options for Window Maker or loads a theme
setterm - set terminal attributes
setvesablank - Turn VESA screen blanking on or off
setxkbmap - set the keyboard using the X Keyboard Extension
sfdisk - Partition table manipulator for Linux
sftp - secure file transfer program
sg - execute command as different group ID
sgitopnm - convert a SGI image file to a portable anymap
shasum - compute and check SHA1 message digest
sha224sum - compute and check SHA224 message digest
sha256sum - compute and check SHA256 message digest
sha384sum - compute and check SHA384 message digest
sha512sum - compute and check SHA512 message digest
shadowconfig - toggle shadow passwords on and off
shar - create shell archives
shares-admin - Shared Folders Administration Tool
shasum - Print or Check SHA Checksums
sh - command interpreter (shell)
showaudio - Play an audio email message
showcfont - displays all characters in the current screen-font.
showchar - show character with information
showexternal - Fetch and display the body of a mail message that is
showfont - font dumper for X font server
showkey - examine the scan codes and keycodes sent by the keyboard
showmount - show mount information for an NFS server
shownonascii - View all or part of a mail message in a non-ASCII font
showpartial - Fetch and display the body of a mail message that is
showpicture - View an image received in the mail
showrgb - uncompile an rgb color-name database
shred - overwrite a file to hide its contents, and optionally delete it
shuf - generate random permutations
shutdown - bring the system down
sigtool - signature and database management tool
simpdftex - create pdf files via latex-dvips-gs instead of pdflatex
sirtopnm - convert a Solitaire file into a portable anymap
size - list section sizes and total size.
skill, snice - send a signal or report process status
slabtop - display kernel slab cache information in real time
slattach - attach a network interface to a serial line
sldtoppm - convert an AutoCAD slide file into a portable pixmap
sleep - delay for a specified amount of time
sliceprint - slice documents with long lines.
smartctl - Control and Monitor Utility for SMART Disks
smartd - SMART Disk Monitoring Daemon
smbcacls - Set or get ACLs on an NT file or directory names
smbclient - ftp-like client to access SMB/CIFS resources on servers

smbquotas - Set or get QUOTAs of NTFS 5 shares
smbget - wget-like utility for download files over SMB
smbpasswd - change a users SMB password
smbspool - send a print file to an SMB printer
smbtar - shell script for backing up SMB/CIFS shares directly to UNIX
smbtree - A text based smb network browser
smproxy - Session Manager Proxy
socat - Multipurpose relay (SOcket CAT)
soelim - interpret .so requests in groff input
sort - sort lines of text files
sound-juicer - GNOME-desktop CD ripper and player using GStreamer
SoX - Sound eXchange, the Swiss Army knife of audio manipulation
spawn-fcgi - Spawns FastCGI processes
sptopppm - convert an Atari compressed Spectrum file into a portable
speaker-test - command-line speaker test tone generator for ALSA
splitdiff - separate out incremental patches
splitfont - extract characters from an ISO-type font.
splitmail - Split a large mail message into MIME-compliant partial mes
split - split a file into pieces
sprof - Read and display shared object profiling data
sputopppm - convert an Atari uncompressed Spectrum file into a portable
sqlite3 - A command line interface for SQLite version 3
sqlite - A command line interface for SQLite
sq - squeeze a sorted word list unsq - unsqueeze a sorted word list
ss - another utility to investigate sockets
ssconvert - a command line spreadsheet format converter
ssh-add - adds RSA or DSA identities to the authentication agent
ssh-agent - authentication agent
ssh-argv0 - replaces the old ssh command-name as hostname handling
ssh-copy-id - install your public key in a remote machines autho
sshd - OpenSSH SSH daemon
ssh-keygen - authentication key generation, management and conversion
ssh-keyscan - gather ssh public keys
ssh - OpenSSH SSH client (remote login program)
ssh-vulnkey - check blacklist of compromised keys
ssindex - generate index data for spreadsheet files
st4topgm - convert an SBIG ST4 format file into a portable graymap
startpar - start runlevel scripts in parallel
start-stop-daemon - start and stop system daemon programs
startx - initialize an X session
stat - display file or file system status
states - awk alike text processing tool
stream - a lightweight tool to stream one or more pixel components of
strings - print the strings of printable characters in files.
strip - Discard symbols from object files.
stty - change and print terminal line settings
su - change user ID or become superuser
sudo, sudoedit - execute a command as another user
sulogin - Single-user login
sum - checksum and count the blocks in a file

su-to-root - A simple script to give an interactive front-end to su.
svnadmin - Subversion repository administration tool
svndumpfilter - Filter a subversion repository dumpfile.
svnlook - Subversion repository examination tool
svnserve - Server for the svn repository access method
svn - Subversion command line client tool
svnsync - Subversion repository synchronization tool
svnversion - Produce a compact version number for a working copy.
swapon, swapoff - enable/disable devices and files for paging and swap
swfdec-player - Viewer for Flash files
swfdec-thumbnailer - Create a thumbnail for a Flash file
sx, sb, sz - XMODEM, YMODEM, ZMODEM file send
sylpheed - Light weight e-mail client using GTK+
synaptic - graphical management of software packages
sync - flush file system buffers
synclient - query and modify Synaptics TouchPad driver for XOrg/XFree86
syndaemon - a program that monitors keyboard activity and disables the
sysctl - configure kernel parameters at runtime
syslinux2ansi - converts a syslinux-format screen to pc-ansi
syslinux - install the SYSLINUX bootloader on a FAT filesystem
syslog2eximlog - make syslog output suitable for eximstats
system-tools-backends - message dispatcher for system-tools-backends
tabs - set tabs on a terminal
tac - concatenate and print files in reverse
tailf - follow the growth of a log file
tail - output the last part of files
tangle - translate WEB to Pascal
tar - The GNU version of the tar archiving utility
taskjuggler - translates project descriptions into HTML or XML reports
TaskjugglerUI - a KDE graphical front-end for taskjuggler
tasksel - a user interface for installing tasks
taskset - retrieve or set a processs CPU affinity
tbl - format tables for troff
tclsh - Simple shell containing Tcl interpreter
tcpd - access control facility for internet services
tcpdchk - tcp wrapper configuration checker
tcpdmatch - tcp wrapper oracle
tc - show / manipulate traffic control settings
tee - read from standard input and write to standard output and files
telnet - user interface to the TELNET protocol
tempfile - create a temporary file in a safe manner
test - check file types and compare values
testparm - check an smb.conf configuration file for internal
texconfig - configures teTeX
texconfig-dialog - helper program for texconfig and texconfig-sys
texdoctk - GUI for easier access of TeX package and program documenta
texdoc - Utility to look up TeX documentation
texi2dvi4a2ps - Compile Texinfo and LaTeX files to DVI or PDF
texi2dvi - convert Texinfo documents to DVI
texi2pdf - create a PDF file from a Texinfo file

texindex - sort Texinfo index files
texlinks - maintain symbolic links from format to engine
text2wave - convert text to .wav files
tex, virtex, initex - text formatting and typesetting
tftodit - create font files for use with groff -Tdvi
tgatoppm - convert TrueVision Targa file into a portable pixmap
tgz
thinkjettopbm - convert HP ThinkJet printer commands file to PBM
thumbpdf - generate thumbnail images for a PDF file created with pdftex
tic - the terminfo entry-description compiler
tie - merge or apply WEB change files
tifftopnm - convert a TIFF file into a portable anymap
time-admin - Time Administration Tool
time - run programs and summarize system resource usage
tixindex - build tclIndex file for the Tix widgets
tkjpeg - simple JPEG viewer using perl/Tk
tload - graphic representation of system load average
toc2cddb - translates a TOC file of cdrdao(1) into a cddb file and
toc2cue - converts a TOC files of cdrdao(1) into a .cue file
toe - table of (terminfo) entries
toolame - MPEG-1 layer 2 audio encoder
top - display Linux tasks
tor-gencert - Generate certs and keys for Tor directory authorities
torify - wrapper for tsocks and tor
tor-resolve - resolve a hostname to an IP address via tor
tor - The second-generation onion router
totem - GNOME-desktop movie player based on the xine backend
touch - change file timestamps
tput, reset - initialize a terminal or query terminfo database
traceroute - print the route packets trace to network host
troff - the troff processor of the groff text formatting system
tr - translate or delete characters
true - do nothing, successfully
try-from - test program for the tcp_wrapper
tsclient - Terminal Server Client supporting XDMCP, VNC and RDP
tset, reset - terminal initialization
tsocks - Shell wrapper to simplify the use of the tsocks(8) library to
tsort - perform topological sort
tty - print the file name of the terminal connected to standard input
tune2fs - adjust tunable filesystem parameters on ext2/ext3 filesystems
tunelp - set various parameters for the lp device
twm - Tab Window Manager for the X Window System
tzselect - view timezones
ucfq - query the ucf database
ucfr - Update Configuration File Registry: associate packages with
ucf - Update Configuration File: preserve user changes in configura
ucs2any - generate BDF fonts containing subsets of ISO 10646-1 code
udevadm - udev management tool
udevd - event managing daemon
uic - Qt user interface compiler

ul - do underlining
umount.nfs, umount.nfs4 - unmount a Network File System
umount - unmount file systems
uname - print system information
undocumented - No manpage for this program.
unexpand - convert spaces to tabs
unicode_start - put the console in Unicode mode.
unicode_stop - put the console out of unicode mode (ie. in 8-bit mode).
uniq - report or omit repeated lines
unix_chkpwd - Helper binary that verifies the password of the current user
unix_update - Helper binary that updates the password of a given user
unlink - call the unlink function to remove the specified file
unpack200 - JAR Unpacking tool
unrar - extract files from rar archives
unshar - unpack a shar file
unwrapdiff - demangle word-wrapped patches
unzip - list, test and extract compressed files in a ZIP archive
unzipsfx - self-extracting stub for prepending to ZIP archives
update-aide.conf - build run-time AIDE configuration
update-alternatives - maintain symbolic links determining default command
update-app-install - Cache the data for gnome-app-install
update-auctex-elisp - update AUCTeX automatically generated TeX macros
update-auctex-install - update AUCTeX installation.
update-binfmts - maintain registry of executable binary formats
update-ca-certificates - update /etc/ssl/certs and certificates.crt
update-catalog - create or update entry in SGML catalog file
updatedb - update a database for mlocate
update-default-ispell - update default ispell dictionary
update-default-wordlist - update default wordlist
update-dictcommon-aspell - rebuild aspell database and emacs stuff
update-exim4.conf - Generate exim4 configuration files.
update-exim4.conf.template - Regenerate exim4 configuration file template
update-exim4defaults - Manage exim4 daemon default file.
update-fonts-alias - compile fonts.alias files
update-fonts-dir - compile fonts.dir files
update-fonts-scale - generate fonts.scale files
update-gconf-defaults - generate GConf defaults shipped in Debian package
update-gdkpixbuf-loaders - Update wrapper script for the Gdkpixbuf loaders
update-grub - program to generate GRUBs menu.lst file
update-gtk-immodules - Update wrapper script for the GTK+ IM modules
update-icon-caches - Update wrapper script for the icon caches
update-inetd - create, remove, enable or disable entry in /etc/inetd.conf
update-initramfs - generate an initramfs image
update-ispell-dictionary - Bash script to select a new ispell default dictionary
update-java-alternatives - update alternatives for jre/sdk installation
update-locale - Modify global locale settings
Update Manager - apt update application for GNOME
update-menus - generate Debian menu system
update-mime - create or update MIME information
update-mime-database - a program to build the Shared MIME-Info database

update-modules - obsolete command
update-notifier - Notifies about package updates
update-openoffice-dicts - rebuild dictionary.lst for OpenOffice.org
update-pangox-aliases - Update wrapper script for the Pango X aliases
update-passwd - safely update /etc/passwd, /etc/shadow and /etc/group
update-pciids - download new version of the PCI ID list
update-python-modules - byte-compile python modules
update-rc.d - install and remove System-V style init script links
update-texmf - shell script to generate /etc/texmf/texmf.cnf
update-updmap, update-language, update-fmtutil, update-fontlang -
update-usbids - download new version of the USB ID list
update-xmlcatalog - maintain XML catalog files
update-xpdfrc - program to generate xpdfs configuration file
updmap - Update font map files for TeX output drivers.
upgrade-windowmaker-defaults - Convert old wmaker configuration files
uptime - Tell how long the system has been running.
usb_printerid - part of the printer driver foo2zjs
useradd - create a new user or update default new user information
userdel - delete a user account and related files
usermod - modify a user account
users-admin - Users Administration Tool
users - print the user names of users currently logged in to the cur
uudepipe - uuencode a file
uuencode, uuencode - encode a binary file, or decode its representation
uuenpipe - uuencode a file
uxterm - X terminal emulator for Unicode (UTF-8) environments
uz - gunzips and extracts a gzipd tard archive
validlocale - Test if a given locale is available
vbetool - run real-mode video BIOS code to alter hardware state
vcstime - Show time in upper right hand corner of the console screen
vcut - cuts Ogg Vorbis files
vdir - list directory contents
viewres - graphical class browser for Xt
vimdiff - edit two or three versions of a file with Vim and show dif
vimtutor - the Vim tutor
vim - Vi IMproved, a programmers text editor
vinagre - a VNC client for the GNOME Desktop
vipw, vigr - edit the password, group, shadow-password or shadow-group
visgrep - Visual grep, greps for images in another image
visudo - edit the sudoers file
vlc, wxvlc, svlc - the VLC media player
vmstat - Report virtual memory statistics
vol_id - probe filesystem type and read label and uuid
volname - return volume name
vorbiscomment - List or edit comments in Ogg Vorbis files
vorbistagedit - allows batch editing of vorbis comments with an editor
vpddecode - VPD structure decoder
vt-is-UTF8 - check whether current VT is in UTF8- or byte-mode.
vumeter - Sound volume meter
w3m - a text based Web browser and pager

w3mman - an interface to the on-line reference manuals by w3m(1)
wall - write a message to users
Wand-config - get information about the installed version of the Magick
watch - execute a program periodically, showing output fullscreen
wbmptopbm - convert a wireless bitmap (wbmp) file to a portable bitmap
wc - print newline, word, and byte counts for each file
wdiff - display word differences between text files
wdwrite - writes keys and values to the defaults database
weave - translate WEB to TeX
wftopfa - Convert a Wadalab base font to Postscript .PFA (or .PFB) for
Wget - The non-interactive network downloader.
whatis - display manual page descriptions
whereis - locate the binary, source, and manual page files for a com
which - locate a command
whiptail - display dialog boxes from shell scripts
whoami - print effective userid
whois - client for the whois directory service
who - show who is logged on
wicd-client - frontend to the WICD daemon
wicd-curses - curses-based wicd(8) controller
Wicd - Wired and Wireless Network Connection Manager
widget - Demonstration of Perl/Tk widgets
winicontoppm - convert a Windows .ico file into 1 or more portable
wipe - securely erase files from magnetic media
wmagnify - magnify parts of the screen
wmaker - X11 window manager with a NEXTSTEP look
wmsetbg - sets the background on the X11 display
wodim - write data to optical disk media
word-list-compress - word list compressor/decompressor for GNU Aspell
wpa_action - wpa_cli action script
wpa_cli - WPA command line client
wpa_passphrase - Generate a WPA PSK from an ASCII passphrase for a SSID
wpa_supplicant - Wi-Fi Protected Access client and IEEE 802.1X suppli
WPrefs - Window Maker configuration tool
write - send a message to another user
writetv - put text into the input buffer of a virtual terminal
wrjpgcom - insert text comments into a JPEG file
w - Show who is logged on and what they are doing.
wvdialconf - build a configuration file for wvdial(1)
wvdial - PPP dialer with built-in intelligence.
wxcopy - copy stdin or file into cutbuffer
wypaste - output a cutbuffer to stdout
x11perfcomp - X11 server performance comparison program
x11perf - X11 server performance test program
xargs - build and execute command lines from standard input
xaumix - aumix wrapper for X
xauth - X authority file utility
xbiff - mailbox flag for X
xbmptopbm - convert an X11 or X10 bitmap into a portable bitmap
xbsh - BeanShell: A Java scripting environment (windowed version).

xcalc - scientific calculator for X
xclipboard - X clipboard client
xclock - analog / digital clock for X
xcmsdb - Device Color Characterization utility for X Color Management
xconsole - monitor system console messages with X
xcursorgen - create an X cursor file from a collection of PNG images
xcutsel - interchange between cut buffer and selection
xdg-desktop-icon - command line tool for (un)installing icons to the
xdg-desktop-menu - command line tool for (un)installing desktop menu
xdg-email - command line tool for sending mail using the users
xdg-icon-resource - command line tool for (un)installing icon resources
xdg-mime - command line tool for querying information about file type
xdg-open - opens a file or URL in the users preferred application
xdg-screensaver - command line tool for controlling the screensaver
xditview - display ditroff output
xdpyinfo - display information utility for X
xdriinfo - query configuration information of DRI drivers
xdvi - DVI Previewer for the X Window System
xev - print contents of X events
xeyes - a follow the mouse X demo
xfd - display all the characters in an X font
xfontsel - point and click selection of X11 font names
xfsinfo - X font server information utility
xft-config - report Xft version, compiler, linker, and/or installation
xgamma - Alter a monitors gamma correction through the X server
xgc - X graphics demo
xgettext - extract gettext strings from source
xhost - server access control program for X
ximtoppm - convert an Xim file into a portable pixmap
xine-list-1.1 - get supported filetype information from xine-lib
xinit - X Window System initializer
xinput - utility to configure and test XInput devices
XkbBell - Rings the bell on the default keyboard
xkbcomp - compile XKB keyboard description
xkbevd - XKB event daemon
xkbprint - print an XKB keyboard description
xkill - kill a client by its X resource
xload - system load average display for X
xlogo - X Window System logo
xlsatoms - list interned atoms defined on server
xlsclients - list client applications running on a display
xlsfonts - server font list displayer for X
xmag - magnify parts of the screen
xman - Manual page display program for the X Window System
xmessage - display a message or query in a window (X-based /bin/echo)
xminicom - friendly serial communication program
xml2po - program to create a PO-template file from a DocBook XML file
xmlcatalog - Command line tool to parse and manipulate XML or SGML
xml-config - script to get information about the installed version of
xmllint - command line XML tool

xmodmap - utility for modifying keymaps and pointer button mappings in
xmore - plain text display program for the X Window System
xmousepos - Gets and prints the current mouse position
Xorg - X11R7 X server
xournal - GTK+ Application for note taking
xpaint - Simple Paint program
xpdf - Portable Document Format (PDF) file viewer for X (version 3.02)
xpmtoppm - convert an X11 pixmap into a portable pixmap
xprop - property displayer for X
xqxdecode - Decode a XQX stream into human readable form.
xrandr - primitive command line interface to RandR extension
xrdb - X server resource database utility
xrefresh - refresh all or part of an X screen
xsane - scanner frontend for SANE
xsetmode - set the mode for an X Input device
xsetpointer - set an X Input device as the main pointer
xsetroot - root window parameter setting utility for X
xset - user preference utility for X
xsltproc - command line XSLT processor
xsm - X Session Manager
xstdcmap - X standard colormap utility
xsubpp - compiler to convert Perl XS code into C code
xte - Generates fake input using the XTest extension
xterm - terminal emulator for X
xtrapreset, xtrapinfo, xtrapstats, xtrapout, xtrapin, xtrapchar, xtrap
xvidtune - video mode tuner for Xorg
xvinfo - Print out X-Video extension adaptor information
xvminitoppm - convert a XV "thumbnail" picture to PPM
xwd - dump an image of an X window
xwdtopnm - convert a X11 or X10 window dump file into a portable anymap
xwininfo - window information utility for X
xwud - image displayer for X
xxd - make a hexdump or do the reverse.
xzgv - picture viewer for X, with thumbnail-based file selector
y4mcolorbars - Create a YUV4MPEG2 stream containing a colorbar test
y4mdenoise - Motion-compensating YUV4MPEG-frame denoiser
y4mtopnm - Convert a YUV4MPEG2 stream to PNM images
y4mtoppm - Convert YUV4MPEG2 stream to PPM images
y4munsharp - Unsharp filter for YUV4MPEG2 streams
ybmtopbm - convert a Bennet Yee "face" file into a portable bitmap
yelp browse system documentation
yes - output a string repeatedly until killed
yuv2lav - encodes lavtools raw YUV frame streams into MJPEG files
YUV4MPEG2 - video stream format used by pipe-based MJPEGtools
yuvdenoise - Motion-Compensating-YUV4MPEG2-frame-denoiser
yuvfps - Converts to a different frame rate
yuvinactive - Set a part of the video to a defined state
yuvkineco - revert 2-3 pulldown movie
yuvmedianfilter - A filter for yuv images produced by the mjpeg tools
yuvplay - Display YUV4MPEG2 streams (using SDL)

yuvscaler - UPscales or DOWNscales a YUV4MPEG2 stream to a specified
yuvsplittoppm - convert a Y- and a U- and a V-file into a portable
yuvtoppm - convert Abekas YUV bytes into a portable pixmap
yuvycsnoise - Noise filter specialized for NTSC Y/C separation noise
zcmp, zdiff - compare compressed files
zdump - time zone dumper
zeisstopnm - convert a Zeiss confocal file into a portable anymap
zenity - display GTK+ dialogs
zforce - force a .gz extension on all gzip files
zgrep - search possibly compressed files for a regular expression
zic - time zone compiler
zipgrep - search files in a ZIP archive for lines matching a pattern
zipinfo - list detailed information about a ZIP archive
zip, zipcloak, zipnote, zipsplit - package and compress (archive) files
zjsdecode - Decode a ZjStream into human readable form.
zless - file perusal filter for crt viewing of compressed text
zmore - file perusal filter for crt viewing of compressed text
znew - recompress .Z files to .gz files
zsoelim - satisfy .so requests in roff input
7zr - A file archiver with highest compression ratio
822-date - Print date and time in RFC2822 format

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