#### **Dpkg** dpkg --compare-Compare version numbers, versions v1 gt check with **echo \$?**. v2 Query installed packages, dpkg-query -W - format e.g. '\${Package} showformat=for \${Version} mat \${Installed-Size}\n'. dpkg --get-Write package selections to selections > file. file dpkg --set-Set package selections from selections < file.

#### The Network

file

/etc/network/	Network interface
interfaces	configuration.
ifup, ifdown [device]	Start, stop network
	interfaces according to files
	above.
/sbin/ip	Show and manipulate
	network interfaces and
	routing, needs iproute.
ssh -X user@host	Login at other machine.
scp files user@	Copy files to other machine
host:path	(and vice versa).

### Web Server (Apache2)

· · · · · · · · · · · · · · · · · · ·	
/etc/apache2/	Configuration files.
/etc/apache2/ sites-available/	Contains virtual hosts. To
	enable a virtual host, use
Sires-avairance/	a2ensite.
/etc/apache2/ mods-available/	Contains available modules
	files. To enable a module,
	use <b>a2enmod</b> .

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# **Debian GNU/Linux Reference Card**

Version 5.0.5 2010-04-30 http://www.debian.org/

**Getting Help** 

Getting Help	
Read online help for every	
command and many	
configuration files.	
Brief help for most	
commands.	
Find all documentation	
here, optional file	
README.Debian contains	
specifics.	
Reference, manuals, FAQs,	
HOWTOs, etc. at http://	
www.debian.org/doc/	
The community is always	
helpful, search for users.	
neipiui, seaich for users.	
Contains all kind of useful	
information.	
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### Installation

All information about it at
http://www.debian.org/
devel/debian-installer/
Download from http://
www.debian.org/distrib/
E.g. to set up the network
w/o DHCP or using LILO
instead of GRUB.

## Bugs

3	
Bug Tracking at http://bugs.debian.org/	All about existing and fixed bugs.
Package specific	See http://bugs.debian. org/package-name/, use wnpp to ask for new packages.
reportbug	Report a bug by e-mail.
Reporting	Instructions at http://www. debian.org/Bugs/ Reporting

Configuration

Cu	miguration
/etc/	All system configuration files are under directory
	/etc/.
editor files	Default text editor. May be
editor rices	nano, emacs, vi, joe.
CUPS at http://	Browser interface to
hostname:631	printing system.
	Reconfigure a package, e.g.
dpkg-reconfigure	console-common
package-name	(keyboard), locales
	(localisation).
update-	Manage command
alternatives	alternatives.
options	
update-grub	After changing
- 0	/etc/default/grub.
make-kpkg	Build a kernel packages
initrd	from sources, if a
revision=2:my.1.0	customised kernel is really
rootcmd	needed, needs kernel-
fakerootucus	package.
kernel_image	
	Create and install
m-a a-i module	third-party modules (gspca,
kernel_image	), needs module-
	assistant.

Daemons and System	
/etc/init.d/file	Restart a service, system
restart	daemon.
/etc/init.d/file	Stop a service, system
stop	daemon.
/etc/init.d/file	Start a service, system
start	daemon.
halt, reboot,	Halts, reboots, shuts down
poweroff	system.
/var/log/	All log files are under this
	directory.
/etc/default/	Default values for many
	daemons and services.
	•

**Important Shell Commands** 

cat files	Print files to screen.
cd directory	Change to directory.
cp files dest	Copy files and directories.
echo string	Echo string to screen.
gzip, bzip2, xz[-d] files	Compress, uncompress files.

Important Shell Commands	
pager files	Show contents of files.
ls[files]	List files.
mkdir directory- names	Create directories.
mv file1 file2	Move, rename files.
rm files	Remove files.
rmdir dirs	Remove empty directories.
tar[c][x][t][z][j]-f file.tar [files]	Create, eXtract, list Table of archive file, z, j for .gz, .bz2.
find directories expressions	Find files like -name name or -size +1000, etc.
grep search- string files	Find search-string in files.
kill [-9] number	Send signal to process (e.g. terminate it).
ln -s file link	Create a symbolic link to a file.
ps[options]	Show current processes.
su - [username]	Become another user, e.g. root.
sudo command	Execute a command as root as normal user, see /etc/sudoers
command > file	Overwrite file with output of command.
command >> file	Append output of command to file.
cmd1   cmd2	Use output of command 1 as input of command 2.
command < file	Use file as input for command.

APT

211 1	
apt-get update	Update packages listings from package repositories as listed in /etc/apt/sources.list. Required whenever that file or the contents of the repositories change.
apt-cache search search-string	Search packages and descriptions for search-string.
apt-cache policy	Show versions and priorities
package-names	of available packages.
apt-cache show	Show package information
package-names	incl. description.

APT

apt-cache	Show package
showpkg package-	dependencies (needed
names	packages).
apt-get install	Install packages from
package-names	repositories with all
package-Halles	dependencies.
	Install newest versions of all
apt-get upgrade	packages currently
	installed.
apt-get	Like <b>apt-get upgrade</b> , but
dist-upgrade	with advanced conflict
dist-upgrade	resolution.
apt-get remove	Remove packages with all
package-names	needed packages.
apt-get	Remove packages that no
autoremove	other packages depend on.
apt-cache depends	List all packages needed by
package-names	the one given.
apt-cache	
	List all nackages that need
rdepends	List all packages that need
	the one given.
rdepends	the one given.  Update content listings
rdepends	the one given.  Update content listings from package repositories,
rdepends package-names apt-file update	the one given.  Update content listings
apt-file search	the one given.  Update content listings from package repositories, see apt-get update
apt-file search file-name	the one given.  Update content listings from package repositories,
apt-file search file-name apt-file list	the one given.  Update content listings from package repositories, see apt-get update  Search packages for file.
apt-file search file-name	the one given.  Update content listings from package repositories, see apt-get update  Search packages for file.  List contents of a package.
apt-file search file-name apt-file list	the one given.  Update content listings from package repositories, see apt-get update  Search packages for file.  List contents of a package.  Installs packages
apt-file update  apt-file search file-name apt-file list package-name	the one given.  Update content listings from package repositories, see apt-get update  Search packages for file.  List contents of a package.  Installs packages automatically if needed, can
apt-file search file-name apt-file list	the one given.  Update content listings from package repositories, see apt-get update  Search packages for file.  List contents of a package.  Installs packages automatically if needed, can replace apt-file, needs
apt-file update  apt-file search file-name apt-file list package-name	the one given.  Update content listings from package repositories, see apt-get update  Search packages for file.  List contents of a package.  Installs packages automatically if needed, can replace apt-file, needs auto-apt.
apt-file update  apt-file search file-name apt-file list package-name  auto-apt	the one given.  Update content listings from package repositories, see apt-get update  Search packages for file.  List contents of a package.  Installs packages automatically if needed, can replace apt-file, needs auto-apt.  Console interface to APT,
apt-file update  apt-file search file-name apt-file list package-name	the one given.  Update content listings from package repositories, see apt-get update  Search packages for file.  List contents of a package.  Installs packages automatically if needed, can replace apt-file, needs auto-apt.  Console interface to APT, needs aptitude.
apt-file update  apt-file search file-name apt-file list package-name  auto-apt  aptitude	the one given.  Update content listings from package repositories, see apt-get update  Search packages for file.  List contents of a package.  Installs packages automatically if needed, can replace apt-file, needs auto-apt.  Console interface to APT, needs aptitude.  GUI interface to APT, needs
apt-file update  apt-file search file-name apt-file list package-name  auto-apt	the one given.  Update content listings from package repositories, see apt-get update  Search packages for file.  List contents of a package.  Installs packages automatically if needed, can replace apt-file, needs auto-apt.  Console interface to APT, needs aptitude.

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dpkg -l [names]	List packages.
dpkg -I pkg.deb	Show package information.
dpkg -c pkg.deb	List contents of package file.
dpkg -S filename	Show which package a file
	belongs to.
dpkg -i pkg.deb	Install package files.
	Audit check sums of
debsums	installed packages, needs
	debsums.
dpkg-divert	Override a package's
[options] file	version of a file.