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UNIX For DOS Users

The following table shows a comparison between DOS (COMMAND.COM and MS/Windows NT CMD.EXE shell commands) and the equivalent Linux/Unix or Bash shell commands.



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Command Comparison:


DOS Command	UNIX or Bash Command	Action
DIR	ls (http://man.yolinux.com/cgi-bin/man2html?cgi_command=ls) -l (or use ls -lF)(-a all files) (df -k Space remaining on filesystem)	List directory contents
DIR *.* /o-d	ls -tr	List directory contents by reverse time of modifica
DIR *.* /v /os	ls -ls	List files and size
DIR /s	ls -R	List directory/sub-directory contents recursively
DIR /aa	ls -a	List hidden files.
TREE	ls -R (http://man.yolinux.com/cgi-bin/man2html?cgi_command=ls)	List directory recursivly
CD	cd (http://man.yolinux.com/cgi-bin/man2html?cgi_command=cd)	Change directory
MKDIR MD	mkdir (http://man.yolinux.com/cgi-bin/man2html?cgi_command=mkdir)	Make a new directory
ASSIGN	ln (http://man.yolinux.com/cgi-bin/man2html?cgi_command=ln)	Create a file or directory link
RMDIR RD	rmdir (http://man.yolinux.com/cgi-bin/man2html?cgi_command=rmdir)	Remove a directory
CHDIR	pwd (http://man.yolinux.com/cgi-bin/man2html?cgi_command=pwd)	Display directory location

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DEL ERASE	rm (http://man.yolinux.com/cgi-bin/man2html?cgi_command=rm) -iv	Remove a file
RMDIR /S (NT) DELTREE (Win 95...)	rm -R	Remove all directories and files below given direc
COPY	cp (http://man.yolinux.com/cgi-bin/man2html?cgi_command=cp) -piv	Copy a file
XCOPY	cp (http://man.yolinux.com/cgi-bin/man2html?cgi_command=cp) -R	Copy all file of directory recursivly
RENAME or MOVE	mv (http://man.yolinux.com/cgi-bin/man2html?cgi_command=mv) -iv	Rename/move a file
TYPE	cat (http://man.yolinux.com/cgi-bin/man2html?cgi_command=cat)	Dump contents of a file to users screen
MORE	more (http://man.yolinux.com/cgi-bin/man2html?cgi_command=more)	Pipe output a single page at a time
HELP or COMMAND /?	man (http://man.yolinux.com/cgi-bin/man2html?cgi_command=man)	Online manuals
CLS	clear (http://man.yolinux.com/cgi-bin/man2html?cgi_command=clear) ctrl-l	Clear screen
EXIT EXIT0	exit (http://man.yolinux.com/cgi-bin/man2html?cgi_command=exit) exit 0	Exit a shell
FIND FINDSTR	grep (http://man.yolinux.com/cgi-bin/man2html?cgi_command=grep)	Look for a word in files given in command line
COMP	diff (http://man.yolinux.com/cgi-bin/man2html?cgi_command=diff)	Compare two files and show differences. Also see mgdiff and tkdiff.

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(<http://yolinux.tradepub.com/?pt=cat&page=Infosoft>)

FC	diff (http://man.yolinux.com/cgi-bin/man2html?cgi_command=diff)	Compare two files and show differences. Also see mgdiff and tkdiff.
SET	set and env	List all environment variables
SET <i>variable=value</i> echo % <i>variable</i> %	set export <i>variable=value</i> echo \$ <i>variable</i>	Set environment variables Show environment variables
ECHO <i>text</i>	echo <i>text</i>	Echo text to screen
SET <i>variable</i>	setenv (for C shell) or export <i>VAR=val</i> (for Korn shell. Also <i>VAR=val</i>)	Set environment variables
PATH PATH % PATH%;C:\DIR	echo \$PATH PATH=\$PATH:/dir	Display search path for executables. Set PATH environment variable.
PROMPT \$p\$g	export PS1="\h(\u)\W> "	Set user command prompt.
DATE or TIME	date (http://man.yolinux.com/cgi-bin/man2html?cgi_command=date)	Show date. (also set date - DOS only)
DOSKEY /h	history (http://man.yolinux.com/cgi-bin/man2html?cgi_command=history)	List command history
DOSKEY <i>NAME=command</i>	alias (http://man.yolinux.com/cgi-bin/man2html?cgi_command=alias) <i>NAME=command</i>	Set command alias
BREAK ON	trap	Trap ctrl-break / Trap signals.
SORT	sort (http://man.yolinux.com/cgi-bin/man2html?cgi_command=sort)	Sort data alphabetically/numerically
EDLIN	ed (http://man.yolinux.com/cgi-bin/man2html?cgi_command=ed)	Line mode editor

EDIT <i>filename.txt</i>	<p>pico (http://man.yolinux.com/cgi-bin/man2html?cgi_command=pico), gnp (http://man.yolinux.com/cgi-bin/man2html?cgi_command=gnp), vi (http://man.yolinux.com/cgi-bin/man2html?cgi_command=vi), xedit (http://man.yolinux.com/cgi-bin/man2html?cgi_command=xedit), xemacs (http://man.yolinux.com/cgi-bin/man2html?cgi_command=xemacs), dtpad</p>	Edit a file. The Linux editor which looks most like probably Pico. (Not a recommendation!)
BACKUP files A:\	<p>tar (http://man.yolinux.com/cgi-bin/man2html?cgi_command=tar) -cvf /dev/fd0 files mdir (http://man.yolinux.com/cgi-bin/man2html?cgi_command=mdir), mcopy (http://man.yolinux.com/cgi-bin/man2html?cgi_command=mcopy) doswrite -a file (AIX only)</p>	Save files to floppy. See Using DOS floppies (LinuxTutorialUsingDOS
RESTORE A:\ files	<p>tar -xvf /dev/fd0 files mdir (http://man.yolinux.com/cgi-bin/man2html?cgi_command=mdir), mcopy (http://man.yolinux.com/cgi-bin/man2html?cgi_command=mcopy) dosread -a file (AIX only)</p>	Read files from floppy. See Using DOS floppies (LinuxTutorialUsingDOS
ATTRIB [+r -r] [+a -a] [+s -s] [path\file] /s	<p>chmod (http://man.yolinux.com/cgi-bin/man2html?cgi_command=chmod)</p>	Change file permissions. DOS: +:set to -:remove a:Archive s:System /s:recursively
ATTRIB +h or -h	mv <i>file .file</i>	Change file to a hidden file - rename file with prefix
PRINT	<p>lpr (http://man.yolinux.com/cgi-bin/man2html?cgi_command=lpr)</p>	Print a file

CALL COMMAND /C (DOS), CMD (NT)	source (http://man.yolinux.com/cgi-bin/man2html?cgi_command=source) <i>script</i> (cshrc (http://man.yolinux.com/cgi-bin/man2html?cgi_command=cshrc)) . <i>script</i> (bash (http://man.yolinux.com/cgi-bin/man2html?cgi_command=bash)) sh <i>script</i>	Execute script from within batch shell.
MEM	free (http://man.yolinux.com/cgi-bin/man2html?cgi_command=free) top (http://man.yolinux.com/cgi-bin/man2html?cgi_command=top)	Show free memory on system
TASKLIST (WIN2K, XP)	ps -aux (http://man.yolinux.com/cgi-bin/man2html?cgi_command=ps) top (http://man.yolinux.com/cgi-bin/man2html?cgi_command=top)	List executable name, process ID number and the active processes
MSD	lsdev (http://man.yolinux.com/cgi-bin/man2html?cgi_command=lsdev)	Show system info (Command borrowed from AIX)
SCANDISK DEFRAG C:	fsck (http://man.yolinux.com/cgi-bin/man2html?cgi_command=fsck) debugfs (http://man.yolinux.com/cgi-bin/man2html?cgi_command=debugfs)	Check and repair hard drive file system
CHDISK	du (http://man.yolinux.com/cgi-bin/man2html?cgi_command=du) -s	Disk usage.
FDISK	fdisk (http://man.yolinux.com/cgi-bin/man2html?cgi_command=fdisk)	Tool to partition a hard drive.
SUBST V: C:\directory\path	mount (http://man.yolinux.com/cgi-bin/man2html?cgi_command=mount)	Mount a drive letter to a folder/directory on your hard drive

FORMAT	mke2fs (http://man.yolinux.com/cgi-bin/man2html?cgi_command=mke2fs) See: fdformat (http://man.yolinux.com/cgi-bin/man2html?cgi_command=fdformat) and mformat (http://man.yolinux.com/cgi-bin/man2html?cgi_command=mformat) for floppies	Format drive file system. For floppy drive use see YoLinux Tutorial Using DOS Linux (LinuxTutorialUsingDOSFloppies.html)
VER	uname (http://man.yolinux.com/cgi-bin/man2html?cgi_command=uname) -a echo \$SHELL cat /etc/issue	Operating system/shell version
pkzip	tar (http://man.yolinux.com/cgi-bin/man2html?cgi_command=tar) and zip (http://man.yolinux.com/cgi-bin/man2html?cgi_command=zip)	Compress and uncompress files/directories. Use tar for compilation of a directory before compressing. Use zip to compress (http://man.yolinux.com/cgi-bin/man2html?cgi_command=compress), gzip (http://man.yolinux.com/cgi-bin/man2html?cgi_command=gzip)
HOSTNAME	hostname (http://man.yolinux.com/cgi-bin/man2html?cgi_command=hostname)	Print host name of computer
PING	ping (http://man.yolinux.com/cgi-bin/man2html?cgi_command=ping)	Send packets to a network host
TRACERT	tracert (http://man.yolinux.com/cgi-bin/man2html?cgi_command=tracert)	Show routes and router hops to given network destination
IPCONFIG (NT) WINIPCFG (Win 95...)	ifconfig (http://man.yolinux.com/cgi-bin/man2html?cgi_command=ifconfig)	Display/configure network interface
NBTSTAT (Netbios info: -n, -c) NBTSTAT -A <i>IP-address</i>	nslookup (http://man.yolinux.com/cgi-bin/man2html?cgi_command=nslookup) <i>host-name</i> host (http://man.yolinux.com/cgi-bin/man2html?cgi_command=host) <i>host-name</i>	Print DNS info for host.

NBTSTAT -a hostname	nmblookup (http://man.yolinux.com/cgi-bin/man2html?cgi_command=nmblookup) -A hostname	lookup NetBIOS names.
ROUTE PRINT	route (http://man.yolinux.com/cgi-bin/man2html?cgi_command=route) -n	Print routing table.
NET HELP START	chkconfig (http://man.yolinux.com/cgi-bin/man2html?cgi_command=chkconfig) --list grep on	List services.
NET START <i>service-name</i> NET STOP <i>service-name</i>	service (http://man.yolinux.com/cgi-bin/man2html?cgi_command=service) <i>service-name</i> start service (http://man.yolinux.com/cgi-bin/man2html?cgi_command=service) <i>service-name</i> stop	Start/stop service/daemon.
NET SHARES	df (http://man.yolinux.com/cgi-bin/man2html?cgi_command=df)	Show mounted shares/filesystems.
NET SEND <node-name> <message> (NT)	smbclient -M <i>MS-Windows-host-name</i> talk (http://man.yolinux.com/cgi-bin/man2html?cgi_command=talk)	Send pop-up to a MS/Windows PC Send message to another Unix/Linux user. See Y (LinuxTutorialMicrosoftWindowsNetworkIntegratic
WIN	startx (http://man.yolinux.com/cgi-bin/man2html?cgi_command=startx)	Start X-Windows.
REBOOT	shutdown (http://man.yolinux.com/cgi-bin/man2html?cgi_command=shutdown) -r now	Reboot system.
<p>To find out how to do something on UNIX simply type "man -k subject_matter". This will do a key word search for all commands dealing with the subject matter. Then use the appropriate command. Online manuals are available on all the commands by typing "man command_name".</p> <p>MS/Windows info:</p> <ul style="list-style-type: none"> • http://www.mcmcse.com/ (http://www.mcmcse.com/) • http://www.techtutorials.net/ (http://www.techtutorials.net/) 		
DOS Descriptor/Operator	UNIX or Bash Descriptor/Operator	Description

\	/	Directory path delimiter
.\	./	Current directory
..\	../	Parent directory
ctrl-z	ctrl-d	End of file/close shell
ctrl-c	ctrl-c	Interrupt/process break
*	*	file name wild card
?	?	Single character wild card
%VAR%	\$VAR	Variable prefix
%1 %2 %3	\$1 \$2 \$3	First, second and third shell command line arguments.
/	-	Command line option flag prefix
		Pipe
>	>	stdout redirection
>>	>>	stdout redirection overwrite
<	<	stdin redirection

Shell Script Operators:

DOS Operator	UNIX or Bash Operator	Description
@ ECHO OFF	set +v	Set verbose mode off. -v: Echo each line of shell script as it is executed.
%	\$	command line argument prefix. DOS: %1 Bash: \$1 for first argument.
REM	#	Comment. (Not processed.)
==	=	string "equal to" comparison
!=	!=	string "not equal to" comparison
NOT	!	negative of test expression
CHOICE	case	case/switch statement
IF IF EXIST C:\filename IF NOT EXIST C:\filename	if [[test-resulting-in-bool]]; then ... elif ...; then ... else ... fi if [-e /dir/filename]; then if [! -e /dir/filename]; then	if-test If file exists If file does not exist.
GOTO ABC ... :ABC	goto ABC ... :ABC	Branch

FOR ... IN ... DO FOR %%fff IN (C:\dir*.*) DO echo %%fff	for ffilee in lliisst; do ...; done for ((expr1; expr2; expr3;)) do ...; done	For loop
ERRORLEVEL	\$?	exit status/return code
PAUSE	sleep	sleep for specified interval

Bash shell aliases for DOS users:

The following are bash shell aliases which can be added to the system profile or the user's personal profile (\$HOME/.bashrc) to correct and help DOS users on Linux.

```
alias dir="echo 'Use the command: ls -lF'"
alias tree="echo 'Use the command: ls -R'"
alias del="echo 'Use the command: rm -iv'"
alias move="echo 'Use the command: mv -iv'"
alias rename="echo 'Use the command: mv -iv'"
alias copy="echo 'Use the command: cp -piv'"
alias type="echo 'Use the command: cat'"
alias cls="echo 'Use the command: clear'"
alias mem="echo 'Use the command: free'"
alias ver="echo 'Use the command: uname -a'"
alias A="echo 'Use the command: mdir a:'"
alias a="A:"
alias C="echo 'No C drive in Linux. Go to your home directory with the command:
cd'"
alias c="C:"
```

Devices:

DOS Device	Linux Device	Description
NUL	/dev/null	Send into nothingness
CON	stdin	stdin from console
PRN LPT1	/dev/lp0	First printer device
COM1	/dev/ttyS0	Firsst serial port

Equivalent Linux and MS/Windows GUI Applications:

MS/Windows Command	Linux Command	Description
C:\WINDOWS\cmd	gnome-terminal konsole	Command Text Terminal
C:\WINDOWS\explorer	nautilus --no-desktop	File browser
c:\Program Files\Internet Explorer\iexplore	firefox mozilla	Web browser
C:\WINDOWS\notepad C:\Program Files\Windows NT\Accessories\wordpad	gedit	Text editor

C:\Program Files\Microsoft Office\Office10 \winword excel powerpnt	oowriter oocalc ooimpress	MS/Office and Open Office suites (ooffice)
C:\Program Files\Adobe\Acrobat 7.0 \Reader\ acord32	acroread	Adobe PDF viewer
mspaint	tuxpaint xfig gimp	Graphics and painting program
C:\Program Files\WinZip\ winzip32	file-roller	File compress / decompress / pack / unpack
taskmgr	ksysguard qps gnome-system- monitor xosview	Process and system load monitor

Links:

YoLinux Tutorials:

- Microsoft Windows Network integration tutorial
(LinuxTutorialMicrosoftWindowsNetworkIntegration.html)
- Running Microsoft Windows programs on Linux (LinuxTutorialRunMicrosoftExe.html)




Links:

- bash (http://man.yolinux.com/cgi-bin/man2html?cgi_command=bash) - Bash man page



Books:

	<p>"Learning the Bash Shell" by Cameron Newham, Bill Rosenblatt O'Reilly & Associates, ISBN# 1565923472 This book is a great bash shell script book.</p>	 <p>(http://www.amazon.com/gp/redirect.html?ie=UTF8&location=http://www.amazon.com/exec/obidos/ASIN/1565923472)</p>
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	"Classic Shell Scripting" by Arnold Robbins, Nelson H.F. Beebe O'Reilly & Associates, ISBN# 0596005954	 (http://www.amazon.com/gp/redirect.html?ie=UTF8&location=http://www.amazon.com/exec/obidos/ASIN/0596005954)
	"Wicked Cool Shell Scripts" by Dave Taylor No Starch Press, ISBN# 1593270127	 (http://www.amazon.com/gp/redirect.html?ie=UTF8&location=http://www.amazon.com/exec/obidos/ASIN/1593270127)
	"Microsoft Windows Command-Line Administrator's Pocket Consultant" by William R. Stanek Sams, ISBN# 0735620385	 (http://www.amazon.com/gp/redirect.html?ie=UTF8&location=http://www.amazon.com/exec/obidos/ASIN/0735620385)
	"Windows Xp: Command Line" by Carolyn Z. Gillay, Bette A. Peat Sams, ISBN# 1887902821	 (http://www.amazon.com/gp/redirect.html?ie=UTF8&location=http://www.amazon.com/exec/obidos/ASIN/1887902821)
	"Windows XP Under the Hood: Hardcore Windows Scripting and Command Line Power" by Brian Knittel Sams, ISBN# 0789727331	 (http://www.amazon.com/gp/redirect.html?ie=UTF8&location=http://www.amazon.com/exec/obidos/ASIN/0789727331)

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