

OpenVMS Commands with unix equivalents

OpenVMS	unix	Explanation/examples
APPEND	cat	Concatenates files. If contents of (Bourne & Korn)set (C shell) in B
ASSIGN or DEFINE	=	
ATTACH	fg	
BACKUP	tar or pax	back up files into a tar file.
/INIT	tar -c or pax	Restore files.
/LIST	tar -t	List contents.
/LOG	tar -v	Report progress.
/NOREWIND	tar -r	Write at end of existing backup (tar
/RECORD	tar -m	Update file's modification date upo
COPY	cp	Copy a file
COPY	ftp	Copy to/from a nontrusted remote hos
COPY	rcp	Copy to/from a remote host.
COPY /CONFIRM	cp -i	Confirm before copying.
CREATE	touch	Create or update a file.
/DIRECTORY	mkdir	Create a subdirectory.
CREATE filename	cat << filename	Create a file from the keyboard.
CREATE filename	cat	
DEBUG	dbx	Debug a program.
DELETE	rm	Delete a file.
DELETE	rmdir	Delete an empty subdirectory.
/CONFIRM	rm -i	Confirm deletion.
/ENTRY	lprm	Remove queued line printer job.
/QUEUE	lprm -P	Remove all jobs from the queue.
/LOG	rm -e	Delete files and list them as they a
/SYMBOL	unset	Get rid of an environment variable.
DIFFERENCES	diff	Display all differences in files or
/MAXIMUM_DIFF= 1	cmp	Display first difference in two file
/NUMBER NL:	cat -n	Display a file with line numbers.
/SLP	diff -e	Generate editing changes for the ed
DIRECTORY	ls	List files.
DIRECTORY [...]	ls -R	Do a recursive directory/list of fil
DIRECTORY [...]	find	Find a file
DIRECTORY *.DIR	ls -d	List directory name(s) only ls -Rd
/BY_OWNER	ls -l dir grep owner	List only those files owned
/COLUMN	ls -1	List one file per line.
/DATE	ls -c	List by creation/last modification.
/FULL	ls -l	Long listing.
/FULL /TOTAL	du	Summarize disk usage.
/MODIFIED /SINCE [...]	find -mtime +n	Modified more than n days ago.
/MODIFIED /BEFORE [...]	find -mtime +n	Modified more than n days ago.
/OWNER	ls -g	Include group (used with).
/SIZE	ls -s	Include size.
DISMOUNT /UNLOAD	mt rewofmt offline	Rewind and unload the tape.
DUMP	od	Dump a file in various formats.
/HEXADECIMAL	od -h	Hexadecimal dump.
/OCTAL	od -o	Octal dump.
EDIT /EDT, EDIT /EVE, EVE	vi	Screen editor session.
EDIT /RECOVER	vi -r	Recover a screen editing session.
EXCHANGE	dd	Back up, restore, and convert nonsta
EXIT	exit	Terminate a script.
HELP	man	Display online reference pages.
HELP HINTS	man -k topic	Display a list of commands that corr
INQUIRE /NOPUNCTUATION	read choice?	Prompt for a response and put the re
INITIALIZE device:	fddisk -fmt device	Format a diskette.
LIBRARY	ar	Library maintainer.
/CREATE	ar -cr	Create library.

/EXTRACT	ar -x	Extract modules.
/INSERT	ar -q	Insert modules.
/LIST	ar -t	List modules.
/REPLACE	ar -r	Replace modules.
LINK	ld	Link compiled source code into an ex
login procedure LOGIN /CLI	.login.cshrc.profile.kshrc	Set of commands auto
LOGOUT	logout C shellexit	Bourne & Korn shell Terminate a
MAIL	mail	Invoke the mail utility.
MERGE	sort -m	Merge sorted files.
MOUNT	mount	Mount a tape.
ON COUNTR0L_C THEN	trap 2	Enable handler for Stop signal.
ON CONTROL_Y	onintr	On interrupt.
PHONE	talk tty	name Communicate interactively wi
PRINT	lpr	Print a file on the default line pri
/COPIES=N	lpr -#n	Print n copies.
/DELETE	lpr -r	Remove file after printing
PRINT commands cont.		
/FORM	lpr -ln	Make page n lines (default = 66)
/FORM	lpr -n	Print n column output.
/FORM	lpr -wn	Set line width to n
/HEADER	pr -h string lpr	Print a header on each page.
/NAME=jobname	lpr -Jjobname	Include job name on the first page o
/NOFLAG	lpr -h	Print with no header page.
/NOTIFY	lpr -m	Send mail upon completion.
/PAGES=(n, ^0^0)	lpr +n	Begin printing on page n.
/QUEUE	lpr -Pqueue	Print a file on the specified queue.
READ	read	Read input (korn shell)
RECALL /ALL	history	Recall command lines
REPLY /USER	write	Send a brief message to a logged-in
RENAME mv	move/rename a file(s)	
/CONFIRM	mv -i	confirm the move/rename of a file(s)
SEARCH	grep	Search files for strings.
/MATCH=NOR	grep -v	List only lines that do not match
/NOEXACT	grep -i	Ignore case distinctions.
/NUMBERS	grep -n	Precede each match with line number.
/STATISTICS	grep -c	List only a file name that contains
/WINDOW = 0	grep -l	Return only file name(s) that contai
file pat^0rn /WINDOW=5	more -5	+ /pat^0rn file Display sear
file pat^0rn /WIND=(5,0)	cat file more	-5+pat^0rn Display search line
SET DEFAULT	cd	Change directory.
SET FILE/OWNER	chgrp	Change group ownership of a file.
SET HOST	rlogin	Network login to trusted host.
SET HOST /DTE	tip	Dial remote host.
SET HOST 0 /LOG	script	Record a transcript of a terminal se
SET PASSWORD	passwd	Change you local password.
SET PROCESS /PRIORITY	nice or renice	Change the priority of a process.
SET PROTECTION	chmod	Change file protection.
/DEFAULT	umask	Change default protection for files
SET TERMINAL	tset or stty	Set terminal characteristics.
SET VERIFY	ksh -x orcsh -x	Verify command or script execution.
SHOW DEFAULT	pwd	Display current directory.
SHOW DEVICE /FULL	df filesystem	Display information on a file system
SHOW LOGICAL	printenv	Display environment characteristics.
SHOW PROCESS /ALL	ps -l	Dislay all processes on system.
SHOW /QUEUE	lpq	Display default print queue status.
SHOW STATUS	time	Display resources used by a process.
SHOW TIME	date	Display date and time
SHOW USERS	who	Display the list of current system u
SORT	sort	Sort and merge.
/KEY sort	+fskip.cskip /-fskip.cskip	Starting/ending pori

/OUTPUT	sort -o file	Direct output to file.
SPAWN /NOWAIT	bg	Move a process to the background.
STOP /ID	kill -9	Remove a process.
SUBMIT	at	Start a process at a latter time.
TYPE	cat	Display a file
/PAGE	more	Display a file, pausing after each p
/PAGE NL:	clear	Clear the terminal screen.
WRITE	/bin/echovar > file	Create a file and write a st
WRITE	/bin/echovar >> file	Append a string or the conte
WRITE SYS\$OUTPUT	echo (c Shell)print (Korn)	Write to standard ou

OpenVMS Mathematical Operators Function Equivalents

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OpenVMS	unix	Explanation
.EQ., .EQS.	==	Equal to
.NE., .NES.	!	Not equal to
.AND.	&&	Boolean and
.OR.		Boolean or
.GT., .GTS.	>	Greater than
.GE., .GES.	>=	Greater than or equal to
.LT., .LTS.	<	Less than
.LE., .LES.	<=	Less than or euqal to
+	+	add
-	-	Subtract
*	*	Multiply
/	/	Divide
var + 1	var++	Increment by 1
var - 1	var--	Decrement by 1
	%	Modulo
	>>	Right bit shift
	<<	Left bit shift
.NOT.	~	1^0s complement
.NOT.	!	Logical negation
.OR.		Inclusive OR
	^	Exclusive OR
.AND.	&	And

OpenVMS Lexical Function and unix Equivalents

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OpenVMS	unix	Explanation
F\$ENVIRONMENT(^ÓINTERACTIVE^Ô)	tty -s	Determine if you are an inte
F\$EXTRACT(start, length, string)	cut -c	Locate fields in a test stri
F\$ELEMENT(element#, delimiter, string)	cut -f -d awk	Locate delimited fields in a
F\$ENVIRONMENT(^ÓPROCEDURE^Ô)	\$0 (Korn)\$arg [0] (C)	Get name of currentl
F\$TRANSLATE(^ÓSYS\$SYSDEVICE^Ô)	size -r	Get name of the device from
F\$GETDVI(^ÓTT:^Ô, ^ÓDEVNAM^Ô)	tty -s	Determine the name of the te
F\$GETSYI(^ÓHW_NAME^Ô)	size -c	Get model name of the CPU
F\$GETSYI(^ÓHW_MODEL^Ô)F\$GETSYI(^ÓCPU^Ô)	size -wt	Return workstation device ty
F\$GETSYI(^ÓVERSION^Ô)	size -bstrings /vmunix grep ^Ñ(Rev^Ôuname	
F\$GETSYI(^ÓPHYSICALPAGES^Ô)	uerf -r 300 -R grep physical (+2)wc -c/dev	
F\$GETSYI(^ÓBOOTTIME^Ô)	who -b	Get system boot time.

unix Branching statements

DCL command procedures rely on the statements if, gosub, call, and goto for program

Shell Branching Statements Offered

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csh	if, goto, while, foreach, switch, shift
ksh	do, case, elif, for, function, if, select, time, until, while
sh	if, for, while, until, case

Debugging Shell Scripts

Debugging of shell scripts is done by invoking ksh or sh scripts with the -x and -v