	00111/51/51/01/0		y
CONVENTIONS  The following conventions have been used in illustrating command formats:		devnnu:	Any physical device name, followed by a 2-digit node number and a 1-digit unit number.
Convention	Meaning	devu:	Any physical device name followed by
UPPERCASE LETTERS	Represent necessary portions of the command line format.	drives	a 1-digit unit number.  The physical drives on which a unit is to be mounted.
lowercase letters	Represent variable portions of the command line format.	file[[.ext]]	Any legal filename from one to six characters, followed by an optional
<b>{}</b>	Represent alternative selections for the command line; one of the alternatives within the braces must be chosen by the user.	file-spec	filename extension.  A device name, a filename, a filename extension, and a directory name:
	Represent optional portions of the		
	command line.  ble portions of the command line descriptions.	input-specifications	A list of input file specifications for the files to be processed.
The left-column lists the variable names used on this reference card; the right-column explains what the user must supply in place of the variable name.		jobn	A user's job number assigned by the system.
٨	A delimiter of an identifier; it can be any alphanumeric character.	jobname	A name of up to six characters for the job being entered into one of the system queues.
addr	An octal address.	lh	The left half of a 36-bit word.
arg	A letter or word specifying the desired function of a command.	log-dev	Any logical device name from one to six alphanumeric characters.
condition	One or more reasons for allowing (not allowing) a break condition to occur. It can be either READ, WRITE, EXECUTE ALL, or MUUO.	log-file-spec	A file specification for the file that is to be used to record action taken during the execution of the control file.
core	A decimal number of blocks (n or nK) or pages (nP) of core.	name	A one- to six-character SIXBIT name to be used as an identifier. In some
ctrl-file- spec	A file specification, plus switches and keyword parameters, for the control file being submitted to the Batch input		command lines, name must be de- limited by an alphanumeric character (refer to the description of ^).
davias	queue.  Either dev, devnn, devnnu, or devu.	n	A number.
device dev:	Any physical device name.	nnn	The density for the specified magnetic tape. The density can be 200, 556, or 800 bpi.
devnn:	Any physical device name, followed by a 2-digit node number.	nnnn	A decimal number between 3 and 4094 designating the block size for the specified magnetic tape.
	1		2

Convention

Meaning

nvention	Meaning		
nn>	A three-digit octal code indicating the protection of a file.		
	A TTY number.		
g	A program name of six or fewer characters.		
eue name	A queue name which can be either INF LPT:, CDP:, PTP:, or PLT:.		
	The right half of a 36-bit word.		
itches	One or more switches used to modify the command string. Each switch is preceded by a slash.		
t	A message to be sent to the designate user or terminal.		
er number]	A numeric identification assigned to t user for the purpose of gaining acces to the system. It is usually two number separated by a comma.		
te that the complete command format has been shown for the command pending on the circumstances, only part of this format may be required for to the <u>DECsystem-10 Operating System Commands</u> manual in orded letermine the arguments required for a particular task. In addition, the mands can be abbreviated as long as the abbreviation does not conflict hany other command abbreviation.			
ny command strings allow wild-card characters to be used in place on nanumeric characters. These characters permit more than one file or ectory to be referenced by a single specification. Two such wild-card racters are available:			
* — The asterisk is a wild card for an entire field. When positioned the appropriate context, it means:			
	Examples		

a. any filename or extension

or programmer number

(also any subfile directory)

Note that \*.\* and [\*,\*] are also possible.

any project number

Allocates an I/O device to the user's job without operator intervention. Assigns a logical name to a device. ATTACH jobn [user number] 🚽 Detaches the current job and connects the terminal to the specified detached job. BACKSPACE MTAn:m (FILES ) Spaces a magtape backward the specified number of files or records. CCONTINUE -Continues the program from the point at which it was interrupted. but leaves the terminal in monitor mode. CLOSE device Terminates I/O currently in progress on the specified device, performs the CLOSE monitor call, but does not release the device. COMPILE list Produces relocatable binary files for the specified source files. \*.EXT FILNAM.\* [\*,1164] [27,\*] CONTINUE -Continues the program from the point at which it was interrupted. COPY file-spec < nnn> = file-spec | ,... | Transfers files from one I/O device to another.

2. ? - The guestion mark is a wild card for a single character. It can be used in any field mentioned above, provided the \* does not share the field. It means: any character. CPUNCH iobname = list of input specifications -\*.EX? FIL???.EX? ?ILNAM.\*[27.116?] [\*.11??] In addition, the directory name can be specified with the project number. CREATE file.ext the programmer number, or both numbers missing. Opens a new file on disk for creation with LINED. COMMANDS CREF command. CSTART addr -D Ih rh addr 🚽 Deposits information in the user's core area. DAYTIME ~ Types the current date followed by the time of day DCORE file-specification Writes a core image file of the user's core area. DDT∡ (automatic in 6.01 and later monitors). DEASSIGN device available devices and clears logical name assignments. DEBUG list 🚽 program, and prepares for debugging. DELETE list 🚽 Deletes files from DECtape or disk.

```
CORE n →
       Types or modifies the amount of core assigned to the user's job
       Places entries into the card punch output spooling queue.
       Lists on the line printer any cross-referenced listing files generated
       by a previous COMPILE, LOAD, EXECUTE, or DEBUG
        Begins execution of a program that was either loaded with a GET
       command or interrupted, but leaves the terminal in monitor mode.
       Copies the saved program counter and starts the program at the
        beginning address of DDT, if DDT was loaded with the program
       Returns devices assigned to the user's job to the monitor's pool of
       Produces relocatable binary files for the specified source files.
       loads the .REL file along with an appropriate system debugging
```

FINISH device DETACH -Disconnects the terminal from the current job without affecting the status of the job. DIRECT | output file specification = list of input file specifications | -Lists the directory entries for the specified. No argument causes the user's directory entries to be listed. DISMOUNT device /switches Returns, via the operator, devices assigned to the user's job to the monitor's pool of available devices. DSK jobn 🚽 Types disk usage for the combined structures of the specified DUMP /command //command... @ file-specification Writes a core image file, analyzes the file written, and provides printed output. E addr → Examines the specified core location in the user's core area. EDIT file.ext Opens the specified file for editing with LINED. EOF MTAn: → Writes an end-of-file mark on the specified magnetic tape. EXECUTE list 🚽 Produces relocatable binary files for the specified source files. loads the .REL files, and begins execution. FILE (C-D. id, file.ext, file.ext F, ^tape-id^, file-spec [,...] L, id ♣ R, ^tape-id^, file-spec [,...] Z,^tape-id^, file-spec [,...] Provides remote control, via the operator, of DECtape to disk and disk to DECtape transfers.

Terminates I/O in progress on the specified device and performs a RELEASE monitor call and a DEASSIGN command. Creates a library REL file by reading a temporary file generated by a previous COMPILE, LOAD, EXECUTE, or DEBUG command containing the /FUDGE switch. GET file-spec core Loads a core image for the specified device, but does not begin execution. HALT (CTRL/C) Stops the job and stores the program counter in the job data area. CTRL/C can be used at user level as well as at monitor level. HELP { device\* device:name } ] Outputs useful information on various system features. INITIA arg Performs standard system initialization for the terminal issuing the command. JCONT iobn Continues the specified job if it was in a  $\uparrow$ C state. KJOB | file-spec =/letter list-of-file-structure-names,... | Gives up access to the system. LABEL device: ^name^ -Writes an identifier onto a DECtape. LIST list Lists the specified files on the line printer LOAD list Produces relocatable binary files for the specified files, and loads the .REL files generated. LOCATE node-id Establishes logically, the user's job at a specified node.

LOGIN [ (user number [ /switches ] ) [user number] [/switches] Provides access to the system. MAKE file-spec Opens a new file on disk for creation with TECO. MOUNT device: log-dev: /switches drives Allocates an I/O device to the user's job via the operator. NODE node-id physical-device-name logical-device-name Types out node information, or assigns the designated I/O device to the specified node, and optionally assigns a logical device name. NSAVE file-specification core Writes a core image of the user's core area on the specified device. NSSAVE file-specification core Writes a core image of the user's core area on the specified device. OSAVE file-specification core Writes a core image of the user's core area on the specified device. OSSAVE file-specification core Writes a core image of the user's core area on the specified device. PJOB ✓ Outputs the job number to which the terminal is currently PLEASE device:program!text

Provides two-way communication between the user and the opera-PLOT jobname = list-of-input-specifications -Places entries into the plotter output queue. PRESERVE file.ext .... Renames the specified files with the standard protection code

ORed with 100.

PRINT jobname = list-of-input-specifications

Places entries into the line printer output spooling queue.

PROTECT file <nnn> | ,... |

Sets the specified files to the requested protections.

QUEUE (INP:jobname = ctrl-file-spec, log-file-spec -) queue name:jobname = list-of-file-specs listing-file-specs/LIST = list-of-queue-names

Enters items into the specified system queue.

R file.ext core

Loads a core image from the system device (SYS:) and starts it at the location specified within the file.

REASSIGN device: jobn

Gives the specified device to the designated job.

REENTER **→** 

Starts the program at an alternate entry point specified by the

RENAME new = old ,new = old,...

Changes the name and protection of one or more files on DECtape

RESOURCES -

Outputs the names of all available devices (except PTYs and TTYs), all file structures, and all physical units not in file structures.

REWIND device:

Rewinds a magnetic tape or DECtape.

RUN file-spec core

Loads a core image from the specified device and starts it at the location specified within the file.

SAVE file-spec core

Writes a core image of the user's core area on the specified device.

SCHED -

Outputs the schedule bits set by the last SET SCHED command.

SEND (device:text -JOB n text 🕳 n: text

Provides a one-way interconsole line of communication.

SET BLOCKSIZE device:nnnn

Sets the default blocksize for the specified magnetic tape.

SET BREAK AT addr ON condition NO condition NONE **⊸**✓ USERS ⁴-✓ NO USERS⁴-

Sets address break locations in programs according to specified conditions.

SET CDR filename

Sets the filename for the next card-reader spooling intercept.

SET CPU<sup>1,2</sup> (CPxn → NO CPxn )ALL ◄ ONLY CPxn -

Sets the CPU specification for the job.

SET DENSITY device:nnn

Sets the default density for the specified magnetic tape.

SET DSKFUL SERROR

Controls the job when the user has exhausted his disk space.

SET DSKPRI n - 1

Sets the priority for the job's disk operations (data transfers and head positionings)

SET HPQ n 🚽 1

Sets the high priority scheduler run queue for the job.

SET PHYSICAL (LIMIT core -GUIDELINE core

> Specifies when the job will go virtual and specifies a guideline for the page fault handler if GUIDELINE is designated.

SET SPOOL device: [,...] NONE NO device [,...]

Adds devices to or deletes devices from the list of spooled devices for this job.

SET TIME n-

Sets the central processor time limit for this job.

SET TTY ∫ NO arg ✓

Sets properties to be associated with the terminal.

SET VIRTUAL LIMIT core

Specifies the limit on the virtual memory for a job.

SET WATCH (arg [,...] NO arg [ ,...

Sets the output of incremental job statistics.

SKIP MTAn: (x FILES < RECORDS ◄

> Moves the specified magnetic tape forward the designated number of files or records or to the logical end of tape.

SSAVE file-spec core

Writes a core image of the user's core area on the specified device

START addr

Begins execution of a program either previously loaded with the GET command or interrupted while running.

SUBMIT jobname = ctrl-file-spec, log-file-spec //switches

Places entries into the Batch input queue.

SYSTAT arg

Prints information about the current status of the system.

TECO file-spec ✓

Opens the specified file for editing with TECO

TIME jobn*⊸*∕

Outputs the running time for the specified job.

TPUNCH iobname = list-of-input-specs -

Places entries into the paper tape punch output spooling queue.

TTY JNO arg 🗸

Sets properties to be associated with the terminal. TYPE list

Types the specified file(s) on the user's terminal.

UNLOAD device ✓

Rewinds and unloads the specified magnetic tape or DECtape.

∫USESTAT-/ CTRL/T

Prints information on the terminal concerning the user's job. CTRL/T can be used at the user level also.

**VERSION** 

Outputs the version number of a program on the terminal.

WHERE device

Outputs the node number of the specified device.

ZERO device : [[directory]]

Clears the directory of the specified device.

com - songle letter as below m - last to line (:m may be smoothed) A first line \* last line 1: \* entire file · current line Leve) previous lino <4>> next line Commands

. 505

\* com angl ang 2 --

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Requires certain bits to be set in the privilege word.

<sup>3</sup> Used with KI10/KL10 virtual memory processors only.

Additional copies may be ordered from the Software Distribution Center.

Digital Equipment Corporation, Whitney Street, Northboro, Mass.

<sup>2</sup> Available only on a multiprocessor system.

Operator-privileged formats.

Order No: DEC-10-OTSMB-C-D

## **OPERATING SYSTEM** COMMANDS

REFERENCE CARD

(6.02 Monitor)

DEC-10-OTSMB-C-D

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505 EDITOR

nave arrent ple mot dose

5 pld serv 7 new 2 ero 7 m:m

substitute string

T x, m; m bram for = copy /delete

close, some line mes

quit (not to den)

sequence in mor di