

decsystem10

OPERATING SYSTEM
COMMANDS

REFERENCE CARD

digital

CONVENTIONS

The following conventions have been used in illustrating the command format:

- adr** an octal address .
- arg** a letter or word specifying the desired function of the command .
- control file** the name of the control file for the Batch System .
- core** decimal number of blocks or pages of core .
- dev:** any physical device name of three characters (e.g., MTA). The colon must be included .
- devn:** any physical device name of three characters followed by a unit number of one to three numerals (e.g., DTA3). The colon must be included .
- devSnn:** any physical device name of three characters followed by the letter S and a station number (e.g., LPTS2). The colon must be included .
- [directory]** a designation identifying a particular disk area . This designation can be in the form [proj, prog] which identifies a UFD or [proj, prog, sfd, sfd, ...] which identifies a sub-file directory path branching from a UFD . The square brackets are required .
- drives** the physical drives on which a unit is to be mounted .
- file .ext** any legal filename from one to six characters followed by a dot and an extension of zero to three characters .
- file structure** the name of a particular disk . This name is usually in the form DSKA, DSKB, etc .
- input specifications** file specifications for the disk files to be processed .
- jobn** a user's job number assigned by the system .
- jobname** a name of up to six characters of the job being entered into one of the system queues .
- lh** left half of a 36-bit word .
- logdev:** any logical device name from one to six alphanumeric characters . The colon should be included .
- log file** the name to be given to the log file created by the Batch system .
- n or x** a number .

< nnn >	a three-digit octal code indicating the protection of a file. This code can appear only on the output side of the command string and must be enclosed in angle brackets.
prog	a program name of six or fewer characters.
rh	right half of a 36-bit word.
/S	one or more switches used to modify the command string.
text	a message to be sent to the designated user or terminal.
[user number]	a numeric identification assigned to the user for the purpose of gaining access to the system. It is usually two numbers separated by a comma.
=	an equal sign used in command strings to separate the output specification (left of the equal sign) from the input specification (right of the equal sign).

Note that the complete command format has been shown for the commands. Depending on the circumstances, only part of this format may be required. Refer to the DECsystem-10 Operating System Commands manual in order to determine the arguments required for a particular task. In addition, the commands can be abbreviated as long as the abbreviation does not conflict with any other command abbreviation.

NOTE

Many command strings allow the wildcard construction to be used. This means that the filename, the extension, or the directory name may be replaced totally with an asterisk or partially with a question mark to designate certain filenames, extensions, or directories. The asterisk is used as a wild field to designate the entire filename, extension, or directory name.

The question mark is used as a wild character to designate part of the filename, extension, or directory name. A question mark is used for each character that is to be matched; i.e., PR?? matches on four characters or less.

The asterisk and the question mark can be specified together in the same construction.

In addition, the directory name can be specified with the project number, the programmer number, or both numbers missing.

[15,23]	The UFD [15,23].
[,30]	The UFD that has the user's project number and the specified programmer number (30).
[,]	The user's UFD.
[-]	The user's default directory which may be different from his UFD (refer to the <u>DECsystem-10 Monitor Calls</u> manual).

COMMANDS

- ALCFIL** **R ALCFIL**
Allocates space for a new file or reallocates space for an existing file.
- ASSIGN** **ASSIGN dev: logdev:**
 ASSIGN devSnn: logdev:
 ASSIGN devn: logdev:
Allocates an I/O device to the user's job without operator intervention.
- ATTACH**¹ **ATTACH jobn [user number]**
Detaches the current job and connects the terminal to the specified detached job.
- BACKSPACE**¹ **BACKSPACE MTAn:x FILES**
 BACKSPACE MTAn:x RECORDS
Spaces a magnetic tape backward the specified number of files or records.
- BACKUP** **R BACKUP**
Saves disk files on magnetic tape, DECtape, or disk.
- CCONTINUE**¹ **CCONTINUE**
Continues the program from the point at which it was interrupted, but leaves the terminal in monitor mode.
- CLOSE**¹ **CLOSE dev:**
Terminates I/O currently in progress on the specified device, performs the CLOSE UO, but does not release the device.
- COMPILE** **COMPILE dev: file.ext [directory]/S, ...**
Produces relocatable binary files (.REL files) for the specified source files.
- CONTINUE** **CONTINUE**
Continues the program from the point at which it was interrupted.
- COPY**¹ **COPY dev: file.ext [directory] < nnn > = dev: file.ext**
 [directory], file.ext [directory], ...
Transfers files from one I/O device to another.
- COPY** **R COPY**
Copies contents of one DECtape to another, zeroes the blocks on a DECtape and clears the directory, compares two DECtapes, and/or loads and writes a bootstrap loader.
- CORE** **CORE n**
Types or modifies the amount of core assigned to the user's job.
- CPUNCH**¹ **CPUNCH jobname = dev:file.ext[directory]/S, ...**
Places entries into the card punch output spooling queue.
- CREATE**¹ **CREATE file.ext**
Makes a new file on disk for creation with LINED.

- CREF¹** **CREF**
 Lists on LPT: any cross-referenced listing files generated by a previous **COMPILE**, **LOAD**, **EXECUTE**, or **DEBUG** command.
- CSTART¹** **CSTART adr**
 Begins execution of a program that was either loaded with a **GET** command or interrupted, but leaves the terminal in monitor mode.
- D(eposit)** **D lh rh adr**
 Deposits information in the user's core area.
- DAYTIME** **DAYTIME**
 Types the current date followed by the time of day.
- DCORE¹** **DCORE dev:file.ext [directory]**
 Writes a core image file of the user's core area.
- DDT** **DDT**
 Copies the saved program counter and starts the program at the beginning address of **DDT**.
- DEASSIGN** **DEASSIGN dev:**
 Returns devices assigned to the user's job to the monitor's pool of available devices and clears logical names.
- DEBUG** **DEBUG dev:file.ext [directory] /S, ...**
 Produces relocatable binary files (.REL files) for the specified source files, loads the .REL files, and prepares for debugging with **DDT**.
- DELETE¹** **DELETE dev: file.ext [directory], ...**
 Deletes files from DECtape or disk.
- DETACH¹** **DETACH**
 Disconnects the terminal from the current job without affecting the status of the job.
- DIRECT¹** **DIRECT dev:file.ext [directory] = dev:file.ext [directory]/S, ...**
 Lists the directory entries for the specified arguments.
- DISMOUNT¹** **DISMOUNT dev:/S...**
 Returns, via the operator, devices assigned to the user's job to the monitor's pool of available devices.
- DSK¹** **DSK jobn**
 Types disk usage for the combined structures of the specified job.
- DUMP¹** **DUMP/S/S...**
 Writes a core image file and analyzes the file written in order to provide printable output.
- DUMP** **R DUMP**
 Provides printable output of data files in specified forms and modes.

- E(xamine) E adr
Examines the specified core location in the user's area.
- EDIT¹ EDIT file.ext
Opens the specified file already existing on disk for editing with LINED.
- EOF EOF MTAn:
Writes an end-of-file mark on the specified magnetic tape.
- EXECUTE EXECUTE dev:file.ext [directory]/S, ...
Produces relocatable binary files (.REL files) for the specified source files, loads the .REL files, and begins execution.
- FILCOM R FILCOM
Compares two versions of a file and outputs any differences.
- FILE¹ FILE arg,id,file.ext,file.ext, ...
Provides remote control via the operator of DECTape-to-disk and disk-to-DECTape transfers.
- FILEX R FILEX
Converts between various core image formats, and reads and writes various directory formats.
- FINISH¹ FINISH dev:
Terminates I/O in progress on the specified device and performs the RELEASE UJO and DEASSIGN command.
- FUDGE¹ FUDGE
Creates a library REL file by reading a temporary file generated by a previous COMPILE, LOAD, EXECUTE, or DEBUG command.
- FUDGE2 R FUDGE2
Updates files containing relocatable binary programs, and manipulates programs within program files.
- GET GET dev:file.ext [directory] core
Loads a core image from the specified device, but does not begin execution.
- GLOB R GLOB
Reads multiple binary files to produce an alphabetical cross-referenced listing of all global symbols encountered.
- GRIPE R GRIPE
Accepts text from a user and records it in a disk file for the operations staff.
- HALT † C
Stops the job and stores the program counter in the job data area.
- HELP¹ HELP prog
Outputs useful documentation on various system features.

- INITIA**¹ **INITIA**
Performs standard system initialization for the terminal issuing the command.
- JCONT**¹ **JCONT jobn**
Continues the specified job if it was in a † C state.
- KJOB** **KJOB logfile = file structures/S**
Gives up access to the system.
- LIST**¹ **LIST dev:file.ext [directory]/S**
Lists the specified files on the line printer.
- LOAD** **LOAD dev:file.ext[directory]/S, ...**
Produces relocatable binary files (.REL files) for the specified files and loads the .REL files generated.
- LOCATE**¹ **LOCATE nn**
Establishes the user's job at the specified station.
- LOGIN** **LOGIN user number**
Gains access to the system.
- MAKE**¹ **MAKE dev:file.ext [directory]**
Opens a new file on disk for creation with TECO.
- MOUNT**¹ **MOUNT dev:logdev:/S drives**
Allocates an I/O device to the user's job via the operator.
- OPSER** **R OPSER**
Provides multiple job control from a single terminal.
- PJOB** **PJOB**
Outputs the job number to which the terminal is currently attached.
- PLEASE**¹ **PLEASE dev:prog!text**
Provides two-way communication between the user and the operator.
- PLOT**¹ **PLOT jobname = dev:file.ext [directory]/S, ...**
Places entries into the plotter output spooling queue.
- PRESERVE**¹ **PRESERVE file.ext, file.ext, ...**
Renames the specified files with the standard protection inclusively ORed with 100.
- PRINT**¹ **PRINT jobname = dev:file.ext [directory] /S, ...**
Places entries into the line printer output spooling queue.
- PROTECT**¹ **PROTECT file <nnn>, file <nnn>, ...**
Renames the specified files with the requested protections.
- PUNCH**¹ **PUNCH jobname = dev:file.ext [directory] /S, ...**
Places entries into the paper tape punch output spooling queue.
- QUEUE**¹ **QUEUE queue name:jobname = input specifications**
Enters items into the specified system queue.

- QUOLST R QUOLST
Types the used, logged-in quota, and logged-out quota for each file structure for which the user has access, followed by the number of free blocks left on that structure.
- R R file.ext core
Loads a core image from the system device (SYS:) and starts it at the location specified within the file.
- REASSIGN REASSIGN dev:jobn
Gives the specified device to the designated job.
- REATA R REATA
Transfers the job from the current terminal to the specified terminal.
- REENTER REENTER
Starts the program at an alternate entry point specified by the program.
- RENAME¹ RENAME new = old, new = old, ...
Changes one or more items of the file specification of files on DECTape or disk.
- RESOURCES RESOURCES
Outputs the names of all available devices (except for TTY's and PTY's), all file structures, and all physical units not in file structures.
- RESTORE R RESTORE
Puts on disk data saved on a backup medium with the BACKUP program.
- REWIND¹ REWIND dev:
Rewinds a magnetic tape or DECTape.
- RUN RUN dev:file.ext [directory] core
Loads a core image from the specified device and starts it at the location specified within the file.
- SAVE SAVE dev:file.ext [directory] core
Writes a core image of the user's core area on the specified device.
- SCHED¹ SCHED
Outputs the schedule bits set by the last SET SCHED command.
- SEND¹ SEND dev:text
 SEND JOBn text
Provides a one-way interconsole line of communication.
- SET BLOCKSIZE¹ SET BLOCKSIZE dev:nnnn
Sets the default blocksize for the specified magnetic tape.
- SET CDR¹ SET CDR file
Sets the filename for the next card-reader spooling intercept.

- SET CPU** ^{2,3,4} SET CPU CP_xn
 SET CPU NO CP_xn
 SET CPU ALL
 SET CPU ONLY CP_xn
 Sets the CPU specification for the job.
- SET DENSITY** ¹ SET DENSITY dev:nnn
 Sets the default density for the specified magnetic tape.
- SET DSKPRI** ^{1,2,4} SET DSKPRI n
 Sets the priority for the job's disk operations (data transfers and head positionings).
- SET HPQ** ^{1,2} SET HPQ n
 Sets the high priority scheduler run queue for the job.
- SET SPOOL** ¹ SET SPOOL dev,dev,...
 SET SPOOL ALL
 SET SPOOL NONE
 SET SPOOL NO dev,dev,
 Adds devices to or deletes devices from the list of spooled devices for this job.
- SETSRC** R SETSRC
 Manipulates the job's search list or system's search list.
- SET TIME** ¹ SET TIME n
 Sets the central processor time limit for the job.
- SET TTY** ¹ SET TTY NO arg
 SET TTY arg
 Sets properties to be associated with the terminal.
- SET WATCH** ¹ SET WATCH arg, arg,...
 SET WATCH ALL
 SET WATCH NONE
 SET WATCH NO arg,arg,...
 Sets the output of incremental job statistics.
- SKIP** ¹ SKIP MTAn: x FILES
 SKIP MTAn: x RECORDS
 SKIP MTAn: EOT
 Moves the specified magnetic tape forward the designated number of files or records or to the logical end of tape.
- SSAVE** SSAVE dev:file.ext [directory] core
 Writes a core image of the user's core area on the specified device with the high segment being sharable when it is loaded with a GET command.
- START** START adr
 Begins execution of a program either previously loaded with the GET command or interrupted.
- SUBMIT** ¹ SUBMIT jobname = control file, log file /S
 Place entries into the Batch input queue.
- SYSTAT** ¹ SYSTAT /S
 Prints system information about the current system.

- TECO¹ TECO dev:file.ext [directory]
 Opens the specified file that already exists for editing with
 TECO.
- TIME TIME jobn
 Outputs the running time for the specified job.
- TPUNCH¹ TPUNCH jobname = dev:file.ext [directory]/S,...
 Places entries into the paper tape punch output spooling
 queue.
- TTY TTY NO arg
 TTY arg
 Sets properties to be associated with the terminal.
- TYPE¹ TYPE dev:file.ext [directory]/S,...
 Types the specified files on the user's terminal.
- UNLOAD¹ UNLOAD dev:
 Rewinds and unloads the specified magnetic tape or
 DECTape.
- VERSION¹ VERSION
 Outputs the version number of a program.
- WHERE¹ WHERE dev:
 Outputs the station number at which the specified device
 is located.
- ZERO¹ ZERO dev: [directory]
 Clears the directory of the specified device.

¹This command is normally not available with the DECsystem-1040.

²This command requires certain bits to be set in the privilege word. These bits are assigned by the manager of the installation and are described in the DECsystem-10 Monitor Calls manual.

³This command is available only on a multiprocessor system (DECsystem -1055 and DECsystem -1077).

⁴This command is available only with 5.05 and later monitors.

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