OPERATING SYSTEM COMMANDS

REFERENCE CARD

(5.06 Monitor)
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.
devSn:    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.
Ih        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 DECSYSTEM-10 Monitor Calls manual).
COMMANDS

ALCFIL     R ALCFIL
Allocates space for a new file or reallocated 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     ATTACH jobn [user number]
Detaches the current job and connects the terminal to the
specified detached job.

BACKSPACE BACKSPACE MTAn:x FILES
BACKSPACE MTAn:x RECORDS
Spaces a magnetic tape backward the specified number of
files or records.

CCONTINUE CCONTINUE
Continues the program from the point at which it was
interrupted, but leaves the terminal in monitor mode.

CLOSE      CLOSE dev:
Terminates I/O currently in progress on the specified device,
performs the CLOSE UUO, 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       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     CPUNCH jobname = dev:file.ext [directory]/S,...
Places entries into the card punch output spooling queue.

CREATE     CREATE file.ext
Makes a new file on disk for creation with LINED.

CREF       CREF
Lists on LPT: any cross-referenced listing files generated
by a previous COMPILE, LOAD, EXECUTE, or DEBUG
command.
CSTART

CSTART addr
Begins execution of a program that was either loaded with a GET command or interrupted, but leaves the terminal in monitor mode.

D(posit)

D lh rh addr
Deposits information in the user's core area.

DAYTIME

DAYTIME
Types the current date followed by the time of day.

DCORE

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.

DELETE

DELETE dev: file.ext [directory],...
Deletes files from DECTape or disk.

DETACH

DETACH
Disconnects the terminal from the current job without affecting the status of the job.

DIRECT

Lists the directory entries for the specified arguments.

DISMOUNT

DISMOUNT dev:/S...
Returns, via the operator, devices assigned to the user's job to the monitor's pool of available devices.

DSK

DSK jobn
Types disk usage for the combined structures of the specified job.

DUMP

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 addr
Examines the specified core location in the user's area.
EDIT
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.

FAILSAFE
FAILSAFE
Saves and restores disk files.

FILCOM
FILCOM
Compares two versions of a file and outputs any differences.

FILE
FILE arg, id, file.ext, file.ext,...
Provides remote control via the operator of DECTape-to-disk and disk-to-DECTape transfers.

FILEX
FILEX
Converts between various core image formats, and reads and writes various directory formats.

FINISH
FINISH dev:
Terminates I/O in progress on the specified device and performs the RELEASE UUO and DEASSIGN command.

FUDGE
FUDGE
Creates a library REL file by reading a temporary file generated by a previous COMPILE, LOAD, EXECUTE, or DEBUG command.

FUDGE2
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
GLOB
Reads multiple binary files to produce an alphabetical cross-referenced listing of all global symbols encountered.

GRIPE
GRIPE
Accepts text from a user and records it in a disk file for the operations staff.

HALT
HALT
C
Stops the job and stores the program counter in the job data area.

HELP
HELP prog
Outputs useful documentation on various system features.
INITIA
Performs standard system initialization for the terminal issuing the command.

JCONT
Continues the specified job if it was in a ✱ C state.

KJOB
Gives up access to the system.

LABEL
Writes an identifier onto a DECTape.

LIST
Lists the specified files on the line printer.

LOAD
Produces relocatable binary files (.REL files) for the specified files and loads the .REL files generated.

LOCATE
Establishes the user's job at the specified station.

LOGIN
Gains access to the system.

MAKE
Opens a new file on disk for creation with TECO.

MOUNT
Allocates an I/O device to the user's job via the operator.

OPSER
Provides multiple job control from a single terminal.

PJOB
Outputs the job number to which the terminal is currently attached.

PLEASE
Provides two-way communication between the user and the operator.

PLOT
Places entries into the plotter output spooling queue.

PRESERVE
Renames the specified files with the standard protection inclusively ORed with 100.

PRINT
Places entries into the line printer output spooling queue.

PROTECT
 Renames the specified files with the requested protections.

PUNCH
Places entries into the paper tape punch output spooling queue.
QUEUET!

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.

RETTA

R RETTA
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.

RENAMET!

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.

REWINDT!

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.

SCHEDT!

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

SENDT!

SEND dev:text
SEND JOBn text
Provides a one-way interconsole line of communication.

SET BLOCKSIZET!

SET BLOCKSIZE dev:nnnn
Sets the default blocksize for the specified magnetic tape.

SET CDR

SET CDR file
Sets the filename for the next card-reader spooling
intercept.
SET CPU²,³,
  SET CPU CPxn
  SET CPU NO CPxn
  SET CPU ALL
  SET CPU ONLY CPxn

Sets the CPU specification for the job.

SET DENSITY¹
  SET DENSITY dev:nnn

Sets the default density for the specified magnetic tape.

SET DSKFUL¹,²
  SET DSKFUL ERROR
  SET DSKFUL PAUSE

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

SET DSKPRI¹,²
  SET DSKPRI n

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

SET HPQ¹,²
  SET HPQ n

Sets the high priority scheduler run queue for the job.

SET SPOOL¹
  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.

SET SRC
  R SETSRC

Manipulates the job's search list or system's search list.

SET TIME¹
  SET TIME n

Sets the central processor time limit for the job.

SET TTY¹
  SET TTY NO arg
  SET TTY arg

Sets properties to be associated with the terminal.

SET WATCH¹
  SET WATCH arg, arg,...
  SET WATCH ALL
  SET WATCH NONE
  SET WATCH NO arg, arg,...

Sets the output of incremental job statistics.

SKIP¹
  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.

SUBMIT¹
  SUBMIT jobname = control file, log file /S

Place entries into the Batch input queue.
SYSTAT
Prints system information about the current system.

TECO
Opens the specified file that already exists for editing with TECO.

TIME
Outputs the running time for the specified job.

TPUNCH
Places entries into the paper tape punch output spooling queue.

TTY
Sets properties to be associated with the terminal.

TYPE
Types the specified files on the user's terminal.

UNLOAD
Rewinds and unloads the specified magnetic tape or DECtape.

VERSION
Outputs the version number of a program.

WHERE
Outputs the station number at which the specified device is located.

ZERO
Clears the directory of the specified device.

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1 This command is normally not available with the DECsystem-1040.
2 This 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.
3 This command is available only on a multiprocessor system (DECsystem -1055 and DECsystem -1077).
4 This command is available only with 5.06 and later monitors.

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