



## I. COMMANDS

|        |                                 |
|--------|---------------------------------|
| :      | place label                     |
| ar     | archive (combine) files         |
| as     | assembler                       |
| bas    | BASIC dialect                   |
| cat    | concatenate (or print) files    |
| cc     | compile C program               |
| cdb    | C debugger                      |
| chdir  | change working directory        |
| chmod  | change access mode of files     |
| chown  | change owner of files           |
| cmp    | compare file contents           |
| cp     | copy file                       |
| cref   | cross reference table           |
| crypt  | encrypt, decrypt a file         |
| date   | get date and time of day        |
| db     | symbolic debugger               |
| dc     | desk calculator                 |
| df     | find free disk space            |
| dsw    | delete files interactively      |
| du     | find disk usage                 |
| echo   | print command arguments         |
| ed     | text editor                     |
| exit   | end command sequence            |
| factor | factor a number                 |
| fc     | compile Fortran program         |
| fed    | form letter editor              |
| form   | generate form letter            |
| forml  | generate form letters           |
| goto   | command transfer                |
| hyphen | find hyphenated words           |
| if     | conditional command             |
| ld     | link editor (loader)            |
| ln     | link to file                    |
| login  | log on to system                |
| ls     | list contents of directory      |
| m6     | macroprocessor                  |
| mail   | send mail to another user       |
| man    | run off manual section          |
| mesg   | permit or deny messages         |
| mkdir  | create directory                |
| mt     | save, restore files on magtape  |
| mv     | move or rename file             |
| nm     | print namelist                  |
| nroff  | format text for printing        |
| od     | octal dump of file              |
| opr    | print file off-line             |
| ov     | page overlay file print         |
| passwd | set login password              |
| pr     | print file with headings        |
| proof  | compare text files              |
| reloc  | relocate object files           |
| rew    | rewind DECtape                  |
| rm     | remove (delete) file            |
| rmdir  | remove (delete) directory       |
| roff   | format text for printing        |
| sh     | command interpreter             |
| size   | get executable program size     |
| sno    | compile Snobol program          |
| sort   | sort ASCII file                 |
| speak  | send words to voice synthesizer |
| split  | break a file into pieces        |
| stat   | get file status                 |

|             |                                     |
|-------------|-------------------------------------|
| strip ..... | remove symbols, relocation bits     |
| stty .....  | set typewriter modes                |
| sum .....   | sum file                            |
| tap .....   | save, restore files on DECtape      |
| time .....  | get time information                |
| tmgl .....  | compile tmgl program                |
| tss .....   | communicate with MH-TSS (GCOS)      |
| tty .....   | find name of terminal               |
| type .....  | print file page-by-page             |
| typo .....  | find typographic errors             |
| un .....    | find undefined symbols              |
| uniq .....  | find duplicate lines in a file      |
| vs .....    | generate voice synthesizer phonemes |
| wc .....    | get (English) word count            |
| who .....   | who is on the system                |
| write ..... | write to another user               |

## II. SYSTEM CALLS

|              |                                 |
|--------------|---------------------------------|
| boot .....   | reboot the system               |
| break .....  | set program break               |
| cemt .....   | catch EMT traps                 |
| chdir .....  | change working directory        |
| chmod .....  | change mode of file             |
| chown .....  | change owner of file            |
| close .....  | close open file                 |
| creat .....  | create file                     |
| csw .....    | read the console switches       |
| dup .....    | duplicate an open file          |
| exec .....   | execute program file            |
| exit .....   | terminate execution             |
| fork .....   | create new process              |
| fpe .....    | catch floating exception errors |
| fstat .....  | status of open file             |
| getuid ..... | get user ID                     |
| gtty .....   | get typewriter mode             |
| ilgins ..... | catch illegal instruction trap  |
| intr .....   | catch or inhibit interrupts     |
| kill .....   | destroy process                 |
| link .....   | link to file                    |
| mkdir .....  | create directory                |
| mdate .....  | set date modified of file       |
| mount .....  | mount file system               |
| nice .....   | set low-priority status         |
| open .....   | open file                       |
| pipe .....   | open inter process channel      |
| quit .....   | inhibit quits                   |
| read .....   | read file                       |
| rele .....   | release processor               |
| seek .....   | move read or write pointer      |
| setuid ..... | set user ID                     |
| sleep .....  | delay execution                 |
| stat .....   | get file status                 |
| stime .....  | set system time                 |
| stty .....   | set mode of typewriter          |
| sync .....   | assure synchronization          |
| time .....   | get time of year                |
| times .....  | get execution times             |
| umount ..... | dismount file system            |
| unlink ..... | remove (delete) file            |
| wait .....   | wait for process                |
| write .....  | write file                      |

## III. SUBROUTINES

|               |                                   |
|---------------|-----------------------------------|
| atan .....    | arctangent                        |
| atof .....    | convert ASCII to floating         |
| atoi .....    | convert ASCII to integer          |
| compar .....  | string compare for sort           |
| crypt .....   | encrypt according to a keyword    |
| ctime .....   | convert time to ASCII             |
| ddspout ..... | display character on Picturephone |
| ecvt .....    | edited output conversion          |
| exp .....     | exponential function              |
| ftoa .....    | convert floating to ASCII         |
| ftoo .....    | convert floating to octal         |
| gerts .....   | communicate with GCOS             |
| getc .....    | get character                     |
| hypot .....   | compute hypotenuse                |
| itoa .....    | convert integer to ASCII          |
| log .....     | logarithm base e                  |
| mesg .....    | print string on typewriter        |
| nlist .....   | read name list                    |
| pow .....     | take powers of numbers            |
| ptime .....   | print time                        |
| putc .....    | write character or word           |
| qsort .....   | quicker sort                      |
| rand .....    | pseudo random number generator    |
| salloc .....  | storage allocator                 |
| sin .....     | sine, cosine                      |
| sqrt .....    | square root                       |
| switch .....  | transfer depending on value       |
| ttyn .....    | find teletype name                |

#### IV. SPECIAL FILES

|           |                      |
|-----------|----------------------|
| dc .....  | remote typewriter    |
| dn .....  | 801 ACU              |
| dp .....  | 201 Dataphone        |
| kl .....  | console typewriter   |
| mem ..... | core memory          |
| pc .....  | punched paper tape   |
| rf .....  | RF disk              |
| rk .....  | RK disk              |
| tc .....  | DECtape              |
| tm .....  | 9-track magtape      |
| vt .....  | storage-tube display |

#### V. FILE FORMATS

|                   |                             |
|-------------------|-----------------------------|
| a.out .....       | assembler and loader output |
| archive .....     | archive file                |
| core .....        | core image file             |
| directory .....   | directory format            |
| file system ..... | file system format          |
| passwd .....      | password file               |
| tap .....         | DECtape and magtape format  |
| utmp .....        | logged-in user information  |
| wtmp .....        | accounting files            |

#### VI. USER MAINTAINED PROGRAMS

|            |                               |
|------------|-------------------------------|
| bc .....   | compile B program             |
| bj .....   | blackjack                     |
| ptx .....  | permuted index                |
| yacc ..... | yet another compiler-compiler |

## VII. MISCELLANEOUS

|             |                             |
|-------------|-----------------------------|
| ascii ..... | map of ASCII                |
| dpd .....   | spawn dataphone daemon      |
| getty ..... | adapt to typewriter         |
| glob .....  | argument expander           |
| greek ..... | extended TTY 37 typebox map |
| init .....  | initializer process         |
| msh .....   | mini Shell                  |
| tabs .....  | set tab stops on typewriter |
| vsp .....   | voice synthesizer phonemes  |

## VIII. SYSTEM MAINTAINANCE

|              |                                  |
|--------------|----------------------------------|
| 20boot ..... | reboot 11/20 system              |
| acct .....   | get connect-time accounting      |
| bproc .....  | boot procedure                   |
| check .....  | check consistency of file system |
| chk .....    | check all file systems           |
| clri .....   | clear file's i-node              |
| dcheck ..... | verify directory hierarchy       |
| dli .....    | load DEC binary paper tapes      |
| istat .....  | file status by i-number          |
| kill .....   | terminate a process              |
| mount .....  | mount removable file system      |
| ps .....     | get process status               |
| salv .....   | repair damaged file system       |
| su .....     | become super-user                |
| swtmp .....  | truncate accounting files        |
| tm .....     | get system time information      |
| umount ..... | dismount removable file system   |

