

INDEX

A

† A (control-A) see Control commands (TECO)  
A (append) command, 197 (INTRO TO TECO)  
A (append) command, 257, 293, 301 (TECO)  
A Switch, 399 (PIP)  
Absolute Addresses, 17 (INTRO TO SOFTWARE)  
/ACCESS, 520 (COMMANDS)  
Accessing the system, 590 (COMMANDS)  
Active search list, 662 (COMMANDS)  
Adding comments, 104, 139 (BEGINNER'S BATCH)  
Adding devices to spool list, 660 (COMMANDS)  
Addition, 241 (TECO)  
Advance command, 417 (PIP)  
/AFTER switch (BEGINNER'S BATCH)  
    \$JOB card, 126  
    SUBMIT command, 141  
/AFTER switch, 494, 605, 611, 620, 681, 697 (COMMANDS)  
AID Interpreter, 20 (INTRO TO SOFTWARE)  
ALCFIL program, 468 (COMMANDS)  
ALCFIL program, 31 (INTRO TO SOFTWARE)  
ALGOL (BEGINNER'S BATCH)  
    compiler switches, 111  
    definition, 91  
    deck, setting up, 105  
    job, examples, 169, 176  
    program, compiling and executing, 105  
ALGOL, 18 (INTRO TO SOFTWARE)  
\$ALGOL card, 105, 111 (BEGINNER'S BATCH)  
    examples, 112  
    switches, 111  
\$ALGOL card, 718 (COMMANDS)  
/ALGOL switch, 481, 513, 539, 585 (COMMANDS)  
ALGOTS, 18, 31 (INTRO TO SOFTWARE)  
/ALLOC, 520 (COMMANDS)  
Allocating disk space, 468 (COMMANDS)

Allocating facilities, 464 (COMMANDS)

ASSIGN, 470  
CLOSE, 479  
CORE, 491  
DEASSIGN, 512  
DISMOUNT, 525  
FINISH, 560  
LOCATE, 589  
MOUNT, 593  
REASSIGN, 633  
SET BLOCKSIZE, 653  
SET CDR, 654  
SET CPU, 655  
SET DENSITY, 657  
SET DSKPRI, 658  
SET HPQ, 659  
SET SPOOL, 660  
SET TTY, 668  
TTY, 668

Allocating I/O devices, 470, 593 (COMMANDS)

Allocating system resources, 77 (TIMESHARING)

ASSIGN, 77  
CORE, 80  
DEASSIGN, 79  
DISMOUNT, 79  
FINISH, 80  
MOUNT, 78  
REASSIGN, 79

Allocation (INTRO TO SOFTWARE)

File Storage, 11, 30

Allocator (INTRO TO SOFTWARE)

Shareable Resource, 10

Alphabetic case control (TECO)

in insert commands, 268  
in search arguments, 282

Alphanumeric, definition, 92 (BEGINNER'S BATCH)

Alphanumeric argument, 196 (INTRO TO TECO)

Alphanumeric argument, 236, 240 (TECO)

Altmode, 235, 236, 239, 240, 251, 261, 266, 267, 288, 291, 295, 296, 319 (TECO)

ALTMODE key, 75 (TIMESHARING)

Altmode symbol (  $\text{\$}$  ), 193, 194 (INTRO TO TECO)

## INDEX (Cont)

- & (ampersand), 242 (TECO)
  - Analyzing a core image file, 529 (COMMANDS)
  - AND, 242 (TECO)
  - Angle brackets, 382 (PIP)
  - < > (angle brackets), 288, 291 (TECO)
  - Angle bracket matching, V switch, 402 (PIP)
  - ' (apostrophe) command, 292, 317 (TECO)
  - Argument pair, 241 (TECO)
  - Arguments, 247 (TECO)
    - alphanumeric, 236, 240
    - numeric, 241, 251, 257
    - text, 240
  - Arguments, command, 195 (INTRO TO TECO)
  - Argument terminator, 251 (TECO)
  - Arithmetic/logical operators, 241, 242 (TECO)
  - ASCII code, definition, 92 (BEGINNER'S BATCH)
  - Assemble, definition, 92 (BEGINNER'S BATCH)
  - Assembler, definition, 92 (BEGINNER'S BATCH)
  - Assembler (INTRO TO SOFTWARE)
    - MACRO, 17
  - Assembling and executing a MACRO program, 107 (BEGINNER'S BATCH)
  - Assembly language, definition, 92 (BEGINNER'S BATCH)
  - Assembly listing, definition, 92 (BEGINNER'S BATCH)
  - ASSIGN command, 470 (COMMANDS)
  - ASSIGN command, 77 (TIMESHARING)
  - Assigning devices, 76 (TIMESHARING)
    - ASSIGN, 77
    - MOUNT, 78
  - Assigning input devices in programs (BEGINNER'S BATCH)
    - ALGOL
      - disk, 118
      - card reader, 119
    - COBOL
      - disk, 117
      - card reader, 118
  - FORTTRAN
    - disk, 117
    - card reader, 119
  - Assigning names to DECTape, 395 (PIP)
  - Assignment, device, 10 (INTRO TO SOFTWARE)
  - \* (asterisk), 240, 242, 247, 248, 249, 262 (TECO)
    - \*i command, 271, 296 (TECO)
  - Asterisk construction, 452 (COMMANDS)
  - Asterisk construction, 66 (TIMESHARING)
  - Asterisk (\*) symbol usage, 375, 386, 406 (PIP)
  - Asterisk (\*) usage, 193 (INTRO TO TECO)
  - At (@) symbol usage, 375 (PIP)
  - @ (at sign modifier), 281 (TECO)
  - @I command, 266, 299 (TECO)
  - ATTACH command, 472 (COMMANDS)
  - ATTACH command, 81 (TIMESHARING)
  - Automatic typeout (TECO)
    - after searches, 282
    - flag, obtaining the value, 301
  - Auxiliary LINED commands, 362 (LINED)
  - Available devices, listing of, 640 (COMMANDS)
- B
- B, 258 (TECO)
  - B switch, 405 (PIP)
  - Back-arrow (SHIFT-O), 376 (PIP)
  - ← (back arrow) command, 280 (TECO)
  - ↑ (control-backslash) command, see control commands (TECO)
  - \ (backslash) command, 267, 302, 303 (TECO)
  - BACKSPACE command, 474 (COMMANDS)
  - Backspace file request, 416, 417 (PIP)
  - Backspace one file, 252 (TECO)
  - .BACKTO command, 123, 130, 146 (BEGINNER'S BATCH)
    - example, 146
  - .BACKTO command, 734 (COMMANDS)

INDEX (Cont)

- Backup file, 193 (INTRO TO TECO)
- Backup file, 253, 255 (TECO)
- Back up one record, 252 (TECO)
- BACKUP program, 475 (COMMANDS)
- BACKUP program, 22 (INTRO TO SOFTWARE)
- BACKUP SET file, 475 (COMMANDS)
- BAK, 234, 249, 253 (TECO)
- BASIC (BEGINNER'S BATCH)
  - deck, setting up, 109
  - definition, 92
  - job, examples, 171, 178
  - program, running, 109
- BASIC, 18 (INTRO TO SOFTWARE)
- Batch (BEGINNER'S BATCH)
  - commands, 146
  - format, 138
  - control cards, 103
  - format, 103
  - output, 153
  - processing, definition, 92
  - queue, entering jobs, 139
- Batch (INTRO TO SOFTWARE)
  - Multiprogram, 12
- Batch command interpreter, 447 (COMMANDS)
- Batch controller, 710 (COMMANDS)
  - commands for, 732
- Batch Controller, 13 (INTRO TO SOFTWARE)
- Batch input queue, 680 (COMMANDS)
- Batch Operator intervention, 14 (INTRO TO SOFTWARE)
- Batch sample jobs, 743 (COMMANDS)
- Batch system commands, 709 (COMMANDS)
- BATCON, 710 (COMMANDS)
  - control file commands, 732
  - error reporting, 742
  - messages, 742
- BATCON, 12, 32 (INTRO TO SOFTWARE)
- /BEFORE, 494, 605, 611, 620, 697 (COMMANDS)
- /BEGIN, 494, 605, 611, 620, 697 (COMMANDS)
- Beginning in DDT, 510, 513 (COMMANDS)
- Bell, 236, 320 (TECO)
- Bell-space command, 321 (TECO)
- Binary mode switch (B), 401 (PIP)
- Bit (INTRO TO SOFTWARE)
  - Use, 28
- Blank page, 274, 275 (TECO)
- Blank tape, 252 (TECO)
- /BLISS, 481, 513, 539, 585 (COMMANDS)
- Block, 66 (TIMESHARING)
- Block Mode, 15 (INTRO TO SOFTWARE)
- Block Numbers (INTRO TO SOFTWARE)
  - Logical, 29
- Blocksize of magnetic tape, 653 (COMMANDS)
- Blocks of text, 309 (TECO)
- BOOTS, 32 (INTRO TO SOFTWARE)
- Boundary of the buffer, 259 (TECO)
- /B/P switch combination, 401 (PIP)
- Brackets, angle see Angle brackets (TECO)
- Brackets, square see Square brackets (TECO)
- Break character, 320 (TECO)
- Breakpoints, 22, 32 (INTRO TO SOFTWARE)
- Buffer, 32 (INTRO TO SOFTWARE)
  - Editing, 20
- Buffer, command string, 244 (TECO)
  - , editing, 239, 243, 244
  - pointer, 239, 256, 257, 258, 259, 260, 264, 267, 268, 278, 280, 296, 302
  - position, 241, 257
- Buffer, editing, 191 (INTRO TO TECO)
- Buffer boundary, 259 (TECO)
- Buffered Modes, 27, 28 (INTRO TO SOFTWARE)
- Buffer Pointer, 20, 32 (INTRO TO SOFTWARE)
- Buffer pointer, 198 (INTRO TO TECO)
- Buffers (INTRO TO SOFTWARE)
  - Ring of, 28
- Buffers, 231, 244, 257 (TECO)
- Byte descriptor, 534 (COMMANDS)

- C
- ↑ C (control-C) command see Control commands (TECO)
  - C (advance pointer by character) command, 198 (INTRO TO TECO)
  - C command, 258, 293 (TECO)
  - C switch, 399 (PIP)
  - CAM, 21 (INTRO TO SOFTWARE)
  - Capabilities (INTRO TO SOFTWARE)
    - macro, 18
  - Card, definition, 92 (BEGINNER'S BATCH)
    - column, definition, 93
    - field, definition, 93
    - format, 103
    - output, specifying amount, 126, 142
    - row, definition, 93
  - Card codes, 787 (COMMANDS)
  - Card Punch, 49 (INTRO TO SOFTWARE)
  - Card punch, J-switch, 418 (PIP)
  - Card punch queue, 593 (COMMANDS)
  - Card Readers, 48 (INTRO TO SOFTWARE)
  - Card reader spooling intercept, 654 (COMMANDS)
  - /CARDS switch (BEGINNER'S BATCH)
    - \$JOB card, 126
    - SUBMIT command, 142
  - /CARDS switch, 620, 681 (COMMANDS)
  - Cards to specify error recovery, 122, 129 (BEGINNER'S BATCH)
  - Caret, 239 (TECO)
  - Carriage return, 236, 239, 262, 267, 306, 320 (TECO)
  - Carriage return symbol (↵), 193 (INTRO TO TECO)
  - <CR> carriage return usage, 377 (PIP)
  - Case control (TECO)
    - in insert commands, 268
    - in search arguments, 282
  - Case flag, obtaining the value, 301 (TECO)
  - Case flagging on timeout, 262 (TECO)
  - Case match mode control in searches, 285 (TECO)
  - Categories of messages, 747 (COMMANDS)
  - Categories of TECO commands, 243 (TECO)
  - Causing the current line to be retyped, 321 (TECO)
  - CCONTINUE command, 500 (COMMANDS)
  - CDRSTK, 709 (COMMANDS)
    - error reporting, 741
    - messages, 740
  - CDRSTK, 12, 32 (INTRO TO SOFTWARE)
  - Central processing unit, definition, 93 (BEGINNER'S BATCH)
  - Central processor time limit, 666 (COMMANDS)
  - Central site, definition, 93 (BEGINNER'S BATCH)
  - Central site, 78 (TIMESHARING)
  - %CERR, 733 (COMMANDS)
  - CHAIN, 33 (INTRO TO SOFTWARE)
  - CHAIN Files, 22 (INTRO TO SOFTWARE)
  - Changing (TECO)
    - amount of error reporting, 324
    - maximum number of entries in the Q-register pushdown list, 251
  - Changing CPU specification, 655 (COMMANDS)
  - Changing filenames, 67 (TIMESHARING)
  - Changing logical station, 589 (COMMANDS)
  - Changing modes, 730 (COMMANDS)
  - Changing switch in a queue entry, 141 (BEGINNER'S BATCH)
  - Changing UFD or SFD protection code, 408 (PIP)
  - Channels (INTRO TO SOFTWARE)
    - Software I/O, 28
  - Character, definition, 93 (BEGINNER'S BATCH)
  - Characters, control, 236 (TECO)
    - ,special, 235
  - Character set, 234 (TECO)
  - Character strings, 244, 296 (TECO)
  - CHECKPOINT, 33 (INTRO TO SOFTWARE)
  - /CHECKSUM, 521 (COMMANDS)
  - .CHKPNT command, 735 (COMMANDS)

INDEX (Cont)

- Clearing directories, 470, 512, 633, 707 (COMMANDS)
- Clearing logical names, 512 (COMMANDS)
- CLOSE, 29 (INTRO TO SOFTWARE)
- Close, 252, 253, 274, 276, 307 (TECO)
- CLOSE command, 479 (COMMANDS)
- Close files, 192, 204 (INTRO TO TECO)
- Closing the current file, 361 (LINED)
- COBOL (BEGINNER'S BATCH)
  - compiler switches, 113
  - deck, setting up, 106
  - definition, 92
  - job, examples, 154, 174, 183
  - program
    - compiling and executing, 106
    - format, 114
- COBOL, 19 (INTRO TO SOFTWARE)
- \$COBOL card, 106, 113 (BEGINNER'S BATCH)
  - examples, 114
  - switches, 113
- \$COBOL card, 719 (COMMANDS)
- /COBOL switch, 481, 513, 539, 585 (COMMANDS)
- COBRG, 19 (INTRO TO SOFTWARE)
- CODE, 33 (INTRO TO SOFTWARE)
- Codes (COMMANDS)
  - card, 787
  - error, 780
- Codes (INTRO TO SOFTWARE)
  - Protection, 11, 30
- : (colon), 251 (TECO)
- : (colon modifier), 279, 281 (TECO)
- : (colon) search, 281, 294 (TECO)
- Colon (: ) usage, 376, 382 (PIP)
- Combinations of switches, 411 (PIP)
- Combine files, transfer without X-switch, 398 (PIP)
- Combine pages, 197 (INTRO TO TECO)
- Combining \* and ? wildcard symbols, 386 (PIP)
- Combining files, 486 (COMMANDS)
- Comma, 241 (TECO)
- Comma usage, 382 (PIP)
- Command, definition, 93 (BEGINNER'S BATCH)
- Command (COMMANDS)
  - arguments, 448
  - delay, 446
  - formats, 447
  - interpreters, 445
  - names, 447
- Command arguments, 195 (INTRO TO TECO)
- Command buffer, 278 (TECO)
- Command Control Language, 10 (INTRO TO SOFTWARE)
- Command Decoder, 25 (INTRO TO SOFTWARE)
- Command error, 195 (INTRO TO TECO)
- Command error, 240, 319 (TECO)
- Command errors, 421 (PIP)
- Command List, 28 (INTRO TO SOFTWARE)
- Command mode, 247 (TECO)
- Command recovery file, 475 (COMMANDS)
- Commands (COMMANDS)
  - Batch, 709
  - COMPIL-class, 453
  - system, 463
- Commands (INTRO TO TECO)
  - A (append page), 197
  - C (advance pointer by character), 198
  - D (delete character), 201
  - EF (close output file), 203
  - EG (close file, reexecute monitor command), 204
  - EX (close file), 204
  - HK (delete buffer), 201
  - HT (type entire buffer), 200
  - I (insert), 202
  - J (move pointer to beginning), 198
  - K (delete line), 199
  - L (move pointer by lines), 199
  - MAKE (make disk file), 192
  - N (search file), 206, 207
  - P (output buffer), 203
  - PW (output page), 203

## INDEX (Cont)

- Commands (cont) (INTRO TO TECO)
  - R (move pointer backwards by character), 198
  - S (search buffer), 205, 206
  - T (type), 200
  - TECO (initialize file for editing), 192
  - Y (yank next page), 197
  - ZJ (move pointer to end), 198
- Commands, 359 (LINED)
  - D, 360
  - E, 361
  - I, 360
  - P, 361
  - S, 362
- Commands (INTRO TO TECO)
  - erasing, 195
  - input, 197
- Commands (TECO)
  - edit class, 248
  - erasing, 235
  - immediate action, 235
  - monitor, 235, 248
  - that return a value, 243
- Commands, summary of, see Appendix C (TECO)
- Commands not available in Batch, 109, 138 (BEGINNER'S BATCH)
- Commands to specify error recovery, 148 (BEGINNER'S BATCH)
- Command string, (INTRO TO TECO)
  - execution, 194
  - syntax, 194
  - termination, 194
- Command string, 379 (PIP)
  - delimiters, 382
  - format, 379
- Command string buffer, 244 (TECO)
- Command strings, 239, 240, 244, 276, 277, 291, 296, 306, 319, 321 (TECO)
- Command string syntax, 239 (TECO)
- Comments, 104, 139 (BEGINNER'S BATCH)
- Comments, 294 (TECO)
- Communicating with operator, 466, 737 (COMMANDS)
  - DISMOUNT, 525
  - FILE, 553
  - GRIPE, 573
  - MOUNT, 593
  - PLEASE, 602
  - SEND, 651
- Communications (INTRO TO SOFTWARE)
  - Data, 50
  - Remote, 15
- COMPIO, 21 (INTRO TO SOFTWARE)
- Comparing DECtapes, 488 (COMMANDS)
- Comparing files, 543 (COMMANDS)
- COMPIL, 33 (INTRO TO SOFTWARE)
- Compile, definition, 93 (BEGINNER'S BATCH)
- Compile-class command, 276 (TECO)
- COMPIL-class commands, 453 (COMMANDS)
  - switches, 457
- /COMPILE, 481, 513, 540, 586 (COMMANDS)
- COMPILE command, 480 (COMMANDS)
- COMPILE command, 276 (TECO)
- COMPILE command, 67 (TIMESHARING)
- Compiler, definition, 93 (BEGINNER'S BATCH)
- Compilers, 17 (INTRO TO SOFTWARE)
  - ALGOL, 18
  - BASIC, 18
  - COBOL, 19
  - FORTRAN, 19
- Compiling and executing a program (BEGINNER'S BATCH)
  - ALGOL, 105
  - COBOL, 106
  - FORTRAN, 107
- Compiling programs, 480 (COMMANDS)
  - ALGOL, 718
  - COBOL, 718
  - FORTRAN, 725
  - MACRO, 729

INDEX (Cont)

- Components (INTRO TO SOFTWARE)
  - DECsystem-10, 9
  - Multiprogram batch, 12
  - Operating System, 25
- Components, Batch, 709 (COMMANDS)
- Computer, definition, 93 (BEGINNER'S BATCH)
- Computer operator, definition, 93 (BEGINNER'S BATCH)
- Computing (INTRO TO SOFTWARE)
  - Multimode, 10
- Conditional branch, 281, 284 (TECO)
- Conditional command, 276 (TECO)
- Conditional execution, 286 (TECO)
- Conditional execution commands, 292, 294 (TECO)
- Conditional skip, 291 (TECO)
- CONFIGURATION category, 505 (COMMANDS)
- Connecting to a detached job, 472 (COMMANDS)
- Console data switches, 301, 302 (TECO)
- Contents of card decks, 103 (BEGINNER'S BATCH)
- Contents operators, 534 (COMMANDS)
- Continuation card, definition, 93 (BEGINNER'S BATCH)
- Continuation of information on a card, 104 (BEGINNER'S BATCH)
- Continuation of lines in control file, 139 (BEGINNER'S BATCH)
- CONTINUE, 277 (TECO)
- CONTINUE command, 485 (COMMANDS)
- CONTINUE command, 84 (TIMESHARING)
- Continuing a job, 578 (COMMANDS)
- Continuing a program, 84 (TIMESHARING)
- Control (PIP)
  - direct, 375
  - indirect, 375
- Control-C, 444, 446 (COMMANDS)
- Control cards, 103 (BEGINNER'S BATCH)
- Control characters, 193 (INTRO TO TECO)
  - Control characters, 235, 261, 286, (TECO)
  - Control characters, 73 (TIMESHARING)
    - Control-C, 73
    - Control-O, 75
    - Control-U, 74
  - Control commands, 717 (COMMANDS)
  - Control commands (TECO)
    - ↑ ↑, 270
    - ↑ \, 285
    - ↑ [, 235
    - ↑ A, 302, 303
    - ↑ C, 235, 275, 276, 290
    - ↑ E, 286, 301
    - ↑ F, 301, 303
    - ↑ G, 235, 306, 320
    - ↑ G ↑ G, 235, 320
    - ↑ G ↓, 321
    - ↑ H, 301, 303
    - ↑ L, 261
    - ↑ N, 286, 288, 301
    - ↑ O, 235, 260, 263
    - ↑ R, 271, 285, 286
    - ↑ S, 286, 288
    - ↑ T, 271, 285, 302, 303
    - ↑ V, 268, 283
    - ↑ V ↑ V, 269, 283
    - ↑ W, 268, 283
    - ↑ W ↑ W, 269, 283
    - ↑ U, 235, 306, 320, 321
    - ↑ X, 286, 288
    - ↑ Z, 275, 276
  - Control file, 99, 103, 137 (BEGINNER'S BATCH)
    - creating, 103, 137
    - definition, 93
    - examples, 137, 138, 160
    - format of lines, 138
    - putting commands in, 108
  - Control file, 680, 710, 716, 727 (COMMANDS)
    - commands, 732
  - Control key, 73 (TIMESHARING)
  - Control Language (INTRO TO SOFTWARE)
    - Command, 10
  - Controller (INTRO TO SOFTWARE)
    - Batch, 13

## INDEX (Cont)

- Controlling error reporting, 149 (BEGINNER'S BATCH)
- Controlling multiple jobs, 466 (COMMANDS)
  - ATTACH, 472
  - CCONT, 500
  - CSTART, 500
  - DETACH, 519
  - OPSER, 597
  - REATA, 635
- Controlling number of card columns read (BEGINNER'S BATCH)
  - \$ALGOL card, 112
  - \$COBOL card, 113
  - \$DATA card, 116
  - \$DECK card, 120
  - \$FORTRAN card, 124
  - \$MACRO card, 128
- Controlling object programs, 465 (COMMANDS)
  - CONTINUE, 485
  - DDT, 510
  - GET, 568
  - HALT, 574
  - JCONT, 578
  - R, 632
  - REENTER, 637
  - RUN, 646
  - START, 679
- Control-O, 447 (COMMANDS)
- Control-U, 447 (COMMANDS)
- Conventional COBOL format, 114 (BEGINNER'S BATCH)
- Conventional Format, 19 (INTRO TO SOFTWARE)
- Conventions, writing, 375 (PIP)
- Conventions and restrictions, 362 (LINED)
- Converting special characters to lower case, 270, 285 (TECO)
- /COPIES, 494, 605, 611, 621, 697 (COMMANDS)
- Copy (PIP)
  - all but specified files (DS switch), 397
  - files without combining, (X switch), 394
  - FORTAN binary files, 401
- COPY command, 486 (COMMANDS)
- COPY program, 488 (COMMANDS)
- Copying, 395 (PIP)
- Copying data into disk files, 115 (BEGINNER'S BATCH)
- Copying DECtapes, 488 (COMMANDS)
- Copying into a data file, 723 (COMMANDS)
- Copying programs into disk files (BEGINNER'S BATCH)
  - ALGOL, 111
  - COBOL, 113
  - FORTAN, 123
  - MACRO, 127
- Copying relocatable binary programs, 731 (COMMANDS)
- Copying trailing spaces into files (BEGINNER'S BATCH)
  - \$ALGOL card, 112
  - \$COBOL card, 114
  - \$DATA card, 116
  - \$DECK card, 120
  - \$FORTRAN card, 124
  - \$MACRO card, 128
- Core (BEGINNER'S BATCH)
  - definition, 94
  - specifying amount, 126, 142
- Core, 231, 238, 244, 247, 256, 257, 296, 309 (TECO)
- Core allocation, 491 (COMMANDS)
- CORE category, 505 (COMMANDS)
- Core check, 446 (COMMANDS)
- CORE command, 491 (COMMANDS)
- CORE command, 80 (TIMESHARING)
- Core expansion, 244, 256, 257 (TECO)
- Core image, 68 (TIMESHARING)
- Core-image files, 505, 529 (COMMANDS)
- Core Memories, 47 (INTRO TO SOFTWARE)
- /CORE switch (BEGINNER'S BATCH)
  - \$JOB card, 126
  - SUBMIT command, 142
- /CORE switch, 621, 681 (COMMANDS)



INDEX (Cont)

- Core Utilization, 11 (INTRO TO SOFTWARE)
  - CORMAX, 33 (INTRO TO SOFTWARE)
  - CORMIN, 33 (INTRO TO SOFTWARE)
  - Correcting typing errors, 74 (TIMESHARING)
  - CPU, definition, 94 (BEGINNER'S BATCH)
  - CPUNCH command, 493 (COMMANDS)
  - CPU specification, 655 (COMMANDS)
  - CPU time, specifying amount, 127, 142 (BEGINNER'S BATCH)
  - CREATE, 359 (LINED)
  - Create, 248, 250 (TECO)
  - CREATE command, 498 (COMMANDS)
  - CREATE command, 63 (TIMESHARING)
  - /CREATE switch (SUBMIT command), 140 (BEGINNER'S BATCH)
  - /CREATE switch, 494, 605, 611, 621, 681, 697 (COMMANDS)
  - Creating, 30 (INTRO TO SOFTWARE)
  - Creating control file, 103, 137 (BEGINNER'S BATCH)
  - Creating entry in the Batch queue, 140 (BEGINNER'S BATCH)
  - Creating files, 498, 592 (COMMANDS)
    - control, 716, 727
    - library REL files, 482, 513, 540, 562, 586
  - Creating files, 62 (TIMESHARING)
    - CREATE, 63
    - MAKE, 64
  - Creating TECO macro, 271 (TECO)
  - CREF command, 499 (COMMANDS)
  - CREF command, 82 (TIMESHARING)
  - /CREF switch (BEGINNER'S BATCH)
    - \$COBOL card, 114
    - \$FORTRAN card, 124
    - \$MACRO card, 129
  - /CREF switch, 481, 513, 540, 586 (COMMANDS)
  - CREF Utility, 21, 34 (INTRO TO SOFTWARE)
  - Cross reference listing, definition, 93 (BEGINNER'S BATCH)
    - \$COBOL card, 113
    - \$FORTRAN card, 124
    - \$MACRO card, 129
  - Cross reference listing, 82 (TIMESHARING)
  - Cross-referenced listing files, 499 (COMMANDS)
  - CSTART command, 500 (COMMANDS)
  - CTRL key, 235 (TECO)
  - Current line, 239, 259, 261, 321 (TECO)
  - Cyclic Routines, 25 (INTRO TO SOFTWARE)
- D
- D command, 360 (LINED)
  - D (delete character) command, 201 (INTRO TO TECO)
  - D (delete) command, 264, 265, 293 (TECO)
  - D (deposit) command, 502 (COMMANDS)
  - D switch, 404, 409 (PIP)
  - DX switch, copy all but specified (PIP)
    - files, 397
  - DAEMON, 34 (INTRO TO SOFTWARE)
  - DAEMON program, 505, 529 (COMMANDS)
  - DAEMON-written file, 505 (COMMANDS)
  - Data, definition, 94 (BEGINNER'S BATCH)
  - Data Areas (INTRO TO SOFTWARE)
    - Sharable, 15
  - \$DATA card, 105, 106, 107, 115 (BEGINNER'S BATCH)
    - examples, 116
    - naming data files, 116
    - switches, 116
  - \$DATA card, 714, 715, 721 (COMMANDS)
  - Data Communications System, 50 (INTRO TO SOFTWARE)
  - Data file, 191 (INTRO TO TECO)
  - Data line in control file, format, 139 (BEGINNER'S BATCH)

Data Modes (INTRO TO SOFTWARE)  
     Buffered, 27, 28  
     Unbuffered, 27, 28

Data mode switches, 405 (PIP)

Data Transfers, 27 (INTRO TO SOFTWARE)

DATDMP, 34 (INTRO TO SOFTWARE)

DAYTIME command, 504 (COMMANDS)

DAYTIME command, 71 (TIMESHARING)

DCORE command, 505 (COMMANDS)

DDB category, 505 (COMMANDS)

DDT command, 510 (COMMANDS)

DDT program, 69 (TIMESHARING)

DDT Utility, 21, 34 (INTRO TO SOFTWARE)

/DEADLINE, 494, 605, 611, 621, 681, 697 (COMMANDS)

DEASSIGN command, 512 (COMMANDS)

DEASSIGN command, 79 (TIMESHARING)

Debug, definition, 94 (BEGINNER'S BATCH)

DEBUG, 276 (TECO)

DEBUG command, 513 (COMMANDS)

DEBUG command, 69 (TIMESHARING)

Debugging (COMMANDS)  
     reentrant programs, 797  
     sharable programs, 797

Debugging programs, 67 (TIMESHARING)  
     DEBUG, 69

Decimal number, 266 (TECO)

\$DECK card, 109, 119 (BEGINNER'S BATCH)  
     examples, 120  
     switches, 120

\$DECK card, 723 (COMMANDS)

Decoder (INTRO TO SOFTWARE)  
     Command, 25

DECsystem-10 Components, 9 (INTRO TO SOFTWARE)

DECsystem-10 Family, 9, 45 (INTRO TO SOFTWARE)

DECsystem-1040, 45 (INTRO TO SOFTWARE)

## INDEX (Cont)

DECsystem-1050, 45 (INTRO TO SOFTWARE)

DECsystem-1055, 45 (INTRO TO SOFTWARE)

DECsystem-1070, 45 (INTRO TO SOFTWARE)

DECsystem-1077, 46 (INTRO TO SOFTWARE)

DECtape control, remote, 553 (COMMANDS)

DECtape copy routine, 488 (COMMANDS)

DECtape tape names, 397 (PIP)

DECtape to paper tape copy, Y (PIP)  
     switch, 403

Defining limits for a job, 141 (BEGINNER'S BATCH)

DELETE command, 517 (COMMANDS)

DELETE command, 67 (TIMESHARING)

Delete disk, 410 (PIP)

Delete files (D switch), 409 (PIP)

Delete sequence number (N switch), 399 (PIP)

Delete trailing spaces, T switch, 402 (PIP)

Deleting (BEGINNER'S BATCH)  
     control file, 143  
     job from the queue, 140  
     log file, 143

Deleting a line, 360 (LINED)

Deleting characters, 74 (TIMESHARING)

Deleting DECtape and disk files, 517 (COMMANDS)

Deleting devices from spool list, 660 (COMMANDS)

Deleting files when over quota, 580 (COMMANDS)

Deleting multiple lines, 361 (LINED)

Deletion commands, 201 (INTRO TO TECO)

Delimiters, command string, 382 (PIP)

/DENSITY, 521 (COMMANDS)

Density, magnetic tape, 657 (COMMANDS)

Density and parity parameters, 415 (PIP)  
     switches for setting, 415

/DEPEND, 622, 681 (COMMANDS)

Dependency, 716 (COMMANDS)  
     setting the, 622, 681

INDEX (Cont)

- Dependency (INTRO TO SOFTWARE)
  - Job, 13
- Deposit command, 502 (COMMANDS)
- Depositing information, 502 (COMMANDS)
- Describing actions to be performed by Batch, 140 (BEGINNER'S BATCH)
- Designating particular groups of characters as a match in searches, 286 (TECO)
- DETACH command, 519 (COMMANDS)
- DETACH command, 81 (TIMESHARING)
- /DETAIL, 521 (COMMANDS)
- Determining the command that caused an error, 322 (TECO)
- Determining station of a device, 706 (COMMANDS)
- Device, 231, 248, 249, 250, 251, 253 (TECO)
- Device Assignment, 10 (INTRO TO SOFTWARE)
- Device name, 448 (COMMANDS)
- Device Name (INTRO TO SOFTWARE)
  - Logical, 28
- Device name, 383 (PIP)
- Device name, 233, 251 (TECO)
- Devices (BEGINNER'S BATCH)
  - mounting, definition, 95
  - peripheral, definition, 95
- Devices (INTRO TO SOFTWARE)
  - Input/Output, 48
  - Real-Time, 14
  - Sharing, 11
- Devices, 75 (TIMESHARING)
- Device station, 706 (COMMANDS)
- Digit numeric protection code values, 391 (PIP)
- Digit string, 302 (TECO)
- DIRECT, 34 (INTRO TO SOFTWARE)
- DIRECT command, 520 (COMMANDS)
- DIRECT command, 66, 82 (TIMESHARING)
- Direct control, 375 (PIP)
- Directory Files, 29, 34 (INTRO TO SOFTWARE)
- Directory identifier, 387, 389 (PIP)
- Directory listings, 520 (COMMANDS)
- Directory names, 451 (COMMANDS)
- Directory structured devices, 250 (TECO)
- Disconnecting a job, 81 (TIMESHARING)
- Disconnecting the terminal, 519 (COMMANDS)
- Disk, definition, 94 (BEGINNER'S BATCH)
- Disk area, 251 (TECO)
- Disk area, 62 (TIMESHARING)
- Disk deletion, 410 (PIP)
- Disk priority, 658 (COMMANDS)
- Disk Quotas, 30 (INTRO TO SOFTWARE)
- Disk System, 29, 48 (INTRO TO SOFTWARE)
- Disk usage, 527 (COMMANDS)
- DISMOUNT command, 525 (COMMANDS)
- DISMOUNT command, 79 (TIMESHARING)
- /DISPOSE switch, 143 (BEGINNER'S BATCH)
  - /DISPOSE:DELETE, 143
  - /DISPOSE: PRESERVE, 143
  - /DISPOSE: RENAME, 144
- /DISPOSE switch, 494, 605, 611, 622, 681, 698 (COMMANDS)
- Divide, 242 (TECO)
- Documentation (COMMANDS)
  - obtaining, 575
  - updating, 545
- \$ (dollar sign), 261, 286 (TECO)
- Double altmode, 194 (INTRO TO TECO)
- Drum System, 47 (INTRO TO SOFTWARE)
- DSK, 30, 34 (INTRO TO SOFTWARE)
- DSK command, 527 (COMMANDS)
- DSKLST, 35 (INTRO TO SOFTWARE)
- DSKRAT, 35 (INTRO TO SOFTWARE)
- Dump, 154 (BEGINNER'S BATCH)
  - definition, 94
  - example, 162
- DUMP, 35 (INTRO TO SOFTWARE)
- \$DUMP card, 723 (COMMANDS)
- DUMP command, 529 (COMMANDS)

Dump descriptor, 534 (COMMANDS)  
 Dumping files, 529, 530 (COMMANDS)  
 DUMP program, 530 (COMMANDS)

E

† E (control-E) see Control commands (TECO)  
 E command, 536 (COMMANDS)  
 E command, 361 (LINED)  
 E command, 293 (TECO)  
 EB command, 249, 253 (TECO)  
 E switch, 399 (PIP)  
 Echo, 236 (TECO)  
 EDDT, 35 (INTRO TO SOFTWARE)  
 EDIT, 359 (LINED)  
 Edit, 248, 250 (TECO)  
 EDIT command, 537 (COMMANDS)  
 EDIT command, 64 (TIMESHARING)  
 Edit-class command, 248 (TECO)  
 Editing, programmed, 243 (TECO)  
 Editing Buffer, 20 (INTRO TO SOFTWARE)  
 Editing buffer, 239, 243, 254, 256, 260, 265,  
 266, 267, 272, 278, 279, 296 (TECO)  
 Editing existing files, 248 (TECO)  
 Editing files, 537, 693 (COMMANDS)  
 Editing files, 192 (INTRO TO TECO)  
 Editing files, 64 (TIMESHARING)  
   EDIT, 64  
   TECO, 65  
 Editing line-sequence numbered files, 254 (TECO)  
 Editing process, 191 (INTRO TO TECO)  
 Editors (INTRO TO SOFTWARE)  
   LINED, 20  
   RUNOFF, 21  
   SOUP, 21  
   TECO, 20  
 EF (close output file) command, 203 (INTRO TO  
 TECO)  
 EF command, 274 (TECO)

## INDEX (Cont)

EG (close file, reexecute monitor command)  
 command, 204 (INTRO TO TECO)

EG command, 275, 276, 308 (TECO)  
 EH command, 301, 323 (TECO)  
 EM command, 251, 252 (TECO)  
 End-of-file card, 105, 121 (BEGINNER'S BATCH)  
 End-of-file card, 714, 717 (COMMANDS)  
 End-of-file flag, obtaining value, 301 (TECO)  
 End-of-file record, 252 (TECO)  
 End-of-file writing, 538 (COMMANDS)  
 End of page indicator, 191 (INTRO TO TECO)  
 ENTER, 29 (INTRO TO SOFTWARE)  
 Entering items in system queues, 618 (COMMANDS)  
 Entering job, 137 (BEGINNER'S BATCH)  
   into batch's queue, 139  
 EO command, 301, 305 (TECO)  
 EO value, 304 (TECO)  
 \$EOD card, 108, 121 (BEGINNER'S BATCH)  
 \$EOD card, 715, 724 (COMMANDS)  
 EOF command, 538 (COMMANDS)  
 = (equal sign) command, 300, 303 (TECO)  
 Equals (=) symbol delimiter, 376, 379, 382 (PIP)  
 ER, 251, 254 (TECO)  
 Erasing (TECO)  
   entire command string, 320  
   single character, 320  
 Erasing commands, 195 (INTRO TO TECO)  
 Erasing commands, 235, 306, 319, 320 (TECO)  
 Erasing files, 67 (TIMESHARING)  
 %ERR, 733 (COMMANDS)  
 Error, command See Command Error (TECO)  
 \$ERROR card, 122 (BEGINNER'S BATCH)  
 \$ERROR card, 724 (COMMANDS)  
 Error codes, 780 (COMMANDS)  
 .ERROR command, 146 (BEGINNER'S BATCH)  
   example, 147

INDEX (Cont)

- .ERROR command, 735 (COMMANDS)
- Error handling, 363 (LINED)
- Error in command, 195 (INTRO TO TECO)
- Error message categories, 747 (COMMANDS)
- Error message flag, obtaining the value, 301, 324 (TECO)
- Error messages, 153 (BEGINNER'S BATCH)
- Error messages, (COMMANDS)
  - BATCON, 742
  - CDRSTK, 741
  - system, 747
- Error messages, 209 (INTRO TO TECO)
- Error messages, 363 (LINED)
- Error messages, 419 (PIP)
  - general, 422
  - TMPCOR (device TMP), 424
- Error messages, 321, 322, 325 (TECO)
- Error recovery, 131, 150 (BEGINNER'S BATCH)
  - examples, 132, 134, 150, 151
- Error recovery, 724, 732 (COMMANDS)
- Error Recovery, Batch, 13 (INTRO TO SOFTWARE)
- Error recovery, G-switch, 417 (PIP)
- Error reporting (COMMANDS)
  - BATCON, 742
  - CDRSTK, 741
- Errors (PIP)
  - file reference, 420
  - I/O, 418
  - Y-switch, 422
- Errors, 319 (TECO)
- ESC, 235, 236 (TECO)
- ES command, 282, 301 (TECO)
- ET command, 261, 301, 303 (TECO)
- ET flag, 301, 303 (TECO)
- EU command, 301 (TECO)
- EW command, 248, 251, 252, 274 (TECO)
- EX (close file) command, 204 (INTRO TO TECO)
- EX command, 275, 276, 307, 308 (TECO)
- Examine command, 536 (COMMANDS)
- Examining core locations, 536 (COMMANDS)
- Examining object programs, 466 (COMMANDS)
  - D, 502
  - DCORE, 505
  - DUMP, 529, 530
  - E, 536
- Examples (BEGINNER'S BATCH)
  - \$ALGOL card, 112
  - ALGOL job, 169, 176
  - .BACKTO command, 146
  - BASIC job, 110, 171, 178
  - \$COBOL card, 114
  - COBOL job, 154, 174, 183
  - Control file, 138, 160
  - \$DATA card, 116
  - \$DECK card, 120
  - dump, 162
  - .ERROR command, 147
  - error recovery, 132, 134, 150, 151
  - \$FORTRAN card, 124
  - FORTRAN job, 172
  - .GOTO command, 148
  - job, 138, 169, 176
  - loader map, 156
  - log file, 158, 161
  - \$MACRO card, 129
  - MOUNT command, 175, 183
  - mounting tapes, 175, 183
  - .NOERROR command, 149
  - output, 154, 160
  - submitting jobs, 144
  - use of \$EOD card, 108, 122
- Examples, 361 (LINED)
- Examples, (TIMESHARING)
  - assigning devices, 78
  - compiling and executing, 69
  - creating a file, 63
  - logging in, 61
  - KJOB CONFIRM dialogue, 72
  - SYSTAT, 85
- Exclamation point, 292 (TECO)
- Exclamation symbol (!), 382 (PIP)
- Execute, definition, 94 (BEGINNER'S BATCH)
- EXECUTE, 276 (TECO)

- EXECUTE command, 539 (COMMANDS)  
 EXECUTE command, 68 (TIMESHARING)  
 Executing programs, 539, 679, 721 (COMMANDS)  
 Executing programs, 67 (TIMESHARING)  
     EXECUTE, 68  
 Execution, 239, 244 (TECO)  
 Execution of command string, 194 (INTRO TO  
 TECO)  
 Exit, 275, 276, 277 (TECO)  
 Exit commands, 204 (INTRO TO TECO)  
 Exit command, 275, 276, 278 (TECO)  
 Exiting from PIP, 375 (PIP)  
 Expression, 534 (COMMANDS)  
 Extension, definition, 94 (BEGINNER'S BATCH)  
 Extensions, filename, 783 (COMMANDS)  
 Extension, filename, 192 (INTRO TO TECO)  
 EZ command, 253 (TECO)
- F
- † F (control-F) see Control commands (TECO)  
 F command, 293 (TECO)  
 F switch, 407 (PIP)  
 /F, QUEUE, 612, 622, 682, 698 (COMMANDS)  
 \$F40 card, 725 (COMMANDS)  
 Facility allocation, 464 (COMMANDS)  
     ASSIGN, 470  
     CLOSE, 479  
     CORE, 491  
     DEASSIGN, 512  
     DISMOUNT, 525  
     FINISH, 560  
     LOCATE, 589  
     MOUNT, 593  
     REASSIGN, 633  
     SET BLOCKSIZE, 653  
     SET CDR, 654  
     SET CPU, 655  
     SET DENSITY, 657  
     SET DSKPRI, 658  
     SET HPQ, 659  
     SET SPOOL, 660
- INDEX (Cont)
- Facility allocation, (cont)  
     SET TTY, 668  
     TTY, 668  
 FAILSAFE, 35 (INTRO TO SOFTWARE)  
 Fatal error, character recognized as, 146  
     (BEGINNER'S BATCH)  
 Features enabled by EO values greater than 1,  
     305 (TECO)  
 Feature test switches, 463 (COMMANDS)  
 FED, 21 (INTRO TO SOFTWARE)  
 /FEET switch (BEGINNER'S BATCH)  
     \$JOB card, 126  
     SUBMIT command, 142  
 /FEET switch, 622, 682 (COMMANDS)  
 Fields, filename, 384 (PIP)  
 FILCOM program, 543 (COMMANDS)  
 FILDDT, 35 (INTRO TO SOFTWARE)  
 /FILE, 612, 623, 698 (COMMANDS)  
 File (INTRO TO SOFTWARE)  
     Directory, 29  
     Log, 13  
 File, definition, 94 (BEGINNER'S BATCH)  
 File, definition, 191 (INTRO TO TECO)  
 File access protection codes, 383, 390, 391  
     (PIP)  
 File Backup Utility, 22 (INTRO TO SOFTWARE)  
 FILE command, 553 (COMMANDS)  
 File-control switches, 143 (BEGINNER'S BATCH)  
 File control switches, 493 (COMMANDS)  
 File creation, 191 (INTRO TO TECO)  
 File devices, 191 (INTRO TO TECO)  
 File Directory, 29, 34 (INTRO TO SOFTWARE)  
 File directory switches, 406 (PIP)  
 File Handler, 25, 29 (INTRO TO SOFTWARE)  
 File manipulation, 465 (COMMANDS)  
     ALCFIL, 468  
     BACKSPACE, 474  
     BACKUP, 475  
     COPY, 486

INDEX (Cont)

File manipulation (cont)

- CPUNCH, 493
- DELETE, 517
- DIRECT, 520
- EOF, 538
- FILE, 553
- FILEX, 557
- LIST, 584
- PLOT, 604
- PRESERVE, 609
- PRINT, 610
- PROTECT, 616
- QUEUE, 618
- RENAME, 638
- RESTORE, 641
- REWIND, 645
- SKIP, 675
- SUBMIT, 680
- TPUNCH, 696
- TYPE, 702
- UNLOAD, 703
- ZERO, 707

Filename, definition, 94 (BEGINNER'S BATCH)

Filename, 451 (COMMANDS)

Filename, 192 (INTRO TO TECO)

Filename, 233, 234, 248, 249, 250, 251 (TECO)

Filename, 62 (TIMESHARING)

Filename extension, definition, 94 (BEGINNER'S BATCH)

Filename extension, 451, 783 (COMMANDS)

Filename extension, 234, 249, 251, 253, (TECO)

Filename extension, 62 (TIMESHARING)

Filename fields, 383 (PIP)

Filenames, 384 (PIP)

- generation of, 396

File Owner, 30 (INTRO TO SOFTWARE)

File protection, 616 (COMMANDS)

File protection codes, 409 (PIP)

- changing of, 408
- UFD and SFD, 392

File reference errors, 420 (PIP)

File request, backspace, 416 (PIP)

Files, 11 (INTRO TO SOFTWARE)

- Chain, 22
- Directory, 29, 35
- Named, 29, 39
- Sharing, 11

Files, 61 (TIMESHARING)

Files, temporary, 454, 791 (COMMANDS)

File selection, 249, 251 (TECO)

File specification, 451 (COMMANDS)

File specification, 29, 35 (INTRO TO SOFTWARE)

File specification, 380, 381 (PIP)

- delimiters, 381

File Storage Allocation, 11, 30 (INTRO TO SOFTWARE)

File structure names, 451 (COMMANDS)

File structures, 29, 35 (INTRO TO SOFTWARE)

File System, 11, 29 (INTRO TO SOFTWARE)

File transfer, 395 (PIP)

- nondirectory device to directory device, 395

File transfer program, 557 (COMMANDS)

FILEX program, 557 (COMMANDS)

FILEX program, 22, 35 (INTRO TO SOFTWARE)

Filler classes, 669 (COMMANDS)

%FIN, 734 (COMMANDS)

FINISH command, 560 (COMMANDS)

FINISH command, 80 (TIMESHARING)

Flow control commands, 291 (TECO)

FN command, 280 (TECO)

Format (BEGINNER'S BATCH)

- \$ALGOL card, 111
- .BACKTO command, 123, 133
- Batch command, 138
- Batch command card, 104
- Card, 103
- \$COBOL card, 111
- control cards, 103
- \$DATA card, 115

Format (cont) (BEGINNER'S BATCH)

- data cards, 104
- data line, 139
- \$DECK card, 120
- end-of-file card, 121
- \$EOD card, 122
- \$ERROR card, 122
- .ERROR command, 146
- \$FORTRAN card, 123
- .GOTO command, 123, 147
- .IF command, 148
- .IF (ERROR) command, 122, 148
- .IF (NOERROR) command, 130, 148
- \$JOB card, 125
- lines in control file, 138
- \$MACRO card, 128
- monitor command
  - card, 104
  - line, 138
- \$NOERROR card, 130
- .NOERROR command, 149
- \$PASSWORD card, 131
- program cards, 104
- QUEUE INP: monitor command, 139
- \$SEQUENCE card, 131
- SUBMIT monitor command, 139
- system program command
  - card, 104
  - line, 139

Format, 237 (TECO)

Formats, command, 447 (COMMANDS)

Formatting command strings, 306 (TECO)

Form feed, 191 (INTRO TO TECO)

- removal, 197
- symbol, 194

Form feed characters, 234, 236, 237, 238, 256, 261, 272, 273, 274, 309, 310, 312 (TECO)

Form feed flag, 256, 273, 301, 302 (TECO)

Form feed processing, 309 (TECO)

/FORMS, 495, 606, 612, 623 (COMMANDS)

FORTRAN (BEGINNER'S BATCH)

- compiler switches, 124
- deck, setting up, 106
- definition, 94
- job, examples, 172, 180
- program, compiling and executing, 107

## INDEX (Cont)

- FORTRAN, 19 (INTRO TO SOFTWARE)
- FORTRAN binary files, copying, 401 (PIP)
- \$FORTRAN card, 106, 123 (BEGINNER'S BATCH)
  - examples, 124
  - switches, 123
- \$FORTRAN card, 713, 715, 725 (COMMANDS)
- FORTRAN carriage control character
  - interpretation, 401 (PIP)
- /FORTRAN switch, 481, 513, 540, 586 (COMMANDS)
- FS command, 279 (TECO)
- /FUDGE, 482, 513, 540, 586 (COMMANDS)
- FUDGE command, 562 (COMMANDS)
- FUDGE2 program, 563 (COMMANDS)
- FUDGE2 program, 36 (INTRO TO SOFTWARE)
- Functional groups of commands, 463 (COMMANDS)
- Functions, optional, 393 (PIP)
- Functions of control cards, 103 (BEGINNER'S BATCH)

## G

- † G (control-G) see Control commands (TECO)
- G command, 293, 296 (TECO)
- G switch, error recovery, 417 (PIP)
- Gaining access (COMMANDS)
  - of a device, 470, 593
  - to a file structure, 593
  - to the system, 590
- General error messages, 422 (PIP)
- General QUEUE switches, 493 (COMMANDS)
- General Switches, 141 (BEGINNER'S BATCH)
- Generating cross-referenced listing, 481 (COMMANDS)
  - global symbols, 569
- Generating library REL files, 482, 513, 540, 562, 586 (COMMANDS)



INDEX (cont)

- Generic Name, 30, 36 (INTRO TO SOFTWARE)
  - /GENLSN (generate line-sequence numbers) (TECO)
    - switch, 254
  - GET command, 568 (COMMANDS)
  - GET command, 84 (TIMESHARING)
  - Getting date and time, 71 (TIMESHARING)
  - Getting information, 70, 85 (TIMESHARING)
    - DAYTIME, 71
    - PJOB, 71
    - RESOURCES, 85
    - SYSTAT, 85
    - TIME, 71
  - Getting job number, 71 (TIMESHARING)
  - Getting on the system, 59 (TIMESHARING)
  - Getting running time, 71 (TIMESHARING)
  - Global symbols, 569 (COMMANDS)
  - GLOB program, 569 (COMMANDS)
  - GLOB program, 36 (INTRO TO SOFTWARE)
  - Glossary, 31 (INTRO TO SOFTWARE)
  - .GOTO command, 123, 130, 147 (BEGINNER'S BATCH)
    - example, 148
  - .GOTO command, 735 (COMMANDS)
  - GRIPE program, 573 (COMMANDS)
  - GRIPE program, 36 (INTRO TO SOFTWARE)
  - Groups of commands, 463 (COMMANDS)
- H
- ↑ H (control-H) see Control commands (TECO)
  - H, 258 (TECO)
  - H switch, 405 (PIP)
  - HALT command, 574 (COMMANDS)
  - HALT command, 84 (TIMESHARING)
  - Handler, (INTRO TO SOFTWARE)
    - File, 25, 29
    - Service Request, 9
    - UUO, 25, 28
  - Hardware, 9, 45 (INTRO TO SOFTWARE)
  - Hardware requirements, 375 (PIP)
  - /HEADER, 612, 623 (COMMANDS)
  - HELP command, 575 (COMMANDS)
  - High priority queues, 659 (COMMANDS)
  - High-Priority Run Queues, 15 (INTRO TO SOFTWARE)
  - HK (delete buffer) command, 201 (INTRO TO TECO)
  - Holding a job until a specified time, 126, 141 (BEGINNER'S BATCH)
  - How Batch reads (BEGINNER'S BATCH)
    - card decks, 108
    - control files, 146
  - How to use Batch, 99 (BEGINNER'S BATCH)
  - HP command, 310, 311 (TECO)
  - HT (type entire buffer) command, 200 (INTRO TO TECO)
- I
- I (insert) command, 202, 203 (INTRO TO TECO)
  - I command, 360 (LINED)
  - I command, 266, 267 (TECO)
  - \*i command, 271, 296 (TECO)
  - I switch, 405 (PIP)
  - Identification code, 60 (TIMESHARING)
  - Identifier (PIP)
    - DECTape, 397
    - directory, 387
  - Identifying the job, 127 (BEGINNER'S BATCH)
  - Identifying the user, 130 (BEGINNER'S BATCH)
  - Idle state, 247 (TECO)
  - .IF command (BEGINNER'S BATCH)
    - .IF (ERROR), 122, 148
    - .IF (NOERROR), 129, 148
  - Ignore card sequence numbers, (PIP)
    - (E switch,) 399

Ignoring fatal error messages, 149  
     (BEGINNER'S BATCH)  
 Illegal commands, 209 (INTRO TO TECO)  
 Immediate action commands, 235 (TECO)  
 Implementation, 365 (LINED)  
 INBUF, 28 (INTRO TO SOFTWARE)  
 Increasing the number of entries in the pushdown  
     stack, 243 (TECO)  
 Increment, 295 (TECO)  
 INDEX file, 475 (COMMANDS)  
 Indirect commands, 454 (COMMANDS)  
 Indirect control, 375 (PIP)  
 Information about job, 467 (COMMANDS)  
     DSK, 527  
     PJOB, 601  
     QUOLST, 631  
     SETSRC, 662  
     SET TIME, 666  
     SET WATCH, 672  
     TIME, 694  
 Information about system, 467 (COMMANDS)  
     DAYTIME, 504  
     RESOURCES, 640  
     SCHED, 650  
     SYSTAT, 686  
     VERSION, 704  
     WHERE, 706  
 INIT, 28 (INTRO TO SOFTWARE)  
 INITIA, 36 (INTRO TO SOFTWARE)  
 INITIA command, 577 (COMMANDS)  
 Initialization, 247, 250 (TECO)  
 Initialization of TECO, 192 (INTRO TO TECO)  
 Initializing a file for processing, 362 (LINED)  
 Initializing a job, 463 (COMMANDS)  
     Batch, 712  
     INITIA, 577  
     LOGIN, 590  
 Input, 233, 234, 249, 251, 253, 255, 256,  
     272, 273, 276, 278, 279 (TECO)  
 Input commands, 197 (INTRO TO TECO)  
 Input file, 233, 272, 276, 278, 279, 288 (TECO)

## INDEX (cont)

Input file devices, 191 (INTRO TO TECO)  
 Input/Output Devices, 48 (INTRO TO SOFTWARE)  
 Input/Output Routines, 25, 28 (INTRO TO SOFTWARE)  
 Input queue, Batch, 680 (COMMANDS)  
 Input Queue, 13 (INTRO TO SOFTWARE)  
 INPUT UO, 29 (INTRO TO SOFTWARE)  
 Insert, 233, 234, 248, 264, 265 (TECO)  
 Inserting (TECO)  
     control characters, 271  
     single control characters as text, 271  
     succeeding control characters as text, 271  
 Inserting a line, 360 (LINED)  
 Inserting multiple lines, 360 (LINED)  
 Insertion, 307 (TECO)  
 Insertion command, 264 (TECO)  
 Insert sequence numbers, S-switch, 400 (PIP)  
 Inside-text command, 271, 285 (TECO)  
 Integer divide, 242 (TECO)  
 Interjob dependency, 716 (COMMANDS)  
 Interpreters, 17 (INTRO TO SOFTWARE)  
     AID, 20  
 Interpreting control-characters as text in  
     searches (TECO)  
     single characters, 285  
     succeeding characters, 285  
 Interpreting printed output, 153 (BEGINNER'S  
     BATCH)  
 Interrupting sequential reading of control file,  
     734, 735 (COMMANDS)  
 Interrupt System (INTRO TO SOFTWARE)  
     Priority, 14, 46  
 Intervention, (INTRO TO SOFTWARE)  
     Batch Operator, 14  
 I/O (PIP)  
     errors, 418  
     messages, 419

INDEX (cont)

I/O Channels (INTRO TO SOFTWARE)  
 Software, 28

I/O Service Routines, 10, 28 (INTRO TO SOFTWARE)

Iteration, 289, 296 (TECO)

**J**

J (move pointer to beginning) command, 198 (INTRO TO TECO)

J command, 258 (TECO)

J switch, card punch, 418 (PIP)

JCONTINUE command, 578 (COMMANDS)

Job, 99 (BEGINNER'S BATCH)  
 definition, 94  
 entering to Batch, 137  
 examples, 138, 169, 176  
 submitting, 139  
 examples, 144

Job, 443, 712 (COMMANDS)

\$JOB card, 105, 125 (BEGINNER'S BATCH)  
 switches, 126

\$JOB card, 713, 714, 727 (COMMANDS)

JOB category, 505 (COMMANDS)

Job contained in a file, 714 (COMMANDS)

Job Dependency, 13 (INTRO TO SOFTWARE)

Job in a control file, 716 (COMMANDS)

Job information, 467 (COMMANDS)  
 DSK, 527  
 PJOB, 601  
 QUOLST, 631  
 SETSRC, 662  
 SET TIME, 666  
 SET WATCH, 672  
 TIME, 694

Job initialization, 463 (COMMANDS)  
 Batch, 712  
 INITIA, 577  
 LOGIN, 590

Job Locking, 14 (INTRO TO SOFTWARE)

Jobname, definition, 91 (BEGINNER'S BATCH)

Jobname, 493, 604, 610, 619, 680, 696 (COMMANDS)

Job number, 60 (TIMESHARING)

Job on cards, 713 (COMMANDS)

Job output, Batch, 739 (COMMANDS)

Job search list, 662 (COMMANDS)

Job Search List, 30, 35 (INTRO TO SOFTWARE)

Jobstep, definition, 95 (BEGINNER'S BATCH)

Job termination, 466 (COMMANDS)  
 KJOB, 579

**K**

K, definition, 95 (BEGINNER'S BATCH)

K (delete line) command, 201 (INTRO TO TECO)

K command, 264, 265 (TECO)

KA10, 46 (INTRO TO SOFTWARE)

KI10, 46 (INTRO TO SOFTWARE)

Killing your job, 579 (COMMANDS)

/KILL switch, 140 (BEGINNER'S BATCH)

/KILL switch, 495, 606, 612, 623, 682, 698 (COMMANDS)

Kinds of printed output, 153 (BEGINNER'S BATCH)

KJOB, 23 (INTRO TO SOFTWARE)

KJOB command, 579 (COMMANDS)

KJOB command, 72 (TIMESHARING)

**L**

† L (control-L) see Control commands (TECO)

L (move pointer by lines) command, 199 (INTRO TO TECO)

L command, 259, 293 (TECO)

L switch, 406 (PIP)

Label, definition, 95 (BEGINNER'S BATCH)

Language (INTRO TO SOFTWARE)  
 Command Control, 10  
 Machine, 17

Language Programming (INTRO TO SOFTWARE)  
 Symbolic, 17



## INDEX (cont)

- Leaving the system, 72 (TIMESHARING)
- Leaving the terminal in monitor mode, 500 (COMMANDS)
- LIB40, 37 (INTRO TO SOFTWARE)
- LIBOL, 19, 37 (INTRO TO SOFTWARE)
- /LIBRARY, 514, 540, 586 (COMMANDS)
- Library Maintenance Program, 19 (INTRO TO SOFTWARE)
- /LIMIT, 495, 606, 612, 624, 699 (COMMANDS)
- Line, 237, 259, 260, 268 (TECO)
- Line continuation, 139 (BEGINNER'S BATCH)
- LINED program, 498, 537 (COMMANDS)
- LINED program, 20 (INTRO TO SOFTWARE)
- LINED program, 62, 64 (TIMESHARING)
- Line editor, 359 (LINED)
- Line feed, 236, 237, 256, 262, 306, 320 (TECO)
- Line feed symbol (↓), 194 (INTRO TO TECO)
- Line numbers, 20 (INTRO TO SOFTWARE)
- Line Printer, 49 (INTRO TO SOFTWARE)
- Line printer listing, FORTRAN, (PIP) (P switch), 400
- Line printer output, 81 (TIMESHARING)
  - CREF, 82
  - DIRECT, 82
  - PRINT, 81
- Line printer output, specifying amount, 127, 142 (BEGINNER'S BATCH)
- Line printer queue, 610 (COMMANDS)
- Line sequence numbered files, 254 (TECO)
- Line sequence numbers, 365 (LINED)
- Line sequence numbers, 238, 254 (TECO)
- Line terminators, 237 (TECO)
- List (INTRO TO SOFTWARE)
  - Command, 28
  - Job Search, 30
- /LIST, COMPIL, 482, 515, 540, 586 (COMMANDS)
- /LIST, DIRECT, 521 (COMMANDS)
- /LIST, QUEUE, 495, 606, 612, 624, 682, 699 (COMMANDS)
- LIST command, 584 (COMMANDS)
- Listing available devices, 640 (COMMANDS)
- Listing cross-referenced files, 499 (COMMANDS)
- Listing directories, 520 (COMMANDS)
- Listing directories, 66, 82 (TIMESHARING)
- Listing files, 66, 81 (TIMESHARING)
- Listings, 154 (BEGINNER'S BATCH)
- Listing source files, 584 (COMMANDS)
- List limited source directory, (PIP)
  - F-switch, 407
- List source device directory, (PIP)
  - L switch, 406
- Literal type-out mode, 261 (TECO)
- /LMAP, 515, 541, 587 (COMMANDS)
- LOAD, 276 (TECO)
- LOAD command, 585 (COMMANDS)
- LOAD command, 68 (TIMESHARING)
- Loader map, 154 (BEGINNER'S BATCH)
  - example, 156
- LOADER program, 22, 37 (INTRO TO SOFTWARE)
- LOADER program, 68 (TIMESHARING)
- LOADER switches, 460 (COMMANDS)
- Loading and starting core image file, 632, 646 (COMMANDS)
- Loading and writing a Bootstrap loader, 488 (COMMANDS)
- Loading core image file, 568 (COMMANDS)
  - and starting, 632, 646
- Loading files, 585 (COMMANDS)
- Loading PIP, 375 (PIP)
- Loading programs, 67 (TIMESHARING)
  - LOAD, 68
- Load point, 252 (TECO)
- LOCATE command, 589 (COMMANDS)

INDEX (cont)

Locking Jobs, 14 (INTRO TO SOFTWARE)  
 /LOG, 612, 624 (COMMANDS)  
 Log file, 100, 153 (BEGINNER'S BATCH)  
   definition, 95  
   examples, 158, 161  
 Log file (COMMANDS)  
   BACKUP, 475  
   BATCH, 680, 710, 727, 740  
 Log File, 13 (INTRO TO SOFTWARE)  
 Logged-In Quota, 30 (INTRO TO SOFTWARE)  
 Logged-Out Quota, 30 (INTRO TO SOFTWARE)  
 Logging on, 590 (COMMANDS)  
 Logging off, 579 (COMMANDS)  
 Logical AND, 242 (TECO)  
 Logical Block Numbers, 29 (INTRO TO SOFTWARE)  
 Logical device name, 449 (COMMANDS)  
   example of, 450  
 Logical Device Name, 28, 38 (INTRO TO SOFTWARE)  
 Logical device name, 383 (PIP)  
 Logical device name, 76 (TIMESHARING)  
 Logical OR, 242 (TECO)  
 Logical station, 589 (COMMANDS)  
 Logical Station, 16 (INTRO TO SOFTWARE)  
 Login check, 446 (COMMANDS)  
 LOGIN command, 590 (COMMANDS)  
 LOGIN command, 60 (TIMESHARING)  
 LOGIN program, 23, 38 (INTRO TO SOFTWARE)  
 LOGIN program, 60 (TIMESHARING)  
 LOGOUT, 23 (INTRO TO SOFTWARE)  
 LOOKFL, 38 (INTRO TO SOFTWARE)  
 LOOKUP, 29 (INTRO TO SOFTWARE)  
 Loop, 278, 289 (TECO)  
 Lower case flagging, 262 (TECO)

M

M command, 296, 313 (TECO)  
 Machine Language, 17 (INTRO TO SOFTWARE)  
 MACRO (BEGINNER'S BATCH)  
   assembler switches, 128  
   deck, setting up, 107  
   program, assembling and executing, 107  
 MACRO, 17 (INTRO TO SOFTWARE)  
 Macro, 313, 314 (TECO)  
 Macro Capabilities, 18 (INTRO TO SOFTWARE)  
 \$MACRO card, 107, 127 (BEGINNER'S BATCH)  
   examples, 129  
   switches, 128  
 \$MACRO card, 729 (COMMANDS)  
 /MACRO switch, 482, 515, 541, 587 (COMMANDS)  
 /MACX11, 482, 515, 541, 587 (COMMANDS)  
 Magnetic tape, 251, 252, 255 (TECO)  
 Magnetic tape density, 657 (COMMANDS)  
 Magnetic tape switches, 415, 416 (PIP)  
 Magnetic Tape Systems, 48 (INTRO TO SOFTWARE)  
 Main uses of TECO, 247 (TECO)  
 MAKE command, 592 (COMMANDS)  
 MAKE (make disk file) command, 192 (INTRO TO TECO)  
 MAKE command, 247, 248, 250, 252, 307, 308 (TECO)  
 MAKE command, 64 (TIMESHARING)  
 Manager (INTRO TO SOFTWARE)  
   Queue, 13  
 Manipulating core images, 83 (TIMESHARING)  
   GET, 84  
   R, 83  
   RUN, 83  
   SAVE, 83

## Manipulating files, 465 (COMMANDS)

ALCFIL, 468  
 BACKSPACE, 474  
 BACKUP, 475  
 COPY, 486  
 CPUNCH, 493  
 DELETE, 517  
 DIRECT, 520  
 EOF, 538  
 FILE, 533  
 FILEX, 557  
 LIST, 584  
 PLOT, 604  
 PRESERVE, 609  
 PRINT, 610  
 PROTECT, 616  
 QUEUE, 618  
 RENAME, 638  
 RESTORE, 641  
 REWIND, 645  
 SKIP, 675  
 SUBMIT, 680  
 TPUNCH, 696  
 TYPE, 702  
 UNLOAD, 703  
 ZERO, 707

## Manipulating files, 65 (TIMESHARING)

DELETE, 67  
 DIRECT, 66  
 RENAME, 67  
 TYPE, 66

## Manipulating terminals, 80 (TIMESHARING)

ATTACH, 81  
 DETACH, 81  
 SEND, 80

## /MARKS, 521 (COMMANDS)

## Master file, 563 (COMMANDS)

## Master File Directory, 29, 38 (INTRO TO SOFTWARE)

## Maximum length of search strings, 278 (TECO)

## Memory (INTRO TO SOFTWARE)

Core, 47  
 Secondary, 11

## Merge, 310, 311 (TECO)

## Message of the day, 590 (COMMANDS)

## INDEX (cont)

## Messages (COMMANDS)

BATCON, 742  
 CDRSTK, 740  
 system, 747

## MFD, 29, 38 (INTRO TO SOFTWARE)

## - (minus), 242 (TECO)

## \$MODE card, 730 (COMMANDS)

## Modes (INTRO TO SOFTWARE)

Block, 15  
 Buffered Data, 28  
 Single, 15  
 Unbuffered Data, 28

## Modifiers, 281 (TECO)

## /MODIFY switch, 141 (BEGINNER'S BATCH)

## /MODIFY switch, 495, 606, 613, 624, 682, 699 (COMMANDS)

## Modifying amount of core assigned, 491 (COMMANDS)

## Modifying text, 192 (INTRO TO TECO)

## MONEY, 38 (INTRO TO SOFTWARE)

## MONGEN, 23, 38 (INTRO TO SOFTWARE)

## Monitor, definition, 95 (BEGINNER'S BATCH)

## Monitor, 59 (TIMESHARING)

## Monitor command (BEGINNER'S BATCH)

card format, 104  
 definition, 95  
 line format, 138

## Monitor command language, 443 (COMMANDS)

## Monitor commands, 235, 248 (TECO)

## Monitor mode, 444 (COMMANDS)

## Monitor Support Programs, 23 (INTRO TO SOFTWARE)

## MOUNT command, 100 (BEGINNER'S BATCH)

example, 175, 183

## MOUNT command, 593 (COMMANDS)

## MOUNT command, 78 (TIMESHARING)

## Mounting a device, definition, 95 (BEGINNER'S BATCH)

INDEX (cont)

- Mounting tapes, 100 (BEGINNER'S BATCH)
    - examples, 175, 183
  - Moving a file to Batch's disk area, 144 (BEGINNER'S BATCH)
  - /MULTI, 594 (COMMANDS)
  - Multimode Computing, 10 (INTRO TO SOFTWARE)
  - Multiple job control, 466 (COMMANDS)
    - ATTACH, 472
    - CCONT, 500
    - CSTART, 500
    - DETACH, 519
    - OPSER, 597
    - REATA, 635
  - Multiply, 242 (TECO)
  - Multiprocessing, 10, 38 (INTRO TO SOFTWARE)
  - Multiprogram Batch, 99 (BEGINNER'S BATCH)
  - Multiprogram Batch, 12 (INTRO TO SOFTWARE)
  - Multiprogramming, definition, 95 (BEGINNER'S BATCH)
  - Multiprogramming, 443 (COMMANDS)
  - Multiprogramming, 11, 28, 39 (INTRO TO SOFTWARE)
  - Multi-purpose commands, 307 (TECO)
- N
- ↑ N (control-N) see Control commands (TECO)
  - N (search file) command, 206, 207 (INTRO TO TECO)
  - N command, 279, 281, 293, 310 (TECO)
  - N switch, delete sequence number, 399 (PIP)
  - nA command, 301 (TECO)
  - n\ command, 266 (TECO)
  - nK CORE, 244, 256 (TECO)
  - nI (\$) command, 266 (TECO)
  - Name (INTRO TO SOFTWARE)
    - Generic, 30, 36
    - Logical Device, 28, 38
  - Named Files, 29, 39 (INTRO TO SOFTWARE)
  - Naming control files, 140 (BEGINNER'S BATCH)
  - Naming data files on the \$DATA card, 116 (BEGINNER'S BATCH)
  - Naming files, 62 (TIMESHARING)
  - Naming files with octal constants, 385 (PIP)
  - Naming jobs, 125, 140 (BEGINNER'S BATCH)
  - Naming log files, 140 (BEGINNER'S BATCH)
  - Negation, 242 (TECO)
    - /NEW, 496, 606, 613, 624, 682, 699 (COMMANDS)
    - nnnTEC.TMP, 249, 253 (TECO)
    - No case flagging, 262 (TECO)
    - /NOCOMPILE, 482, 515, 541, 587 (COMMANDS)
  - \$NOERROR card, 129 (BEGINNER'S BATCH)
  - \$NOERROR card, 724 (COMMANDS)
  - .NOERROR command, 149 (BEGINNER'S BATCH)
    - example, 149
  - .NOERROR command, 737 (COMMANDS)
  - /NOLIST switch (BEGINNER'S BATCH)
    - \$ALGOL card, 111
    - \$FORTRAN card, 124
    - \$MACRO card, 129
  - /NOLIST switch, 482, 515, 541, 587 (COMMANDS)
  - Non-directory to Directory copy (PIP)
    - operation, 395
  - Non-Resident Software, 10, 17 (INTRO TO SOFTWARE)
    - .NOOPERATOR command, 737 (COMMANDS)
  - No prevailing case conversion, 270 (TECO)
  - /NOSEARCH, 515, 541, 587 (COMMANDS)
  - /NOTE, 607, 613, 624 (COMMANDS)
  - NOTICE.TXT, 590 (COMMANDS)
  - Null, 234 (TECO)
  - Null extension, 234, 251 (TECO)
  - Null page, 238 (TECO)

- INDEX (cont)
- /NULL switch, 496, 607, 613, 624, 699 (COMMANDS)
  - Numbers (INTRO TO SOFTWARE)
    - Line, 20
    - Logical Block, 29
  - # symbol, 385 (PIP)
  - Numeric argument, 196 (INTRO TO TECO)
  - Numeric argument, 241, 251, 257, 281 (TECO)
  - Numeric operators, 242 (TECO)
    -
  - † ○ (control-0) see Control commands (TECO)
  - command, 292 (TECO)
  - switch, insert sequence numbers and increment by one, 400 (PIP)
  - Object program, definition, 95 (BEGINNER'S BATCH)
  - Object program control, 465 (COMMANDS)
    - CONTINUE, 495
    - DDT, 510
    - GET, 568
    - HALT, 574
    - JCONT, 578
    - R, 632
    - REENTER, 637
    - RUN, 646
    - START, 679
  - Object program examination, 466 (COMMANDS)
    - D, 502
    - DCORE, 505
    - DUMP, 529, 530
    - E, 536
  - Object program preparation, 465 (COMMANDS)
    - COMPILE, 480
    - CREF, 499
    - DEBUG, 513
    - EXECUTE, 539
    - FUDGE, 562
    - FUDGE2, 563
    - LOAD, 585
    - SAVE, 648
    - SSAVE, 677
  - Obtaining cross reference listing (BEGINNER'S BATCH)
    - \$COBOL card, 114
    - \$FORTRAN card, 124
    - \$MACRO card, 129
  - Obtaining documentation, 575 (COMMANDS)
  - Obtaining entries in queues, 618 (COMMANDS)
  - Obtaining information, 70, 85 (TIMESHARING)
    - DAYTIME, 71
    - PJOB, 71
    - RESOURCES, 85
    - SYSTAT, 85
    - TIME, 71
  - Obtaining job number, 601 (COMMANDS)
  - Obtaining more information about errors, 323 (TECO)
  - Obtaining printable dumps, 530 (COMMANDS)
  - Obtaining the date and time, 504 (COMMANDS)
  - Obtaining the value of (TECO)
    - automatic timeout flag, 301
    - case flag, 301
    - end-of-file flag, 301
    - error message flag, 301, 324
    - search mode flag, 286
    - timeout mode switch, 261
    - version number flag, 301
  - Octal constants as filename, 385 (PIP)
  - Octal numbers, 242 (TECO)
  - /OKBINARY, 613, 624 (COMMANDS)
  - /OKNONE, DIRECT, 521 (COMMANDS)
  - /OKNONE, QUEUE, 496, 607, 613, 624, 699 (COMMANDS)
  - OMOUNT program, 525, 554, 593 (COMMANDS)
  - OMOUNT program, 39 (INTRO TO SOFTWARE)
  - OPEN, 28 (INTRO TO SOFTWARE)
  - Opening a file, 192 (INTRO TO TECO)
  - Opening a new file, 248 (TECO)
  - Operating procedure, 191 (INTRO TO TECO)



INDEX (cont)

Operating system, 443 (COMMANDS)  
 commands, 463

Operating System, 9, 25 (INTRO TO SOFTWARE)

Operating the terminal, 73 (TIMESHARING)

Operator, computer, definition, 93 (BEGINNER'S BATCH)

.OPERATOR command, 737 (COMMANDS)

Operator communication, 466 (COMMANDS)  
 DISMOUNT, 525  
 FILE, 553  
 GRIPE, 573  
 MOUNT, 593  
 PLEASE, 602  
 SEND, 651

Operator communication, 78, 79 (TIMESHARING)

Operator Intervention (INTRO TO SOFTWARE)  
 Batch, 14

Operators (INTRO TO SOFTWARE)  
 Programmed, 25, 27, 40

Operators, 242 (TECO)

OPSER program, 597 (COMMANDS)

OPSER program, 23 (INTRO TO SOFTWARE)

Optional functions, 393 (PIP)

Optional PIP functions, 415 (PIP)

OR, 242 (TECO)

OUT, 29 (INTRO TO SOFTWARE)

OUTBUF, 28 (INTRO TO SOFTWARE)

/OUTPUT, 625, 683 (COMMANDS)

Output (BEGINNER'S BATCH)  
 card, 100  
 line printer, 100  
 paper tape, 100  
 plotter, 100  
 tape, 100

Output, 234, 250, 251, 252, 272, 274, 276, 277, 287, 302, 307, 310 (TECO)

Output, Batch, 739 (COMMANDS)

Output, specifying amount (BEGINNER'S BATCH)  
 card, 126, 142  
 line printer pages, 127, 142  
 paper tape, 126, 142  
 plotter time, 127, 143

Output commands, 203 (INTRO TO TECO)

Output commands, 272 (TECO)

Output error, 313 (TECO)

Output file, 233, 272, 273, 275, 278, 280 (TECO)

Output file devices, 191 (INTRO TO TECO)

Output from a job, 153 (BEGINNER'S BATCH)

Output Spoolers, 11, 13 (INTRO TO SOFTWARE)

OUTPUT UUO, 29 (INTRO TO SOFTWARE)

Owner (INTRO TO SOFTWARE)  
 File, 30

P

P (output buffer) command, 203 (INTRO TO TECO)

P command, 361 (LINED)

P command, 272, 274, 280 (TECO)

P switch, prepare FORTRAN output for Line Printer listing, 400 (PIP)

Page, 237, 238, 239, 256, 267, 272, 279, 287, 302, 309, 311 (TECO)

Pages, 491 (COMMANDS)

Pages, 191, 192 (INTRO TO TECO)  
 combining, 197  
 reading into buffer, 197

Pages, specifying number to print, 127 (BEGINNER'S BATCH)

/PAGE switch (SUBMIT command), 142 (BEGINNER'S BATCH)

/PAGE switch, 625, 683 (COMMANDS)

/PAGES switch (\$JOB card), 127 (BEGINNER'S BATCH)

/PAPER, 625 (COMMANDS)

Paper-tape output, specifying amount, 126, 142 (BEGINNER'S BATCH)

Paper tape punch queue, 696 (COMMANDS)

Parentheses, 242 (TECO)

Parentheses usage, 382, 415 (PIP)

/PARITY, 521 (COMMANDS)

Partial allocation, 468 (COMMANDS)

Parts of error messages, 321 (TECO)  
 Passing devices to jobs, 633 (COMMANDS)  
 Passive search list, 662 (COMMANDS)  
 Password, definition, 95 (BEGINNER'S BATCH)  
 Password, 448 (COMMANDS)  
 Password, 61 (TIMESHARING)  
 \$PASSWORD card, 99, 130 (BEGINNER'S BATCH)  
 \$PASSWORD card, 713, 731 (COMMANDS)  
 /PAUSE, 525, 594 (COMMANDS)  
 % (percent sign) command, 295, 314 (TECO)  
 Period, 234, 286, 293 (TECO)  
 . (period), 258, 293 (TECO)  
 Period (.) usage, 192 (INTRO TO TECO)  
 Period (.) usage, 377, 382 (PIP)  
 Peripheral devices, definition, (BEGINNER'S BATCH)  
 Peripheral devices, 383 (PIP)  
 Peripheral devices, 75 (TIMESHARING)  
 Permanent switch, 457 (COMMANDS)  
 /PHYSICAL, DIRECT, 521 (COMMANDS)  
 /PHYSICAL, QUEUE, 496, 607, 613, 625, 683, 699 (COMMANDS)  
 Physical device name, 448 (COMMANDS)  
   example of, 450  
 Physical device name, 383 (PIP)  
 Physical device name, 75 (TIMESHARING)  
 PIP command errors, 421 (PIP)  
 PIP program, 22, 39 (INTRO TO SOFTWARE)  
 PIP program, 192 (INTRO TO TECO)  
 PJOB command, 601 (COMMANDS)  
 PJOB command, 71 (TIMESHARING)  
 PLEASE, 39 (INTRO TO SOFTWARE)  
 PLEASE command, 602 (COMMANDS)  
 /PLOT, 607, 625 (COMMANDS)  
 PLOT command, 604 (COMMANDS)  
 Plotter output queue, 604 (COMMANDS)

## INDEX (cont)

Plotters, 49 (INTRO TO SOFTWARE)  
 Plotter time, specifying amount, 127, 143 (BEGINNER'S BATCH)  
 Plotting files, 604 (COMMANDS)  
 + (plus), 241 (TECO)  
 Pointer (INTRO TO SOFTWARE)  
   Buffer, 20  
 Pointer, buffer see Buffer pointer (TECO)  
 Pointer, buffer, 198 (INTRO TO TECO)  
 Pointer position, 198 (INTRO TO TECO)  
 Position, buffer, 241 (TECO)  
 Preparing dumps, 505, 529 (COMMANDS)  
 Preparing object programs, 465 (COMMANDS)  
   COMPILE, 480  
   CREF, 499  
   DEBUG, 419  
   EXECUTE, 539  
   FUDGE, 562  
   FUDGE2, 563  
   LOAD, 585  
   SAVE, 648  
   SSAVE, 677  
 Preparing source files, 465 (COMMANDS)  
   CREATE, 498  
   EDIT, 537  
   MAKE, 592  
   TECO, 693  
 Preserving (BEGINNER'S BATCH)  
   control file, 143  
   log file, 143  
 Preserving files, 609 (COMMANDS)  
 Primary Processor, 10 (INTRO TO SOFTWARE)  
 /PRINT, 613, 626 (COMMANDS)  
 PRINT command, 610 (COMMANDS)  
 PRINT command, 81 (TIMESHARING)  
 Printed, output, 154 (BEGINNER'S BATCH)  
   kinds, 153  
 Printers (INTRO TO SOFTWARE)  
   Line, 49  
 Printing a line, 361 (LINED)

INDEX (cont)

- Printing files, 610 (COMMANDS)
- Printing incremental job statistics, 672
- Printing source files, 584 (COMMANDS)
- Printing system statistics, 686 (COMMANDS)
- Printing version numbers, 672, 704 (COMMANDS)
- Print summary of PIP functions, (PIP)
  - Q switch, 411
- /PRIORITY, 496, 607, 613, 626, 683, 699 (COMMANDS)
- Priority Interrupt System, 14, 46 (INTRO TO SOFTWARE)
- Processing errors, 724, 732 (COMMANDS)
- Processors, 46 (INTRO TO SOFTWARE)
  - Primary, 10
  - Secondary, 10
- Processors, 68 (TIMESHARING)
- Processor switches, 458 (COMMANDS)
- Producing cross-referenced listing, 481 (COMMANDS)
  - global symbols, 569
- Producing REL files, 480 (COMMANDS)
- Program (BEGINNER'S BATCH)
  - definition, 95
  - object, definition, 95
  - source definition, 95
- Program (INTRO TO SOFTWARE)
  - Reentrant, 11
  - Source Library Maintenance, 19
- Program execution, 539 (COMMANDS)
- Programmed editing, 243 (TECO)
- Programmed Operators, 25, 27, 40 (INTRO TO SOFTWARE)
- Programmer number, 251 (TECO)
- Programming, definition, 95 (BEGINNER'S BATCH)
- Programming (INTRO TO SOFTWARE)
  - Symbolic Language, 17
- Programs (COMMANDS)
  - system, 463
- Programs (INTRO TO SOFTWARE)
  - Monitor Support, 23
  - Spooling, 13
- Project number, 251 (TECO)
- Project-programmer area, 248, 249, 255 (TECO)
- Project-programmer number, 125 (BEGINNER'S BATCH)
  - definition, 95
- Project-programmer number, 448, 590 (COMMANDS)
- Project-programmer number, 251, 253 (TECO)
- Project-programmer number, 60 (TIMESHARING)
  - [proj,prog], 125 (BEGINNER'S BATCH)
    - definition, 95
  - [proj,prog], 251 (TECO)
- Proj, prog number pairs, 389 (PIP)
- Properties of terminals, 668 (COMMANDS)
- /PROTECT, DIRECT, 521 (COMMANDS)
- /PROTECT, QUEUE, 496, 607, 613, 626, 683, 699 (COMMANDS)
- PROTECT command, 616 (COMMANDS)
- Protecting old macros from new features in TECO, 305 (TECO)
- Protection codes, 616 (COMMANDS)
- Protection Codes, 11, 30 (INTRO TO SOFTWARE)
- Protection codes, 390, 391 (PIP)
  - changing of, 408
  - digit numeric values, 391
- Protection codes, 66 (TIMESHARING)
- Providing printable dumps, 530 (COMMANDS)
- Pseudo-TTYS, 23 (INTRO TO SOFTWARE)
- Punch Card, 49 (INTRO TO SOFTWARE)
- /PUNCH, 496, 626 (COMMANDS)
- PUNCH command, 696 (COMMANDS)
- Punching cards, 493 (COMMANDS)
- Pushdown stack, increasing the number of entries, 243 (TECO)

Putting commands in the control file, 108  
 (BEGINNER'S BATCH)  
 Putting comments in TECO macros, 292 (TECO)  
 PW (output page) command, 203 (INTRO TO  
 TECO)  
 PW command, 272, 273, 274, 310, 312 (TECO)  
 PWY command, 273 (TECO)

## Q

Q command, 295 (TECO)  
 QMANGR, 710 (COMMANDS)  
 QMANGR, 12, 40 (INTRO TO SOFTWARE)  
 Q-register, 243, 244, 295, 296 (TECO)  
 Q-register commands, 295 (TECO)  
 Q-register pushdown list, 297 (TECO)  
 Q-register pushdown stack, 243 (TECO)  
 Q switch, print summary of PIP functions, 411  
 (PIP)  
 ? (question mark) command, 304, 322 (TECO)  
 Question mark construction, 452 (COMMANDS)  
 Question mark (?) symbol, 386, 406 (PIP)  
 Queue, 40 (INTRO TO SOFTWARE)  
 Input, 13  
 QUEUE command, 618 (COMMANDS)  
 Queue, definition, 96 (BEGINNER'S BATCH)  
 entering a job into, 139  
 QUEUE INP: monitor command, 139  
 (BEGINNER'S BATCH)  
 Queue manager, 710 (COMMANDS)  
 Queue Manager, 13 (INTRO TO SOFTWARE)  
 Queue names, 618 (COMMANDS)  
 Queue operation switches, 140 (BEGINNER'S  
 BATCH)  
 Queue operation switches, 493 (COMMANDS)  
 Queues, 26 (INTRO TO SOFTWARE)  
 High-Priority Run, 15  
 Queuing files, 581 (COMMANDS)

## INDEX (cont)

QUOLST program, 631 (COMMANDS)  
 QUOLST program, 41 (INTRO TO SOFTWARE)  
 Quota (INTRO TO SOFTWARE)  
 Logged-In, 30  
 Logged-Out, 30  
 Quotas (INTRO TO SOFTWARE)  
 Disk, 30  
 Quotas, typing, 631 (COMMANDS)  
 QUOTA.SYS, 593 (COMMANDS)  
 " (quotation mark) command, 282, 314 (TECO)

## R

R (control-R) see Control commands (TECO)  
 R command, 632 (COMMANDS)  
 R (move pointer backwards by character)  
 (INTRO TO TECO)  
 command, 198  
 R command, 258 (TECO)  
 R command, 83 (TIMESHARING)  
 R switch, Rename Source Files, 407 (PIP)  
 REACT, 41 (INTRO TO SOFTWARE)  
 Readers, Card, 48 (INTRO TO SOFTWARE)  
 Reading a card deck, 108 (BEGINNER'S BATCH)  
 Reading control file backward, 734 (COMMANDS)  
 Reading control file forward, 735 (COMMANDS)  
 Reallocating disk space, 468 (COMMANDS)  
 Real-Time, 14 (INTRO TO SOFTWARE)  
 Real-Time Devices, 14 (INTRO TO SOFTWARE)  
 Real-Time Requirements, 14 (INTRO TO SOFTWARE)  
 Rearranging, 309 (TECO)  
 REASSIGN command, 633 (COMMANDS)  
 REASSIGN command, 79 (TIMESHARING)  
 Reassigning devices, 79 (TIMESHARING)  
 Reattaching jobs, 472, 635 (COMMANDS)  
 REATTA program, 635 (COMMANDS)  
 Receiving output, 100 (BEGINNER'S BATCH)

INDEX (cont)

- Recording complaints, 573 (COMMANDS)
- Recovering from errors, 100, 131, 150 (BEGINNER'S BATCH)
- Recovery, Error, 13 (INTRO TO SOFTWARE)
- REENTER, 277, 290 (TECO)
- REENTER command, 637 (COMMANDS)
- Reentrant Program, 11 (INTRO TO SOFTWARE)
- Reentry to TECO, 205 (INTRO TO TECO)
- /REL, 516, 541, 587 (COMMANDS)
- RELEASE, 29 (INTRO TO SOFTWARE)
- Release, 251, 253 (TECO)
- Relocatable binary, 68 (TIMESHARING)
- \$RELOCATABLE card, 731 (COMMANDS)
- Remembered arguments, 454 (COMMANDS)
- Remembered arguments, 65 (TIMESHARING)
- Remote Communications, 15 (INTRO TO SOFTWARE)
- Remote DECTape control, 553 (COMMANDS)
- Remote Station, 15, 51 (INTRO TO SOFTWARE)
- Remote users, 78 (TIMESHARING)
- /REMOVE, DISMOUNT, 526 (COMMANDS)
- /REMOVE, QUEUE, 496, 607, 614, 627, 699 (COMMANDS)
- Removing file structure from search list, 525 (COMMANDS)
- Rename, 249, 253 (TECO)
- Rename backup file, 193 (INTRO TO TECO)
- RENAME command, 638 (COMMANDS)
- RENAME command, 67 (TIMESHARING)
- Rename (R) function, 408 (PIP)
- Renaming files, 638 (COMMANDS)
  - with any protection, 616
  - with standard protection, 609
- Replacing a line, 360 (LINED)
- /REPORT, 614, 627 (COMMANDS)
- Request Handler, Service, 9 (INTRO TO SOFTWARE)
- .QUEUE command, 738 (COMMANDS)
- Required control cards, 105 (BEGINNER'S BATCH)
- RERUN, 19 (INTRO TO SOFTWARE)
- Resident Operating System, 9, 25 (INTRO TO SOFTWARE)
- Resource Allocator, Sharable, 10 (INTRO TO SOFTWARE)
- RESOURCES command, 640 (COMMANDS)
- RESOURCES command, 85 (TIMESHARING)
- /RESTART, 627, 683 (COMMANDS)
- Restarting batch job after failure, 735 (COMMANDS)
- RESTORE program, 641 (COMMANDS)
- RESTORE program, 22 (INTRO TO SOFTWARE)
- Restoring files, 641 (COMMANDS)
- Restoring TECO to no prevailing case conversion, 270, 284 (TECO)
- Restricted devices, 464 (COMMANDS)
- Retrieval Information, 29 (INTRO TO SOFTWARE)
- Return a numeric value, 281, 301 (TECO)
- Returning devices, 512, 525, 560, 579 (COMMANDS)
- Returning devices (TIMESHARING)
  - DEASSIGN, 79
  - DISMOUNT, 79
  - FINISH, 80
  - KJOB, 72
- Returning to the monitor, 73 (TIMESHARING)
- RETURN key, 74 (TIMESHARING)
- Retyping the current line, 321 (TECO)
- .REVIVE command, 739 (COMMANDS)
- Rewind, 252, 255 (TECO)
- REWIND command, 645 (COMMANDS)
- Rewinding MTA, DTA, 645 (COMMANDS)
- Rewinding and unloading MTA, 703 (COMMANDS)
- Ring of Buffers, 28 (INTRO TO SOFTWARE)
- R LINED, 362 (LINED)
- Routines (INTRO TO SOFTWARE)
  - Cyclic, 25

- Routines (cont)
- I/O Service, 10
  - Input/Output, 25, 28
- R TECO command, 247, 249, 250 (TECO)
- Rubout, 235, 236, 268, 306, 307, 319 (TECO)
- RUBOUT key, 446 (COMMANDS)
- RUBOUT key, 195 (INTRO TO TECO)
- RUBOUT key, 74 (TIMESHARING)
- Rubout symbol (  $\text{\textcircled{RO}}$  ), 194 (INTRO TO TECO)
- /RUN, 521 (COMMANDS)
- RUN command, 646 (COMMANDS)
- RUN command, 83 (TIMESHARING)
- Running CDRSTK, 715 (COMMANDS)
- Running jobs, 99, 103, 137 (BEGINNER'S BATCH)
- ALGOL, 105
  - BASIC, 109
  - COBOL, 106
  - FORTRAN, 106
  - MACRO, 107
- Running programs, 463 (COMMANDS)
- Running programs, 61, 83 (TIMESHARING)
- Running time, 71 (TIMESHARING)
- RUNOFF Editor, 21, 41 (INTRO TO SOFTWARE)
- /RUNOFFSET, 521 (COMMANDS)
- Run Queues (INTRO TO SOFTWARE)
- High-Priority, 15
- S
- † S (control-S) see Control commands (TECO)
- S (search buffer) command, 205, 206 (INTRO TO TECO)
- S command, 362 (LINED)
- S command, 279, 281, 293 (TECO)
- S Switch, insert sequence numbers, 400 (PIP)
- Sample jobs, Batch, 743 (COMMANDS)
- SAVE command, 648, 795 (COMMANDS)
- SAVE command, 83 (TIMESHARING)
- Saving core images, 648, 677 (COMMANDS)
- Saving core images, 83 (TIMESHARING)
- Saving files, 475, 579 (COMMANDS)
- Saving previous command string, 296 (TECO)
- SCHED command, 650 (COMMANDS)
- Schedule bits, 650 (COMMANDS)
- Scheduler, 25, 26 (INTRO TO SOFTWARE)
- SCRIPT program, 42 (INTRO TO SOFTWARE)
- Search, 278, 279, 280 (TECO)
- Search command modifiers, 281 (TECO)
- Search commands, 205 (INTRO TO TECO)
- Searching (TECO)
- and deleting strings, 279, 280
  - and replacing strings, 279, 280
  - in "either-case-mode", 285,
  - in "exact-case-mode", 285, 286
  - partly in "exact-case" and partly in "either-case" mode, 285
- Searching back in the control file, 123, 130, 146 (BEGINNER'S BATCH)
- Searching forward in the control file, 123, 130, 147 (BEGINNER'S BATCH)
- Search list, 662 (COMMANDS)
- Search List, Job, 30 (INTRO TO SOFTWARE)
- Search string, 278, 279, 281 (TECO)
- Secondary Memory, 11 (INTRO TO SOFTWARE)
- Secondary Processor, 10 (INTRO TO SOFTWARE)
- Segments, 11, 42 (INTRO TO SOFTWARE)
- ; (semicolon) command, 289, 291 (TECO)
- SEND command, 651 (COMMANDS)
- SEND command, 80 (TIMESHARING)
- Sending messages, 466 (COMMANDS)
- GRIPE, 573
  - PLEASE, 602
  - SEND, 651
- Separator character, 286 (TECO)
- \$SEQUENCE card, 105, 111 (BEGINNER'S BATCH)
- \$SEQUENCE card, 732 (COMMANDS)

INDEX (cont)

- Sequence number, delete (N switch), 399 (PIP)
- Sequence number, ignore card (E switch), 399 (PIP)
- Sequence number and increment by one, O switch, insert, 400 (PIP)
- Sequence numbers, S-switch, insert, 400 (PIP)
- /SEQUENCE switch (\$COBOL card), 114 (BEGINNER'S BATCH)
- /SEQUENCE switch, 497, 607, 614, 627, 683, 700 (COMMANDS)
- Service Request Handler, 9 (INTRO TO SOFTWARE)
- Service Routines (INTRO TO SOFTWARE)
  - I/O, 10
- SET BLOCKSIZE command, 653 (COMMANDS)
- SET CDR command, 654 (COMMANDS)
- SET CPU command, 655 (COMMANDS)
- Set data mode switches, B, H and I, 405 (PIP)
- SET DENSITY command, 657 (COMMANDS)
- SET DSKPRI command, 658 (COMMANDS)
- SET HPQ command, 659 (COMMANDS)
- SET SPOOL command, 660 (COMMANDS)
- SETSRC program, 662 (COMMANDS)
- SETSRC program, 42 (INTRO TO SOFTWARE)
- SET TIME command, 666 (COMMANDS)
- Setting (TECO)
  - case flagging mode, 262
  - EO value, 305
  - TECO to a prevailing case conversion mode, 269, 283
  - version number of TECO, 305
- Setting up a card deck, 104 (BEGINNER'S BATCH)
  - ALGOL, 105
  - BASIC, 99
  - COBOL, 106
  - FORTRAN, 106
  - MACRO, 107
- Setting up a job, 99 (BEGINNER'S BATCH)
- SET TTY command, 668 (COMMANDS)
- SET WATCH command, 672 (COMMANDS)
- SFD, 29, 42 (INTRO TO SOFTWARE)
- SFD (full directory path) identifiers, 388 (PIP)
- Sharable Data Areas, 15 (INTRO TO SOFTWARE)
- Sharable Resource Allocator, 10 (INTRO TO SOFTWARE)
- Sharing Devices, 11 (INTRO TO SOFTWARE)
- Sharing Files, 11 (INTRO TO SOFTWARE)
- .SILENCE command, 739 (COMMANDS)
- /SINCE, 497, 607, 614, 627, 700 (COMMANDS)
- /SINGLE, 594 (COMMANDS)
- Single Mode, 15 (INTRO TO SOFTWARE)
- Skip, 273, 274 (TECO)
- SKIP command, 675 (COMMANDS)
- Skip one file, 252 (TECO)
- Skip one record, 252 (TECO)
- Skip to end-of-tape, 252 (TECO)
- / (slash), 242 (TECO)
- / (Slash) command, 323 (TECO)
- Slice, Time, 27 (INTRO TO SOFTWARE)
- /SLOW, 521 (COMMANDS)
- /SNOBOL, 482, 516, 541, 587 (COMMANDS)
- Software (INTRO TO SOFTWARE)
  - Non-Resident, 10, 17
- Software, definition, 96 (BEGINNER'S BATCH)
- Software I/O Channels, 28 (INTRO TO SOFTWARE)
- /SORT, 522 (COMMANDS)
- SORT program, 19 (INTRO TO SOFTWARE)
- SOUP Editor, 21 (INTRO TO SOFTWARE)
- Source (BEGINNER'S BATCH)
  - deck, definition, 96
  - language, definition, 96
  - program, definition, 96
- Source file preparation, 465 (COMMANDS)
  - CREATE, 498
  - EDIT, 537
  - MAKE, 592
  - TECO, 693
- Source files (COMMANDS)
  - listing, 584
  - typing, 702

- Source Library Maintenance Program, 19  
(INTRO TO SOFTWARE)
- Space, 236, 241, 306 (TECO)
- Space symbol ( $\Delta$ ), 194 (INTRO TO TECO)
- /SPACING, 614, 628 (COMMANDS)
- Spacing magnetic tape (COMMANDS)  
    backwards, 474  
    forward, 675
- Special characters, 446 (COMMANDS)  
    Batch, 711
- Special characters, 235, 266, 292 (TECO)
- Special functions, 415 (PIP)
- Special "lower case" characters, 270, 285 (TECO)
- Special numeric values, 300 (TECO)
- Specification File, 29, 35 (INTRO TO SOFTWARE)
- Specifying amount (BEGINNER'S BATCH)  
    cards to be punched, 126, 142  
    core, 126, 142  
    CPU time, 127, 142  
    pages to be printed, 127, 142  
    paper tape to be punched, 126, 142  
    plotter time, 127, 143
- Specifying blocksize, 653 (COMMANDS)
- Specifying character to be recognized as a  
    fatal error, 146 (BEGINNER'S BATCH)
- Specifying conventional COBOL format, 114  
(BEGINNER'S BATCH)
- Specifying disposal of a file, 143 (BEGINNER'S  
    BATCH)
- Specifying error recovery, 131, 150  
(BEGINNER'S BATCH)
- Specifying number for a job, 131 (BEGINNER'S  
    BATCH)
- Specifying parameters for a file, 143 (BEGINNER'S  
    BATCH)
- Splitting, 310 (TECO)
- Spoolers (INTRO TO SOFTWARE)  
    Output, 11, 13
- Spooling, 618, 660, 712 (COMMANDS)  
    card punch files, 493  
    input queue, 680
- Spooling (cont)  
    line printer files, 584, 610  
    paper tape punch files, 696  
    plotter files, 604
- Spooling, 11, 42 (INTRO TO SOFTWARE)
- Spooling, 76, 81 (TIMESHARING)
- Spooling Programs, 13 (INTRO TO SOFTWARE)
- Square brackets, 382 (PIP)  
    [ ] (square brackets), 297 (TECO)
- SSAVE command, 677, 795 (COMMANDS)
- STACKER, 709 (COMMANDS)
- STACKER, 12 (INTRO TO SOFTWARE)
- Stack mode, 445 (COMMANDS)
- Standard COBOL format, 114 (BEGINNER'S  
    BATCH)
- Standard for DECsystem-10 line sequence  
    numbers, 365 (LINED)
- Standard Format, 19 (INTRO TO SOFTWARE)
- Standard optional functions, 393 (PIP)
- Standard PIP switches, 393 (PIP)
- Standard processor, 457 (COMMANDS)
- Standard processor, 68 (TIMESHARING)
- Standard protection, 616 (COMMANDS)  
    renaming files to, 609
- /START, 497, 608, 614, 628, 684, 700  
(COMMANDS)
- START command, 679 (COMMANDS)
- START command, 84 (TIMESHARING)
- Starting core image file and loading, 632, 646  
(COMMANDS)
- Starting the program (COMMANDS)  
    at alternate entry point, 637  
    at beginning, 679  
    at DDT, 510, 513
- Starting the program, 84 (TIMESHARING)
- Station (INTRO TO SOFTWARE)  
    Logical, 16  
    Remote, 15, 51
- Station of a device, 706 (COMMANDS)



INDEX (cont)

- Steps to enter a job to Batch, 100 (BEGINNER'S BATCH)
- Stop Teletype output, 200 (INTRO TO TECO)
- Stopping the job, 574 (COMMANDS)
- Storage Allocation File, 11, 30 (INTRO TO SOFTWARE)
- Strings, command, 235, 240, 244 (TECO)
- /STRS, 497, 608, 614, 628, 700 (COMMANDS)
- Structures, 29 (INTRO TO SOFTWARE)
- Subfile Directory, 29, 42 (INTRO TO SOFTWARE)
- Subfile Directory (SFD), 388 (PIP)
- Subjobs, 597 (COMMANDS)
- Subjobs, 23 (INTRO TO SOFTWARE)
- SUBMIT monitor command, 139 (BEGINNER'S BATCH)
  - switches, 140
- SUBMIT monitor command, 680 (COMMANDS)
- Submitting a job, 99, 137, 139 (BEGINNER'S BATCH)
  - examples, 144
- Submitting Batch jobs, 712 (COMMANDS)
- Subroutine, 244 (TECO)
- Subtraction, 242 (TECO)
- /SUMMARY, 522 (COMMANDS)
- Superseding, 30 (INTRO TO SOFTWARE)
- /SUPLSN (suppress line-sequence numbers) switch, 254 (TECO)
- Support Programs (INTRO TO SOFTWARE)
  - Monitor, 23
- Suppressing listings (BEGINNER'S BATCH)
  - ALGOL, 112
  - FORTRAN, 124
  - MACRO, 129
- Suppressing terminal output, 75 (TIMESHARING)
- /SUPPRESS:OFF switch (BEGINNER'S BATCH)
  - \$ALGOL card, 112
  - \$COBOL card, 114
  - \$DATA card, 116
  - \$DECK card, 120
  - \$FORTRAN card, 124
  - \$MACRO card, 128
- Swapper, 25, 27 (INTRO TO SOFTWARE)
- Swapping, 11 (INTRO TO SOFTWARE)
- Switch combinations, 413 (PIP)
- Switches, 393 (PIP)
  - magnetic tape, 415, 416
  - for setting density and parity parameters, 415
- Switches for line-sequence numbers, 254 (TECO)
- Switches in SUBMIT command, 140 (BEGINNER'S BATCH)
- Switch summary, 412 (PIP)
- Symbolic Language Programming, 17 (INTRO TO SOFTWARE)
- Symbols, 236 (TECO)
- Symbols used in document, 193 (INTRO TO TECO)
- Syntax of command string, 194 (INTRO TO TECO)
- SYSDPY, 42 (INTRO TO SOFTWARE)
- SYSTAT command, 686 (COMMANDS)
- SYSTAT command, 85 (TIMESHARING)
- SYSTAT program, 43 (INTRO TO SOFTWARE)
- System (INTRO TO SOFTWARE)
  - Data Communications, 50
  - Disk, 48
  - Drum, 47
  - File, 11, 29
  - Magnetic Tape, 48
  - Multiprogramming, 11, 26
  - Operating, 9, 25
  - Priority Interrupt, 14, 46
- System commands, 463 (COMMANDS)
- System information, 467 (COMMANDS)
  - DAYTIME, 504
  - RESOURCES, 640
  - SCHED, 650
  - SYSTAT, 686
  - VERSION, 704
  - WHERE, 706
- System messages, 747 (COMMANDS)
- System program command (BEGINNER'S BATCH)
  - card format, 104
  - line format, 139
- System programs, 463 (COMMANDS)

System queues, 618 (COMMANDS)  
 System status, 686 (COMMANDS)  
 System status, 85 (TIMESHARING)

T

↑ T (control-T) see Control commands (TECO)  
 T (type) command, 200 (INTRO TO TECO)  
 T command, 260, 293 (TECO)  
 T switch, delete trailing spaces, 402 (PIP)  
 TAB, 236, 237 (TECO)  
 TAB codes, 399 (PIP)  
 Tab command, 266 (TECO)  
 Tab symbol ( → ), 194 (INTRO TO TECO)  
 Tab to space conversion, W-switch, 402 (PIP)  
 Tag, 292 (TECO)  
 /TAPE, 628, 700 (COMMANDS)  
 TECO command, 693 (COMMANDS)  
 TECO (initialize file for editing) command, 192  
 (INTRO TO TECO)  
 TECO command, 248, 249, 250, 253, 256, 308  
 (TECO)  
 TECO command, 65 (TIMESHARING)  
 TECO filnam.ext command, 249 (TECO)  
 TECO program, 592, 693 (COMMANDS)  
 TECO program, 20, 43 (INTRO TO SOFTWARE)  
 TECO program, 62, 65 (TIMESHARING)  
 Teletype, 231, 233 (TECO)  
 Teletype output, stopping, 200 (INTRO TO TECO)  
 Teletypes and Terminals, 49 (INTRO TO  
 SOFTWARE)  
 Temporary case conversion, 268, 283 (TECO)  
 Temporary files, 454, 791 (COMMANDS)  
 Temporary file, 253 (TECO)  
 Temporary file, 65 (TIMESHARING)  
 Temporary switch, 457 (COMMANDS)  
 TENDMP program, 43 (INTRO TO SOFTWARE)  
 Terminal, 59, 73 (TIMESHARING)

## INDEX (cont)

Terminal I/O, 29 (INTRO TO SOFTWARE)  
 Terminal properties, 668 (COMMANDS)  
 Terminating commands, 74, 75 (TIMESHARING)  
 Terminating input into a data file, 724  
 (COMMANDS)  
 Terminating I/O, 479 (COMMANDS)  
 Terminating jobs, 560 (COMMANDS)  
 KJOB, 579  
 Termination of command string, 194 (INTRO TO  
 TECO)  
 Terminator, 379 (PIP)  
 Terminator, argument, 251 (TECO)  
 Text argument, 240, 266, 278, 281, 292 (TECO)  
 Text block movement, 243 (TECO)  
 Text modification, 192 (INTRO TO TECO)  
 Text string, 534 (COMMANDS)  
 Text timeout, 200 (INTRO TO TECO)  
 Textual arguments, 196 (INTRO TO TECO)  
 /TIME, 628 (COMMANDS)  
 TIME command, 694 (COMMANDS)  
 TIME command, 71 (TIMESHARING)  
 Time of day, 301, 303 (TECO)  
 Timesharing, 10 (INTRO TO SOFTWARE)  
 Time slice, 27 (INTRO TO SOFTWARE)  
 /TITLES, 522 (COMMANDS)  
 TMPCOR (device TMP) error messages, 424 (PIP)  
 Total running time, 694 (COMMANDS)  
 /TPLOT switch (BEGINNER'S BATCH)  
 \$JOB card, 127  
 SUBMIT command, 143  
 /TPLOT switch, 629, 684 (COMMANDS)  
 TPUNCH command, 696 (COMMANDS)  
 Trace mode, 304 (TECO)  
 Trailing spaces, 399 (PIP)  
 Transaction file, 563 (COMMANDS)  
 Transfer function, 394 (PIP)  
 Transferring files, 486, 557 (COMMANDS)

INDEX (cont)

- Transfers (INTRO TO SOFTWARE)
    - Data, 27
  - Transfer without X-switch (combine files), 398 (PIP)
  - Translating (TECO)
    - group of characters to lower case, 269, 283
    - group of characters to upper case, 269, 283
    - single characters to lower case, 269, 283
    - single characters to upper case, 269, 283
  - Translating programs, 67 (TIMESHARING)
    - COMPILE, 67
  - TTY command, 668 (COMMANDS)
  - TTY used as an I/O device, 234 (TECO)
  - Two-Pass Assembler, 17 (INTRO TO SOFTWARE)
  - Type-ahead technique, 446 (COMMANDS)
  - TYPE command, 702 (COMMANDS)
  - TYPE command, 66 (TIMESHARING)
  - Type-in, 306 (TECO)
  - Type-out, 260, 300 (TECO)
  - Type-out commands, 260, 300 (TECO)
  - Type-out mode, 262 (TECO)
  - Typing amount of core assigned, 491 (COMMANDS)
  - Typing disk usage, 527 (COMMANDS)
  - Typing errors, 319 (TECO)
  - Typing line over, 74 (TIMESHARING)
  - Typing numeric value (TECO)
    - in decimal, 300
    - in octal, 300
  - Typing quotas, 631 (COMMANDS)
  - Typing running time, 694 (COMMANDS)
  - Typing source files, 702 (COMMANDS)
  - Typing source files, 66 (TIMESHARING)
  - Typing system schedule, 650 (COMMANDS)
  - Typographical error correction, 195 (INTRO TO TECO)
- U
- ↑ U (control-U) see Control commands (TECO)
  - ↑↑ (control up-arrow), 270, 285, 302 (TECO)
  - U command, 293, 295 (TECO)
  - U switch, copy DECtape blocks 0, 1 and 2, 398 (PIP)
  - UFD, 29, 43 (INTRO TO SOFTWARE)
  - UFD and SFD File protection codes, 392 (PIP)
  - UFD-only identifiers, 388 (PIP)
  - UMOUNT program 525, 554, 593 (COMMANDS)
  - UMOUNT program, 43 (INTRO TO SOFTWARE)
  - Unbuffered Data Modes, 27, 28 (INTRO TO SOFTWARE)
  - Unconditional branch, 292 (TECO)
  - Underline, 236 (TECO)
  - Underscoring, 377 (PIP)
  - /UNIQUE, 629, 684 (COMMANDS)
  - /UNITS, 522 (COMMANDS)
  - Unload, 252 (TECO)
  - UNLOAD command, 703 (COMMANDS)
  - Unloading magnetic tape, 703 (COMMANDS)
  - /UNPRESERVED, 497, 608, 614, 629, 700 (COMMANDS)
  - Unrestricted devices, 464, 471 (COMMANDS)
  - Up-arrow, 236 (TECO)
  - Up-arrow, Batch, 711 (COMMANDS)
  - Up-arrow-O, 242 (TECO)
  - Up-arrow (↑) symbol usage, 377 (PIP)
  - Update, 253 (TECO)
  - Update mode, FILCOM, 545 (COMMANDS)
  - Updating, 30 (INTRO TO SOFTWARE)
  - Updating REL files, 563 (COMMANDS)
  - Upper case flagging, 262 (TECO)
  - Use Bit, 28 (INTRO TO SOFTWARE)
  - User directories, 65 (TIMESHARING)
  - User File Directory, 29, 43 (INTRO TO SOFTWARE)
  - User File Directory (UFD), 380 (PIP)
  - User mode, 444 (COMMANDS)
  - USER SET, 475 (COMMANDS)
  - Uses of TECO, 262 (TECO)

## Utilities (INTRO TO SOFTWARE)

CREF, 21  
 DDT, 21  
 File Backup, 22  
 FILEX, 22  
 LOADER, 22  
 PIP, 22

Utilization, Core, 11 (INTRO TO SOFTWARE)

UUO Handler, 25, 27 (INTRO TO SOFTWARE)

UUOS, 25, 27 (INTRO TO SOFTWARE)

## V

↑ V (control-V) see Control commands (TECO)

V command, 293 (TECO)

V switch, match angle brackets, 402 (PIP)

/Vx, KJOB, 581 (COMMANDS)

Values, obtaining (TECO)

automatic timeout flag, 301  
 case flag, 301  
 end-of-file flag, 301  
 error message flag, 301, 324  
 search mode flag, 286  
 timeout mode switch, 261  
 version number flag, 301

VERSION command, 704 (COMMANDS)

Version number flag, obtaining the value, 301 (TECO)

Vertical tab, 236, 237 (TECO)

Vestigial job data area, 797 (COMMANDS)

/VID, 594 (COMMANDS)

## W

↑ W (control-W) see Control commands (TECO)

W command, 293 (TECO)

W switch, convert tabs to spaces, 402 (PIP)

/WENABL, 594 (COMMANDS)

WHERE command, 706 (COMMANDS)

/WIDTH switch (BEGINNER'S BATCH)

\$ALGOL card, 112  
 \$COBOL card, 113  
 \$DATA card, 116  
 \$DECK card, 120  
 \$FORTRAN card, 124  
 \$MACRO card, 128

## INDEX (cont)

/WIDTH switch, 522 (COMMANDS)

Wildcard characters, 386 (PIP)

Wildcard construction, 452 (COMMANDS)

/WLOCK, 595 (COMMANDS)

/WORDS, 522 (COMMANDS)

Writing and loading a Bootstrap loader, 488 (COMMANDS)

Writing complaints, 573 (COMMANDS)

Writing conventions, 376 (PIP)

Writing core-image files, 505, 529 (COMMANDS)

Writing end of file, 538 (COMMANDS)

## X

↑ X (control-X) see Control commands (TECO)

X command, 295, 296 (TECO)

X switch, copy files without combining, 394, 404 (PIP)

## Y

Y (yank) command, 197 (INTRO TO TECO)

Y command, 249, 253, 256, 301 (TECO)

Y switch, DECTape to Paper Tape (PIP)

copy, 403  
 errors, 422

Yank command, 256 (TECO)

## Z

↑ Z (control-Z) see Control commands (TECO)

Z, 258, 267, 316 (TECO)

/Z, KJOB, 581 (COMMANDS)

Z switch, 411 (PIP)

ZJ (move pointer to end) command, 198 (INTRO TO TECO)

ZJ command, 259 (TECO)

ZERO command, 707 (COMMANDS)

Zero-compression, 795 (COMMANDS)

Zeroing DECTapes, 488 (COMMANDS)

**READ COMMENTS**

DECsystem-10  
USERS HANDBOOK  
DEC-10-NGZB-D

Digital Equipment Corporation maintains a continuous effort to improve the quality and usefulness of its publications. To do this effectively we need user feedback: your critical evaluation of this document. Please give specific page and line references when appropriate.

**ERRORS NOTED IN THIS PUBLICATION:**

---

---

---

---

---

**SUGGESTIONS FOR IMPROVEMENT OF THIS PUBLICATION:**

---

---

---

---

---

---

---

DEC also strives to keep its customers informed about current DEC software and publications. Thus, the following periodically distributed publications are available upon request. Please check the publication(s) desired.

- PDP-10 User's Bookshelf, a bibliography of current programming documents.
- Program Library Price List, a list of available software documents and programs.

Name \_\_\_\_\_ Date \_\_\_\_\_

Organization \_\_\_\_\_

Please describe your position \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

-----  
**Fold Here**  
-----

-----  
**Do Not Tear - Fold Here and Staple**  
-----

**FIRST CLASS  
PERMIT NO. 33  
MAYNARD, MASS.**

**BUSINESS REPLY MAIL  
NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES**

Postage will be paid by:

**Digital Equipment Corporation  
Software Information Services  
146 Main Street  
Maynard, Massachusetts 01754**

