

Common Index

XEROXEROXEROXEROXEROXEROX
OXEROXEROXEROXEROXEROXERO
ROXEROXEROXEROXEROXEROXERO
EROXEROXEROXEROXEROXEROXERO
EROXEROXEROXEROXEROXEROXERO
OXEROXEROXEROXEROXEROXERO
OXEROXEROXEROXEROXEROXERO
ROXEROXEROXEROXEROXEROXERO
EROXEROXEROXEROXEROXEROXERO
EROXEROXEROXEROXEROXEROXERO
EROXEROXEROXEROXEROXEROXERO
XEROXEROXEROXEROXEROXEROXERO
OXEROXEROXEROXEROXEROXERO
ROXEROXEROXEROXEROXEROXERO
EROXEROXEROXEROXEROXEROXERO
EROXEROXEROXEROXEROXEROXERO
XEROXEROXEROXEROXEROXEROXERO
OXEROXEROXEROXEROXEROXERO
ROXEROXEROXEROXEROXEROXERO
EROXEROXEROXEROXEROXEROXERO
EROXEROXEROXEROXEROXEROXERO

Xerox Corporation
701 South Aviation Boulevard
El Segundo, California 90245
213 679-4511

XEROX

Xerox Control Program-Five (CP-V)

Xerox 560 and Sigma 6/7/9 Computers

Common Index

90 30 80B

December, 1974

Price: \$2.25

REVISION

This publication is a revision of the CP-V/Common Index, 90 30 80A (dated April, 1974). This publication documents the C00 version of Control Program-Five (CP-V). It provides a common index for the manuals listed below:

Xerox Control Program-Five (CP-V)/TS Reference Manual	-	90 09 07F 90 09 07F-1(10/74)
Xerox Control Program-Five (CP-V)/TS User's Guide	-	90 16 92D 90 16 92D-1(2/74) 90 16 92D-2(10/74)
Xerox Control Program-Five (CP-V)/BP Reference Manual	-	90 17 64F
Xerox Control Program-Five (CP-V)/RP Reference Manual	-	90 30 26B 90 30 26B-1(9/74)
Xerox Control Program-Five (CP-V)/TP Reference Manual	-	90 31 12A
Xerox Control Program-Five (CP-V)/OPS Reference Manual	-	90 16 75G
Xerox Control Program-Five (CP-V)/SM Reference Manual	-	90 16 74G
Xerox Control Program-Five (CP-V)/SP Reference Manual	-	90 31 13A

PREFACE

This publication provides a common index for the eight manuals described below:

- The CP-V Time-Sharing Reference Manual, 90 09 07, is the principal source of information for the time-sharing features. It defines the rules for using the Terminal Executive Language and other terminal processors.
- The CP-V Time-Sharing User's Guide, 90 16 92, describes how to use the various time-sharing features. It presents an introductory subset of the features in a format that allows the user to learn the material by using the features at a terminal as he reads through the document.
- The CP-V Batch Reference Manual, 90 17 64, is the principal source of reference information for the batch processing features of CP-V (i.e., job control commands, system procedures, I/O procedures, program loading and execution, debugging aids, and service processors).
- The CP-V Remote Processing Reference Manual, 90 30 26, is the principal source of information about the remote processing features of CP-V. All information about remote processing for all computer personnel (local and remote users, system managers, remote site operators, and central site operators) is included in the manual.
- The CP-V Transaction Processing Reference Manual, 90 31 12, provides information about dynamically modifying and querying a central database in a transaction processing environment. The manual is addressed to system managers, database administrators, application programmers, and computer operators.
- The CP-V Operations Reference Manual, 90 16 75, is the principal source of reference information for CP-V computer operators. It defines the rules for operator communication (i.e., key-ins and messages), system start-up and initialization, job and system control, peripheral device handling, recovery and file preservation.
- The CP-V System Management Reference Manual, 90 16 74, is the principal source of reference information for the system management features of CP-V. It defines the rules for generating a CP-V system (SYSGEN), authorizing users, maintaining user accounting records, maintaining the file system, monitoring system performance, and other related functions.
- The CP-V System Programming Reference Manual, 90 31 13, describes the CP-V features that are designed to aid the system programmer in the development, maintenance, and modification of the CP-V system.

Information for the language and application processors that operate under CP-V is described in separate manuals. Such manuals are listed on the Related Publications pages of related manuals above.

FORMAT OF THE INDEX

For each entry in this index, the manuals are listed alphabetically rather than in order of significance. The number of the most significant page within each manual is listed first. Any pages thereafter are listed in numerical sequence.

The following abbreviations are used in referring to the various manuals:

BP - CP-V/Batch Processing Reference Manual

OP - CP-V/Operations Reference Manual

RP - CP-V/Remote Processing Reference Manual

SM - CP-V/System Management Reference Manual

SP - CP-V/System Programming Reference Manual

TP - CP-V/Transaction Processing Reference Manual

TS - CP-V/Time-Sharing Reference Manual

UG - CP-V/Time-Sharing User's Guide

@ name possibility string (NPS),
 TP, 33,31
 @ primitive,
 TP, 54,48
 \$ name possibility string (NPS),
 TP, 34,31
 # name possibility string (NPS),
 TP, 31
 # primitive,
 TP, 57,48
 + name possibility string (NPS),
 TP, 34,31
 < > command, Delta,
 TS, 100
 ! command, Delta,
 TS, 100
 * command, ANLZ,
 SP, 43
) command, Delta,
 TS, 101
 / command, Delta,
 TS, 98
 ? command, DRSP,
 SP, 104
 ? name possibility string (NPS),
 TP, 33,31
 = command, Delta,
 TS, 97
 \ command, Delta,
 TS, 98
 † command,
 ANLZ,
 SP, 43
 Delta,
 TS, 99
 560 cluster/unit matrix,
 OP, 3
 SM, 162
 SP, 148
 560 load-and-go diagnostics,
 OP, 106
 560 Remote Assist Station,
 OP, 103
 SM, 20
 SP, 165,22
 1200 operation,
 OP, 110
 2741 terminal,
 substitutions for nonexistent characters,
 BP, 248
 SP, 211
 TS, 144
 Teletype® differences,
 TS, 13
 use of,
 UG, 114
 2780 RBT,
 RP, 2,12

®Registered trademark of the Teletype Corporation.

operation of,
 RP, 37
 7670 RBT,
 RP, 1,11
 operation of,
 RP, 39

A
 A Programming Language (see APL)
 ;A command, Delta,
 TS, 107
 A-M primitives,
 TP, 55,48
 abnormal address, setting,
 BP, 102
 abnormal codes,
 device failure or end-of-data,
 BP, 229
 TS, 148
 enqueue/dequeue,
 BP, 237
 TS, 156
 insufficient or conflicting information,
 BP, 226
 TS, 145
 abnormal control, COC,
 TS, 130
 abnormal processing,
 TP, 88
 Abnormality Handler,
 TP, 88
 abort,
 load module,
 TP, 90
 system,
 TP, 120
 system component,
 TP, 120
 transaction,
 TP, 120
 user module,
 TP, 90
 ABORT key-in,
 OP, 13
 abort return,
 BP, 62,84
 TS, 127
 abort, program,
 UG, 80
 abort, single user,
 OP, 39
 account, user,
 BP, 29
 SM, 24
 TS, 7
 UG, 5
 account directory,
 BP, 13

accounting,
 BP, 142, 2
 SM, 44
 accounting charges,
 SM, 45
 accounting log format,
 SM, 45
 accounting output,
 BP, 144
 SM, 45, 49
 TS, 9
 accounting record structure,
 SM, 46
 accounting routines, installation,
 SM, 44
 acknowledgement line,
 TP, xi
 ACQUIRE command, Terminal Interface Controller,
 TP, 142
 ACQUIRE record, M:SI File,
 TP, 80
 activation characters, changing,
 TS, 127
 active interrupt,
 SP, 119
 ADD command,
 Control,
 SM, 61
 Report Delivery Processor,
 TP, 71
 Station Names Processor,
 TP, 64
 STATS,
 SM, 90
 TFD Processor,
 TP, 76
 addend value,
 BP, x
 address resolution code,
 BP, x
 TS, ix
 adjust DCB CAL,
 BP, 71
 After Page Image record, EDMS,
 TP, 115, 124, 181
 ALL command, ANLZ,
 SP, 40
 Analyze (see ANLZ)
 AND control command,
 BP, 152
 ANLZ,
 SM, 11, 21
 SP, 39, 10, 22
 ANLZ, batch mode,
 SP, 39
 ANLZ, command summary,
 SP, 55, 54

ANLZ, commands,
 SP, 39
 *,
 SP, 43
 †,
 SP, 43
 ALL,
 SP, 40
 BF,
 SP, 44
 CLOSE,
 SP, 45
 COMPARE,
 SP, 43
 DELTA,
 SP, 44
 DISPLAY,
 SP, 40
 DUMP,
 SP, 45
 END,
 SP, 45
 HELP,
 SP, 45
 INPUT,
 SP, 40
 IS,
 SP, 45
 LINE FEED,
 SP, 43
 loc,
 SP, 40
 loc = value,
 SP, 43
 loc1, loc2,
 SP, 43
 LP,
 SP, 44
 MAP,
 SP, 43
 MONITOR,
 SP, 43
 NODELTA,
 SP, 44
 PRINT,
 SP, 44
 ROWS,
 SP, 44
 RUN,
 SP, 40
 SEARCH,
 SP, 44
 SMASK,
 SP, 44
 SYMBOLS,
 SP, 45
 SYMBOL/,
 SP, 45
 UC,
 SP, 44

UNMAP,
 SP, 43

ANLZ, ghost mode,
 SP, 39

ANLZ, messages,
 SP, 54

ANLZ, on-line mode,
 SP, 39

ANLZ, output,
 SP, 45

ANS COBOL (see COBOL)

ANS labeled tape,
 BP, 24,x
 OP, 22,viii
 SM, ix
 SP, xi
 DCB format,
 BP, 218

ANSASCII,
 BP, 241,239,246
 SP, 204,202,209
 TS, 137,135,142

ANSMOUNT key-in,
 OP, 24

ANSSCRATCH key-in,
 OP, 25

APL,
 BP, 5
 SM, 8
 SP, 7
 TS, 51,3
 UG, 53

application processors,
 BP, 7
 SM, 11
 SP, 10

applications programmers,
 TP, xi

armed interrupt,
 SP, 119

assembling programs on-line,
 TS, 45,18
 UG, 52

ASSIGN control command,
 BP, 32,74

ANS labeled tape,
 BP, 38

device,
 BP, 39

disk file,
 BP, 33

Xerox labeled tape,
 BP, 36

assign/merge table,
 UG, 83
 reading and writing,
 BP, 78

assigning I/O devices and DCB parameters on-line,
 TS, 27
 UG, 85,86

attention,
 TP, xi

ATTENTION key (see 2741 terminal)

authorization checks,
 BP, 2
 TS, 7

AUTO command, Fix,
 OP, 42

auto-call processor,
 SM, ix,23

automatic recovery,
 OP, 38,viii
 SM, 20
 SP, 22

automatic volume recognition,
 OP, 24

AVR sequence,
 OP, 24

B

;B command, Delta,
 TS, 102

BACK:SCHED file,
 OP, 46

backing up files, on-line user,
 TS, 24
 UG, 95

backing up files, operator,
 OP, 40

BACKUP command, TEL,
 TS, 24
 UG, 95

backup messages,
 OP, 47

backup recovery,
 OP, 47

backup scheduling,
 OP, 46,74
 SM, 117

backup tape,
 OP, 46,viii
 serial numbers,
 OP, 46

BASIC,
 BP, 4
 SM, 7
 SP, 6
 TS, 51,3
 UG, 36

BASIC, abbreviations of command verbs,
 UG, 44

BASIC, commands,
 CLEAR,
 UG, 38,40

EXECUTE,
 UG, 43

FAST,
 UG, 37
 FILE,
 UG, 40
 LIST,
 UG, 39
 LOAD,
 UG, 38,40
 NAME,
 UG, 40
 PRINT,
 UG, 43
 RENUMBER,
 UG, 41
 RUN,
 UG, 37
 SAVE,
 UG, 38
 STATUS,
 UG, 39
 BASIC, DCB requirements,
 UG, 88
 BASIC, desk-calculator mode,
 UG, 42
 BASIC, direct statement execution,
 UG, 42
 Batch (processor),
 BP, 180,7
 SM, 11
 SP, 10
 TS, 119,5
 Batch, command continuation,
 BP, 181
 TS, 120
 Batch, command summary,
 TS, 123,122
 Batch, commands,
 BP, 181
 TS, 120
 BATCH,
 BP, 181
 TS, 120
 UG, 99
 DEFAULT,
 BP, 182
 TS, 121
 EOF,
 BP, 182
 TS, 121
 EOF EXEC,
 BP, 183
 TS, 122
 EXEC,
 BP, 182
 TS, 121
 Batch, data replacement,
 BP, 180
 TS, 119

Batch, error messages,
 BP, 183
 TS, 122
 BATCH command, Batch (and TEL),
 BP, 181
 TS, 120,24
 UG, 99
 batch initiation,
 OP, 7
 batch job,
 BP, x
 OP, viii
 RP, vii
 SM, ix
 SP, xi
 TS, 24,ix
 UG, 99
 batch processing,
 BP, 2
 SM, 1
 SP, 1
 TS, 6
 batch stream, controlling access to,
 OP, 16
 batch users, controlling number of,
 OP, 16
 BCD control command,
 BP, 45
 Before Page Image record, EDMS,
 TP, 115,124,181
 BEGIN command, FILL,
 OP, 49
 Begin Report Delivery record,
 TP, 114,182
 Begin Synchronization record, EDMS,
 TP, 114,183
 Begin Transaction record,
 TP, 114,120,184
 beginning column, specifying, (M:DEVICE),
 BP, 116
 BF command, ANLZ,
 SP, 44
 BIN control command,
 BP, 45
 binary input,
 BP, x
 SM, ix
 SP, xi
 TS, ix
 bipoint line,
 TP, xi,13
 blank lines, entering,
 TS, 10
 :BLIMIT command, PASS2,
 SM, 131
 blocking buffer, truncating,
 BP, 108

booting,
 OP, 5
 SP, 23,35
 from disk,
 OP, 75
 SP, 37
 from the PO tape,
 OP, 70
 bootstrap I/O error recovery,
 SP, 38
 bootstrap operations (see booting)
 BP command, Edit,
 TS, 79
 UG, 27
 BREAK command,
 Control,
 SM, 68,70
 STATS,
 SM, 91
 BREAK control, COC,
 TS, 131
 BREAK key,
 TS, 12
 UG, 76
 BREAK key, connecting to,
 BP, 85
 TS, 128
 BTM, converting to CP-V,
 TS, 157
 BUILD command,
 Edit (and TEL),
 TS, 77,18
 UG, 18,29
 RATES,
 SM, 50
 STATS,
 SM, 90
 SYMCON,
 BP, 185
 BYE command, TEL,
 TS, 26

C

CANCEL command, TEL,
 TS, 25
 UG, 100
 card punch error procedures,
 OP, 28
 card punch sequencing, specifying, (M:DEVICE),
 BP, 117
 card reader error procedures,
 OP, 28
 CCB, EDMS,
 TP, 91
 CCI,
 BP, 4,x
 SM, 5
 SP, 93,4

central site operator,
 RP, 21
 central station operator,
 TP, xi
 central system errors,
 OP, 39
 :CHAN command, PASS2,
 SM, 124
 CHANGE command, SYMCON,
 BP, 185
 character sets,
 BP, 239
 SP, 202
 TS, 135
 charge class,
 SM, 26,ix
 charge rate table,
 SM, 51,ix
 CHECK command, Fix,
 OP, 42
 chained TFDs,
 TP, 59,22
 report,
 TP, 52
 transaction,
 TP, 53
 checkpointing on-line sessions,
 TS, 26
 UG, 92
 CIRC,
 BP, 7
 SM, 13
 SP, 11
 TS, 5
 CLEAR command,
 BASIC,
 UG, 38,40
 Control,
 SM, 68
 cleared interrupt,
 SP, 119
 CLIS command, ELLA,
 SP, 64
 close a file,
 BP, 100
 close a volume,
 BP, 110
 CLOSE command,
 ANLZ,
 SP, 45
 TP Ghost,
 TP, 133
 cluster/unit matrix,
 OP, 3
 SM, 162
 SP, 148
 CM command, Edit,
 TS, 83

COBOL,
 BP, 4
 SM, 8
 SP, 7
 TS, 50, 2, 18
 UG, 49
 compilation options,
 TS, 51
 COBOL command, TEL,
 TS, 50, 18
 UG, 49
 COBOL On-Line Debugger,
 BP, 6
 SM, 10
 SP, 9
 TS, 4
 COBOL user modules,
 TP, 91, 99
 :COC command, PASS2,
 SM, 134
 COC services,
 TS, 129
 codes and correspondences,
 BP, 239
 SP, 205
 TS, 135
 column, specifying beginning, (M:DEVICE),
 BP, 116
 command level,
 TP, 38, xi, 25
 command processor programming,
 SP, 95
 command processors,
 BP, 3
 SM, 4
 SP, 3
 command summaries,
 ANLZ,
 SP, 55, 54
 Batch processor,
 TS, 123, 122
 Control,
 SM, 73, 70
 Delta,
 TS, 109
 DEVDMF,
 OP, 64, 63
 DRSP,
 SP, 107, 104
 Edit,
 TS, 90, 87
 ELLA,
 SP, 85, 84
 FRES,
 OP, 60, 53
 FSAVE,
 OP, 53, 52
 PCL,
 BP, 178, 175
 TS, 73, 70

RATES,
 SM, 53, 52
 reconfiguration and partitioning,
 SP, 30, 28
 Report Delivery Processor,
 TP, 69
 Station Names Processor,
 TP, 63
 STATS,
 SM, 94, 92
 Super,
 SM, 41, 38
 TEL,
 TS, 40, 38
 UG, 103
 Terminal Interface Controller, operator,
 TP, 140
 Terminal Interface Controller, station,
 TP, 39
 TFD Processor,
 TP, 74
 TP Ghost,
 TP, 129
 TPC,
 TP, 147
 command syntax notation,
 BP, ix
 OP, vii
 RP, vi
 TS, viii
 SM, viii
 SP, x
 TP, x
 UG, vii
 commands, control, (see control commands)
 commands, typing,
 TS, 11
 COMMENT command, TEL,
 TS, 19
 UG, 83, 89
 common journal records,
 TP, 113, 119, 181
 After Page Image, EDMS,
 TP, 115, 124, 181
 Before Page Image, EDMS,
 TP, 115, 124, 181
 Begin Report Delivery,
 TP, 114, 182
 Begin Synchronization, EDMS,
 TP, 114, 183
 Begin Transaction,
 TP, 114, 120, 184
 Crash,
 TP, 115, 185
 End Report Delivery,
 TP, 114, 186
 End Synchronization, EDMS,
 TP, 114, 187

End Transaction,
 TP, 114, 188
 Queuedump,
 TP, 115, 123, 189
 Report,
 TP, 114, 190
 TP Ghost End,
 TP, 115, 191
 User,
 TP, 115, 95, 192
 common limits, obtaining,
 BP, 64
 common pages,
 BP, x
 freeing,
 BP, 65
 obtaining,
 BP, 64
 common storage,
 BP, 120
 COMMON storage,
 TP, 91
 communication services to user programs, COC,
 TS, 129
 Communications Control Block (CCB), EDMS,
 TP, 91
 communications network,
 TP, 17, 4, 139
 COMPACT command, Fix,
 OP, 43
 COMPARE command, ANLZ,
 SP, 43
 compiling programs on-line,
 TS, 47, 18, 50
 UG, 45, 49
 compressed language,
 SP, 295
 compute time,
 SM, ix
 concatenation,
 BP, 165, x
 OP, viii
 SM, ix
 SP, xi
 TS, 80
 conditional patch control commands,
 SP, 33
 conflicting information, abnormal codes,
 BP, 226
 TS, 145
 conflicting information, error codes,
 BP, 230
 TS, 149
 conflicting reference,
 BP, x
 SM, ix
 SP, xi
 TS, ix
 consecutive files,
 BP, 17

console errors, operator,
 OP, 4
 console interrupts, connecting to,
 BP, 57
 CONTINUE command, TEL,
 TS, 25
 UG, 78, 92
 Control (processor),
 SM, 54, 5, 22, 23
 SP, 4
 Control, command summary,
 SM, 73, 70
 Control, commands,
 SM, 60
 ADD,
 SM, 61
 BREAK,
 SM, 68, 70
 CLEAR,
 SM, 68
 CONTROL,
 SM, 62
 CONTROL!
 SM, 62
 DISPLAY n,
 SM, 66
 DROP,
 SM, 61
 END,
 SM, 68, 70
 LIST,
 SM, 61
 n attribute,
 SM, 67
 n attribute = number,
 SM, 67
 name,
 SM, 62
 name = number,
 SM, 62
 PARTITION,
 SM, 66
 PROCEED,
 SM, 70
 QUIT,
 SM, 70
 STORE,
 SM, 67
 TIME,
 SM, 70
 Control, DCB usage,
 SM, 54, 60
 Control, error messages,
 SM, 72, 70
 Control, partition display and definition commands,
 SM, 64
 Control, sample command sequence,
 SM, 71, 70

control codes,
 BP, 239
 SP, 267
 TS, 135
 Control Command Interpreter (see CCI)
 CONTROL command, Control,
 SM, 62
 control commands,
 BP, 28,x,9
 OP, viii
 SM, ix
 SP, xi
 TS, ix
 AND,
 BP, 152
 ASSIGN,
 BP, 32,74
 BCD,
 BP, 45
 BIN,
 BP, 45
 COUNT,
 BP, 152
 DATA,
 BP, 45
 EOD,
 BP, 45
 FIN,
 BP, 46
 OP, 6
 IF,
 BP, 150
 INCL,
 BP, 128
 JOB,
 BP, 29
 RP, 10
 LDEV,
 BP, 43
 RP, 5
 LIMIT,
 BP, 29
 SM, 23
 LINK,
 BP, 118
 LOAD,
 BP, 123
 MESSAGE,
 BP, 32
 MODIFY,
 BP, 129
 OLAY,
 BP, 123
 OR,
 BP, 152
 OVERLAY,
 BP, 123
 PFIL,
 BP, 46

PMD,
 BP, 148
 PMDE,
 BP, 148
 PMDI,
 BP, 148
 POOL,
 BP, 31
 PTREE,
 BP, 128
 RABORT,
 RP, 15
 RBALIGN,
 RP, 15
 RBCONTINUE,
 RP, 15
 RBCTL,
 RP, 16
 RBDELETE,
 RP, 14
 RBDIV,
 RP, 13
 RBDISC,
 RP, 13
 RBFORM,
 RP, 16
 RBHOLD,
 RP, 14
 RBID,
 RP, 13
 RBINFO,
 RP, 13
 RBLOCK,
 RP, 15
 RBMSG,
 RP, 13
 RBPrio,
 RP, 13
 RBREPRINT,
 RP, 15
 RBRETRIEVE,
 RP, 14
 RBSAVE,
 RP, 15
 RBSIZE,
 RP, 16
 RBSTATUS,
 RP, 14
 RBSUSPEND,
 RP, 15
 RBSWITCH,
 RP, 14
 RBUNLOCK,
 RP, 16
 RBXXX,
 RP, 13
 REW,
 BP, 46
 RUN,
 BP, 119,129

SNAP,
 BP, 149
 SNAPC,
 BP, 150
 STEP,
 BP, 31
 SWITCH,
 BP, 46
 TITLE,
 BP, 32
 TREE,
 BP, 127
 WEOF,
 BP, 46
 CONTROL D,
 TS, 16
 control files,
 TP, 17,4
 Report Delivery,
 TP, 20,21
 Station Names,
 TP, 17
 TFD,
 TP, 21
 control function,
 BP, x
 CONTROL I,
 TS, 11
 UG, 13
 control key-in,
 BP, x
 (see key-in)
 CONTROL L,
 TS, 10
 control message,
 BP, x
 TS, ix
 SM, ix
 SP, xi
 control panel, CPU,
 OP, 1
 control parameter,
 SM, 54,ix
 CONTROL X,
 TS, 10
 UG, 9
 CONTROL Y,
 TS, 12
 UG, 76
 CONTROL! command,
 Control,
 SM, 62
 STATS,
 SM, 91
 cooperative,
 BP, 250,x
 OP, viii
 SM, ix
 SP, xi
 TS, ix

COPY command,
 Edit,
 TS, 77
 UG, 18
 PCL (and TEL),
 BP, 162
 TS, 57,24
 UG, 30,96
 COPYALL command, PCL,
 BP, 167
 TS, 62
 UG, 96
 COPYSTD command, PCL,
 BP, 170
 TS, 64
 COUNT control command,
 BP, 152
 CP-V operating system,
 BP, 1
 SM, 4
 SP, 3
 TS, 1
 CPU control panel,
 OP, 1
 CR command, Edit,
 TS, 78
 crash analysis (see ANLZ)
 Crash record,
 TP, 115,185
 CREATE command, Super,
 SM, 24
 criteria, delivery,
 TP, 43,20
 CRT display stations,
 TP, 19
 CSE STOP tables,
 OP, 104,39
 current system values,
 SM, 58

D

D command, Edit,
 TS, 84
 UG, 27
 ;D command, Delta,
 TS, 102
 D key-in,
 OP, 17
 data collection mode,
 TP, 13,120
 Data Control Block (see DCB)
 DATA control command,
 BP, 45
 data memory management,
 BP, 63
 data record manipulation,
 BP, 104

data set controller,
 RP, 3
 database,
 TP, 5, xi, 85
 reconstruction,
 TP, 124
 rollback,
 TP, 89, 124
 DATE key-in,
 OP, 17
 date, obtaining,
 BP, 51
 DBM (see Database Manager)
 DCB,
 BP, 86, x, 16, 20, 22, 120, 137, 189
 SM, ix
 SP, 90, xi
 TP, xi
 TS, 27, ix, 114
 UG, 82, 85, 86
 assignments, checking correspondence of, (M:DEVICE),
 BP, 117
 closing,
 BP, 100
 creating,
 BP, 87
 diagnostic,
 SP, 114, 109
 formats,
 ANS labeled tape,
 BP, 218
 device DCB,
 BP, 203
 diagnostic,
 BP, 114
 file DCB,
 BP, 189
 Xerox labeled tape,
 BP, 210
 initializing,
 BP, 93
 opening,
 BP, 93
 size,
 BP, 137
 standard system,
 UG, 82
 DCBTAB (Name Table),
 BP, 137
 DDCB,
 SP, 114, 109
 DE command, Edit,
 TS, 80
 UG, 20
 debug error messages,
 BP, 153
 debugging aids,
 BP, 146
 (see FDP)
 (see Delta)

debugging information,
 TS, 20
 debugging operations,
 TS, 23
 UG, 61
 DEF (processor)
 SM, 156
 DEF, commands,
 :DELETE,
 SM, 157
 END,
 SM, 158
 :IGNORE,
 SM, 157
 :INCLUDE,
 SM, 157
 :WRITE,
 SM, 157
 DEF, examples,
 SM, 158
 DEF, messages,
 SM, 158
 DEFAULT command,
 Batch,
 BP, 182
 TS, 121
 Super,
 SM, 28
 DEFCOM,
 BP, 184, 7
 SM, 11
 SP, 9
 definitions of TP files,
 TP, 137
 DELETE command,
 DRSP,
 SP, 103
 Edit,
 TS, 77
 UG, 18
 GENMD,
 SP, 33
 PCL (and TEL),
 BP, 171
 TS, 66, 24
 UG, 31
 Report Delivery Processor,
 TP, 71
 Station Names Processor,
 TP, 65
 SYMCON,
 BP, 186
 TFD Processor,
 TP, 76
 TP Ghost,
 TP, 133
 :DELETE command, DEF,
 SM, 157
 DELETE key-in,
 OP, 16

DELETEALL command, PCL,
 BP, 171
 TS, 66
 UG, 31
delivery criteria,
 TP, 43,20
Delta,
 BP, 6
 SM, 9
 SP, 8
 TS, 95,4,23
 UG, 61
Delta, calling,
 TS, 95
 UG, 61
Delta, command delimiters,
 TS, 96
Delta, command summary,
 TS, 109
Delta, commands,
 <>,
 TS, 100
 !,
 TS, 100
),
 TS, 101
 /,
 TS, 98
 =,
 TS, 97
 \,,
 TS, 98
 †,
 TS, 99
 ;A,
 TS, 107
 ;B,
 TS, 102
 ;D,
 TS, 102
 ;G,
 TS, 101
 ;J,
 TS, 107
 ;K,
 TS, 100
 ;L,
 TS, 106
 ;M,
 TS, 106
 ;N,
 TS, 106
 ;O,
 TS, 107
 ;P,
 TS, 101
 ;R,
 TS, 107
 ;RK,
 TS, 107

;S,
 TS, 100
;T,
 TS, 102
;U,
 TS, 100
;W,
 TS, 106
;X,
 TS, 101
;Y,
 TS, 102
;Z,
 TS, 107
breakpoints,
 TS, 102
display modes,
 TS, 107
execution control,
 TS, 101
expression evaluation,
 TS, 97
LINE FEED,
 TS, 99
memory cell opening and display,
 TS, 98
memory clearing,
 TS, 107
memory modification,
 TS, 99
memory search and modification,
 TS, 106
printer output,
 TS, 107
RETURN,
 TS, 99
symbol table control,
 TS, 100
TAB,
 TS, 98,99
Delta, constants,
 TS, 97
Delta, conventions,
 TS, 96
Delta, correcting typing errors,
 TS, 97
Delta, debug mode,
 UG, 61
Delta, error messages,
 TS, 108
Delta, Executive,
 TS, 108
Delta, exiting,
 TS, 95
Delta, expressions,
 TS, 97
Delta, format codes,
 TS, 96
Delta, nondebug mode,
 UG, 63

Delta, prerequisites,
 TS, 95
 Delta, program exits,
 TS, 109
 Delta, SAT table,
 TS, 105
 Delta, saving program modifications,
 TS, 96
 Delta, special action table,
 TS, 105
 Delta, special symbols,
 TS, 97
 Delta, writing programs with,
 TS, 108
 UG, 65
 DELTA command,
 ANLZ,
 SP, 44
 TEL,
 TS, 23
 Delta format patches,
 SP, 23
 DELUTL processor (see Report Delivery Processor)
 dequeue resources,
 BP, 70
 DEV command, ELLA,
 SP, 78
 DEVDMMP,
 OP, 63, 41
 SM, 117, 6
 SP, 5
 commands,
 OP, 64, 63
 end-of-job messages,
 OP, 66
 error messages,
 OP, 66
 features,
 OP, 63
 information messages,
 OP, 65
 initialization,
 OP, 65
 input preparation,
 OP, 63
 messages requiring key-ins,
 OP, 68, 66
 sample input,
 OP, 65
 tape format,
 OP, 63
 :DEVICE command, PASS2,
 RP, 23
 SM, 124
 device DCB format,
 BP, 203
 device designation codes,
 BP, 87
 OP, 3
 SM, 162
 SP, 148
 device error and failure logging,
 OP, 27
 device error messages,
 OP, 27
 device error procedures,
 OP, 27, 99
 device failure abnormal codes,
 BP, 229
 TS, 148
 device failure error codes,
 BP, 232
 TS, 150
 device mode, changing, (M:DEVICE),
 BP, 115
 device names,
 BP, 86
 OP, 2
 SM, 162
 SP, 148
 Device Save/Restore processor (see DEVDMP)
 device type codes,
 BP, 83
 OP, 2
 SM, 162
 SP, 148
 device, standard default values for SYSGEN,
 SM, 128
 device-oriented FPT,
 BP, 73
 DIAG key-in,
 OP, 18
 diagnostic authorization key-in,
 OP, 18
 diagnostic DCB,
 SP, 114, 109
 diagnostics (see on-line peripheral diagnostic facilities
 and load-and-go diagnostics)
 dial-up remote station,
 TP, 24
 direct access of files,
 BP, 18
 direct formatting, specifying, (M:DEVICE),
 BP, 114
 direct printing mode, terminals,
 TS, 9
 disabled interrupt,
 SP, 119
 disarmed interrupt,
 SP, 119
 DISCARD command, SYMCON,
 BP, 187
 disk dump, Delta,
 TS, 108
 disk pack,
 BP, 22, x, 2
 error procedures,
 OP, 29
 handling procedures,
 OP, 22

initialization,
 OP, 19
 disk storage,
 BP, 22
 DISMOUNT command, FILL ,
 OP, 50
 DISP command, ELLA,
 OP, 75
 DISPL command, ELLA,
 SP, 81
 DISPLAY command,
 ANLZ,
 SP, 40
 FILL,
 OP, 51
 PPS,
 SP, 138
 STATS,
 SM, 91
 SYSCON,
 OP, 34
 SM, 110
 TEL,
 TS, 34
 display items, Control and STATS,
 SM, 54
 DISPLAY key-in,
 OP, 10,22
 RP, 21
 DISPLAY command,
 Terminal Interface Controller,
 TP, 143
 TFD Processor,
 TP, 77
 TPC,
 TP, 148
 DISPLAY n command, Control,
 SM, 66
 !DMODE command,
 TP, 39
 DMSABORT, EDMS,
 TP, 91
 DMSDUMP, EDMS,
 TP, 124
 DMSLOAD, EDMS,
 TP, 124,121,123,125,155
 DMSLOCK, EDMS,
 TP, 85
 DMSTRACE, EDMS,
 TP, 107
 DONT COMMENT command, TEL,
 TS, 19
 UG, 89
 DONT LIST command, TEL,
 TS, 19
 UG, 89
 DONT OUTPUT command, TEL,
 TS, 19
 UG, 89
 drivers,
 TP, 195
 DROP command,
 Control,
 SM, 61
 STATS,
 SM, 90
 DRSP,
 SM, 11
 SP, 102,10
 DRSP, command summary,
 SP, 107,104
 DRSP, commands,
 ?,
 SP, 104
 DELETE,
 SP, 103
 END,
 SP, 104
 ENTER,
 SP, 102
 LIST,
 SP, 103
 LISTALL,
 SP, 103
 REPLACE,
 SP, 103
 DRSP, error messages,
 SP, 104
 DRSP, limitations and restrictions,
 SP, 104
 DSC,
 RP, 3
 #DSS procedure,
 TP, 194
 #DSSWORD procedure,
 TP, 194
 dummy section,
 BP, x
 DUMP command,
 ANLZ,
 SP, 45
 Fix,
 OP, 42
 dumps, postmortem,
 BP, 147,xi
 dumps, snapshot,
 BP, 148
 dynamic data limits, obtaining,
 BP, 64
 dynamic pages, freeing,
 BP, 65
 dynamic pages, obtaining,
 BP, 65
 Dynamic Replacement of Shared Processors (see DRSP)
 DYNRESDF command, PPS,
 SP, 139

E	
E command, Edit,	
TS, 85	
E key-in,	
OP, 12	
EASY,	
BP, 4	
SM, 5	
SP, 4	
TS, 52, 1	
EBCDIC,	
BP, 240, 239	
SP, 203, 202	
TS, 136, 135	
ECB,	
TP, xi	
checking for completion,	
BP, 81	
!ECHO command,	
TP, 40	
echo mode, terminals,	
TS, 9	
Edit (processor),	
BP, 6	
SM, 10	
SP, 9	
TS, 75, 2	
UG, 17	
Edit, BREAK function,	
TS, 76	
Edit, calling,	
TS, 75	
Edit, command structure,	
TS, 76	
Edit, command summary,	
TS, 90, 87	
Edit, commands,	
BP,	
TS, 79	
UG, 27	
BUILD,	
TS, 77, 18	
UG, 18, 29	
CM,	
TS, 83	
COPY,	
TS, 77	
UG, 18	
CR,	
TS, 78	
D,	
TS, 84	
UG, 27	
DE,	
TS, 80	
UG, 20	
DELETE,	
TS, 77	
UG, 18	
E,	
TS, 85	
EDIT,	
TS, 77, 18	
UG, 17, 29	
END,	
TS, 78	
UG, 18	
F,	
TS, 85	
FD,	
TS, 82	
UG, 24	
FS,	
TS, 82	
FT,	
TS, 82	
UG, 24	
IN,	
TS, 80	
UG, 20, 23	
IS,	
TS, 80	
JU,	
TS, 86	
L,	
TS, 85	
MD,	
TS, 81	
MERGE,	
TS, 78	
UG, 18, 23	
MK,	
TS, 82	
NO,	
TS, 86	
O,	
TS, 85	
P,	
TS, 84	
R,	
TS, 85	
RF,	
TS, 87	
RN,	
TS, 83	
S,	
TS, 84	
UG, 26	
SE,	
TS, 83	
UG, 26	
SS,	
TS, 83	
ST,	
TS, 83	
TA,	
TS, 78	
TC,	
TS, 81	

TS,
 TS, 81,86
 UG, 27
 TY,
 TS, 80,86
 UG, 18,27
 Edit, file editing commands,
 TS, 76
 UG, 17
 Edit, intrarecord editing commands,
 TS, 83
 UG, 26
 Edit, messages,
 TS, 87
 Edit, multiline records,
 TS, 75
 Edit, record editing commands,
 TS, 79
 UG, 18
 Edit, record formats,
 TS, 75
 EDIT command, Edit (and TEL),
 TS, 77,18
 UG, 17,29
 EDMS,
 BP, 7
 SM, 12
 SP, 11
 TP, 5,xi
 Database Manager,
 TP, 85
 journalization,
 TP, 114
 element file,
 BP, x
 TP, 105
 :ELIMIT command, PASS2,
 SM, 132
 ELLA,
 OP, 27,78
 SM, 11,20
 SP, 61,10,21
 ELLA, command summary,
 SP, 85,84
 ELLA commands,
 CLIS,
 SP, 64
 DEV,
 SP, 78
 DISP,
 SP, 75
 DSPL,
 SP, 81
 END,
 SP, 76
 MOD,
 SP, 78
 RSET,
 SP, 76
 SET,
 SP, 61
 SLIS,
 SP, 71
 SUM,
 SP, 75
 TIME,
 SP, 77
 TYPE,
 SP, 78
 ELLA, error log entry headings,
 SP, 66
 ELLA, error log entry types,
 SP, 71
 ELLA, input/output assignments,
 SP, 61
 ELLA, input/output characteristics,
 SP, 63
 ELLA, interrupting execution,
 SP, 64
 ELLA, messages,
 SP, 84
 ELLA, predefined tasks,
 SP, 81
 ELLA, starting execution,
 SP, 61
 EM control character,
 RP, vii
 enabled interrupt,
 SP, 119
 END command,
 ANLZ,
 SP, 45
 Control,
 SM, 68,70
 DEF,
 SM, 158
 DRSP,
 SP, 104
 Edit,
 TS, 78
 UG, 18
 ELLA,
 SP, 76
 Fix,
 OP, 43
 PCL,
 BP, 175
 TS, 70
 PPS,
 SP, 140
 RATES,
 SM, 52
 STATS,
 SM, 92
 Super,
 SM, 36
 SYMCON,
 BP, 187

SYSCON,
 OP, 36
 SM, 112
 TP Ghost,
 TP, 134
 :END command (boot-time),
 SP, 28
 End Report Delivery record,
 TP, 114,186
 End Synchronization record, EDMS,
 TP, 114,187
 End Transaction record,
 TP, 114,188
 end-of-data abnormal codes,
 BP, 229
 TS, 148
 end-of-data error codes,
 BP, 232
 TS, 150
 end-of-file, writing,
 BP, 111,46
 ending on-line sessions,
 TS, 26,8
 UG, 5
 enqueue/dequeue abnormal and error codes,
 BP, 237
 TS, 156
 enqueue/dequeue resources,
 BP, 67,254
 ENTER command, DRSP,
 SP, 102
 ENTER statement, COBOL,
 TP, 92
 #ENTRY#SPACE procedure,
 TP, 194
 EOD control command,
 BP, 45
 EOF command, Batch,
 BP, 182
 TS, 121
 EOF EXEC command, Batch,
 BP, 183
 TS, 122
 ERR:FIL,
 SM, 20
 SP, 61,21
 ERRFILE file,
 OP, 27,78
 SM, 20
 SP, 168,61
 ERRFILE file formats,
 SP, 168
 bad granule release,
 SP, 178
 configuration record,
 SP, 177
 device error,
 SP, 173
 duplicate entries,
 SP, 177
 enqueue table overflow,
 SP, 184
 errlog record length error,
 SP, 171
 file inconsistency error,
 SP, 176
 hardware errors,
 SP, 174
 I/O activity count,
 SP, 182
 illegal entry type,
 SP, 172
 incorrect time,
 SP, 172
 instruction exception,
 SP, 176
 lost entry indicator,
 SP, 177
 memory fault interrupt,
 SP, 172
 memory parity secondary record,
 SP, 183
 MFI primary record,
 SP, 183
 operator message,
 SP, 182
 partitioned resource,
 SP, 184
 PFI primary record,
 SP, 182
 power on,
 SP, 177
 processor fault interrupt,
 SP, 172
 read error,
 SP, 171
 remote processing error,
 RP, 48
 SP, 178
 returned resource,
 SP, 184
 secondary record for poll information,
 SP, 183
 secondary records for disk pack, RAD, and tape,
 SP, 174
 Sigma 6/7 memory parity secondary record,
 SP, 183
 SIO failure,
 SP, 172
 software-detected symbiont inconsistencies,
 SP, 176
 system identification,
 SP, 177
 system startup,
 SP, 175
 time out,
 SP, 173
 time stamp,
 SP, 178

unexpected interrupt,
 SP, 173
 watchdog timer,
 SP, 175
 Xerox 560 memory parity secondary record,
 SP, 183
 ERMSG file,
 SP, 59
 error address, setting,
 BP, 102
 error codes,
 device failure or end-of-data,
 BP, 232
 TS, 151
 enqueue/dequeue,
 BP, 237
 TS, 156
 insufficient or conflicting information,
 BP, 230
 TS, 149
 miscellaneous,
 BP, 233
 TS, 152
 Xerox labeled tape,
 BP, 237
 TS, 156
 error control, COC,
 TS, 130
 error control, monitor,
 BP, 63
 error detection and recovery,
 SM, 19
 SP, 21
 (see recovery)
 ERROR key-in,
 OP, 12
 error log display,
 SP, 174
 error log file (see ERRFILE)
 Error Log Listing program (see ELLA)
 error log, reading,
 SP, 189
 error log, writing,
 SP, 189
 error message file,
 SP, 59
 error messages (see messages)
 error record terminology,
 SP, 168
 error return,
 BP, 61, 84
 TS, 127
 error severity level code,
 BP, x
 errors, detecting and reporting on-line,
 TS, 12
 errors, operator console,
 OP, 4
 ERSEND key-in,
 OP, 18

ESC),
 TS, 11
 ESC (,
 TS, 11
 ESC C,
 TS, 11
 ESC E,
 TS, 9
 UG, 5
 ESC F,
 TS, 16
 ESC ESC,
 TS, 12
 UG, 76
 ESC I,
 TS, 11
 UG, 13
 ESC LINE FEED,
 TS, 10
 ESC P,
 TS, 13
 ESC Q,
 TS, 12
 ESC R,
 TS, 10
 ESC RETURN,
 TS, 10
 UG, 25
 ESC RUBOUT,
 TS, 10
 ESC S,
 TS, 11
 UG, 13
 ESC T,
 TS, 11
 UG, 13
 ESC U,
 TS, 11
 ESC X,
 TS, 10
 UG, 9
 ESC Y,
 TS, 12
 UG, 76
 event control blocks (see ECBs)
 exceptional condition control procedures,
 BP, 54
 EXEC command, Batch,
 BP, 182
 TS, 121
 EXECUTE command, BASIC,
 UG, 43
 execution control processors,
 BP, 5
 SM, 9
 SP, 8
 EXHIBIT statement, COBOL,
 TP, 107
 #EXIT#SPACE procedure,
 TP, 194

exit control,
 BP, 57
 exit from trap, interrupt, timer, or exit control routine,
 BP, 62
 exit return,
 BP, 61, 84
 TS, 127
 exits to the monitor,
 BP, 61
 expansion, of + NPSs,
 TP, 66, 193
 explicit open,
 BP, 27
 EXTEND command, TEL,
 TS, 33
 extended accounting,
 TS, 7
 Extended Data Management System (see EDMS)
 Extended FORTRAN IV (see FORTRAN)
 extended memory mode,
 TS, 33
 extension of output files (see files, extension)
 external definition,
 BP, x
 external reference,
 BP, x
 SM, ix
 SP, xi
 TS, ix

F

F command, Edit,
 TS, 85
 F:DELX file assignment,
 TP, 80
 F:JRNL file assignment,
 TP, 80
 F:STAX file assignment,
 TP, 80
 F:TFDX file assignment,
 TP, 80
 failure flag,
 TP, 93, 88
 FAILURE subroutine,
 TP, 93
 failures,
 TP, 120, 150
 abort of a single transaction,
 TP, 120
 abort of a system component,
 TP, 120
 destruction of a critical file,
 TP, 121
 system crash,
 TP, 120

FAST command,
 BASIC,
 UG, 37
 Super,
 SM, 30
 Fast Save processor (see FSAVE)
 :FAUTH command, PASS2,
 SM, 139
 FD command, Edit,
 TS, 82
 UG, 24
 FDP,
 BP, 6
 SM, 10
 SP, 9
 TS, 24, 4
 UG, 66
 fid (see files, identification)
 FILE command,
 BASIC,
 UG, 40
 STATS,
 SM, 91
 file DCB format,
 BP, 189
 file definitions,
 TP, 137
 file directory,
 BP, 13
 file directory, listing,
 TS, 34
 File Information Table (see FIT)
 file maintenance procedures, user,
 BP, 87
 file maintenance processors,
 OP, 40
 SM, 116, 20
 SP, 22
 DEVDM_P,
 OP, 63, 41
 SM, 117, 6
 exceptional procedures,
 SM, 118
 FILL,
 OP, 45, 40
 SM, 116, 5
 Fix,
 OP, 41, 40
 SM, 116, 2
 SP, 4
 FRES,
 OP, 53, 40
 SM, 116, 6
 FSAVE,
 OP, 52, 40
 SM, 116, 6
 GAC,
 OP, 68, 41
 SM, 117, 6, 118

recommended usage,
 SM, 117
 file management routines,
 BP, x
 file manipulation procedures,
 BP, 109
 File Restore processor (see FRES)
 files,
 access,
 BP, 18
 backing up (see file maintenance processors)
 backing up, on-line,
 TS, 24
 UG, 95
 common journal,
 TP, 113,4
 consecutive,
 BP, 17
 creating (see Edit)
 database,
 TP, 5
 defaults,
 BP, 95
 direct access,
 BP, 18
 extension,
 BP, x
 SM, ix
 SP, 95,xi
 TS, 19,ix
 UG, 16
 held,
 RP, vii
 identification,
 BP, 160
 SP, 91
 TS, 18,54
 UG, 108,15
 keyed,
 BP, 14
 M:SI,
 TP, 80
 manipulation,
 BP, 109
 UG, 15
 multiple access,
 BP, 20
 noncontrol input,
 BP, 76,45
 OP, 14
 RP, 7,17
 TS, 33
 organization,
 BP, 14
 UG, 17
 positioning,
 BP, 109
 preservation,
 OP, 38
 random,
 BP, 18
 Report Delivery,
 TP, 69
 restoring (see file maintenance processors)
 saving (see file maintenance processors)
 sequential access,
 BP, 19
 shared,
 SP, 116
 simultaneous usage,
 BP, 20,254
 Station Names,
 TP, 63
 storage,
 UG, 15
 storage devices,
 BP, 22
 structure,
 BP, 14
 suspended,
 RP, vii
 symbiont,
 OP, 38
 synonymous,
 BP, 26
 system,
 OP, 38,viii
 TFD,
 TP, 74
 TPAFTER,
 TP, 123,124
 TPFILES,
 TP, 129
 TPIPLIST,
 TP, 121-124
 TPQUEUE,
 TP, 130
 user,
 OP, 38
 FILL (processor),
 OP, 45,40
 SM, 116,5
 SP, 4
 FILL, backup operation,
 OP, 45
 FILL, commands,
 BEGIN,
 OP, 49
 DISMOUNT,
 OP, 50
 DISPLAY,
 OP, 51
 MIN,
 OP, 52
 MOUNT,
 OP, 50
 PRINT,
 OP, 50

PURGE,
 OP, 50,52
 QUIT,
 OP, 49
 RESTART,
 OP, 50
 SET,
 OP, 50
 STATUS,
 OP, 50
 SUSPEND,
 OP, 50
 FILL, fill operation,
 OP, 47
 FILL, purge operation,
 OP, 49
 FIN control command,
 BP, 46
 OP, 7
 FINDSEQ subroutine, EDMS,
 TP, 91
 FIT,
 BP, 14
 FIT file parameters,
 BP, 201
 Fix (processor),
 OP, 41,40
 SM, 116,2
 SP, 4
 Fix, commands,
 AUTO,
 OP, 42
 CHECK,
 OP, 42
 COMPACT,
 OP, 43
 DUMP,
 OP, 42
 END,
 OP, 43
 FIX,
 OP, 42
 HGPRECON,
 OP, 42
 LIST,
 OP, 42
 MAILBOX,
 OP, 42
 PRINT,
 OP, 43
 REMOVE,
 OP, 42
 SNAP,
 OP, 42
 Fix, examples,
 OP, 43
 Fix, messages,
 OP, 43
 FIX command, Fix,
 OP, 42

fixed monitor locations,
 SP, 88
 FLAG,
 BP, 4
 SM, 8
 SP, 7
 TS, 3
 flags, abort,
 failure,
 TP, 93,88,89
 load module abort,
 TP, 88-90
 User module abort,
 TP, 88-90
 flags, journalization and queuing,
 common journal records,
 TP, 182,184,186,188,190,192
 FAILURE subroutine,
 TP, 94
 OUTALINE subroutine,
 TP, 96
 OUTATRAN subroutine,
 TP, 97
 X primitive,
 TP, 58
 FORM key-in,
 OP, 15
 formal queue message (FQM),
 TP, 195
 formats,
 common journal,
 TP, 181
 queue message,
 TP, 23
 report,
 TP, 47,23
 TFD keys,
 TP, 23
 TPC Simulator,
 TP, 109
 transaction,
 TP, 47,23
 formatting, specifying direct, (M:DEVICE),
 BP, 114
 forms, changing,
 BP, 115
 OP, 15
 RP, 16
 FORT4 command, TEL,
 TS, 47,18
 UG, 45
 FORTRAN,
 BP, 4
 SM, 6
 SP, 5
 TS, 47,2,18
 UG, 45
 compilation options,
 TS, 48

FORTRAN Debug Package (see FDP)

FORTRAN Load and Go (see FLAG)
 FORTRAN user modules,
 TP, 91, 92
 FPARAM table,
 BP, 201
 FPT,
 BP, 71, x, 48, 74
 SM, ix
 SP, xi
 TS, ix
 setting protection type,
 BP, 49
 FREE command,
 ELLA,
 SP, 138
 Terminal Interface Controller,
 TP, 143
 FRES,
 OP, 53, 40
 SM, 116, 6
 SP, 5
 commands,
 OP, 60, 53
 compatability with previous versions,
 OP, 53
 error messages,
 OP, 62, 53
 input preparation,
 OP, 53
 sample input decks,
 OP, 61, 53
 :FRGD command, PASS2,
 SM, 139
 FS command, Edit,
 TS, 82
 FSAVE,
 OP, 52, 40
 SM, 116, 6
 SP, 5
 commands,
 OP, 53, 52
 error messages,
 OP, 59, 53
 input preparation,
 OP, 52
 sample input decks,
 OP, 55, 53
 FT command, Edit,
 TS, 82
 UG, 24
 function parameter table (see FPT)

 ;G command, Delta,
 TS, 101
 GAC,
 OP, 68, 41
 SM, 117, 6, 118
 SP, 5

 operation,
 OP, 68
 output,
 OP, 69
 :GENDCB command,
 SP, 32
 General Purpose Discrete Simulator (see GPDS)
 GENMD,
 commands,
 DELETE,
 SP, 33
 GENMD,
 SP, 33
 LIST,
 SP, 33
 error messages,
 SP, 34, 33
 patches,
 SP, 33
 GENMD command, GENMD,
 SP, 33
 GET CAL,
 BP, 80
 GET command,
 PPS,
 SP, 138
 TEL,
 TS, 26
 UG, 92
 GETATRAN subroutine,
 TP, 94, 93
 ghost job,
 BP, x
 OP, viii
 RP, vii
 SM, ix
 SP, xi
 TS, ix
 ghost job, initiating,
 BP, 83
 OP, 17
 SP, 190
 GJOB key-in,
 OP, 17
 :GLIMIT command, PASS2,
 SM, 131
 global symbol,
 BP, 121, x
 SM, ix
 SP, xi
 TS, ix
 GO command,
 TEL,
 TS, 25
 UG, 92
 TP Ghost,
 TP, 134
 :GO command (boot-time),
 SP, 26

GO file,
 BP, x
 SM, ix
 SP, xi
 TS, ix, 19

GPDS,
 BP, 7
 SM, 12
 SP, 11

Granule Accounting Cleanup processor (see GAC)

granule,
 BP, x
 OP, viii
 SM, ix
 SP, xi

H

half-duplex paper tape reading mode, terminals,
 TS, 13

handler entry points,
 SM, 125

hardware-error diagnostic CALs,
 SP, 85

 initiate ghost job,
 SP, 86

 read error log,
 SP, 86

 write error log,
 SP, 86

hardwired remote station,
 TP, 24

HASP,
 RP, 47, 2, 43

header, specifying, (M:DEVICE),
 BP, 116

headings, COC,
 TS, 131

held file,
 RP, vii

HELP command,
 ANLZ,
 SP, 45

 ERR:LIST,
 SP, 175

 STATS,
 SM, 89

 Summary,
 SM, 97

HGP reconstruction,
 OP, 40, 73

HGPRECON command, Fix,
 OP, 42

I

I/O completion, checking,
 BP, 103

I/O devices, assigning (see ASSIGN and SET commands)

I/O procedures,
 BP, 86

I/O scheduling,
 SM, 18
 SP, 17

IBM 2741 (see 2741 terminal)

IBM 2780 RBT (see 2780 RBT)

IBM HASP Multileaving protocol,
 RP, 43, 2, 47

ICB,
 SP, 119

ID (job identification),
 OP, 3

id (transaction processing),
 TP, xi

identifier,
 common journal records,
 TP, 113

 TFD key,
 TP, 23

IF control command,
 BP, 150

:IGNORE command, DEF,
 SM, 157

image,
 common journal,
 TP, 113

 station,
 TP, 78

:IMC command, PASS2,
 SM, 132

IN command, Edit,
 TS, 80
 UG, 20, 23

in-progress,
 reports,
 TP, 121, 119

 transactions,
 TP, 121, 119

INCL control command,
 BP, 128

:INCLUDE command, DEF,
 SM, 157

index structure,
 BP, 14

indirect printing mode, terminals,
 TS, 9

INITATPC subroutine,
 TP, 94, 93

initialization and start-up routines,
 OP, 5
 SP, 23
 TP, 129

INPUT command, ANLZ,
 SP, 40

input control commands,
 BP, 45

input files, noncontrol (see noncontrol input files)

INSERT command,
 Report Delivery Processor,
 TP, 71
 Station Names Processor,
 TP, 65,66
 installation,
 logon,
 TP, 193,33
 primitives,
 TP, 194,48
 programs,
 TP, 13,29,124
 user modules,
 TP, 91,85,87
 insufficient information, abnormal codes,
 BP, 226
 TS, 145
 insufficient information, error codes,
 BP, 230
 TS, 149
 INT key-in,
 OP, 18
 Intelligent Remote Terminal (see IRBT)
 interaction time,
 SM, ix
 internal symbols,
 BP, 121
 TS, ix
 interrupt, connecting to,
 BP, 57,85
 TS, 128
 interrupt connection and control services, real-time,
 SP, 119
 interrupt control block,
 SP, 119
 interrupt key-in,
 OP, 18
 interrupt label,
 SP, 119
 interrupting execution, on-line,
 TS, 25,12
 UG, 76
 interval timer, setting,
 BP, 56
 interval timer, testing,
 BP, 57
 :INTLB command, PASS2,
 SM, 139
 IOP designation codes,
 BP, 86
 OP, 2
 SM, 162
 SP, 148
 IRBT,
 RP, 1,2,12
 operation of,
 RP, 37
 IS command,
 ANLZ,
 SP, 45

Edit,
 TS, 80

J

;J command, Delta,
 TS, 107
 JCL,
 BP, 28,xi,155
 JIT,
 BP, xi
 SM, ix
 SP, 88,xi
 TS, ix
 JOB command, TEL,
 RP, 10
 TS, 25
 UG, 100
 JOB control command,
 BP, 29
 RP, 10
 job control language (see JCL)
 job control, operator,
 OP, 10,12
 job decks, sample,
 BP, 155
 job information table (see JIT)
 job resource attributes,
 SM, 65
 job sequence number,
 OP, 3
 job step,
 BP, xi
 SM, ix
 SP, xi
 TS, ix
 job stream,
 RP, vii
 journal file,
 TP, xi
 JOURNAL subroutine,
 TP, 95,93
 journalization,
 TP, 113,9
 journalization flags,
 common journal records,
 TP, 182,184,186,188,190,192
 OUTALINE subroutine,
 TP, 96
 OUTATRAN subroutine,
 TP, 97
 X primitive,
 TP, 58
 JU command, Edit,
 TS, 86

K

;K command, Delta,
 TS, 100
KEEP command, SYMCON,
 BP, 186
keep flag, FAILURE subroutine,
 TP, 94
key,
 BP, xi
 SM, ix
 SP, xi
 TS, ix
 TFD,
 TP, 22,23,47,76
keyed files,
 BP, 14
key-in,
 BP, xi
 OP, 1,viii
 SM, ix
 SP, xi
 TS, ix
entering,
 OP, 72,1
requesting,
 BP, 52,84
 TS, 128
key-ins,
 ABORT,
 OP, 13
 ANSMOUNT,
 OP, 24
 ANSSCRATCH,
 OP, 25
 D,
 OP, 17
 DATE,
 OP, 17
 DELETE,
 OP, 16
 DIAG,
 OP, 18
 DISPLAY,
 OP, 10,22
 RP, 21
 E,
 OP, 12
 ERROR,
 OP, 12
 ERSEND,
 OP, 18
 FORM,
 OP, 15
 GJOB,
 OP, 17
index of,
 OP, 79
 INT,
 OP, 18
 MCSEND,
 OP, 18
 MOUNT,
 OP, 22,24
 OBOFF,
 OP, 16
 OBON,
 OP, 16
 OFF,
 OP, 16
 ON,
 OP, 16
 ONB,
 OP, 16
 OVER,
 OP, 32
 PRIORITY,
 OP, 16
 RBBDCST,
 OP, 17
 RP, 21
 RBCOM,
 RP, 21
 RBDISC,
 OP, 9
 RP, 21
 RBLOG,
 OP, 9
 RP, 21
 RBS,
 OP, 9
 RP, 21
 RBSEND,
 OP, 17
 RP, 21
 RBSWITCH,
 OP, 18
 RP, 22
 RBX,
 OP, 9
 RP, 22
 READ,
 OP, 33
 REQUEST,
 OP, 22,26
 S,
 OP, 13
 SCRATCH,
 OP, 25
 SEND,
 OP, 17
 SS,
 OP, 7
 START,
 OP, 13
 Syndd,
 OP, 13,7
 T,
 OP, 17

TIME,
 OP, 17
 X,
 OP, 13
 yyndd,
 OP, 27
 ZAP,
 OP, 16

L

L command,
 Edit,
 TS, 85
 TEL,
 TS, 34,24
 ;L command, Delta,
 TS, 106
 Label,
 OP, 22
 SM, 6
 SP, 5
 commands,
 OP, 23
 error messages,
 OP, 24,23
 labeled tape,
 BP, 24
 (see ANS labeled tape)
 (see Xerox labeled tape)
 LALL command, TFD,
 TP, 77
 language processors,
 BP, 4
 SM, 6,ix
 SP, 5,xi
 TS, 45
 UG, 36
 LDEV command, TEL,
 RP, 5
 TS, 31
 :LDEV command, PASS2,
 SM, 129
 LDEV control command,
 BP, 43
 RP, 5
 LDEV processor,
 RP, 9
 :LIB file,
 BP, 131
 libraries,
 BP, 120,9,81
 SP, 118
 addition of new library load modules,
 BP, 131
 constructed by the overlay loader,
 BP, 130
 contents of,
 BP, 130

creation of,
 BP, 131
 :LIB as a synonymous file,
 BP, 131
 public,
 BP, 120,xii,81,131
 SP, 98
 TS, x
 replacement of library load modules,
 BP, 131
 routines,
 BP, 249
 searching,
 TS, 21
 UG, 112
 system,
 BP, 121,xii
 SM, xi
 SP, xiii
 TS, x
 use of,
 BP, 130
 library load module,
 BP, xi
 SM, ix
 SP, xi
 LIMIT control command,
 BP, 29
 SM, 23
 limit management,
 SM, 22
 limits, obtaining common,
 BP, 64
 line,
 TP, 24,xi
 line control,
 TP, xi
 LINE FEED command,
 ANLZ,
 SP, 43
 Delta,
 TS, 99
 line printer error procedures,
 OP, 30
 line printer format control codes,
 BP, 42
 line spacing, setting (M:DEVICE),
 BP, 113
 lines, determining number remaining (M:DEVICE),
 BP, 117
 lines, setting number of printable (M:DEVICE),
 BP, 113
 Link (processor),
 BP, 118,6
 SM, 9
 SP, 8
 TS, 114,4,20
 UG, 57

Link, commands,
 LINK,
 BP, 118
 TS, 118,20
 UG, 58,112
 RUN,
 BP, 119
 TS, 118,23
 UG, 57,112
 Link, error messages,
 BP, 122,121
 LINK command, Link (and TEL),
 BP, 118
 TS, 118,20
 UG, 58,112
 link to a load module (M:LINK),
 BP, 50
 linking loader,
 BP, xi
 SM, ix
 SP, xi
 TS, ix
 (see Link processor)
 LIST command,
 BASIC,
 UG, 39
 Control,
 SM, 61
 DRSP,
 SP, 103
 Fix,
 OP, 42
 GENMD,
 SP, 33
 PCL,
 BP, 172
 TS, 67
 UG, 31
 Report Delivery Processor,
 TP, 72
 Station Names Processor,
 TP, 66
 STATS,
 SM, 90
 Summary,
 SM, 97
 Super,
 SM, 28
 SYMCON,
 SM, 186
 TEL,
 TS, 19
 UG, 83,89
 TFD Processor,
 TP, 77
 TP Ghost,
 TP, 134
 LISTALL command, DRSP,
 SP, 103

listing log, writing to,
 BP, 53
 LISTQIP Processor,
 TP, 124,121,154
 LM (see load module)
 lmn command, TEL,
 TS, 22
 UG, 72
 Load (processor),
 BP, 123,6
 SM, 9
 SP, 8
 Load, commands,
 INCL,
 BP, 128
 LOAD,
 BP, 123
 MODIFY,
 BP, 129
 OLAY,
 BP, 123
 OVERLAY,
 BP, 123
 PTREE,
 BP, 128
 RUN,
 BP, 129
 TREE,
 BP, 127
 Load, error messages,
 BP, 132
 Load, restrictions,
 BP, 126
 load and transfer control,
 BP, 50
 LOAD command, BASIC,
 UG, 38,40
 LOAD control command,
 BP, 123
 load information,
 BP, xi
 load location counter,
 BP, xi
 load map,
 BP, 143,xi
 SM, x
 SP, xi
 TS, ix
 load module,
 SM, x
 SP, xi
 TS, 114,ix
 UG, 15
 linking to,
 BP, 50
 structure,
 BP, 120

load module (transaction processing),
 TP, 3,xi
 example,
 TP, 105,106
 execution,
 TP, 85
 initialization,
 TP, 85
 operator control,
 TP, 146
 shutdown,
 TP, 90
 termination,
 TP, 149,133
 load module abort flag,
 TP, 88-90
 load-and-go diagnostics,
 OP, 106
 loading batch programs,
 BP, 123,118
 loc command, ANLZ,
 SP, 40
 LOC RETURN,
 TS, 10
 UG, 25
 loc = value command, ANLZ,
 SP, 43
 loc1,loc2 command, ANLZ,
 SP, 43
 local users,
 RP, 5
 location name of the station,
 TP, 31,xi
 LOCCT (processor),
 SM, 151
 examples,
 SM, 152
 messages,
 SM, 153,152
 log-on connection,
 SP, 87
 log-on controls,
 SM, 24
 logging on and off,
 TS, 7,26
 logical device,
 BP, xi
 OP, viii
 SM, x
 SP, xi
 logical device stream,
 BP, 43,xi,75
 RP, 5,vii
 SM, 129,x
 SP, xi
 TS, 31,ix
 ILOGOFF command,
 TP, 40
 ILOGON command,
 TP, 40

LOGON/LOGOFF,
 BP, 3
 SM, 4
 SP, 3
 LP command, ANLZ,
 SP, 44

M

;M command, Delta,
 TS, 106
 M:AND,
 BP, 152
 M:BLIST,
 SP, 111
 M:CAC,
 TS, 127
 M:CHECK,
 BP, 103
 M:CHECKECB,
 BP, 81
 M:CHKINT,
 SP, 132
 M:CLOCK,
 SP, 125
 M:CLOSE,
 BP, 100
 M:COC,
 SP, 136
 M:CONNECT,
 SP, 120
 M:COUNT,
 BP, 152
 M:CT,
 TS, 124
 M:CVM,
 BP, 66
 M:CVOL,
 BP, 110
 M:DCB,
 BP, 88,87
 M:DCLOSE,
 SP, 111
 M:DDCB,
 SP, 109
 M:DELREC,
 BP, 108
 M:DEQ,
 BP, 70
 M:DEVICE,
 BP, 112
 TS, 131
 M:DISCONNECT,
 SP, 121
 M:DISPLAY,
 BP, 80
 M:DMD#,
 SP, 113

M:DOPEN,
 SP, 110
 M:DPART,
 SM, 112
 M:DRET,
 SM, 113
 M:ENQ,
 BP, 68
 M:ERR,
 BP, 61,84
 TS, 127
 M:EXCP,
 SP, 133
 M:EXIT,
 BP, 61,84
 TS, 127
 M:EXU,
 BP, 83
 SP, 129
 M:FCP,
 BP, 65
 M:FP,
 BP, 65
 M:FPP,
 SP, 130
 M:FVP,
 BP, 66
 M:GCP,
 BP, 64
 M:GDDL,
 BP, 64
 M:GDG,
 SP, 131
 M:GJOB,
 SP, 130
 M:GJOBCON,
 SP, 120
 M:GL,
 BP, 64
 M:GP,
 BP, 65
 M:GPP,
 SP, 130
 M:GVP,
 BP, 65
 M:HOLD,
 SP, 124
 M:IF,
 BP, 150
 M:INHIBIT,
 SP, 122
 M:INT,
 BP, 57,85
 TP, xi
 TS, 128
 M:INTCON,
 SP, 122
 M:INTRTN,
 SP, 123

M:INTSTAT,
 SP, 124
 M:IOEX,
 SP, 127
 M:JOB,
 BP, 111
 M:KEYIN,
 BP, 52,84
 TS, 128
 M:LDEV,
 BP, 75
 M:LDTRC,
 BP, 50
 M:LINK,
 BP, 50
 M:LOCK,
 SP, 113
 M:MAP,
 SP, 113,130
 M:MASTER,
 BP, 81
 SP, 129
 M:MERC,
 BP, 63
 M:MESSAGE,
 BP, 52
 M:MOVE,
 BP, 107
 M:NEWQ,
 SP, 133
 M:OPEN,
 BP, 93
 M:OR,
 BP, 152
 M:PC,
 TS, 124
 M:PFIL,
 BP, 109
 M:PRECORD,
 BP, 109
 M:PRINT,
 BP, 53
 M:PT,
 BP, 49
 M:QFI,
 SP, 123
 M:QUE,
 SP, 135
 M:QUEUE,
 SP, 141
 M:RAMR,
 BP, 78
 M:RDG,
 SP, 131
 M:READ,
 BP, 104
 M:REW,
 BP, 110
 M:RUE,
 SP, 131

M:SEGLD,
 BP, 49
 M:SETDCB,
 BP, 102
 TS, 131
 M:SIO,
 SP, 112
 M:SLAVE,
 BP, 81
 SP, 129
 M:SMPRT,
 BP, 66
 M:SNAP,
 BP, 149
 M:SNAPC,
 BP, 150
 M:STARTIO,
 SP, 127
 M:STIMER,
 BP, 56
 M:STOPPIO,
 SP, 125
 M:STRAP,
 BP, 56
 M:SYS,
 BP, 80
 M:TFILE,
 BP, 103
 M:TIME,
 BP, 51
 M:TRAP,
 BP, 54
 M:TRTN,
 BP, 62
 M:TRUNC,
 BP, 108
 M:TS,
 TS, 126
 M:TTIMER,
 BP, 57, 56
 M:TYPE,
 BP, 52, 84
 TS, 128
 M:WAIT,
 BP, 53
 M:WAMR,
 BP, 78
 M:WE OF,
 BP, 111
 M:WRITE,
 BP, 105
 M:XCON,
 BP, 57
 M:XXX,
 BP, 62, 84
 TS, 127
 magnetic tape (see tape)
 MAILBOX command, Fix,
 OP, 42
 MAILBOX file,
 TS, 9
 UG, 5, 95
 Manage,
 BP, 5
 SM, 9
 SP, 8
 TS, 5
 MAP command, ANLZ,
 SP, 43
 master mode, entering,
 BP, 80
 master system tape,
 SM, 123
 SP, 23, 24
 master system,
 RP, 2
 MATCH command, Report Delivery Processor,
 TP, 72
 MCSEND key-in,
 OP, 18
 MD command, Edit,
 TS, 81
 memory allocation,
 BP, 63
 memory control,
 SP, 89
 memory layout,
 SM, 19
 SP, 19
 memory management,
 BP, 63
 SM, 15
 SP, 13
 memory protect, setting,
 BP, 66
 memory protection,
 BP, 138
 memory, virtual,
 BP, 139
 MERGE command, Edit,
 TS, 78
 UG, 18, 23
 message,
 TP, xi
 MESSAGE command,
 TEL,
 TS, 38
 UG, 101
 Terminal Interface Controller,
 TP, 144
 MESSAGE control command,
 BP, 32
 message file,
 RP, vii
 message formats, operator,
 OP, 3
 messages,
 ANLZ,
 SP, 54

Batch processor,
 BP, 183
 TS, 122
 Control,
 SM, 72, 70
 debug,
 BP, 153
 DEF,
 SM, 158
 Delta,
 TS, 108
 DEVDM_P,
 OP, 65
 device,
 OP, 27
 DRSP,
 SP, 104
 Edit,
 TS, 87
 ELLA,
 SP, 84
 Fix,
 OP, 43
 FRES,
 OP, 62, 53
 FSAVE,
 OP, 59, 53
 GENMD,
 SP, 263
 Label,
 OP, 24, 23
 Link,
 BP, 122, 121
 Load,
 BP, 132
 LOCCT,
 SM, 153, 152
 monitor,
 BP, 226
 TS, 145
 on-line peripheral diagnostics,
 SP, 114
 PASS0,
 SP, 38
 PASS2,
 SM, 141, 140
 PASS3,
 SM, 155
 PCL,
 BP, 176, 175
 TS, 71, 70
 RATES,
 SM, 53, 52
 reconfiguration and partitioning,
 SP, 28
 remote processing,
 RP, 17
 Report Delivery Processor,
 TP, 73

Station Names Processor,
 TP, 67
 STATS,
 SM, 93, 92
 Summary,
 SM, 106
 Super,
 SM, 38
 symbiont,
 OP, 15
 SYMCON,
 BP, 187
 SYSCON,
 OP, 36
 SM, 113
 TEL,
 TS, 38
 TFD Processor,
 TP, 79
 TPC Processor,
 TP, 109
 transaction processing operator,
 TP, 156
 transaction processing user station,
 TP, 42
 VOLINIT,
 OP, 20
 messages from operator,
 to on-line user,
 OP, 17
 UG, 101
 to remote processing user,
 OP, 17
 messages to operator,
 BP, 52
 TS, 38
 UG, 101
 index of,
 OP, 82
 META command, TEL,
 TS, 45, 18
 UG, 52
 Meta-Symbol,
 BP, 4
 SM, 7
 SP, 6
 TS, 45, 2, 18
 UG, 51
 assembly options,
 TS, 46
 MIN command, FILL,
 OP, 52
 MK command, Edit,
 TS, 82
 MOD command, ELLA,
 SP, 78
 MODIFY command, Super,
 SM, 28
 MODIFY control command,
 BP, 129

MODNUM command, SYSCON,
 SM, 111
 :MON command, PASS2,
 RP, 23
 SM, 136
 monitor,
 BP, 8, xi, 1
 OP, viii
 SM, 13, x
 SP, 12, xii
 TP, 2, xi, 4, 85, 88
 TS, ix
 MONITOR command, ANLZ,
 SP, 43
 monitor DEFs (for real-time),
 SP, 140
 monitor dump analysis program (see ANLZ)
 monitor error control,
 BP, 63
 monitor error messages,
 BP, 226
 TS, 145
 monitor escape, COC,
 TS, 131
 monitor routines,
 BP, 8
 SM, 13
 monitor services to on-line user programs,
 TS, 124
 MOUNT command, FILL,
 OP, 50
 MOUNT key-in,
 OP, 22, 24
 multi-batch partition attributes,
 SM, 59
 Multi-Batch Scheduler,
 SM, 64
 Multileaving,
 RP, 43, 2
 multilevel index structure,
 BP, 15
 multiline records, entering,
 TS, 10, 75
 UG, 25
 multiple access to a single file,
 BP, 20
 multipoint line,
 TP, xi, 13
 multiprogramming,
 TP, xii

N

n attribute command, Control,
 SM, 67
 n attribute = number command, Control,
 SM, 67
 ;N command, Delta,
 TS, 106

name, user,
 BP, 29
 SM, 24
 TS, 7
 UG, 5
 NAME command, BASIC,
 UG, 40
 name command, Control,
 SM, 62
 name parts,
 TP, 23, 136
 name possibility strings (NPSs),
 TP, 31, xi, 19, 63
 name = number command, Control,
 SM, 62
 !!NCTL command,
 BP, 76, 45
 OP, 14
 RP, 7, 17
 TS, 33
 NET command, Terminal Interface Controller,
 TP, 144
 NO command, Edit,
 TS, 86
 no-echo mode, terminals,
 TS, 9
 NODELTA command, ANLZ,
 SP, 44
 noncontrol input file,
 BP, 76, 45
 OP, 14
 RP, 7, 17
 TS, 33
 null passwords,
 TP, 33, 193

O

O command, Edit,
 TS, 85
 ;O command, Delta,
 TS, 107
 object language,
 BP, xi
 SM, x
 SP, xii
 TS, x
 UG, 15
 object module,
 BP, xi
 SM, x
 SP, xii
 OBOFF key-in,
 OP, 16
 OBON key-in,
 OP, 16
 OFF command, TEL,
 TS, 26, 8
 UG, 5

OFF key-in,
 OP, 16
OLAY control command,
 BP, 123
:OLIMIT command, PASS2,
 SM, 131
ON key-in,
 OP, 16
ON modifier,
 UG, 16
on-line job,
 OP, viii
 RP, vii
 SM, x
 SP, xii
 TS, x
on-line peripheral diagnostic facilities,
 SP, 108, 22
abnormal codes and messages,
 SP, 114
access device directly for diagnostics,
 SP, 190
DDCB,
 SP, 114, 109
M:BLIST,
 SP, 111
M:DCLOSE,
 SP, 111
M:DDCB,
 SP, 109
M:DMOD#,
 SP, 113
M:DOPEN,
 SP, 110
M:DPART,
 SM, 112
M:DRET,
 SM, 113
M:LOCK,
 SP, 113
M:MAP,
 SP, 113
M:SIO,
 SP, 112
PSECT directive,
 SP, 108
restrictions,
 SP, 108
on-line users, controlling number of,
 OP, 16
ONB key-in,
 OP, 16
open a file,
 BP, 93
open, explicit,
 BP, 27
OPEN command, TP Ghost,
 TP, 135
opennext operation,
 BP, 27

operational label,
 BP, 39, xi
 OP, viii
 SM, 161, x, 129
 SP, 147, xii
 TS, 28, x
operator console errors,
 OP, 4
operator key-ins (see key-ins)
operator task descriptions,
 OP, 70
operator, central site,
 RP, 21
operator, messages to (from system),
 OP, 82
operator, messages to (from users),
 BP, 32, 52
 TS, 38
 UG, 101
operator, remote,
 RP, 13
:OPLBLT command, PASS2,
 SM, 129
option,
 BP, xi
 TS, x
OR control command,
 BP, 152
originating station, name of,
 TP, 33, xii, 43
OUTALINE subroutine,
 TP, 96, 93
OUTATRAN subroutine,
 TP, 96, 93
OUTPUT command, TEL,
 TS, 19
 UG, 83, 89
output form, changing, (M:DEVICE),
 BP, 115
output header, specifying, (M:DEVICE),
 BP, 116
output, controlling,
 TS, 19
 UG, 83, 89
OVER key-in,
 OP, 32
OVER modifier,
 UG, 16
OVERLAY control command,
 BP, 123
overlay loader,
 BP, xi
 SM, x
 SP, xii
 (see Load processor)
restrictions,
 BP, 126
overlay program,
 SM, x
 SP, xii

overlay restrictions, shared processors,

SP, 89

overlay segment, loading,

BP, 49

#OWN register,

TP, 196, 198

own-storage local variables,

TP, 196

P

P command,

Edit,

TS, 84

Super,

SM, 30

;P command, Delta,

TS, 101

P primitive,

TP, 58, 48, 51

page allocation for real-time,

SP, 136

page control, COC,

TS, 131

page count, specifying, (M:DEVICE),

BP, 115

pages, freeing,

BP, 65

pages, obtaining,

BP, 64, 65

paper tape input, terminals,

TS, 12

parameter presence indicator,

BP, xi

TS, x

:PART command,

boot-time,

SP, 26

PASS2,

SM, 138

partition attributes,

SM, 59

PARTITION command,

Control,

SM, 66

SYSCON,

OP, 35

SM, 110

partitioning resources,

OP, 33

SM, 109, 6

SP, 26

partitions,

SM, 64

PASS0,

SP, 38

PASS0, error messages,

SP, 38

PASS2,

SM, 124, 22, 23, 120

PASS2, commands,

SM, 120, 124

:BLIMIT,

SM, 131

:CHAN,

SM, 124

:COC,

SM, 134

:DEVICE,

RP, 23

SM, 124

:ELIMIT,

SM, 132

:FAUTH,

SM, 139

:FRGD,

SM, 139

:GLIMIT,

SM, 131

:IMC,

SM, 132

:INTLB,

SM, 139

:LDEV,

SM, 129

:MON,

RP, 23

SM, 136

:OLIMIT,

SM, 131

:OPLBLT,

SM, 129

:PART,

SM, 138

:RES,

SM, 130

:SDEVICE,

RP, 23

SM, 128

:SPROCS,

SM, 137

PASS2, control command sequence,

SM, 140

PASS2, load modules and files,

SM, 141

PASS2, messages,

SM, 141, 140

PASS2, overlay structure,

SM, 140

PASS3,

SM, 153

examples,

SM, 154

messages,

SM, 155

password,
 SM, 25
 TS, 26, 7
 TP, 33, 41, 193
 UG, 5, 6
 PASSWORD command, TEL,
 TS, 26
 UG, 6
 patch,
 SP, xii
 patch control commands, conditional,
 SP, 33
 patch deck comment cards,
 SP, 34
 patch deck structure,
 SP, 23
 patch deck symbol table,
 SP, 25
 patch file creation,
 SP, 35
 patches, Delta format,
 SP, 23
 patching operations,
 SP, 23
 PCL,
 BP, 158, 6
 SM, 10
 SP, 9
 TS, 53, 4
 UG, 29
 PCL, BREAK function,
 TS, 56
 PCL, capabilities,
 BP, 161
 TS, 56
 PCL, command summary,
 BP, 178, 175
 TS, 73, 70
 PCL, commands,
 COPY,
 BP, 162
 TS, 57, 24
 UG, 30, 96
 COPYALL,
 BP, 167
 TS, 62
 UG, 96
 COPYSTD,
 BP, 170
 TS, 64
 DELETE,
 BP, 171
 TS, 66, 24
 UG, 31
 DELETEALL,
 BP, 171
 TS, 66
 UG, 31
 END,
 BP, 175
 TS, 70

LIST,
 BP, 172
 TS, 67
 UG, 31
 REMOVE,
 BP, 174
 TS, 70
 REVIEW,
 BP, 173
 TS, 68
 REW,
 BP, 174
 TS, 70
 SPE,
 BP, 174
 TS, 69
 SPF,
 BP, 174
 TS, 69
 TABS,
 BP, 175
 TS, 70
 WEOF,
 BP, 174
 TS, 69
 PCL, device types,
 BP, 159
 TS, 54
 PCL, disk pack default,
 BP, 160
 TS, 55
 PCL, error messages,
 BP, 176, 175
 TS, 71, 70
 PCL, file identification,
 BP, 160
 TS, 54
 PCL, mode option compatibility,
 BP, 161
 TS, 56
 PCL, organization types,
 BP, 159
 TS, 54
 PCL, resource type,
 BP, 161
 TS, 55
 PCL, scratch tapes,
 BP, 160
 TS, 55
 PCL, source and destination specification,
 BP, 159
 TS, 53
 PCL, specification examples,
 BP, 161
 TS, 56
 PCL, syntax conventions,
 BP, 158
 TS, 53
 PCL, termination of,
 BP, 175
 TS, 70

PCL, volume identification,
 BP, 160
 TS, 54

performance control,
 SM, 54

performance measurements,
 SM, 54

Peripheral Conversion Language (see PCL)

peripheral device (see device)

peripheral diagnostic facilities (see on-line peripheral diagnostic facilities)

PFIL control command,
 BP, 46

physical device,
 BP, 26, xi
 OP, viii
 SM, x
 SP, xii
 TS, x
 (see device)

physical page allocation for real-time,
 SP, 136

Physical Page Stealer (see PPS)

PICTURE command, TFD,
 TP, 77

PLATEN command, TEL,
 TS, 37, 38
 UG, 10

platen size, changing,
 TS, 37

platen size, displaying,
 TS, 38

PMD control command,
 BP, 148

PMDE control command,
 BP, 148

PMDI control command,
 BP, 148

point-to-point line,
 TP, xii

polling,
 TP, xii

POOL control command,
 BP, 31

position file,
 BP, 109

post-processing phase, TPC,
 TP, 89

postmortem dumps,
 BP, 146, xi

PPS,
 SP, 137

PPS, commands,
 DISPLAY,
 SP, 138

DYNRESDF,
 SP, 139

END,
 SP, 140

FREE,
 SP, 138

GET,
 SP, 138

RESDF,
 SP, 139

PRELOAD processor,
 TP, 124, 121, 125, 155

primitives, TFD, (see TFD primitives)

preventive maintenance,
 OP, 77
 SP, 199

PRINT command,
 ANLZ,
 SP, 44

BASIC,
 UG, 43

FILL,
 OP, 50

Fix,
 OP, 43

RATES,
 SM, 52

TEL,
 TS, 38
 UG, 91

priorities,
 System Queue Manager requests,
 TP, 135

user module,
 TP, 94

PRIORITY key-in,
 OP, 16

privileged instructions, executing,
 BP, 83

procedures,
 BP, 48, 11
 SP, 199, 195

exceptional condition control,
 BP, 54

file maintenance,
 BP, 87

file manipulation,
 BP, 109

general purpose,
 BP, 49

I/O,
 BP, 86

M:AND,
 BP, 152

M:BLIST,
 SP, 111

M:CAC,
 TS, 127

M:CHECK,
 BP, 103

M:CHECKECB,
 BP, 81

M:CHKINT,
 SP, 132

M:CLOCK,
 SP, 125

M:CLOSE,
 BP, 100
M:COC,
 BP, 136
M:CONNECT,
 SP, 120
M:COUNT,
 BP, 152
M:CT,
 TS, 124
M:CVM,
 BP, 66
M:CVOL,
 BP, 110
M:DCB,
 BP, 88, 87
M:DCLOSE,
 SP, 111
M:DDCB,
 SP, 109
M:DELREC,
 BP, 108
M:DEQ,
 BP, 70
M:DEVICE,
 BP, 112
 TS, 131
M:DISCONNECT,
 SP, 121
M:DISPLAY,
 BP, 80
M:DMOD#,
 SP, 113
M:DOPEN,
 SP, 110
M:DPART,
 SM, 112
M:DRET,
 SM, 113
M:ENQ,
 BP, 68
M:ERR,
 BP, 61, 84
 TS, 127
M:EXCP,
 SP, 133
M:EXIT,
 BP, 61, 84
 TS, 127
M:EXU,
 BP, 83
 SP, 129
M:FCP,
 BP, 65
M:FP,
 BP, 65
M:FPP,
 SP, 130
M:FVP,
 BP, 66

M:GCP,
 BP, 64
M:GDDL,
 BP, 64
M:GDG,
 SP, 131
M:GJOB,
 SP, 130
M:GJOBCON,
 SP, 120
M:GL,
 BP, 64
M:GP,
 BP, 65
M:GPP,
 SP, 130
M:GVP,
 BP, 65
M:HOLD,
 SP, 124
M:IF,
 BP, 150
M:INHIBIT,
 SP, 122
M:INT,
 BP, 57, 85
 TP, xi
 TS, 128
M:INTCON,
 SP, 122
M:INTRTN,
 SP, 123
M:INTSTAT,
 SP, 124
M:IOEX,
 SP, 127
M:JOB,
 BP, 111
M:KEYIN,
 BP, 52, 84
 TS, 128
M:LDEV,
 BP, 75
M:LDTRC,
 BP, 50
M:LINK,
 BP, 50
M:LOCK,
 SP, 113
M:MAP,
 SP, 113, 130
M:MASTER,
 BP, 81
 SP, 129
M:MERC,
 BP, 63
M:MESSAGE,
 BP, 52
M:MOVE,
 BP, 107

M:NEWQ,
 SP, 133
M:OPEN,
 BP, 93
M:OR,
 BP, 152
M:PC,
 TS, 124
M:PFIL,
 BP, 109
M:PRECORD,
 BP, 109
M:PRINT,
 BP, 53
M:PT,
 BP, 49
M:QFI,
 SP, 123
M:QUE,
 SP, 135
M:QUEUE,
 SP, 141
M:RAMR,
 BP, 78
M:RDG,
 SP, 131
M:READ,
 BP, 104
M:REW,
 BP, 110
M:RUE,
 SP, 131
M:SEGLD,
 BP, 49
M:SETDCB,
 BP, 102
 TS, 131
M:SIO,
 SP, 112
M:SLAVE,
 BP, 81
 SP, 129
M:SMPRT,
 BP, 66
M:SNAP,
 BP, 149
M:SNAPC,
 BP, 150
M:STARTIO,
 SP, 127
M:STIMER,
 BP, 56
M:STOPIO,
 SP, 125
M:STRAP,
 BP, 56
M:SYS,
 BP, 80
M:TFILE,
 BP, 103

M:TIME,
 BP, 51
M:TRAP,
 BP, 54
M:TRTN,
 BP, 62
M:TRUNC,
 BP, 108
M:TS,
 TS, 126
M:TTIMER,
 BP, 57, 56
M:TYPE,
 BP, 52, 84
 TS, 128
M:WAIT,
 BP, 53
M:WAMR,
 BP, 78
M:WEOF,
 BP, 111
M:WRITE,
 BP, 105
M:XCON,
 BP, 57
M:XXX,
 BP, 62, 84
 TS, 127
on-line and batch differences,
 BP, 84
real-time,
 SP, 119
special device,
 BP, 112
PROCEED command,
 Control,
 SM, 70
STATS,
 SM, 91
TEL,
 TS, 25
processing phase,
 Terminal Interface Controller,
 TP, 24
 TPC,
 TP, 87
processor control commands,
 BP, 158
processor management,
 SM, 19
 SP, 18
processor name control command,
 BP, 158
processors,
 application,
 BP, 7
 SM, 11
 SP, 10
 auto-call,
 SM, ix, 23

calling on-line,
 TS, 25
 command,
 BP, 3
 SM, 4
 SP, 3
 execution control,
 BP, 5
 SM, 9
 SP, 8
 interrupting and resuming, on-line,
 TS, 25
 UG, 76
 language,
 BP, 4
 SM, 6
 SP, 5
 TS, 45
 UG, 36
 service,
 BP, 6
 SM, 10
 SP, 9
 shared processor facilities,
 SP, 87
 system management,
 SM, 5
 SP, 4
 user,
 BP, 8
 SM, 13
 SP, 87, 13
:PROCS file,
 SM, 24
program context,
 BP, 120
program decks, samples,
 BP, 155
program load and execution,
 BP, 118
program product,
 BP, xi
 SM, x
 SP, xii
 TS, x
prompt character,
 SM, x
 SP, xii
 TS, 9, x
prompt character, setting,
 TS, 124
protective mode,
 BP, 24, xi
 OP, viii
 SM, x
 SP, xii
protocol,
 RP, vii
PSECT directive,
 SP, 108, 130

pseudo file name,
 BP, xi
PTREE control command,
 BP, 128
public library,
 BP, 120, xii, 81, 131
 SM, x
 SP, 98, xii
 TS, x
public library, associate or disassociate,
 BP, 81
public programs,
 SP, 87
pure procedure,
 BP, 120
PURGE command, FILL,
 OP, 50, 52
purge operation,
 OP, 49

Q

QPREP Processor,
 TP, 124, 121, 155
QREMAKE Processor,
 TP, 123, 121, 125, 154
QUEUE command, TP Ghost,
 TP, 135
queue message,
 report,
 TP, xii, 23
 transaction,
 TP, xii, 23
queue, transaction,
 TP, 129, 3, 4
 backup,
 TP, 135, 136
 file definition,
 TP, 137
 invalid,
 TP, 123
 pages for,
 TP, 135
 QUEUE command,
 TP, 135, 129, 131
reconstruction,
 TP, 123
saturation threshold,
 TP, 135, 136
 valid,
 TP, 121
Queuedump record,
 TP, 115, 123, 189
queuing,
 Terminal Interface Controller,
 TP, 27, 58
 TPC,
 TP, 89

queuing flags,
 common journal records,
 TP, 182, 184, 186, 188, 190
 FAILURE subroutine,
 TP, 94
 OUTATRAN subroutine,
 TP, 97
 X primitive,
 TP, 58
 QUIT command,
 Control,
 SM, 70
 FILL,
 OP, 49
 TEL,
 TS, 25
 UG, 78

R

R command, Edit,
 TS, 85
 ;R command, Delta,
 TS, 107
 RAD,
 BP, 23, xii, 2
 RAD error procedures,
 OP, 29
 random files,
 BP, 18
 rapid access data storage system, (see RAD)
 :RATE file,
 SM, 45, 51
 RATES,
 SM, 44, 5
 SP, 4
 RATES, command summary,
 SM, 53, 52
 RATES, commands,
 SM, 50
 BUILD,
 SM, 50
 END,
 SM, 52
 PRINT,
 SM, 52
 RATES, error messages,
 SM, 53, 52
 RBABORT control command,
 RP, 15
 RBALIGN control command,
 RP, 15
 RBBDCST key-in,
 OP, 17
 RP, 21
 RBCC (see remote processing control commands)
 RBCOM key-in,
 RP, 21

RBCONTINUE control command,
 RP, 15
 RBCTL control command,
 RP, 16
 RBDELETE control command,
 RP, 14
 RBDEV control command,
 RP, 13
 RBDISC control command,
 RP, 13
 RBDISC key-in,
 OP, 9
 RP, 21
 RBFORM control command,
 RP, 16
 RBHOLD control command,
 RP, 14
 RBID control command,
 RP, 13
 RBINFO control command,
 RP, 13
 RBLOCK control command,
 RP, 15
 :RBLOG file,
 SM, 24
 RBLOG key-in,
 OP, 9
 RP, 21
 RBMSG control command,
 RP, 13
 RBPRIO control command,
 RP, 13
 RBREPRINT control command,
 RP, 15
 RBRETRIEVE control command,
 RP, 14
 RBS key-in,
 OP, 9
 RP, 21
 RBSAVE control command,
 RP, 15
 RBSEND key-in,
 OP, 17
 RP, 21
 RBSIZE control command,
 RP, 16
 RBSTATUS control command,
 RP, 14
 RBSUSPEND control command,
 RP, 15
 RBSWITCH control command,
 RP, 14
 RBSWITCH key-in,
 OP, 18
 RP, 22
 RBT,
 RP, 1, 2, 11, 12
 operation of,
 RP, 37, 39

RBUNLOCK control command,
 RP, 16

RBX key-in,
 OP, 9
 RP, 22

RBXXX control command,
 RP, 13

read error log,
 SP, 189

READ key-in,
 OP, 33

read operations, COC,
 TS, 129

real-time facilities,
 SP, 119

 clock service,
 SP, 125

 device preemption services,
 SP, 125

 direct I/O services,
 SP, 127

 dynamic physical page allocation,
 SP, 136

 interrupt connection and control services,
 SP, 119

 lock in core service,
 SP, 124

 miscellaneous services,
 SP, 130

real-time processing,
 BP, 2
 SM, 2
 TS, 6

reconfiguration and partitioning commands,
 SP, 26

 :END,
 SP, 28

 :GO,
 SP, 26

 :PART,
 SP, 28

 :REMOVE,
 SP, 27

 :SAVE,
 SP, 27

 :TYPE,
 SP, 27

reconfiguration and partitioning commands summary,
 SP, 28

reconfiguration and partitioning messages,
 SP, 30, 28

reconstruction (see HGP reconstruction)

record, deleting,
 BP, 108

record, manipulation,
 BP, 104

record, reading,
 BP, 104

 record, size,
 changing, (M:DEVICE),
 BP, 115

 restrictions for remote processing,
 RP, 11

 record, writing,
 BP, 105

records, copying all,
 BP, 107

records, formatted,
 BP, 26

records, positioning,
 BP, 109

recovering with HGP reconstruction,
 OP, 73

recovery,
 OP, 38

 SM, 19, 20

 SP, 20, 21

recovery, operator initiated,
 OP, 39, 73

recovery, transaction processing,
 TP, 118, xii, 150

 example,
 TP, 153

 files,
 TP, 121

 functional description,
 TP, 121

 jobs,
 TP, 125, 154

 vs. journalization,
 TP, 118

 messages,
 TP, 156

 procedure,
 TP, 151

 processors,
 TP, 121

 standard,
 TP, 123, 11

reentrant,
 BP, xii

 SM, x

 SP, xii

 TS, x

registers,
 dedicated,
 TP, 196

 preinitialized,
 TP, 193

REGULATE command,
 Terminal Interface Controller,
 TP, 145

 TPC,
 TP, 148

regulation,
 station,
 TP, 145

user module,
 TP, 148

relative allocation,
 BP, xii
 SM, x
 SP, xii
 TS, x
 RELEASE command, TP Ghost,
 TP, 136
 release resource CAL,
 BP, 80
 relocatable object module (ROM),
 BP, xii
 SM, x
 SP, xii
 TS, x
 relocating loader,
 BP, xii
 Remote Assist Station (see remote diagnostic assistance)
 Remote Batch Terminal (see RBT)
 remote control commands,
 RP, 13, vii
 remote diagnostic assistance,
 OP, 103
 SM, 20
 SP, 165, 22
 remote operator,
 RP, 13
 remote processing,
 BP, 2, xiii
 OP, 7
 RP, 1
 SM, 2, x, 30
 SP, 2, xiii
 TS, 6
 automatic log-on,
 OP, 9
 connecting a terminal,
 OP, 7
 RP, 35
 control commands,
 RP, 13, vii
 (see control commands)
 controlling the number of users,
 OP, 9
 establishing at SYSGEN,
 RP, 23
 SM, 126
 hardware,
 RP, 2
 messages,
 RP, 17
 modes,
 RP, 2
 remote site,
 RP, vii
 remote stations,
 TP, 24
 remote terminals,
 RP, 1
 remote user,
 RP, 5, vii
 removable storage handling,
 OP, 19
 REMOVE command,
 Fix,
 OP, 42
 PCL,
 BP, 174
 TS, 70
 Super,
 SM, 29
 :REMOVE command (boot-time),
 SP, 27
 RENUMBER command, BASIC,
 UG, 41
 REPLACE command,
 DRSP,
 SP, 103
 TFD,
 TP, 79
 REPLACE command, TFD,
 TP, 79
 report,
 TP, xii, 2
 creation,
 TP, 96, 27
 delivery,
 TP, 43
 formats,
 TP, 47, 23
 formatting,
 TP, 29
 journalization,
 TP, 114, 27, 29, 89
 queuing,
 TP, 27, 89
 routing,
 TP, 28
 report collection mode,
 TP, 13, 120
 Report Delivery File,
 TP, 69, 20, xii
 Report Delivery Processor,
 TP, 69, xii, 18
 Report Delivery Processor, command summary,
 TP, 69
 Report Delivery Processor, commands,
 ADD,
 TP, 71
 DELETE,
 TP, 71
 INSERT,
 TP, 71
 LIST,
 TP, 72
 MATCH,
 TP, 72
 SUBTRACT,
 TP, 72
 Report Delivery Processor, example,
 TP, 70

Report Delivery Processor, files,
 TP, 69
 Report Delivery Processor, messages,
 TP, 73
 report names,
 TP, 43, xii, 20, 23
 Report Program Generator,
 BP, 5
 report queue message,
 TP, 23, xii
 Report record,
 TP, 114, 190
 report text,
 TP, 23, xii, 96
 reportcode,
 TP, 23, xii, 22
 REQUEST key-in,
 OP, 22, 26
 RERUN clause, COBOL,
 TP, 91
 :RES command, PASS2,
 SM, 130
 RESDF command, PPS,
 SP, 139
 RESDF memory CAL,
 SP, 140
 RESET command, TEL,
 TS, 27
 UG, 86
 resident program,
 BP, xii
 SM, x
 SP, xii
 TS, x
 resource attributes,
 SM, 65
 resource management,
 SM, 22
 resource partitioning, (see partitioning)
 response time,
 BP, xii
 SM, x
 SP, xii
 RESTART command, FILL,
 OP, 50
 restarting the system,
 OP, 77
 RESTORE command, TEL,
 TS, 26
 restoring files,
 OP, 40
 SM, 117
 RETURN command,
 Delta,
 TS, 99
 SYSCON,
 OP, 35
 SM, 110
 RETURN statement, FORTRAN,
 TP, 91, 93

returning resources,
 OP, 33
 SM, 109
 REVIEW command, PCL,
 BP, 173
 TS, 68
 REW command, PCL,
 BP, 174
 TS, 70
 REW control command,
 BP, 44
 rewind,
 BP, 110, 46
 RF command, Edit,
 TS, 87
 ;RK command, Delta,
 TS, 107
 RN command, Edit,
 TS, 83
 rollback, database,
 TP, 124, 85, 89
 ROM,
 BP, xii
 SM, x
 SP, xii
 TS, x
 ROWS command, ANLZ,
 SP, 44
 RPG,
 BP, 5
 RSET command, ELLA,
 SP, 76
 rubout character, terminals,
 TS, 10
 UG, 9
 RUN command,
 ANLZ,
 SP, 40
 BASIC,
 UG, 37
 Link (and TEL),
 BP, 119
 TS, 118, 23
 UG, 57, 112
 RUN control command,
 Link,
 BP, 119
 Load,
 BP, 129

S

S command, Edit,
 TS, 84
 UG, 26
 ;S command, Delta,
 TS, 100
 S key-in,
 OP, 13

SAVE CAL,
 BP, 80
 SAVE command,
 BASIC,
 UG, 38
 TEL,
 TS, 26
 UG, 92
 :SAVE command (boot-time),
 SP, 27
 saving files,
 OP, 40
 SM, 117
 saving the contents of a device (see DEVDMP)
 scheduler,
 BP, xii
 SM, x
 SP, xii
 (see Multi-Batch Scheduler)
 scheduler inputs,
 SM, 15
 SP, 14
 scheduler operation,
 SM, 17
 SP, 15
 scheduler output,
 SM, 16
 SP, 15
 scheduler status queues,
 SM, 17
 SP, 16
 scheduling,
 SM, 64, 15
 SP, 13
 schema, EDMS,
 TP, 114
 SCRATCH key-in,
 OP, 25
 screech codes,
 SP, 149
 (see software check codes)
 :SDEVICE command, PASS2,
 RP, 23
 SM, 128
 SE command, Edit,
 TS, 83
 UG, 26
 SEARCH command, ANLZ,
 SP, 44
 secondary storage,
 BP, 2, xii
 SM, x
 SP, xii
 TS, x
 segment loader,
 BP, xii
 SEL:FIL file,
 OP, 48

selection algorithms,
 report TFDs,
 TP, 28
 transaction TFDs,
 TP, 25, 27
 semi-protective mode,
 BP, 24, xii
 OP, viii
 SM, x
 SP, xii
 SEND key-in,
 OP, 17
 sense switch assignment,
 OP, 18
 sequence number, TFD,
 TP, 59, 22, 23, 47
 sequencing, specifying, (M:DEVICE),
 BP, 117
 sequential access of files,
 BP, 19
 service processors,
 BP, 6
 SM, 10
 SP, 9
 services, system,
 SM, 27
 session time,
 SM, xi
 SET command,
 ELLA,
 SP, 61
 FILL,
 OP, 50
 TEL,
 TS, 27
 UG, 85, 82, 109
 TP Ghost,
 TP, 137
 sets, EDMS,
 TP, 5
 shared file use,
 SP, 95
 shared processor,
 BP, xii
 SM, xi
 SP, xii
 TS, x
 shared processor facilities,
 SP, 87
 shared processor maintenance,
 SP, 102
 shared processor programming,
 SP, 88
 shared processors, standard,
 SM, 138
 shared programs,
 SP, 87
 short block control character,
 RP, vii

SHOW command,
 TS, 34
 Show processor,
 BP, 184, 7
 SM, 11
 shutdown of the system,
 OP, 77
 shutdown, transaction processing,
 load module,
 TP, 90
 system,
 TP, 132
 Terminal Interface Controller,
 TP, 145, 29, 133
 TP Ghost,
 TP, 132, 130, 133
 user module,
 TP, 90
 siding,
 SM, xi
 Sigma 6 CPU control panel,
 OP, 1
 Simulation Language (see SL-1)
 Simulator, TPC, (see TPC Simulator)
 simultaneous file usage,
 BP, 20
 single user abort,
 OP, 39
 SL-1,
 BP, 5
 SM, 9
 SP, 8
 TS, 5
 slave mode, entering,
 BP, 81
 slave system,
 RP, 2
 SLIS command, ELLA,
 SP, 71
 SMASK command, ANLZ,
 SP, 44
 SNAP command, Fix,
 OP, 42
 SNAP control command,
 BP, 149
 SNAPC control command,
 BP, 150
 snapshot dumps,
 BP, 148
 software check codes,
 OP, 91
 (see screech codes)
 SORT feature, COBOL,
 TP, 91
 Sort/Merge,
 BP, 7
 SM, 11
 SP, 10
 source language,
 BP, xii
 SM, xi
 SP, xii
 TS, x
 source program,
 UG, 15
 spawned transactions,
 TP, 96, xii, 13
 SPE command, PCL,
 BP, 174
 TS, 69
 special shared processor,
 BP, xii
 SM, xi
 SP, xii
 TS, x
 specific allocation,
 BP, xii
 SM, xi
 SP, xii
 TS, x
 SPF command, PCL,
 BP, 174
 TS, 69
 :SPROCS command, PASS2,
 SM, 137
 SR1, SR2, SR3 and SR4 (see system register)
 SS command, Edit,
 TS, 83
 SS key-in,
 OP, 7
 ST command, Edit,
 TS, 83
 stand-alone program,
 OP, viii
 star file,
 BP, xii
 START command, TEL,
 TS, 23
 UG, 59
 START key-in,
 OP, 13
 start-up,
 BP, 9
 OP, 5
 SP, 23
 TP, 129
 static core module,
 BP, xii
 SM, xi
 SP, xiii
 TS, x
 station,
 TP, xii
 station IDs,
 TP, 30, xii, 19
 station names,
 TP, 31, xii, 19

Station Names File,
 TP, 63, xii, 17
 Station Names Processor,
 TP, 63, xii, 17, 18
 Station Names Processor, command summary,
 TP, 63
 Station Names Processor, commands,
 ADD,
 TP, 64
 DELETE,
 TP, 65
 INSERT,
 TP, 65, 66
 LIST,
 TP, 66
 SUBTRACT,
 TP, 67
 Station Names Processor, example,
 TP, 64
 Station Names Processor, files,
 TP, 63
 Station Names Processor, messages,
 TP, 67
 station type,
 TP, 19, xiii, 31, 80
 station, user, (see user station)
 STATS,
 SM, 75, 6, 54
 SP, 5
 STATS, command summary,
 SM, 94, 92
 STATS, commands,
 ADD,
 SM, 90
 BREAK,
 SM, 91
 BUILD,
 SM, 90
 comments in,
 SM, 89
 CONTROL!,
 SM, 91
 DISPLAY,
 SM, 91
 DROP,
 SM, 90
 END,
 SM, 92
 FILE,
 SM, 91
 HELP,
 SM, 89
 LIST,
 SM, 90
 PROCEED,
 SM, 91
 TIME,
 SM, 91
 STATS, DCB usage,
 SM, 75
 STATS, displays,
 BATCH,
 SM, 83
 CPU,
 SM, 82
 I/O,
 SM, 85
 ON-LINE,
 SM, 84
 PARAM,
 SM, 79
 PROC,
 SM, 88
 QUEUE,
 SM, 86
 SUMMARY,
 SM, 81
 SWAP,
 SM, 89
 SYSTEM,
 SM, 87
 TASK,
 SM, 86
 USERS,
 SM, 84
 STATS, error messages,
 SM, 93, 92
 STATS, flags,
 SM, 76, 77
 STATS, key concepts,
 SM, 76
 STATS, report format control,
 SM, 76
 STATS, sample sessions,
 SM, 92
 STATUS command,
 BASIC,
 UG, 39
 FILL,
 OP, 50
 TEL,
 TS, 34
 !STATUS command,
 TP, 41, 39
 status queues,
 SM, 17
 SP, 15
 status, determining on-line,
 TS, 34
 STEP control command,
 BP, 31
 STNUTL processor,
 TP, 64
 STOP statements, COBOL and FORTRAN,
 TP, 91
 storage devices,
 BP, 22
 (see disk)
 (see disk pack)
 (see RAD)
 (see tape)

STORE command, Control,
 SM, 67
 stream-id,
 SM, xi
 SP, xiii
 TS, x
 (see logical device stream)
 subroutines,
 Terminal Interface Controller,
 TP, 195, 198
 TPC,
 TP, 93
 SUBTRACT command,
 Report Delivery Processor,
 TP, 72
 Station Names Processor,
 TP, 67
 SUM command, ELLA,
 SP, 75
 Summary (processor),
 SM, 96, 6, 54
 SP, 5
 Summary, chronological summaries,
 SM, 99
 Summary, commands,
 HELP,
 SM, 97
 LIST,
 SM, 97
 Summary, correlation analysis,
 SM, 102
 Summary, DCB usage,
 SM, 96
 Summary, error messages,
 SM, 106
 Summary, interaction with,
 SM, 99
 Summary, interactive questions and statements,
 SM, 106, 107
 Summary, sample sessions,
 SM, 105
 Summary, sort filter specification,
 SM, 101
 Summary, sorted averages,
 SM, 102
 Summary, sorted summaries,
 SM, 101
 Summary, tasks performed,
 SM, 99
 Super (processor),
 RP, 24
 SM, 24, 5, 22
 SP, 4
 Super, batch operation,
 SM, 36
 Super, command summary,
 SM, 41, 38
 Super, commands,
 CREATE,
 SM, 24
 DEFAULT,
 SM, 28
 END,
 SM, 36
 FAST,
 SM, 30
 LIST,
 SM, 28
 MODIFY,
 SM, 28
 P,
 SM, 30
 REMOVE,
 SM, 29
 WORKSTATION,
 RP, 24
 SM, 30
 X,
 RP, 34
 SM, 36
 Super, error messages,
 SM, 38
 Super, ghost operation,
 SM, 38
 SUSPEND command, FILL,
 OP, 50
 suspended program,
 BP, 53
 suspended file,
 RP, vii
 swap hardware organization,
 SM, 18
 SP, 17
 swap-in, swap-out queues,
 SM, 18
 SP, 17
 SWITCH control command,
 BP, 46
 symbiont,
 BP, 250, xii
 OP, viii
 RP, vii
 SM, xi
 SP, xiii
 TS, x
 starting,
 OP, 13, 7
 symbiont control key-in,
 OP, 13, 7
 symbiont error messages,
 OP, 15
 symbiont file, inserting or deleting,
 BP, 111
 symbiont files,
 OP, 38, viii
 symbiont files, control of,
 OP, 16
 symbiont retry point,
 RP, vii
 Symbol Control Processor (see SYMCON)

symbol tables,
 global,
 BP, 121
 internal,
 BP, 121
 TS, 21
 load module,
 TS, 21
 symbol-code correspondences,
 BP, 242
 SP, 205
 TS, 138
 symbolic input,
 BP, xii
 SM, xi
 SP, xiii
 TS, x
 symbolic name,
 BP, xii
 SM, xi
 SP, xiii
 TS, x
 SYMBOLS command, ANLZ,
 SP, 45
 SYMBOL/ command, ANLZ,
 SP, 45
 symbols (symbolic identifiers),
 BP, 121
 TS, 115
 symbols, graphic,
 BP, 239
 SP, 202
 TS, 135
 SYMCON,
 BP, 185, 7
 SM, 11
 SP, 10
 SYMCON, commands,
 BUILD,
 BP, 187
 CHANGE,
 BP, 187
 DELETE,
 BP, 186
 DISCARD,
 BP, 187
 END,
 BP, 187
 KEEP,
 BP, 186
 LIST,
 BP, 186
 SYMCON, error messages,
 BP, 187
 Syndd key-in,
 OP, 13, 7
 synonymous files,
 BP, 26

SYSCON (processor),
 OP, 33
 SM, 109, 6
 SP, 5
 SYSCON, commands,
 OP, 34
 SM, 109
 DISPLAY,
 OP, 34
 SM, 110
 END,
 OP, 36
 SM, 112
 MODNUM,
 SM, 111
 PARTITION,
 OP, 35
 SM, 110
 RETURN,
 OP, 35
 SM, 110
 SYSCON, messages,
 OP, 36
 SM, 113
 SYSCON, procedures,
 M:DPART,
 SM, 112
 M:DRET,
 SM, 113
 SYSCON, sample session,
 OP, 36
 SM, 112
 SYSGEN,
 BP, xii
 OP, viii
 RP, 23
 SM, 120, xi, 10, 22, 23
 SP, 9, xiii
 TS, x
 (see DEF processor)
 (see LOCCT)
 (see PASS2)
 (see PASS3)
 command formats,
 SM, 122
 examples,
 SM, 160
 on-line,
 SM, 160
 overview,
 SM, 121
 PCL,
 SM, 122
 target system parameters,
 SM, 121
 sysid,
 RP, vii
 SYSTEM BPM,
 BP, 48
 system control commands (see control commands)

system controls, operator,
OP, 10
SYSTEM DIAG,
SP, 109
system error log file (see ERRFILE)
system files,
OP, 38,viii
system generation (see SYSGEN)
system integrity,
SM, 19
SP, 19
system library,
BP, 121,xii
SM, xi
SP, xiii
TS, x
system load parameters, listing,
BP, 80
TS, 34
system loading,
OP, 5
SP, 23
system management facilities,
SM, 2
system management processors,
SM, 5
SP, 4
system performance control,
SM, 54
system programming facilities,
SP, 2
System Queue Manager,
TP, 135,xiii,4
variations in usage,
TP, 11
system register,
BP, xii
SM, xi
SP, xiii
TS, x
SYSTEM RTPROCS,
SP, 119
system services,
SM, 27
SYSTEM SIG7,
BP, 48
SP, 109
SYSTEM SIG9,
BP, 48
SP, 109
system start-up and initialization,
BP, 9
OP, 5
SP, 23
system tape format,
SM, 123
SP, 23,24
Syyndd key-in,
OP, 13

T

T key-in,
OP, 17
;T command, Delta,
TS, 102
T:LOGON routine,
TP, 193,33
T:MYPRIM routine,
TP, 196,48
TA command, Edit,
TS, 78
TAB command, Delta,
TS, 98,99
tab relative mode,
TS, 11
tab stops,
TS, 11,34,35,133
UG, 13
tab stops (M:DEVICE),
BP, 112
TS, 131
TABLE record, M:SI File,
TP, 80
TABS command,
PCL,
BP, 175
TS, 70
TEL,
TS, 34,35
UG, 13
tape,
OP, 22
(see ANS labeled tape)
(see Xerox labeled tape)
AVR sequence,
OP, 24
backup,
OP, 46,viii
drives, redialing,
OP, 24
error procedures,
OP, 31
handling,
OP, 26,24
INCREMENTAL,
OP, 46
labeled,
BP, 24
master system,
SM, 123
SP, 23,24
mounting rules,
OP, 26
positioning (M:CLOSE),
BP, 101
SAVEALL,
OP, 46

saving files on,
 UG, 96
 (see PCL)
 SQUIRREL,
 OP, 46
 types of,
 BP, 24
 OP, 23
 updating (M:CLOSE),
 BP, 101
 task control block (TCB)
 BP, 136, xii, 54
 SM, xi
 SP, xiii
 TS, x
 task descriptions, operator,
 OP, 70
 task turnaround time,
 SM, xi
 TC command, Edit,
 TS, 81
 TCB (see task control block)
 TEL,
 BP, 4
 SM, 5
 SP, 4
 TS, 17, 1
 UG, 1
 TEL, calling other processors,
 TS, 25
 TEL, command summary,
 TS, 40, 38
 UG, 103
 TEL, commands,
 BACKUP,
 TS, 24
 UG, 95
 BATCH,
 TS, 24
 UG, 99
 BUILD,
 TS, 18
 UG, 18, 29
 BYE,
 TS, 26
 CANCEL,
 TS, 25
 UG, 100
 COBOL,
 TS, 18, 50
 UG, 49
 COMMENT,
 TS, 19
 UG, 83, 89
 CONTINUE,
 TS, 25
 UG, 78, 92
 COPY,
 TS, 24, 57
 DELETE,
 TS, 24, 66
 DELTA,
 TS, 23
 DISPLAY,
 TS, 34
 DONT COMMENT,
 TS, 19
 UG, 89
 DONT LIST,
 TS, 19
 UG, 89
 DONT OUTPUT,
 TS, 19
 UG, 89
 EDIT,
 TS, 18
 UG, 17, 29
 EXTEND,
 TS, 33
 FORT4,
 TS, 18, 47
 UG, 45
 GET,
 TS, 26
 UG, 92
 GO,
 TS, 25
 UG, 92
 JOB,
 RP, 10
 TS, 25
 UG, 100
 L,
 TS, 34, 24
 LDEV,
 RP, 5
 TS, 31
 LINK,
 TS, 20, 118
 UG, 58, 112
 LIST,
 TS, 19
 UG, 83, 89
 lmn,
 TS, 22
 UG, 72
 MESSAGE,
 TS, 38
 UG, 101
 META,
 TS, 18, 45
 UG, 51
 OFF,
 TS, 26, 8
 UG, 5
 OUTPUT,
 TS, 19
 UG, 83, 89

PASSWORD,
 TS, 26
 UG, 6

PLATEN,
 TS, 37,38
 UG, 10

PRINT,
 TS, 38
 UG, 91

PROCEED,
 TS, 25

QUIT,
 TS, 25
 UG, 78

RESET,
 TS, 27
 UG, 86

RESTORE,
 TS, 26

RUN,
 TS, 23,118
 UG, 57,112

SAVE,
 TS, 26
 UG, 92

SET,
 TS, 27
 UG, 85,82,109

SHOW,
 TS, 34

START,
 TS, 23
 UG, 59

STATUS,
 TS, 34

TABS,
 TS, 34,35
 UG, 13

TERMINAL,
 TS, 35
 UG, 10

TERMINAL STATUS,
 TS, 35

U,
 TS, 23

TEL, error messages,
 TS, 38

TEL scan,
 SP, 92

telephone lines, connecting remote sites,
 OP, 7
 RP, 35

Teletype keyboard,
 UG, 3

temporary file, declaring,
 BP, 103

TERMINAL command, TEL,
 TS, 35
 UG, 10

Terminal Executive Language (see TEL)

terminal header page number, changing,
 TS, 38

terminal I/O,
 SP, 93

terminal interaction concepts,
 SM, 77

Terminal Interface Controller (see TIC)

terminal keys, special,
 TS, 9
 UG, 113

terminal modes, CAL control of,
 TS, 124

terminal operations,
 TS, 7
 UG, 9

terminal platen size, changing,
 TS, 37

terminal platen size, displaying,
 TS, 38

TERMINAL STATUS command, TEL,
 TS, 35

terminal status, obtaining,
 TS, 35,126

terminal type, changing,
 TS, 35,124

terminal usage,
 BREAK key,
 TS, 12
 UG, 76
 cancelling input,
 TS, 10
 UG, 9
 cancelling output,
 TS, 10
 character echoing,
 TS, 9
 UG, 5
 controlling output,
 UG, 89
 dialing the computer,
 UG, 4
 direct printing mode,
 TS, 9
 echo mode,
 TS, 9
 entering multiline records,
 TS, 10,75
 UG, 25
 erasing characters,
 TS, 10
 UG, 9
 erasing the current input line,
 TS, 10
 UG, 9
 half-duplex paper tape reading mode,
 TS, 13
 indirect printing mode,
 TS, 9
 inserting spaces,
 TS, 11

lineation,
 TS, 10
 lower case input,
 TS, 11
 no-echo mode,
 TS, 9
 page width and length, changing,
 TS, 37
 UG, 10
 pagination,
 TS, 10
 paper tape input,
 TS, 12
 retying the current line,
 TS, 10
 suppressing printing,
 TS, 9
 UG, 5
 terminating lines,
 TS, 10
 typing ahead,
 TS, 10
 typing commands,
 TS, 11
 typing lines,
 TS, 9
 upper case input,
 TS, 11
 terminals, types of,
 TP, 13
 TS, 36, 7
 text,
 report,
 TP, 23, xii, 96
 transaction,
 TP, 25, xiv, 23
 TEXT format,
 BP, xiii
 TEXTC format,
 BP, xiii
 TP, xiii
 TFD, chained,
 TP, 59, 22, 50, 53
 TFD File,
 TP, 74, xiii, 18, 21, 22
 TFD key,
 TP, 22, 23, 47, 76
 TFD primitives,
 TP, 47, xiii, 22
 @,
 TP, 54, 48
 #,
 TP, 57, 48
 A-M,
 TP, 55, 48
 P,
 TP, 58, 48
 X,
 TP, 58, 48

Y,
 TP, 58, 48
 Z,
 TP, 59, 48
 TFD processing,
 TP, 48, 194
 TFD Processor,
 TP, 74, xiii, 18, 21
 commands,
 TP, 74, 76
 example,
 TP, 75
 files,
 TP, 74
 messages,
 TP, 79
 TFD selection,
 TP, 25, 27
 TFD sequence number,
 TP, 59, 22, 23, 47
 TFDs,
 TP, 47, xiii, 19, 21, 22
 primitives,
 TP, 47, 22
 TFD keys,
 TP, 47, 22, 23
 TFDUTL processor,
 TP, 74
 thinking and typing time,
 SM, xi
 TIC (processor),
 TP, 17, xiii, 4
 TIC, command level,
 TP, 38, 25
 TIC, command summaries,
 TP, 39, 140
 TIC, commands, operator,
 TP, 140
 ACQUIRE,
 TP, 142
 DISPLAY,
 TP, 143
 FREE,
 TP, 143
 MESSAGE,
 TP, 144
 NET,
 TP, 144
 REGULATE,
 TP, 145
 X,
 TP, 145

TIC, commands, station,
 TP, 38
 !DMODE,
 TP, 39
 !ECHO,
 TP, 40
 !LOGOFF,
 TP, 40

!LOGON,
 TP, 40
 !STATUS,
 TP, 41
 TIC, comprehensive description,
 TP, 17
 TIC, initialization phase,
 TP, 22, 24
 TIC, job execution,
 TP, 22
 TIC, journalization,
 TP, 58, 27, 29
 TIC, messages, operator,
 TP, 156
 TIC, messages, station,
 TP, 42
 TIC, processing phase,
 TP, 24
 TIC, queuing,
 TP, 58, 27
 TIC, report delivery,
 TP, 43
 TIC, station logon,
 TP, 24
 TIC, subroutines,
 TP, 195, 198
 TIC, termination phase,
 TP, 29
 TIC, TFD selection,
 TP, 25, 27, 28
 TIC, transaction entry,
 TP, 25
 TIC, transaction ID assignment,
 TP, 25
 TIC laborer,
 TP, 194
 TIME command,
 Control,
 SM, 70
 ELLA,
 SP, 77
 STATS,
 SM, 91
 TIME key-in,
 OP, 17
 time, obtaining,
 BP, 51
 time-sharing,
 BP, 2
 SM, 1
 SP, 1
 TS, 1
 timer, setting,
 BP, 56
 timer, testing,
 BP, 57
 timing algorithms for on-line terminals,
 SM, 135
 TS, 36
 TITLE control command,
 BP, 32
 TO modifier,
 UG, 16
 top of form, skipping to (M:DEVICE),
 BP, 113
 TP,
 TP, xiii
 TP Ghost,
 TP, 129, xii
 TP Ghost, command summary,
 TP, 129
 TP Ghost, commands,
 CLOSE,
 TP, 133
 DELETE,
 TP, 133
 END,
 TP, 134
 GO,
 TP, 134
 LIST,
 TP, 134
 OPEN,
 TP, 135
 QUEUE,
 TP, 135
 RELEASE,
 TP, 136
 SET,
 TP, 137
 VOLUME,
 TP, 137
 X,
 TP, 138
 TP Ghost, files,
 TP, 129
 TP Ghost, functions,
 TP, 129, 4, 5
 TP Ghost, interruptions,
 TP, 131
 TP Ghost, messages,
 TP, 156
 TP Ghost, start-up,
 TP, 130
 TP Ghost, termination,
 TP, 132
 TP Ghost End record,
 TP, 115, 191
 TPAFTER file,
 TP, 123, 124
 TPC,
 TP, 85, xiv, 5
 abnormal processing,
 TP, 88
 Abnormality Handler,
 TP, 88
 commands, operator,
 TP, 148, 149

comprehensive description,
 TP, 85
 database initialization,
 TP, 87
 database rollback,
 TP, 89, 85
 initialization phase,
 TP, 85
 job,
 TP, 105
 journalization,
 TP, 89
 load module initialization,
 TP, 85
 load module shutdown,
 TP, 90
 main program,
 TP, 85
 messages, operator,
 TP, 156
 normal processing,
 TP, 87
 post-processing phase,
 TP, 89
 processing phase,
 TP, 87
 queuing,
 TP, 89
 simulator,
 TP, 107
 subroutines,
 TP, 93, 85
 termination,
 TP, 149, 133
 time interval,
 TP, 87
 transaction ID assignment,
 TP, 89
 transient journal,
 TP, 87, 90
 user module initialization,
 TP, 87
 user module shutdown,
 TP, 90
 TPC Simulator,
 TP, 107, xiii
 examples,
 TP, 108
 messages,
 TP, 109
 name and text records,
 TP, 109
 TPC subroutine,
 TP, 98, 93
 TPC subroutines,
 TP, 93
 TPFILES file,
 TP, 129
 TPIPLIST file,
 TP, 121

TPMSn entry points,
 TP, 85, 92
 TPMXnn entry points,
 TP, 85, 92
 TPQUEUE file,
 TP, 130
 trancode,
 TP, 25, xiii, 23
 transaction
 entry,
 TP, 25
 formats,
 TP, 47, 23
 journalization,
 TP, 58, 27, 114, 119
 queuing,
 TP, 58, 27, 119
 request list,
 TP, 94
 transaction,
 TP, xiii
 failed,
 TP, 93, 88, 120, 188
 originating,
 TP, 97, 114
 spawned,
 TP, 96, 13, 114
 successful,
 TP, 89, 115, 188
 transaction format descriptors (see TFDs)
 transaction ID,
 TP, 25, xiii, 23
 primitive to display,
 TP, 58
 Terminal Interface Controller assignment,
 TP, 25
 TP Ghost initialization,
 TP, 130
 TPC assignment,
 TP, 89
 transaction name,
 TP, 25, xiii, 23
 transaction processing,
 BP, 3
 RP, 1
 SM, 2
 SP, 2
 TP, xiii
 TS, 6
 transaction processing applications,
 TP, 2, 8
 hospital administration,
 TP, 2
 inventory,
 TP, 26, 50, 53, 101
 law,
 TP, 2
 manufacturing,
 TP, 8

merchandising,
 TP, 2
 payroll,
 TP, 49, 99, 107
 real estate,
 TP, 2
 securities,
 TP, 2

Transaction Processing Controller (see TPC)

transaction processing facilities,
 SP, 141
 list formats,
 SP, 143
 M:QUEUE FPTs,
 SP, 142
 M:QUEUE procedure format,
 SP, 141
 M:QUEUE procedure output,
 SP, 144

transaction processing hardware configuration,
 TP, 13

Transaction Processing Load Module (TPLM),
 TP, 3, xiv
 example,
 TP, 105
 execution,
 TP, 85
 initialization,
 TP, 85
 operator control,
 TP, 146
 shutdown,
 TP, 90
 termination,
 TP, 149, 133

Transaction Processing Module (TPM) (see user modules)

transaction queue,
 TP, 129, 3
 backup,
 TP, 135
 file definition,
 TP, 137
 invalid,
 TP, 123
 pages for,
 TP, 135
 QUEUE command,
 TP, 135, 129, 131
 reconstruction,
 TP, 123
 saturation threshold,
 TP, 135
 valid,
 TP, 121

transaction queue message,
 TP, 27, xii, 23

transaction text,
 TP, 25, xiv, 23

transient journal,
 TP, 115, xiv, 87, 93, 120
 reinitialization,
 TP, 90

transparent mode,
 TS, 133

traps, setting,
 BP, 54

traps, simulating,
 BP, 56

TREE control command,
 BP, 127

TS command, Edit,
 TS, 81, 86
 UG, 27

TSIGETCHAR subroutine,
 TP, 198, 195

TSIGETEOL subroutine,
 TP, 199, 195

TSIGETPRIM driver,
 TP, 194

TSIGOTTFD entry point,
 TP, 194

TSINPUTQMCHAR subroutine,
 TP, 199, 195

TSOGETPRIM driver,
 TP, 194

TSOGOTTFD entry point,
 TP, 194

TSOPUTBUFFER subroutine,
 TP, 200, 196

TSOPUTCHAR subroutine,
 TP, 200, 195

TSOPUTEOL subroutine,
 TP, 200, 196

TSS temp stack,
 BP, xiii

tuning a system,
 SM, 54, xi

TY command, Edit,
 TS, 80, 86
 UG, 18, 27

TYC codes,
 BP, 198, 210, 218, 225

TYPE command, ELLA,
 SP, 78

:TYPE command (boot-time),
 SP, 27

U

U command, TEL,
 TS, 23

;U command, Delta,
 TS, 100

UC command, ANLZ,
 SP, 44

UNDER DELTA,
 TS, 23

UNDER FDP,
 TS, 24
 UNMAP command, ANLZ,
 SP, 43
 unprotected mode,
 OP, viii
 UNSAT option,
 TP, 91
 unsatisfied reference,
 BP, xiii
 SM, xi
 SP, xiii
 use accounting,
 SM, 44
 use distribution,
 SM, xi
 use group,
 SM, xi
 use item,
 SM, xi
 user files,
 OP, 38, viii
 user identification (for operator),
 OP, 3
 user module (transaction processing),
 TP, xiv
 entry points,
 TP, 92, 85
 execution,
 TP, 85
 initialization,
 TP, 87
 regulation,
 TP, 148, 147
 shutdown,
 TP, 90
 start-up,
 TP, 85
 user module abort flag,
 TP, 88-90
 user modules,
 COBOL,
 TP, 91
 examples,
 TP, 99
 FORTRAN,
 TP, 91
 Meta-Symbol,
 TP, 91, 92
 rules,
 TP, 91
 user processors,
 BP, 8
 SM, 13
 SP, 87, 13
 User record,
 TP, 115, 95, 192
 user response time,
 SM, xi

user station,
 TP, xii
 character set escape,
 TP, 39
 commands,
 TP, 39
 logoff,
 TP, 40
 logon,
 TP, 24, 40
 messages,
 TP, 42
 regulation,
 TP, 145, 133, 140
 user status queues,
 SM, 16
 SP, 15
 :USERS file,
 SM, 24
 utility control commands,
 BP, 46
 utility subroutines,
 TP, 195, 198

V

variable length parameters,
 BP, 73, 199, 225
 vertical format control at remote printers,
 RP, 11
 vertical format control, specifying, (M:DEVICE),
 BP, 114
 VFC (see vertical format control)
 virtual map, changing,
 BP, 66
 virtual memory,
 BP, 139
 virtual memory, special processors,
 SP, 87
 virtual memory layout,
 Link processor,
 BP, 141, 139
 Load processor,
 BP, 140, 139
 virtual page, freeing,
 BP, 66
 virtual page, obtaining,
 BP, 65
 VOLINIT,
 OP, 19
 SM, 6
 SP, 5
 command,
 OP, 19
 flawing,
 OP, 20
 messages,
 OP, 20

volume, closing,
BP, 110
volume, identification,
BP, 160
VOLUME command,
TP, 137, 130
volume switching,
TP, 137, 130

W

:W command, Delta,
TS, 106
waiting interrupt,
SP, 119
WEOL command, PCL,
BP, 174
TS, 69
WEOL control command,
BP, 46
workstation,
RP, 3
defining,
RP, 24
SM, 30
WORKSTATION command, Super,
RP, 24
SM, 30
:WRITE command, DEF,
SM, 157
write end-of-file,
BP, 111, 46
write error log,
SP, 189
write operations, COC,
TS, 129
WS,
RP, 3
WSN,
RP, 4

X

X command,
Super,
RP, 34
SM, 36
Terminal Interface Controller,
TP, 145, 133, 140
TP Ghost,
TP, 138, 130, 133
TPC,
TP, 149, 133, 147
;X command, Delta,
TS, 101

X key-in,
OP, 13
TP, 29
X primitive,
TP, 58, 48, 51
Xerox 560 cluster/unit matrix,
OP, 3
SM, 162
SP, 148
Xerox 560 load-and-go diagnostics,
OP, 106
Xerox 560 Remote Assist Station,
OP, 103
SM, 20
SP, 165, 22
Xerox 1200 operation,
OP, 110
Xerox 7670 RBT (see 7670 RBT)
Xerox ANS COBOL (see COBOL)
Xerox Extended FORTRAN IV (see FORTRAN)
Xerox labeled tape,
BP, 24
DCB format,
BP, 210
error handling,
BP, 237
TS, 155
Xerox standard compressed language,
SP, 201
Xerox standard object language,
SP, 185
Xerox standard symbols, codes, and correspondences,
BP, 239
SP, 202
TS, 135

Y

;Y command, Delta,
TS, 102
Y name possibility string (NPS),
TP, 36, 31
Y primitive,
TP, 56, 48, 54
yyndd,
BP, 86
OP, 2
SM, 162
yyndd key-in,
OP, 27

Z

;Z command, Delta,
TS, 107
Z primitive,
TP, 59, 48, 51
ZAP key-in,
OP, 16

XEROX

701 South Aviation Boulevard
El Segundo, California 90245
213 679-4511

XEROX® is a trademark of XEROX CORPORATION.