

Index

A

ABORT statement 287
 About SAS System dialog box 202
 ACCELERATE option, PMENU procedure 282
 access descriptor files 60
 access member type 60
 ACTIVEBITMAP argument, DLGPRT command 206
 Advanced preferences 46
 aggregate syntax, definition 85
 ALTCMD= argument
 DLGOPEN command 204
 DLGPRT command 206
 DLGSAVE command 209
 ALTERNATE parameter, PFKEY system option 358
 ALTLOG system option 322
 ALTPRINT system option 323
 APPEND argument, WFILE command 224
 appending SAS data sets 280
 application workspace (AWS) 185
 SAS commands, list of 186
 system options for controlling 185
 applications, adding to SAS File menu 361
 ARG statement 169
 ASCII characters, alternate 40
 ASCII characters, returning 246, 250
 ASCII characters, returning rank of 258
 asynchronous tasks 303
 ATTRIB statement 288
 autocal libraries 392
 SASAUTOS system option 392
 specifying 366
 AUTOCOMPLETE argument, COMMAND command 200
 autoexec file
 See SAS autoexec file
 AUTOEXEC system option 324
 automatic macro variables 389
 SYSCC 389
 SYSDEVIC 389
 SYSENV 389
 SYSJOBID 390
 SYSMAXLONG 390
 SYSRC 390
 SYSSCP 390
 SYSSCPL 390
 autosave 37
 autosave frequency, setting 220

AUTOSCROLL command 197
 AWS (application workspace) 185
 SAS commands, list of 186
 system options for controlling 185
 AWSBITMAP argument, DLGPRT command 206
 AWSCONTROL system option 325
 AWSDEF system option 326
 AWSMAXIMIZE command 197
 AWSMENU system option 326
 AWSNUMERGE system option 327
 AWSMINIMIZE command 198
 AWSRESTORE command 198
 AWSTITLE system option 327

B

BAR argument
 COMMAND command 200
 TOOLLOAD command 217
 batch mode source files, specifying 375
 batch mode, definition 6
 batch mode, printing in 107
 batch SAS jobs 6
 cancelling 6
 hiding the Status window 6
 submitting 6
 BDMP= option, PROC CONVERT statement 277
 binary data, reading 263
 binary data, writing 235
 BITMAPONLY argument, DLGPRT command 206
 bitmapped information, pasting into a SAS session 39
 BLKSIZE= argument
 FILE command 210
 INCLUDE command 213
 BLKSIZE= option, FILE statement 289
 BLKSIZE= option, INFILE statement 298
 BLOCK option, FILE statement 289
 BLOCK option, INFILE statement 298
 BMDP engine 76
 BMDP files 76
 BOTTOM parameter, TOOLDEF system option 379
 BOX argument, TOOLLOAD command 217
 BUFNO system option 328
 BUFSIZE system option 328

BYADDR attribute 169
 BYTE function 246
 BYTE option, FILE statement 289
 BYTE option, INFILE statement 298
 BYVALUE attribute 169
 \$BYVALw. format 177

C

C language formats for DLLs 175
 CALL DMYTECKS routine 246
 CALL RECONNECT, CALL routine 163
 CALL routines 245
 CALL SOUNDS, CALL routine 247
 CALL SYSTEM, CALL routine 248
 CALLSEQ= attribute 167
 capitals, converting to 199
 CAPS command 199
 catalog member type 60
 CATALOG procedure 273
 CATCACHE system option 329
 CDIR argument, WSTATUSLN command 231
 Census Tract maps 343
 CENTER (horizontal) parameter, TOOLDEF system option 379
 CENTER (vertical) parameter, TOOLDEF system option 379
 CGM files 118
 Change Folder dialog box 202
 CHAR attribute 169
 character strings, passing to SAS programs 376
 character values, converting to hexadecimal 238
 character values, translating to other character values 259
 characters, converting to uppercase 199
 checksum calculation 246
 CIMPORT procedure 274
 CLEANUP system option 330
 CLIENT option, FILE statement 290
 CLIENT option, INFILE statement 299
 CLIPBITMAP argument, DLGPRT command 206
 clipboard 37, 215
 copying window contents 215
 copying window contents to 221
 moving window contents to 222
 pasting graphics 115
 submitting SAS code 18, 39, 212
 submitting statements 96

CLIPTEXT argument, DLGPRT command 206
CLOSE argument, COMMAND command 200
COBOL language formats for DLLs 176
COLLATE function 250
COLOR command 199
color defaults 346
COM ports, reading from 91, 98
COM ports, timeouts 99
COMDEF system option 330
command bar 27
command bar, setting options for 200
COMMAND command 200
Command dialog box, placing 330
Command dialog box, setting options for 200
command line, toggling on/off 214
COMMAND option, FILE statement 289
commands 196
accessing SAS commands from menus 28
automatic completion 200
AUTOSCROLL 197
AWSMAXIMIZE 197
AWSMINIMIZE 198
AWSRESTORE 198
CAPS 199
COLOR 199
COMMAND 200
CUT 201
DLGABOUT 202
DLGCDIR 202
DLGENDR 202
DLGFIND 203
DLGFONT 203
DLGOPEN 203
DLGPRT 206
DLGPRTSETUP 207
DLGREPLACE 207
DLGRUN 208
DLGSMAIL 209
FILE 210
FILL 211
GSUBMIT 212
HOME 212
ICON 212
INCLUDE 213
issuing SAS commands 40
not supported 196
PCLEAR 196
PLIST 196
PMENU 214
printing with SAS commands 106
SCROLLBAR 196
SMARK 196
STORE 215
TOOLCLOSE 215
TOOLEDIT 216
TOOLLARGE 216
TOOLLOAD 217
TOOLSWITCH 218
TOOLTIPS 218
WATTACH 219

WATTENTION 220
WAUTOSAVE 220
WBROWSE 220
WCOPY 221
WCUT 222
WDOCKVIEW 222
WDRAG 196
WEMAILFMT 223
WEXITSAVE 224
WFILE 224
WGROW 196
WHIDECURSOR 225
WHSBAR 225
WINSET 226
WMENUPOP 226
WMOVE 196
WMRU 227
WNAVKEYUNMARK 228
WNEWTITLE 228
WPOPUP 229
WSCREENTIPS 230
WSHRINK 196
WSTATUSLN 230
WUNDO 231
WVSBAR 232
X 232, 383, 384
ZOOM 233
compatibility 4
completion status 397
CON, reserved word 84
concatenated directories 87, 89
concatenated files 88, 90
concatenated SAS data libraries 68
 input access 68
 output access 68
 update access 68
 with same name 68
CONFIG system option 331
CONFIG.SAS file 10
CONTENTS procedure 275
CONVERT procedure 277
copying in non-text windows 38
copying text 38
copying to clipboard 215
COPYSAS autocall macro 393
CPORT procedure 279
\$CSTRw. format 177
current folder 6, 42
cursor
 suppressing display of 225
 toggling to home position 212
cursor, hiding 47
cursor, moving 34
CUT command 201

data lines, specifying length 364
DATA step
 sending e-mail with 132
DATA step output, sending to a printer 107
DATA step, displaying time-elapsed statistics 374
DATA step, scheduling a start time 260
DATA step, suspending 259
DATA step, terminating 287
database files, accessing with SAS/ACCESS software 78
DataMyte processing 100
 character counts 250
 character counts, converting to ASCII 252
 checksum calculation 246
 total number of words 251
DATASETS procedure 280
DBCS system option 332
DBCSLANG system option 332
DBCSTYPE system option 333
DCL commands, submitting 232
DDE
 See Dynamic Data Exchange (DDE)
DDE triplet 146
!DDE_FLUSH string 151
DEFAULT parameter, SYSPRINTFONT system option 378
deleting text 35
descriptor files, definition 60
DEVICE system option 334
directories, listing (example) 249
directory structure, default 17
disk caching 121
DLGABOUT command 202
DLGCDIR command 202
DLGENDR command 202
DLGFIND command 203
DLGFONT command 203
DLGOPEN command 203
DLGPRT command 206
DLGPRTSETUP command 207
DLGREPLACE command 207
DLGRUN command 208
DLGSAVE command 208
DLGSMAIL command 209
DLLs, external
 accessing efficiently 172
 accessing from PROC IML 183
 accessing from the SAS System 188
\$BYVALw. format 177
C language formats 175
calling 255
character string arguments 171
COBOL language formats 176
constants as arguments to MODULExy functions 174
\$CSTRw. format 177
expressions as arguments to MODULExy functions 174
formats, specifying for MODULExy functions 175

D

data lines, including 296

FORTRAN language formats 175
 MODULEExy functions, constants as arguments 174
 MODULEExy functions, expressions as arguments 174
 MODULEExy log messages 178
 overview 165
 passing a matrix as an argument 183
 passing arguments by value (example) 181
 PEEK functions 171
 PL/I language formats 176
 pointers, passing to structures 174
 pointers, returning (example) 182
 SAS variables, grouping as structure arguments 173
 SASCBTBL attribute table 166
 structures (example) 182
 updating character string arguments (example) 180
 DMYTECHC function 250
 DMYTECKS CALL routine 246
 DMYTECW function 251
 DMYTERVC function 252
 docking view 28
 toggling on and off 222
 documentation, online 31
 double-byte character sets 332
 encoding method 333
 specifying 332
 dragging and dropping 18, 35
 Dynamic Data Exchange (DDE) 145
 controlling applications with 147
 DDE triplet, definition 146
 !DDE_FLUSH string 151
 dynamic data transfer 151
 examples 147
 external file, referencing 146
 HOTLINK option 150
 invoking application commands 148
 missing values 146, 151
 NOTAB option 149
 reading data (example) 148
 syntax 145
 tab characters 149
 writing data (example) 147
 dynamic link libraries
See DLLs, external

E

e-mail
 attaching window contents to 219
 attachment format, specifying 223
 DATA step for sending 132
 dialog, choosing 336
 directives 134
 examples 134, 136
 FILENAME statement for sending 132
 initializing 130

interface, choosing 337
 login ID, specifying 336
 password, specifying 337
 SAS/AF applications 191
 SCL code for sending 132
 Send Mail dialog box 130, 209
 sending from within SAS 129
 ECHO system option 335
 Edit preferences 45
 EMAILDLG system option 336
 EMAILID system option 336
 EMAILPW system option 337
 EMAILSYS system option 337
 ENGINE system option 338
 engines 60
 assigning 64
 assigning multiple engines per folder 65
 assigning to environment variables 66
 library, definition 61
 library, interface 62
 library, native 61
 rules for determining 62
 view, definition 61
 environment variables 65
 assigning librefs 65
 defining with SET OS/2 command 66
 defining with SET system option 66
 filerefs for external files 84
 EOFCONNECT option, FILE statement 289
 EOFCONNECT option, INFILE statement 298
 error messages 397
 accessing files 398
 completion status 397
 internal errors 400
 networks 400
 operating system 401
 OS/2 401
 return codes 397
 SAS System features 399
 uppercasing 350
 executable files, specifying a search path 357
 Exit dialog box 202
 EXPORT argument, DLGSAVE command 209
 external files 82
See also SAS files
 altering record format 96
 appending to 97
 COM port timeouts 99
 concatenated files, accessing 90
 copying lines to a window 213
 copying to text editor window 95
 DataMyte processing 100
 default file extensions 86
 FILE command 95
 FILE statement 92
 filerefs for 83
 GSUBMIT command 96, 212
 I/O techniques 96
 in working directories 92
 INCLUDE command 95
 %INCLUDE statement 94
 INFILE statement 93
 long file names 88
 national characters in 98
 quoted OS/2 filenames 90
 reading from COM ports 91, 98
 reading with %INCLUDE statement 94
 reading with INFILE statement 93
 referencing 82
 reserved operating system physical names 91
 SAS commands, for accessing 95
 SAS statements, for accessing 92
 specifying for input 298
 writing to LPT ports 91
 writing window contents to 95
 writing with FILE statement 92
 external files, accessing
See external files

F

FDSTART attribute 170
 FILE command 95, 210
 file extension libraries 58, 371
 file extensions 57
 File menu 227, 361
 file resources, tracing 363, 364, 393
 FILE statement 92, 289
 FILENAME statement 83, 291
 device specification 291
 Dynamic Data Exchange 145
 file specification 292
 host-options list 292
 named pipes 156
 populating Lotus Notes databases 138
 sending e-mail 132
 unnamed pipes 154
 filerefs 291
 assigning to concatenated directories 87
 assigning to concatenated files 88
 assigning to directories 85
 assigning to files 291
 clearing 89
 FILENAME statement for 83
 listing 88
 shortcuts for 83
 files, opening 29
 files, saving window contents to 30
 fill character, specifying 211
 FILL command 211
 FILTERLIST system option 339
 Find dialog box 203
 FIRSTOBS= option, PROC CONVERT statement 277
 fixed-point values, reading 267, 269
 fixed-point values, writing 239
 floating-point values, converting to hexadecimal 237
 floating-point values, reading 270

floating-point values, writing 242
 folder structure, default 17
 folder, initial 368
 folders
 changing 202
 font defaults 346
 Font dialog box 203
 FONT system option 339
 FONTALIAS system option 340
 fonts 340
 default aliases 340
 location, specifying 341
 monospace 339
 OS/2, assigning to SAS 340
 printer, setting 378
 selecting 43
 FONTSLOC system option 341
 FOOTNOTE statement 295
 FORM window 106
 FORMAT= attribute 170
 formats 235
See also informats
 associating with variables 288
 \$BYVALw. 177
 converting from earlier versions 236
 \$CSTRw. 177
 definition 235
 writing binary data 235
 FORMCHAR system option 342
 forms 105
 FORTRAN language formats for DLLs 175
 FSDEVICE system option 322
 FULLTIMER system option 342
 function keys 407
 default settings, interactive sessions 407
 remapping 357
 specifying number of 353
 functions 245

G

General Preferences page 44
 GISMAPS system option 343
 GRAPH window 114
 graphics 403
 TrueType fonts with SAS/GRAFH software 403
 graphics output 111
 CGM files for 118
 exporting 116
 exporting from SAS/GRAFH window 117
 file formats 115
 importing 115
 importing from SAS/GRAFH window 115
 on monitor display 111
 pasting from SAS/GRAFH 117
 pasting graphics from clipboard 115
 printing 112
 groupware 129
 populating Lotus Notes database 138

sending e-mail from SAS 129
 GSTORE command 39
 GSUBMIT command 96, 212

H

hard drives, and performance 121
 hard drives, mapping 97
 hardware, and performance 121
 help
 for SAS products 32
 from command bar 32
 from Help menu 33
 in dialog boxes 32
 online 31
 screen help 29
 HELP command 32
 help files 344, 367
 help files, registering 344
 Help menu 33, 344
 HELPLOC system option 344
 HELPREGISTER system option 344
 hexadecimal values, converting to 265, 266
 HEXw. format 238, 237
 HEXw. informat 266, 265
 highlighting text 39
 HOME command 212
 HONORAPPEARANCE system option 346
 host-system mode, switching to 232
 HOSTPRINT system option 346
 HOTLINK argument, FILE command 210
 HOTLINK option 150
 Dynamic Data Exchange (DDE) 150
 FILE statement 289
 INFILE statement 298
 HTML output, preferences for 108

I

IBw.d format 239
 IBw.d informat 267
 ICON command 212
 ICON system option 347
 icons, user-defined 49, 191, 381
 IMPORT argument, DLGOPEN command 204
 INCLUDE command 95, 213
 %INCLUDE statement 296
 host options 296
 reading external files 94
 indexes
 managing 280
 INFILE statement 298
 reading external files 93
 informats 263
See also formats
 associating with variables 288
 converting earlier versions 264

definition 263
 reading binary data 263
 INPUT attribute 169
 insert mode, toggling on/off 226
 integer binary values, reading 267
 integer binary values, writing 239
 interactive mode, definition 6
 interactive processing, and performance 125
 interface 26
 ASCII characters, alternate 40
 clipboard 37
 current folder, changing 42
 customizing SAS sessions 43
 customizing windowing environment 47
 docking view 28
 documentation access 31
 help access 31
 keys, defining 31
 main SAS window 29
 menus 28
 opening files 29
 SAS commands, issuing 40
 SAS text editor windows 33
 saving files 29
 special character attributes 39
 interface library engines 62
 internal errors, resolving 400
 INTERVAL= argument, WAUTOSAVE command 220

K

%KEYDEF macro statement 390
 keys, defining 31

L

labels, associating with variables 288
 LEFT parameter, TOOLDEF system option 379
 LENGTH statement 299
 length, associating with variables 288
 LIBNAME statement 300
 assigning librefs 63
 clearing librefs 67
 in autoexec files 65
 library engines 61
 librefs 62, 285
See also SAS data libraries
 associating with SAS data libraries 300
 clearing 67
 listing 67
 librefs, assigning 63
 multiple per folder 65
 multiple to one folder 65
 to multiple folders 64
 to single folder 64
 to working folder 64
 with environment variables 65

with LIBNAME statement 63
 line breaks 34
 line numbers 34
 LINESIZE system option 347
 LOG= option, PROC PRINTTO statement 283
 LOG system option 348
 LOG window, setting scroll frequency 197
 logo screen 49
 logo screen bitmap 373
 logo screens, displaying at startup 372
 logos, user-defined 191
 long file names 88
 LONGFILTER= argument
 DLGOPEN command 203
 Lotus Notes database, populating 138
 creating Notes documents 138
 data directives 139
 examples 140
 FILENAME statement for 138
 retrieving information from preexisting Notes documents 143
 SAS/GRAFH output for Notes documents 142
 LRECL= argument
 FILE command 210
 INCLUDE command 213
 LRECL= option, FILE statement 290
 LRECL= option, INFILE statement 298

M

macro functions, %SYSGET 391
 macro statements 390
 macro variable symbol tables, memory for 351
 macro variables 352
 main SAS window 29, 325
 See also application workspace (AWS)
 configuring 325
 controlling 185
 keyboard shortcuts 408
 maximizing 197
 menu bar, displaying 326
 minimizing 198, 347
 OS/2-specific menu options, embedding 327
 placing 326
 restoring to previous state 198
 size and placement 48
 sizing 326
 system options for controlling 185
 title 327
 map data sets 349
 MAPS system option 349
 MAX= argument, COMMAND command 200
 MAX parameter, S system option 364
 MAX parameter, SORTSIZE system option 372
 MAXARG attribute 167
 MCPISLP function 253
 MCPISTR function 255
 member name syntax 85, 87

member types 57
 access 60
 catalog 60
 program 60
 table 59
 view 59
 members, definition 57
 memory
 internal, and performance 121
 limiting for SORT procedure 372
 limiting total amount 349
 reserving for SAS procedure termination 360
 reserving for SAS System termination 375
 specifying for macro variable symbol tables 352
 viewing contents of 257
 MEMSIZE system option 349
 menu bar 27
 menus, accessing SAS commands, tools, and options 28
 MESSAGE option, FILE statement 289
 MESSAGE option, INFILE statement 298
 migrating from previous releases 71
 MINARG attribute 167
 MINMAX parameter, AWSCONTROL system option 325
 MINMAX parameter, SASCONTROL system option 367
 missing values 146, 151
 MOD option, FILE statement 290
 MODULE= attribute 168
 MODULExy functions 255
 and DLLs 165
 constants as arguments to 174
 expressions as arguments to 174
 formats, specifying for 175
 log messages 178
 monospace fonts 339
 mouse buttons, specifying number of 354
 MSG argument, WSTATUSLN command 231
 MSG system option 350
 MSGCASE system option 350
 MSYMTABMAX system option 351
 multimedia equipment 253, 255
 Multiple Engine Architecture 60
 MVARSIZE system option 352

N

NAMED parameter, SYSPRINTFONT system option 378
 named pipes 155
 CALL RECONNECT routine 157
 connecting to next client 157
 connecting to next client (example) 163
 examples 158
 in SCL 157
 NOBLOCK option (example) 161

one client, one server (example) 158
 one server, several clients (example) 159
 syntax 156
 waiting for data (example) 161
 national characters, in external files 98
 native library engines 61
 navigational keys 228
 network considerations 405
 networks
 error messages 400
 networks, and performance 122
 New Library dialog box 63
 NEWS system option 352
 NOALTLOG system option 322
 NOALTPRINT system option 323
 NOAUTOCOMPLETE argument, COMMAND command 200
 NOAUTOEXEC system option 324
 NOAWSMENU system option 326
 NOAWSMENUMERGE system option 327
 NOBLOCK option, FILE statement 289
 NOBLOCK option, INFILE statement 298
 NOBLOCK option, named pipes 161
 NODISPLAY argument, DLGPRT command 206
 NODMS system option 322
 NOECHO system option 335
 NOFULLTIMER system option 342
 NOICON system option 347
 NOLOG system option 348
 NOMINMAX parameter, AWSCONTROL system option 325
 NOMINMAX parameter, SASCONTROL system option 367
 NOPRINT system option 360
 NOPROMPT argument, DLGSAVE command 209
 NORSASUSER system option 362
 NOSOURCE argument, DLGPRT command 206
 NOSPLASH system option 372
 NOSTIMER system option 374
 NOSUBMIT argument, DLGOPEN command 204
 NOSYSIN system option 375
 NOSYSTEMMENU parameter, AWSCONTROL system option 325
 NOSYSTEMMENU parameter, SASCONTROL system option 367
 NOTAB argument, FILE command 210
 NOTAB argument, INCLUDE command 213
 NOTAB option, Dynamic Data Exchange (DDE) 149
 NOTAB option, FILE statement 290
 NOTAB option, INFILE statement 298
 NOTESDB option, FILE statement 289
 NOTITLE parameter, AWSCONTROL system option 325
 NOTREQD attribute 169
 NOVERBOSE system option 382
 NOXSYNC system option 384

NOXWAIT system option 385

NUL, reserved word 84

NUM attribute 169

NUMKEYS system option 353

NUMMOUSEKEYS system option 354

O

OBS= option, PROC CONVERT statement 277

OBS system option 354

observations

 sorting 284

 specifying an end point 354

online documentation 31

online help 31

Open dialog box 203, 339, 368

operating system commands 20, 248

 conditional execution 21

 executing from a SAS session 306

 running from SAS sessions 20

 submitting conditionally (example) 248

 submitting from SAS sessions 248

 synchronous versus asynchronous execution 22

OPLIST system option 355

OPTIONS procedure 281

options, accessing from menus 28

ORIENT= argument, DLGPRSETUP command 207

OS/2 applications, executing from a SAS session 306

OS/2 commands

See operating system commands

OS/2 parameter, PFKEY system option 359

OS/2 shell, enabling EXIT command 385

OSIRIS engine 77

OSIRIS files 76, 277

OSIRIS= option, PROC CONVERT statement 277

OUT= option, PROC CONVERT statement 277

out-of-resource conditions 330

output 101

 graphics 111

 line size 347

 page size 356

 printing 101

 routing procedure output to a file 109

 routing procedure output, to Web browser 108

 routing SAS log to a file 109

 sending printed output to a file 107

OUTPUT attribute 169

OUTPUT window setting scroll frequency 197

P

packed decimal values 240, 268

Page Setup dialog box 104

PAGENO system option 356

PAGESIZE system option 356

pasting bitmapped information, into a SAS session 39

pasting from clipboard 215

See clipboard

PATH system option 357

PCLEAR command 196

PDw.d format 240

PDw.d informat 268

PEEK functions 257

 accessing character string arguments 171

performance 4, 121

 data set size 124

 disk caching 121

 hard drives 121

 hardware 121

 interactive processing 125

 internal memory 121

 networks 122

 SAS System features 122

 SORT procedure 123

 sorting, memory for 123

 sorting, physical location 123

 SORTSIZE= option 123

 TAGSORT option 123

 tuning methods 123

 video cards 122

performance factors

 accessing external DLLs 172

PFKEY system option 357

PIBw.d format 241

PIBw.d informat 269

pipes 153

See also named pipes

 named 153, 155

 unnamed 153, 154

PL/I language formats for DLLs 176

PLIST command 196

PMENU command 214

PMENU procedure 282

pointers

 passing to structures 174

 returning (example) 182

pop-up menus 226, 229

positive integer binary values 241, 269

preferences 43

PRIMARY parameter, PFKEY system option 358

Print dialog box 206

PRINT= option, PRINTTO statement 283

Print Setup dialog box 103, 207

PRINT system option 360

printed output

 page number, resetting 356

printers 207, 377

printing 101

 default printer 108

 from within a SAS window 102

 graphics 112

 in batch mode 107

OS/2 printer, specifying 346

page setup options 104

print forms 105

print options 103

sending DATA step output to a printer 107

sending printed output to a file 107

with SAS commands 106

PRINTTO procedure 107, 109, 283

procedure output 295

footnotes 295

routing to a file 109

routing to Web browser 108

titles 305

procedure output files, creating 360

procedure output, routing 283

restoring default destination 284

with ALTPRINT system option 323

with PRINTTO procedure 283

procedures 273

 time-elapsed statistics, displaying 374

PROCLEAVE system option 360

profile catalog 15

Program Editor files, saving with autosave 37

program member type 60

pull-down menus, defining 282

PUT statement, directing to external files 92, 289

PUT statement, specifying output file for 289

Q

quoted OS/2 filenames 90

R

RANK function 258

RBw.d format 242

RBw.d informat 270

real binary values 237, 242, 270

RECFM= argument

 FILE command 210

 INCLUDE command 213

RECFM= option, FILE statement 290

RECFM= option, INFILE statement 298

REGISTER system option 361

Registry files 16

REPLACE argument

 WFILE command 224

REPLACE dialog box 207

REQUIRED attribute 169

RESOURCELOC system option 362

Results preferences 45

RETRY= option, FILE statement 290

RETRY= option, INFILE statement 299

return codes 397

RETURN option, ABORT statement 288

RETURNS= attribute 168

rich text format (RTF) 36

RIGHT parameter, TOOLDEF system option 379
 ROUTINE statement 166
 RSASUSER system option 362
 RTF (rich text format) 36
 RTF argument, WEMAILFMT command 223
 RTRACE system option 363
 RTRACELOC system option 364
 Run dialog box 208

S

S system option 364
 S2 system option 365
 SAA parameter, PFKEY system option 358
 SAS/AF applications 185
 e-mail 191
 icons, user-defined 191
 invoking automatically 189
 logos, user-defined 191
 SAS application windows, configuring 366
 SAS application workspace (AWS) 185
 SAS commands, list of 186
 system options for controlling 185
 SAS autoexec file 14
 editing 14
 naming 14
 specifying an alternate 324
 suppressing 15
 SAS catalogs 60
 keeping open 329
 managing 273
 moving between operating environments 274, 279
 SAS code, submitting 18
 by drag and drop 18
 from Program Editor 18
 from registered SAS file types 19
 from SAS text editor 18
 from the clipboard 18, 39, 212
 SAS commands, accessing from menus 28
 SAS commands, issuing 40
 SAS commands, printing with 106
 SAS configuration files 9
 creating from scratch 11
 default 10
 editing 10
 naming conventions 10
 processing order 11
 search order for 11
 specifying an alternate 331
 specifying SAS system options in 10
 SAS/CONNECT software
 transferring SAS files between operating systems 78
 SAS data files 59
 interface 59
 maximum size 59
 native 59

SAS data libraries 60, 62
See also SASUSER data library
See also WORK data library
See also concatenated SAS data libraries
See also librefs
 assigning engines 64
 Census Tract maps in 343
 clearing librefs 67
 concatenated 68
 default 380
 default access method 338
 environment variables, for assigning 65
 file extension libraries 58
 file extension libraries, three-character 371
 LIBNAME function for accessing 63
 LIBNAME statement for accessing 63
 listing libref assignments 67
 New Library dialog box 63
 SASUSER 69
 WORK 69
 SAS data sets 58
 appending 280
 buffer number 328
 buffer size 328
 moving between operating environments 274, 279
 printing contents 275
 size, and performance 124
 size, calculating 124
 SAS data views, definition 59
 SAS environment variables, defining 370
 SAS files 56
See also external files
 accessing, from multiple SAS sessions 70
 backward compatibility 75
 BMDP files, reading 76
 copying 280
 data libraries 62
 database files 78
 deleting 280
 from remote hosts 75
 listing 280
 migrating from previous releases 71
 Multiple Engine Architecture 60
 OSIRIS files, reading 76
 renaming 280
 sharing 70
 SPSS files, reading 76
 transferring between operating environments 78
 transferring between operating systems 78
 types of 57
 SAS/GRAFH map data sets 349
 SAS/GRAFH output, for Notes documents 142
 SAS/GRAFH software 334
 generic drivers 112, 114
 native drivers 113, 114
 SAS/GRAFH software, with TrueType fonts 403
 SAS jobs, terminating 287
 SAS log 348
 creating 348
 logging SAS initialization message 335
 logging system statistics 342
 news files, specifying 352
 redirecting output 322
 routing output 283
 routing output, restoring default destination 284
 routing output, with PRINTTO procedure 283
 routing to a file 109
 unbuffering 380
 writing system option settings to 355
 SAS parameter, EMAILDLG system option 336
 SAS procedures 273
 time-elapsed statistics, displaying 374
 SAS processes, terminating 220
 SAS Registry files 16
 SAS resources, location of 362
 SAS sessions 7
 customizing 43
 interrupting 20
 pasting bitmapped information into 39
 sample 7
 session preferences 43
 suspending 305
 terminating 23, 287
 title of 48
 SAS sessions, customizing
 fonts 43
 save settings on exit 224
 session preferences 43
 SAS statements 287
 ARG 169
 FILENAME, populating Lotus Notes databases 138
 FILENAME, sending e-mail 132
 including 296
 ROUTINE 166
 submitting from clipboard 96
 SAS System interface
See interface
 SAS system options 311
 changing settings 311
 concatenating libraries 313
 customizing windowing environment 48
 displaying current settings 311
 in OPTIONS statements 313
 in SAS configuration file 312
 in SAS invocation 312
 listing current values 281
 logging 382
 not applicable under OS/2 322
 routing SAS log to a file 110
 routing SAS output to a file 110
 set in multiple places 314
 summary table 314
 writing settings to SAS log 355
 writing settings to terminal or batch log 382
 SAS System window 185
 SAS commands, list of 186

- system options for controlling 185
 SAS System, compatibility with previous releases 4
 SAS System, distributing scaled-down versions 189
 SAS System, starting 5
 from command prompt 5
 from custom shadows 5
 from program items 5
 from WarpCenter 5
 interactive mode versus batch mode 6
 SAS System, under OS/2 4
 SAS text editor 18, 37
 SAS text editor windows 33
 SAS variables, grouping as structure arguments 173
 SAS Web pages 33
 SAS window 185
 SAS commands, list of 186
 SASAUTOS system option 366
 SASCBTBL attribute table
 ARG statement 169
 definition 166
 importance of 170
 ROUTINE statement 166
 syntax 166
 SASCONTROL system option 366
 SASHELP system option 367
 SASINITIALFOLDER system option 368
 SASUSER data library 69
 changing engines 69
 name, specifying 369
 read/write access control 362
 SASUSER system option 369
 specifying a profile catalog 15
 Save As dialog box 109, 208, 339, 368
 save settings on exit 224
 saving window contents to a file 30
 SCL code, sending e-mail with 132
 screen help 29
 SCREENBITMAP argument, DLGPRT command 206
 ScreenTips, toggling on and off 230
 scroll bars 369
 scroll bars, toggling on/off 225, 232
 SCROLLBAR command 196
 SCROLLBARFLASH system option 369
 scrolling 46
 secondary source statements, length of 365
 selecting and copying in non-text windows 38
 selecting and copying text 38
 selecting text 34
 Send Mail dialog box 130, 209
 SERVER option, FILE statement 290
 SERVER option, INFILE statement, 299
 session preferences 43
 SET command, filerefs for external files 85
 SET OS/2 command 66
 SET system option 370
 filerefs for external files 85
 SHORTFILEEXT system option 371
 SIZE= argument, DLGPRTSETUP command 105
 SLEEP function 259
 SMARK command 196
 SORT= argument, COMMAND command 200
 SORT procedure 284
 and performance 123
 sorting observations 286
 creating a collating sequence 286
 memory, and performance 123
 physical location, and performance 123
 SORT procedure 284
 SORTSIZE= option, and performance 123
 SORTSIZE= option, SORT procedure 285
 SORTSIZE system option 372
 sounds, generating 247
 SOURCE= argument, DLGPRTSETUP command 105
 special characters 39
 splash screen bitmap 373
 splash screens, displaying at startup 372
 SPLASH system option 372
 SPLASHLOC system option 373
 SPSS engine 78
 SPSS files 76
 SPSS= option, PROC CONVERT statement 277
 SPSS/PC files 277
 STACKORDER= attribute 167
 STACKPOP= attribute 167
 statements 287
 status line 28
 Status window, hiding 6
 STIMEFMT system option 374
 STIMER system option 374
 STORE command 215
 stored program files 60
 SUBMIT argument, DLGOPEN command 204
 suspending SAS sessions 305
 SYSCC automatic macro variable 389
 SYSDEVIC automatic macro variable 389
 SYSENV automatic macro variable 389
 %SYSEXEC macro statement 391
 %SYSGET macro function 391
 SYSIN system option 375
 SYSJOBID automatic macro variable 390
 SYSLEAVE system option 375
 SYSMAXLONG automatic macro variable 390
 SYSPARM system option 376
 SYSPRINT system option 377
 SYSPRINTFONT system option 378
 SYSRC automatic macro variable 390
 SYSSCP automatic macro variable 390
 SYSSCPL automatic macro variable 390
 SYSTASK statement 303
 SYSTEMMENU parameter, AWSCONTROL system option 325
 SYSTEMMENU parameter, SASCONTROL system option 366
- T**
- tab characters, Dynamic Data Exchange (DDE) 149
 table boundaries, characters for 342
 table member type 59
 tabs 34
 TAGSORT option, and performance 123
 TAGSORT option, SORT procedure 285
 TAPECLOSE system option 322
 Tasking Manager window 220
 TEXT argument, WEMAILFMT command 223
 text editor windows 33
 text editor, submitting code from 18
 text, deleting 35
 text, dragging and dropping 35
 text, highlighting 39
 text, selecting 34
 text, selecting and copying 38
 text, unmarking 228
 TITLE parameter, AWSCONTROL system option 325
 TITLE statement 305
 Tool Editor dialog box 216
 toolbar preferences 50
 toolbars 27, 189, 216
 changing tools on 50
 closing 215
 customizing 50
 Toolbox display 379
 toolboxes 217, 218
 TOOLCLOSE command 215
 TOOLDEF system option 379
 TOOLEDIT command 216
 TOOLLARGE command 216
 TOOLLOAD command 217
 Tools menu, adding applications to 49
 tools, accessing from menus 28
 TOOLSWITCH command 218
 TOOLTIPS command 218
 ToolTips, toggling on/off 218
 TOP parameter, TOOLDEF system option 379
 transferring SAS files 78
 TRANSLATE function 259
 transport files 274, 279
 TRANSPOSE= attribute 168
 TrueType fonts, with SAS/GRAFH software 403
- U**
- UNBUFLOG system option 380
 undoing text entry 231
 UNIT= option, PROC PRINTTO statement 283
 unmarking text 228
 unnamed pipes 154
 example 155
 redirection sequences 155
 syntax 154

UPDATE attribute 169
 uppercase, converting to 199
 USER system option 380
 USERICON system option 381

V

variables, length and precision 387
 variables, specifying a length 299
 VERBOSE system option 382
 verbosity 382
 VERIFY argument
 DLGOPEN command 204
 DLGPRT command 206
 DLGSAVE command 209
 Version 5 files 75
 Version 6 data sets 72
 Version 6 SAS catalogs 74
 Version 8, backward compatibility 75
 Version 8, migrating to 71
 video cards, and performance 122
 videodisc players 253, 255
 view member type 59
 View preferences 45
 VIM parameter, EMAILSYS system option 337

W

WAITFOR statement 305
 WAKEUP function 260
 WarpCenter
 starting SAS System 5
 WATTACH command 219
 WATTENTION command 220
 WAUTOSAVE command 220
 WBROWSE command 220
 WCOPY command 221

WCUT command 222
 WDOCKVIEW command 222
 WDRAG command 196
 Web browsers 220
 Web browsers, routing procedure output to 108
 Web pages, getting to from SAS 33
 Web preferences 46
 WEMAILFMT command 223
 WEXITSAVE command 224
 WFILE command 224
 WGROW command 196
 WHIDECURSOR command 225
 WHSBAR command 225
 WINDOW argument
 COMMAND command 200
 TOOLLOAD command 217
 window color, setting 199
 windowing environment 27
 customizing 47
 windows 228
 clearing 30, 228
 color, changing 47
 copying contents to clipboard 221
 copying lines from external files 213
 copying to clipboard 215
 cutting to clipboard 201
 maximizing 233
 minimizing 212
 moving contents to clipboard 222
 saving contents to a file 30, 210, 224
 status line, toggling on/off 230
 WININSERT command 226
 WMENUPOP command 226
 WMOVE command 196
 WMRU command 227
 WNAVKEYUNMARK command 228
 WNEWTITLE command 228
 WORK data library 16
 changing engines 70

definition 69
 pathname, specifying 382
 retaining temporary files 70
 specifying with environment variables 70
 WORK system option 382
 working directory, setting 6
 WPOPUP command 229
 WSCREENTIPS command 230
 WSHRINK command 196
 WSTATUSLN command 230
 WUNDO command 231
 WVSBAR command 232

X

X command 383, 384
 syntax 232
 X command, synchronous versus asynchronous execution 384
 X statement 306
 running operating system commands 20
 XCMD system option 383
 XMIN system option 384
 XSYNC system option 384
 synchronous versus asynchronous command execution 22
 versus XWAIT system option 22
 XWAIT system option 385
 exiting from a DOS shell 21
 versus XSYNC system option 22

Z

ZDw.d format 242
 ZDw.d informat 270
 zoned decimal values 242, 270
 ZOOM command 233