	Chat 21,303
	CHAT (Function) 22,303
A	Chat Connections 22
Abort a Print Job 101,102	Chat Menu 23 Chat window 146
Aborting Commands 76	CHAT.ALLHOSTS (Variable) 25
Access Functions 251	CHAT.DISPLAYTYPES (Variable) 24
Add New Keyboards to the List 310	CHAT.EMACSCOMMANDS (Variable) 25
add-form (Function) 299	CHAT.FONT (Variable) 25
ADD.BORDER.TO.BITMAP (Function) 65	CHAT.IN.EMACS? (Variable) 26
ADD.PROCESS (Function) 266	CHAT.INTERRUPTS (Variable) 24
Adding FileBrowser Commands 92	CHAT.KEYACTIONS (Variable) 24
Address space of the internetwork 261 ADJUSTCOLORMAP (Function) 37	CHAT.PROTOCOLTYPES (Variable) 26 CHAT.TTY.PROCESS (Variable) 25
Administrator Commands for NSMaintain 206	CHAT.WINDOW.REGION (Variable) 25
ADVISE (Function) 283	CHAT.WINDOW.SIZE (Variable) 25
Aliases 203	Chatting to a host 258
ALLOCATE.ETHERPACKET (Function) 270	CHECKSAMEDIR (Function) 231
Analyzing user Functions 157	Clean-Up After Copying Files 46
Application layer 261 ARPANET 253	Clearinghouse 26
Array Functions 193	Close (Function) 305
Array operations 29	CLOSE (Function) 305 close-hash-file (Function) 134
Assignments 189	CLOSECHATWINDOWFLG (Variable) 25
· ·	CLOSEF (Function) 9,222
В	CLOSEHASHFILE (Function) 128
	CmlFloatArray 29
BACKWARD FIND (Command) 288	CMYCOLORMAP (Function) 36
BEGINDST (Variable) 199	COLLECTINUSE (Function) 108 COLLISIONS (Function) 108
BIN (Function) 222 BIT.IN.COLUMN (Function) 65	COLORDISPLAY (Function) 33
BIT.IN.ROW (Function) 65	COLORDISPLAYP (Function) 33
BITBLT (Function) 116	COLORIZEBITMAP (Function) 44
BITMAPCREATE WIDTH HEIGHT BITSPERPIXEL	COLORLEVEL (Function) 37
(Function) 38	COLORMAPCOPY (Function) 36
BITSPERPIXEL BITMAP (Function) 38	COLORMAPCREATE (Function) 36
BOUT (Function) 222	COLORNAMES (Association List) 34
BREAK (Function) 283 Broadcast address 262	COLORNUMBERP (Function) 35 COLORSCREEN (Function) 39
Browser 111	COLORSCREENBITMAP (Function) 38
describe window 12	COMMAND menu 74
printout window 12	Common Lisp 288
BROWSER window 74	COMPILE (Command) 86
BROWSERBOXING (Variable) 12	Conjunctions of Sets 168
BROWSERFORMAT (Variable) 12	Connecting to a host 258 Control-E (Command) 76
	Control-E (Command) 53
C	Control-O (Command) 139
C-Shell 303	Control-P (Command) 280
C4 printed circuit board 1	Control-Q (Command) 75,87
CACHE/NODE/LABEL/BITMAPS (Variable) 116	Control-S (Command) 53
Call graph 233	Control-Z (Command) 53 Conversation Mode 45
Call stack 233 Calling the Keyboard Editor 150	convert-loaded-files (Variable) 292
CALLS (Function) 175	COPY (Command) 78
CALLSCODE (Function) 175	Copy-Selection 53, 77
Cash-File 15 \	COPYFILE (Function) 46,267
Centronics 17	CopyFiles 45
cable 17	COPYFILES (Function) 45
port 1	COPYHASHFILE (Function) 130 CPE FP 17
CENTRONICS.RESET (Function) 17 CH.DEFAULT.DOMAIN (Variable) 206	CPE-FP 17 CPE-FP upgrade 1
CH.DEFAULT.ORGANIZATION (Variable) 206	Create a Key Pad for Repeated Use 216
Changing an Existing Keyboard 150	CREATE-PROCESS-STREAM (Function) 305
Character framing errors 224	CREATE.NUMBERPAD.READER (Function) 216
CharCodeTables 19	CREATEHASHFILE (Function) 128

CREATEW (Function) 41	Creating 4045XLP Master Files 4 a graph 112 a key pad 215 a new bitmap 64 a new keyboard 149 a TableBrowser 247 horizontal rules 139 HOST.TXT file 254 new keyboard configurations 153 objects 206 the local IP.INIT file 256 Creation dates 46 Cumulative mode 238 CURSORPOSITION (Function) 44 CURSORSCREEN (Function) 44 Customizing Chat 24 FileBrowser 89
	Cyclic graphs 111
	DataBaseFns 49 Databases 313 using 313,314 Datamedia 2500 21 Daughter 114 Debuggee 279 Debugger 279 DeCREASING.FONT. LIST (Variable) 125 DEdit 51,307 Command menu 54 Functions 54 idioms 59 parameters 57 window 52 DEDITLINGER (Variable) 57 DEDITTYPEINCOMS (Variable) 57 DEFAULT-CLEANUP-COMPILER (Variable) 117 DEFAULT-GRAPH.WINDOWSIZE (Variable) 117 DEFAULT-GRAPH.WINDOWSIZE (Variable) 22,25 DEFAULTPRINTERTYPE (Variable) 22,25 DEFAULTPRINTINGHOST (Variable) 22,213 defdefiner-macros (Variable) 292 DEFINEKEYBOARD (Function) 311 Defining a Virtual Keyboard 310 DEGREES-TO-RADIANS (Function) 196 DELETE (Command) 77 Deleting objects 206 Device Errors 17 Differences between TExec and TEdit 287 Digital VT100 21 Directed acyclic graph 113 DIRECTORIES (Variable) 2,258 Directory-only lines 75 DIRECTORYNAME (Function) 231 Display-Only a Keyboard 309 Displayer 233 DISPLAYFONTDIRECTORIES (Variable) 100 DISPLAYGRAPH (Function) 117 Displaying
	a graph 116 a stack 280 Displaystream graphics 288 DM2500 Chat 27
	DODIP.HOSTP (Function) 272

Domain 203	F
manipulating 208	FASSOC (Function) 121
DOMAIN.GRAPH (Function) 276 DOMAIN.INIT (Function) 276	Fast mode FX-80 101
DOMAIN.LOOKUP (Function) 276	FASTFX80-DEFAULT-DESTINATION (Variable)
DOMAIN.LOOKUP ADDRESS (Function) 276	100
DOMAIN.LOOKUP NAMESERVER (Function) 276	FB (Command) 90 FB ALLOW ABORT (Function) 04
DOMAIN.TRACE (Function) 276	FB.ALLOW.ABORT (Function) 94 FB.BROWSERFONT (Variable) 92
DRAWBETWEEN (Function) 43 DRAWLINE (Function) 43	FB.DEFAULT.EDITOR (Variable) 84,92
DRAWTO (Function) 43	FB.DEFAULT.INFO (Variable) 87,90
DSPBACKCOLOR (Function) 42	FB.DEFAULT.NAME.WIDTH (Variable) 91
DSPCOLOR (Function) 42	FB.FETCHFILENAME (Function) 93 FB.HARDCOPY.DIRECTORY.FONT (Variable) 92
DT.EDITMACROS (Variable) 58	FB.HARDCOPY.FONT (Variable) 92
DUMPDATABASE (Function) 177 DUMPDB (Function) 50	FB.ICONFONT (Variable) 91
DUMPGRAPH (Function) 121	FB.INFO.FIELDS (Variable) 91
Dvorak keyboard 311 ´	FB.INFO.MENU.ITEMS (Variable) 91
Dynamic structure 233	FB.MENU.ITEMS (Variable) 92 FB.PROMPTFONT (Variable) 92
	FB.PROMPTLINES (Variable) 92
E	FB.PROMPTW.FORMAT (Function) 93
E-30 option kit 1	FB.PROMPTWPRINT (Function) 93
E30 option 219	FB.PROMTFORINPUT (Function) 94
EDIT (Command) 84	FB.SELECTEDFILES (Function) 93 FB.TABLEBROWSER (Function) 93
Edit buffer window 52	File Manager functions, changed 313
EDIT.BITMAP (Function) 61 EditBitMap 61	File name translation Function 269
sub-menu 62	File transfer using RS232 226
window 62	FILEBROWSE (Command) 84
EDITBM (Function) 61	FileBrowser 71 Functions 89
EDITCOLORMAP (Function) 37	Variables 90
EDITCONFIGURATION (Function) 154 EDITEMBEDTOKEN (Variable) 57	FILEBROWSER (Function) 89
EDITGRAPH (Function) 121	filecom-specifier (Function) 299
EDITGRAPHMENU 119	Filing operations 267
EDITGRAPHMENUCOMMANDS (Variable) 119	FILING.ENUMERATION.DEPTH (Variable) 92 FIND-ARRAY-ELEMENT-INDEX (Function) 31
Editing	FINDPOINTER (Function) 109
a bitmap in a document 64 editing a graph 117	FINDPOINTERS.OF.TYPE (Function) 109
existing bitmap 63	FLIPNODE (Function) 120
keyboard configuration 154	Floating-point vector 29
EDITKEYBOARD (Function) 150	FNT.DISPLOOK (Function) 96 FNT.DISPTBLE (Function) 96
EDITMODE (Function) 52	FNT.MAKEBOOK (Function) 95
EDITMODE (Variable) 84 Effecting MasterScope Analysis 171	Font mappings 95
Element patterns 185	FontSample 95
Embedding and extracting 59	FORCEOUTPUT (Function) 222 Forest 113
ENDDST (Variable) 199	form-specifier (Function) 299
Entering DEdit Commands 54 Environmental and Lisp mappings 95	FORWARD FIND (Command) 288
EOLCONVENTION (Variable) 272	FREEVARS (Function) 175
Error Condition Reporting 224	FROM.SCREEN.BITMAP (Function) 66
ERRORPUP (record) 70	FTP service 268 FTPDEBUG (Function) 268
ERRORXIP (record) 69 Establishing a Connection 143	FTPserver 97
Establishing a Connection 143 et FX-80 Fast Mode 101	FTPSERVER (Function) 4,97
ETHERHOSTNUMBER (Variable) 4,280	FTPSERVER.DEFAULT.HOST (Variable) 97
Ethernet 260	Function-calling structures 111 Functions for saving work 283
Ethernet packet 264	Functions for saving work 283 Functions for writing routines 176
EtherRecords 69 EVALUATE-POLYNOMIAL (Function) 31	FX Printer Compatibility 102
expr definitions of Functions 171	FX-80
EXPUNGE (Command) 86	DIP Switch Settings 100
Extend the selection 75	driver 99 family 99
Extended Processor board 17	serial Interface 99
Extended processor option 29 External Communication Service 27	FX80-PRINT (Function) 102

G	1
GapTelnet 26 Garbage collector 284 Gateway Access Protocol 26 GCHax 105 General Purpose Records 69 Get, Set Parameters via Inspector Window 7 get-cash-file (Function) 15 GETBOXSCREENPOSITION (Function) 40 GETBOXSCREENREGION (Function) 41	I/O processor 226 IDENTITY-3-BY-3 (Function) 194 IDENTITY-4-BY-4 (Function) 194 il:typesof (Function) 313 il:whereis (Function) 313 Imagestream 5 Include all files, both deleted and undeleted 75 Individual moe 239
GETFILEINFO (Function) 267 GETHASHTEXT (Function) 129 GETHASHVILE (Function) 129 GETRELATION (Function) 176 GETSCREENPOSITION (Function) 40 GETTEMPLATE (Function) 174 GETTERMTABLE (Function) 288 Getting Hardcopy Directory Listings 77 Ghost boxes 238 Graph 11 data structure 120	INFO menu 74 Info Options window 87 Input conventions for FileBrowser commands 75 Inserting a segment 59 install-form (Function) 299 INTENSITIESFROM (Function) 36 INTERACT&ADD.BORDER.TO.BITMAP (Function) 66 INTERACT&SHIFT.BITMAP.DOWN (Function) 66 INTERACT&SHIFT.BITMAP.LEFT (Function) 66 INTERACT&SHIFT.BITMAP.LEFT (Function) 66 INTERACT&SHIFT.BITMAP.LEFT (Function) 66 INTERACT&SHIFT.BITMAP.LEFT (Function) 66
nodes 111 GRAPH (record) 121 GRAPH/HARDCOPY/FORMAT (Variable) 117 Grapher 111,233 Grapher image objects 120 GRAPHEROBJ (Function) 120 GRAPHERPROP (Function) 121 Graphics interface 99 GRAPHNODE (record) 122 GRAPHREGION (Function) 120 GraphZoom 125 GRAYCOLORMAP (Function) 36 Groups 207	Interactive File Transfers With Kermit or Modem 146 Interactive Terminal Service 27 Internal fields 241 Internet layer 260 INTERPRESSFONTDIRECTORIES (Variable) 19 Interpreter 239 Interrupt character 234 INVERT.BITMAP.B/W (Function) 65 INVERT.BITMAP.DIAGONALLY (Function) 65 INVERT.BITMAP.HORIZONTALLY (Function) 65 INVERT.BITMAP.VERTICALLY (Function) 65 Invisible characters 288 IP
HANZON Universal Card 99 HARDCOPY (Command) 81 HARDCOPYGRAPH (Function) 117 Hash tables 178 Hash-File 133 HASHFILEDEFAULTSIZE (Variable) 130 HASHFILEDTBL (Variable) 130 HASHFILENAME (Function) 129 HASHFILEP (Function) 129 HASHFILEPLST (Function) 130 HASHFILEPROP (Function) 129 HASHFILEPROP (Function) 130 HFGROWTHFACTOR (Variable) 130 HFGROWTHFACTOR (Variable) 131 HLS (Record) 35 HLSP (Function) 35 HOST&DIRECTORYFIELD (Function) 231 HOSTS.TEXT.DIRECTORIES (Variable) 276 HOSTS.TXT files, parsing 276 HPRINT (Function) 121 HQFX80-DEFAULT-DESTINATION (Variable) 100 HQFX80-FONT-DIRECTORIES (Variable) 100	addresses 262 networks primer 261 packet building 274 packet sending 275 socket access 272 IP.ADD.PROTOCOL (Function) 273 IP.APPEND.BYTE (Function) 275 IP.APPEND.CELL (Function) 275 IP.APPEND.STRING (Function) 275 IP.APPEND.WORD (Function) 275 IP.APPEND.WORD (Function) 274 IP.DELETE.PROTOCOL (Function) 274 IP.OPEN.SOCKET (Function) 274 IP.SETUPIP (Function) 275 IP.TRANSMIT (Function) 275 IP.TRANSMIT (Function) 273 IPINIT (Function) 272 IPTRACE (Function) 273 Iterative statement operator 177 J join-comments (Variable) 292
HRule 139 HRULE.CREATE (Function) 139 HTE.READ.FILE (Function) 276 Hue–Lightness–Saturtion Triples 35	K Kermit 144,226 Kermit menu 146 KERMIT.RECEIVE (Function) 145 KERMIT.SEND (Function) 144 KEYACTION (Function) 153 Keyboard editor menus 150

KeyboardEditor 149	relations 161
	set specifications 164 templates 164
L	Match 183
Landscape mode 1	MatMult 193
Landscape printing 103	MATMULT-133 (Function) 195
Lattices 111	MATMULT-144 (Function) 195
Laying out a graph for display 112	MATMULT-331 (Function) 195
LAYOUTGRAPH (Function) 112	MATMULT-333 (Function) 195
LAYOUTSEXPR (Function) 115	MATMULT-441 (Function) 195
LDESHELL (Variable) 303	MATMULT-444 (Function) 196
Library module changes 5-9	MATMULT-N33 (Function) 195 MATMULT-N44 (Function) 196
summary 5-9 Library module dependencies 9	Matrix Creation Functions 193
Linguistic tree 120	Matrix multiplication 193
Link layer 260	Matrix Multiplication Functions 195
Lisp interrupts 22	Merged node 237
LISPUSERSDIRECTORIES (Variable) 258	MIGRATIONS (Variable) 231
LISPXREAD (Function) 53	MiniServe 199
List of nodes 112	mlFloatArray 196 Modem 145,226
List structure editor 51	MODEM.RECEIVE (Function) 145
LISTFILES (Function) 3,213 LOAD (Command) 84	MODEM.SEND (Function) 145
LOAD (Function) 49	Moving an expression 59
Load New Keyboards 310	MSMACROPROPS (Variable) 170
load-textmodule (Function) 290	MSMARKCHANGED (Function) 177
LOADDB (Function) 50	MSNEEDUNSAVE (Function) 176
LOADDBFLG (Variable) 50	Multiple DEdit commands 58
LOADFROM (Function) 49,85	Multiple streams 9
Loading TCP 258 LOOKUPHASHFILE (Function) 129	MY.NSHOSTNUMBER (Variable) 200
Lost characters 224	N
Low-level TCP Functions 272	N
	Nativials addresses OC1
	Network addresses 261
M	Network protocols 21,26
	Network protocols 21,26 NETWORKOSTYPES (Variable) 257
Macro 177	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87
Macro 177 Macro Expansion 170	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function)	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function)	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 291	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 291 MAKEFILE (Function) 49,78,231	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 291 MAKEFILE (Function) 49,78,231 MAKEFILEFORMS (Function) 231	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 291 MAKEFILE (Function) 49,78,231 MAKEFILEFORMS (Function) 231 Making a sysout that contains TCP-IP 259	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66 NUMBERPAD.READ (Function) 216
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 297 MAKEFILE (Function) 49,78,231 MAKEFILEFORMS (Function) 231 Making a sysout that contains TCP-IP 259 Manipulating	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66 NUMBERPAD.READ (Function) 216 O Objects 203
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 291 MAKEFILE (Function) 49,78,231 MAKEFILEFORMS (Function) 231 Making a sysout that contains TCP-IP 259 Manipulating domains 208	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66 NUMBERPAD.READ (Function) 216 O Objects 203 creating 206
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 297 MAKEFILE (Function) 49,78,231 MAKEFILEFORMS (Function) 231 Making a sysout that contains TCP-IP 259 Manipulating	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66 NUMBERPAD.READ (Function) 216 O Objects 203
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 291 MAKEFILE (Function) 49,78,231 MAKEFILE (Function) 49,78,231 MAKEFILEFORMS (Function) 231 Making a sysout that contains TCP-IP 259 Manipulating domains 208 groups 207 remote Vmem 284 MAP-ARRAY (Function) 29	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66 NUMBERPAD.READ (Function) 216 O Objects 203
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 291 MAKEFILE (Function) 49,78,231 MAKEFILEFORMS (Function) 231 Making a sysout that contains TCP-IP 259 Manipulating domains 208 groups 207 remote Vmem 284 MAP-ARRAY (Function) 29 MAPGC (Function) 110	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66 NUMBERPAD.READ (Function) 216 O Objects 203
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 291 MAKEFILE (Function) 49,78,231 MAKEFILE (Function) 49,78,231 MAKEFILEFORMS (Function) 231 Making a sysout that contains TCP-IP 259 Manipulating domains 208 groups 207 remote Vmem 284 MAP-ARRAY (Function) 29 MAPGC (Function) 110 MAPHASHFILE (Function) 130	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66 NUMBERPAD.READ (Function) 216 O Objects 203
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 194 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 291 MAKEFILE (Function) 49,78,231 MAKEFILE (Function) 49,78,231 MAKEFILEFORMS (Function) 231 Making a sysout that contains TCP-IP 259 Manipulating domains 208 groups 207 remote Vmem 284 MAP-ARRAY (Function) 29 MAPGC (Function) 110 MAPHASHFILE (Function) 130 MAPOFACOLOR (Function) 37	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66 NUMBERPAD.READ (Function) 216 O Objects 203
Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 291 MAKEFILE (Function) 49,78,231 MAKEFILE (Function) 49,78,231 MAKEFILEFORMS (Function) 231 Making a sysout that contains TCP-IP 259 Manipulating domains 208 groups 207 remote Vmem 284 MAP-ARRAY (Function) 29 MAPGC (Function) 110 MAPHASHFILE (Function) 130 MAPOFACOLOR (Function) 37 MAPRELATION (Function) 176	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66 NUMBERPAD.READ (Function) 216 O Objects 203 creating 206 deleting 206 Obtaining information in NSMaintain 204 Obtaining network addresses 254 open-hash-file (Function) 133 OPENHASHFILE (Function) 128 OPENIMAGESTREAM (Function) 9,101 Opening
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 291 MAKEFILE (Function) 49,78,231 MAKEFILE (Function) 49,78,231 MAKEFILEFORMS (Function) 231 Making a sysout that contains TCP-IP 259 Manipulating domains 208 groups 207 remote Vmem 284 MAP-ARRAY (Function) 29 MAPGC (Function) 110 MAPHASHFILE (Function) 130 MAPOFACOLOR (Function) 37 MAPRELATION (Function) 176 MASTERSCOPE (Function) 175	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66 NUMBERPAD.READ (Function) 216 O Objects 203
Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-3-VECTOR (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 193 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 291 MAKEFILE (Function) 49,78,231 MAKEFILE (Function) 49,78,231 MAKEFILEFORMS (Function) 231 Making a sysout that contains TCP-IP 259 Manipulating domains 208 groups 207 remote Vmem 284 MAP-ARRAY (Function) 29 MAPGC (Function) 110 MAPHASHFILE (Function) 130 MAPOFACOLOR (Function) 37 MAPRELATION (Function) 176	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMaintain 203 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66 NUMBERPAD.READ (Function) 216 O Objects 203 creating 206 deleting 206 Obtaining information in NSMaintain 204 Obtaining network addresses 254 open-hash-file (Function) 133 OPENHASHFILE (Function) 128 OPENIMAGESTREAM (Function) 9,101 Opening
Macro 177 Macro Expansion 170 MAINSCREEN (Function) 39 Maintenance panel halt 279 make-cash-file (Function) 15 make-hash-file (Function) 133 MAKE-HOMOGENEOUS-3-BY-3 (Function) 193 MAKE-HOMOGENEOUS-4-VECTOR (Function) 194 MAKE-HOMOGENEOUS-N-BY-3 (Function) 194 MAKE-HOMOGENEOUS-N-BY-4 (Function) 194 make-specifier (Function) 297 make-textmodule (Function) 291 MAKEFILE (Function) 49,78,231 MAKEFILE (Function) 49,78,231 MAKEFILEFORMS (Function) 231 Making a sysout that contains TCP-IP 259 Manipulating domains 208 groups 207 remote Vmem 284 MAP-ARRAY (Function) 29 MAPGC (Function) 110 MAPHASHFILE (Function) 130 MAPOFACOLOR (Function) 37 MAPRELATION (Function) 176 MASTERSCOPE (Function) 175 MasterScope 11,49,157	Network protocols 21,26 NETWORKOSTYPES (Variable) 257 NEW INFO FileBrowser Command 87 NODECREATE (Function) 112 Notecards 9 Noticing changes that require recompiling 177 NS characters 213 NS Chat 26 NS Records 69 NS.TO.PUP.ALIST (Variable) 200 NS.TO.PUP.FILE (Variable) 200 NSHOSTNUMBER (record) 69 NSMAINTAIN (Function) 204 NSTIMESERVER (Function) 199 NTERACT&SHIFT.BITMAP.UP (Function) 66 NUMBERPAD.READ (Function) 216 O Objects 203 creating 206 deleting 206 Obtaining information in NSMaintain 204 Obtaining network addresses 254 open-hash-file (Function) 133 OPENHASHFILE (Function) 128 OPENIMAGESTREAM (Function) 9,101 Opening a 4045 Stream 7 a Centronics Stream 17

OPENWINDOWS (Function) 42	Q
Operations on Multiple Items 249 Organization 203	QABLEITEM (record) 69
Organization 203 OVERFLOWS (Function) 108	Query Mode 45
	Queue multiple arguments 60
P	Quick-scrolling 74 Quitting the FileBrowser 76
Packages 124, 286	Quitting the File Browsel. The
	R
parity errors 224	PANDACCESSP (Function) 272
PARSERELATION (Function) 176 PATLISPCHECK (Variable) 184	RANDACCESSP (Function) 272 READ-BYTE (Function) 219
Pattern	READ-CHAR (Function) 219
elements 185	READGRAPH (Function) 121
match compiler 184	Reading the Remote Vmem 284 ReadNumber 215
match expressions 185 PATVARDEFAULT (Variable) 185	ReadNumber window 66
PERSPECTIVE-4-BY-4 (Function) 195	READP (Function) 222
Place Markers 189	READSYS (Function) 284 REALFRAMEP (Function) 239
Portrait mode 1 PORTSTRING (Function) 4,280	RECOMPILEDEFAULT (Variable) 178
PPTCB (Function) 266	RECOMPUTE (Command) 86
Press 213	Reconstruction 190 Record declaration 177
PRESSFONTWIDTHFILES (Variable) 213 Primitive relationship 178	Recursive loads 97
PRIMTERMTABLE (Variable) 288	Redefine Existing Keyboards 310
PRIN3 (Function) 124	REDUCE-ARRAY (Function) 30 Red-Green-Blue Triples 34
Print a file 101,102	REFCNT (Function) 108
source code in high-quality mode 103	Reference counting 284
source code on fast FX-80 103	REHASHFILE (Function) 130 REHASHGAG (Variable) 131
TEdit file in fast FX-80 mode 103 TEdit file in high-quality mode 104	Relations between sets 157
text and graphics in high-quality mode 103	RELDRAWTO (Function) 43
print-filecom (Function) 299	Remote Kermit in Server Mode 144
Printer drivers 99 Printer's point 139	Kermit not in Server Mode 144
Printing	system administration 27
in fast mode 101 in high-quality mode 102	system executive 27 Removing Keyboards From the Men 310
source or TEdit Files 3	-
speed 9	RENAME (Command) 81 REPACKFILENAME.NEW.TRANSLATION
via FTPserver 4 windows 4	(Function) 269
Programmer's Assistant 288	REPACKFILENAME.OSTYPE.TABLE (Variable)
PROJECT-AND-FIX-3-VECTOR (Function) 196	269 REPACKFILENAME.STRING (Function) 268
PROJECT-AND-FIX-4-VECTOR (Function) 196 PROJECT-AND-FIX-N-BY-3 (Function) 196	Replace All Known Keyboards 310
PROJECT-AND-FIX-N-BY-4 (Function) 196	Replacements 190
PROMPT window 73	RESET/NODE/BORDER (Function) 120 RESET/NODE/LABELSHADE (Function) 120
Properties 203 Protocol number 273	RESETDEDIT (Function) 54
PUP (record) 70	Resetting 4045XLPstream 8
PUP Chat 26	Restarting MiniServe 201 RGB (Record) 34
Chat 26 FTP 97,232	RGBCOLORMAP (Function) 36
ID service 200	RGBP (Function) 35 RNUMBER (Function) 215
records 70 time service 200	Ross referencing user programs 157
PUP.ID.SERVER (Function) 199	ROTATE-3-BY-3 (Function) 194
PUPADDRESS (record) 70	ROTATE-4-BY-4-ABOUT-X (Function) 194 ROTATE-4-BY-4-ABOUT-Y (Function) 194
PUPNUMBER (Variable) 200 PUPTIMESERVER (Function) 199	ROTATE-4-BY-4-ABOUT-Z (Function) 194
PUTHASHFILE (Function) 128	ROTATE.BITMAP.LEFT (Function) 65
PUTHASHTEXT (Function) 129	ROTATE.BITMAP.RIGHT (Function) 65 ROTATECOLORMAP (Function) 37
	RS232 143,219
	RS232

Chat 27	SHOW PATHS 180
port 219	SHOW PATHS (Command) 169
RS232C port 1	SHOW PATHS (Function) 11
RS232C.CLOSE-STREAM (Function) 222	SHOW.CLOSED.WINDOWS (Function) 110
RS232C.DEFAULT.INIT.INFO (Variable) 220	SHOWCIRCULARITY (Function) 110
RS232C.ERROR.STREAM (Variable) 224	SHOWCOLORTESTPATTERN (Function) 44
RS232C.GET.PARAMETERS (Function) 221	SHOWCOMMONCSETS (Function) 20
RS232C.INIT (Function) 220	SHOWCSET (Function) 20
RS232C.OTHER.STREAM (Function) 222	SHOWCSETLIST (Function) 20
RS232C.OUTPUT.PACKET.LENGTH (Function)	SHOWCSETRANGE (Function) 20
222	SHOWGC (Function) 107
RS232C.READP.EVENT (Function) 223	SHOWGRAPH (Function) 116,125
RS232C.REPORT.STATUS (Function) 224	SHOWZOOMGRAPH (Function) 125
RS232C.SET.PARAMETERS (Function) 220	Simple item operations 248
RS232C.SHUTDOWN (Function) 221	SINGLEFILEINDEX (Function) 10
RS232CHAT 225	Sketch 10
RS232CMENU 225,228	SORT (Command) 89
RS232MODEMCONTROL (Function) 223	Special characters 307
RS232MODEMHANGUP (Function) 224 RS232MODEMSTATUSP (Function) 223	specifiers (Variable) 297 Specifying the files to browse 72
RS232MODIFYMODEMCONTROL (Function) 223	- 1 7 - 3
RS232SENDBREAK (Function) 223	Spy 233 SPY.BORDERS (Variable) 239
RS232TRACE 224	SPY.BUTTON (Function) 234
NOLUL INTOL LLT	SPY.END (Function) 234
	SPY.FONT (Variable) 239
S	SPY.FREQUENCY (Variable) 239
S-expression 115	SPY.LEGEND (Function) 239
SameDir 231	SPY.MAXLINES (Variable) 239
Sampler 233	SPY.NOMERGEFNS (Variable) 239
SAVEDBFLG (Variable) 50	SPY.START (Function) 234
Scale factors 9	SPY.TOGGLE (Function) 234
SCALE-3-BY-3 (Function) 194	SPY.TREE (Function) 235
SCALE-4-BY-4 (Function) 195	SPY.TREE (Variable) 239
SCALEDBITBLT (Function) 9	Stack 280
SCALEDBITBLT (Function) 9 SCREENBITMAP (Function) 39	Stack architecture 58
SCREENCOLORMAP (Function) 36	Stacking several rules in a single object 140
SCREENPOSITION (Record) 39	Starting FileBrowser 71
SCREENREGION (Record) 39	Starting TExec 287
Scroll bar 74	STARTMINISERVE (Function) 199
SEE (Command) 82	Static structure 233
Segment Patterns 186	stderr 305
Segment selection and manipulation 59	stdin 305
Selecting Files 74	stdout 305
Selecting Objects and Lists 52	STOPIP (Function) 272
Selection stack 53	STORAGE (Function) 105
Send text output to fast FX-80 103	Store keyboards 309 SUBNETMASK (Variable) 262
SEND.FILE.TO.PRINTER (Function) 3,213	Subnetworks 262
Serial interface card 99	Sun,TCP to a 254
Server mode 144 SET DEPTH (Command) 88	SunOS, interface to 305
Set	Switch & Display a Keyboard 308
destination 102	Switch A-2 2
determiners 167	Switch Keyboards 308
FX-80 Destination 101	Switch settings 2
FX-80 Page Size 101	SWITCHKEYBOARDS (Function) 311
HQ Mode 102	SysEdit 241
page Size 102	SYSHASHFILE (Variable) 131
specifications by Blocktypes 167	SYSHASHFILELST (Variable) 131
specifications by Relation 166	System sources 241
types 167	
SETCOLORINTENSITY (Function) 37	T
SETSYNONYM (Function) 175	
SETTEMPLATE (Function) 174	TableBrowser 243
SETTIME (Function) 199	TABLEBROWSER (record) 244
SHIFT.BITMAP.DOWN (Function) 65	TABLEITEM (record) 243
SHIFT.BITMAP.LEFT (Function) 66	Tally window 73
SHIFT.BITMAP.RIGHT (Function) 66	Target-source-Command 59
SHIFT.BITMAP.UP (Function) 66	TB.BROWSER.BUSY (Function) 248

TB.CLEAR.LINE (Function) 249	TESTRELATION (Function) 176
TB.COLLECT.ITEMS (Function) 250	TExec 287
TB.DELETE.ITEM (Function) 248	TEXEC (Function) 287
TB.FIND.ITEM (Function) 250	TEXTMODULES 289
TB.FINISH.CLOSE (Function) 248	TFTP.CLOSEFILE (Function) 272
TB.INSERT.ITEM (Function) 249	TFTP.GET (Function) 272
TB.ITEM.DELETED? (Function) 251 TB.ITEM.SELECTED? (Function) 251	TFTP.OPENFILE (Function) 272 TFTP.PUT (Function) 271
TB.MAKE.BROWSER (Function) 247	TFTP.SERVER (Function) 272
TB.MAP.DELETED.ITEMS (Function) 250	Thumbing 74
TB.MAP.ITEMS (Function) 250	TIMEZONECOMP (Variable) 200
TB.MAP.SELECTED.ITEMS (Function) 250	Tracing and test Functions 265
TB.NORMALIZE.ITEM (Function) 249	Trailer encapsulation 277
TB.NTH.ITEM (Function) 250	Transferring files 143,258
TB.NUMBER.OF.ITEMS (Function) 249	TRANSLATE-3-BY-3 (Function) 195
TB.REDISPLAY.ITEMS (Function) 249	TRANSLATE-4-BY-4 (Function) 195
TB.REMOVE.ITEM (Function) 249	Translating between the file-naming conventions
TB.REPLACE.ITEMS (Function) 248	268
TB.SELECT.ITEM (Function) 248	Transport layer 260
TB.SET.FONT (Function) 248 TB.UNDELETE.ITEM (Function) 248	Transport control protocol 264 Trees 111
TB.USERDATA (Function) 251	TRIM.BITMAP (Function) 66
TB.WINDOW (Function) 251	Trivial file transfer protocol 271
TCP	Troubleshooting Problems With FileBrowser 94
and directory enumeration 254	TTY port 1,219
Chat 27	TTY.DEFAULT.INIT.INFO (Variable) 226
debugging aids 277	TTY.GET.PARAMETERS (Function) 228
segment 264	TTY.INIT (Function) 226 `
TCP-IP 253	TTY.SET.PARAMETERS (Function) 227
protocol 47	TTY.SHUTDOWN (Function) 228
protocol layers 260	TTYCHAT 228
TCP.BYE (Function) 268	Typing Characters to DEdit 53
TCP.CLOSE.SENDÉR (Function) 265	
TCP.DEFAULT.RECEIVE.WINDÓW (Variable) 265	U
TCP.DEFAULT.USER.TIMEOUT (Variable) 265 TCP.DEFAULTFILETYPE (Variable) 267	LIDD ADDEND DVTE (Function) 271
TCP.ECHO.SERVER (Function) 266	UDP.APPEND.CELL (Function) 271
TCP.ECHOTEST (Function) 266	UDP.APPEND.CELL (Function) 271 UDP.APPEND.STRING (Function) 271
TCP.FAUCET (Function) 267	
	TIDE APPENIT WORL (FUNCTION) 7/1
TCP.INIT (Function) 265	UDP.APPEND.WORD (Function) 271 UDP CLOSE SOCKET (Function) 270
TCP.INIT (Function) 265 TCP.OPEN (Function) 264	UDP.CLOSE.SOCKET (Function) 270
TCP.OPEN (Function) 264	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271
TCP.INIT (Function) 265 TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFLG (Variable) 269	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFLG (Variable) 269 TCPFTP.DEFAULT.FILETYPES (Variable) 267	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFLG (Variable) 269 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFLG (Variable) 269 TCPCHAT.TRACEFLG (Variable) 267 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267 TCPFTP.INIT (Function) 268	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288 UNIX 232,272
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFLG (Variable) 269 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267 TCPFTP.INIT (Function) 268 TCPFTP.SERVER (Function) 268	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288 UNIX 232,272 UNIX-STREAM-CLOSE (Function) 305
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267 TCPFTP.INIT (Function) 268 TCPFTP.SERVER (Function) 268 TCPFTP.SERVER.USE.TOPS20.SYNTAX (Variable) 268	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288 UNIX 232,272 UNIX-STREAM-CLOSE (Function) 305 UNIXChat 303
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267 TCPFTP.INIT (Function) 268 TCPFTP.SERVER (Function) 268 TCPFTP.SERVER.USE.TOPS20.SYNTAX (Variable) 268 TCPTRACE (Function) 266	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288 UNIX 232,272 UNIX-STREAM-CLOSE (Function) 305 UNIXChat 303
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267 TCPFTP.INIT (Function) 268 TCPFTP.SERVER (Function) 268 TCPTRACE (Function) 266 TEdit 9,21,139,287,307	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288 UNIX 232,272 UNIX-STREAM-CLOSE (Function) 305 UNIXComm 305 UNIXComm 305 Unread 54 UNSAVEFNS (Function) 177
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267 TCPFTP.INIT (Function) 268 TCPFTP.SERVER (Function) 268 TCPTRACE (Function) 266 TEdit 9,21,139,287,307 TEdit Chat 28	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288 UNIX 232,272 UNIX-STREAM-CLOSE (Function) 305 UNIXComm 305 UNIXComm 305 Unread 54 UNSAVEFNS (Function) 177 UPDATECHANGED (Function) 177
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267 TCPFTP.INIT (Function) 268 TCPFTP.SERVER (Function) 268 TCPTP.SERVER.USE.TOPS20.SYNTAX (Variable) 268 TCPTRACE (Function) 266 TEdit 9,21,139,287,307 TEdit Chat 28 TeleRaid 279	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288 UNIX 232,272 UNIX-STREAM-CLOSE (Function) 305 UNIXChat 303 UNIXComm 305 Unread 54 UNSAVEFNS (Function) 177 UPDATECHANGED (Function) 177 UPDATEFN (Function) 177
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFLG (Variable) 267 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267 TCPFTP.INIT (Function) 268 TCPFTP.SERVER (Function) 268 TCPTRACE (Function) 266 TEdit 9,21,139,287,307 TEdit Chat 28 TeleRaid 279 TELERAID (Function) 280	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288 UNIX 232,272 UNIX-STREAM-CLOSE (Function) 305 UNIXChat 303 UNIXComm 305 Unread 54 UNSAVEFNS (Function) 177 UPDATECHANGED (Function) 177 UPDATEFN (Function) 177
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267 TCPFTP.INIT (Function) 268 TCPFTP.SERVER (Function) 268 TCPTP.SERVER.USE.TOPS20.SYNTAX (Variable) 268 TCPTRACE (Function) 266 TEdit 9,21,139,287,307 TEdit Chat 28 TeleRaid 279 TELERAID (Function) 280 TeleRaid Commands 280	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288 UNIX 232,272 UNIX-STREAM-CLOSE (Function) 305 UNIXChat 303 UNIXComm 305 Unread 54 UNSAVEFNS (Function) 177 UPDATECHANGED (Function) 177 UPDATECHANGED (Function) 177 UPDATEFN (Function) 177 UPDATEFN (Function) 177 Updating the MasterScope Data Base 174 upgrade-semicolon-comments (Variable) 292
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267 TCPFTP.INIT (Function) 268 TCPFTP.SERVER (Function) 268 TCPFTP.SERVER.USE.TOPS20.SYNTAX (Variable) 268 TCPTRACE (Function) 266 TEdit 9,21,139,287,307 TEdit Chat 28 TeleRaid 279 TELERAID (Function) 280 TeleRaid Commands 280 Teletype editor 51	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288 UNIX 232,272 UNIX-STREAM-CLOSE (Function) 305 UNIXChat 303 UNIXComm 305 Unread 54 UNSAVEFNS (Function) 177 UPDATECHANGED (Function) 177 UPDATEFN (Function) 177 UPDATEFN (Function) 177 Updating the MasterScope Data Base 174 upgrade-semicolon-comments (Variable) 292 User Commands for NSMaintain 204
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267 TCPFTP.INIT (Function) 268 TCPFTP.SERVER (Function) 268 TCPTP.SERVER (Function) 268 TCPTRACE (Function) 266 TEdit 9,21,139,287,307 TEdit Chat 28 TeleRaid 279 TELERAID (Function) 280 TeleRaid Commands 280 Teletype editor 51 TELNET protocol 261,269	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288 UNIX 232,272 UNIX-STREAM-CLOSE (Function) 305 UNIXComm 305 UNIXComm 305 Unread 54 UNSAVEFNS (Function) 177 UPDATECHANGED (Function) 177 UPDATEFN (Function) 177 UPDATEFN (Function) 177 Updating the MasterScope Data Base 174 upgrade-semicolon-comments (Variable) 292 User Commands for NSMaintain 204 User datagram protocol 270
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267 TCPFTP.INIT (Function) 268 TCPFTP.SERVER (Function) 268 TCPTP.SERVER (Function) 268 TCPTRACE (Function) 266 TEdit 9,21,139,287,307 TEdit Chat 28 TeleRaid 279 TELERAID (Function) 280 TeleRaid Commands 280 Teletype editor 51 TELNET protocol 261,269 Ten-key calculator pad 215	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288 UNIX 232,272 UNIX-STREAM-CLOSE (Function) 305 UNIXChat 303 UNIXComm 305 Unread 54 UNSAVEFNS (Function) 177 UPDATECHANGED (Function) 177 UPDATECHANGED (Function) 177 UPDATEFN (Function) 177 UPDATEFN (Function) 288 USERWORDS (Function) 288
TCP.OPEN (Function) 264 TCP.OTHER.STREAM (Function) 265 TCP.SINK.SERVER (Function) 266 TCP.STOP (Function) 265 TCP.URGENT.EVENT (Function) 265 TCP.URGENT.MARK (Function) 265 TCP.URGENTP (Function) 265 TCP.URGENTP (Function) 265 TCPCHAT.TELNET.TTY.TYPES (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPCHAT.TRACEFILE (Variable) 269 TCPFTP.DEFAULT.FILETYPES (Variable) 267 TCPFTP.EOL.CONVENTION 267 TCPFTP.INIT (Function) 268 TCPFTP.SERVER (Function) 268 TCPTP.SERVER (Function) 268 TCPTRACE (Function) 266 TEdit 9,21,139,287,307 TEdit Chat 28 TeleRaid 279 TELERAID (Function) 280 TeleRaid Commands 280 Teletype editor 51 TELNET protocol 261,269	UDP.CLOSE.SOCKET (Function) 270 UDP.EXCHANGE (Function) 271 UDP.GET (Function) 270 UDP.INIT (Function) 270 UDP.OPEN.SOCKET (Function) 270 UDP.SEND (Function) 271 UDP.SETUP (Function) 270 UDP.SOCKET.EVENT (Function) 270 UDP.SOCKET.NUMBER (Function) 270 UDP.STOP (Function) 270 UNCOLORIZEBITMAP (Function) 44 UNDELETE (Command) 77 Unechoed input mode 288 UNIX 232,272 UNIX-STREAM-CLOSE (Function) 305 UNIXComm 305 UNIXComm 305 Unread 54 UNSAVEFNS (Function) 177 UPDATECHANGED (Function) 177 UPDATEFN (Function) 177 UPDATEFN (Function) 177 Updating the MasterScope Data Base 174 upgrade-semicolon-comments (Variable) 292 User Commands for NSMaintain 204 User datagram protocol 270

FileBrowser window 73 Keyboard editor 150 modems 223 RS232 streams 222 TExec 288 TTY port 226 TTY streams 228 V Verifying TCP connections 258 Version Control 46 VFIND.PACKAGE (Function) 286 VFIND.SYMBOL (Function) 286 VGETBASE0 (Function) 285 VGETDEFN (Function) 285 VGETPROPLIST (Function) 285 VGETVAL (Function) 285 VGETVAL (Function) 285 VGETVAL (Function) 285 Viewing an existing bitmap 64 frames from a stack 281 system stack 282 Violation of the IP standard 262 Virtual graph nodes 113 Virtual memory 279 Virtual terminal I/O 269 VirtualKeyboards 149,307 VKBD.CONFIGURATIONS (Variable) 154 VKBD.KNOWN-KEYBOARDS (Variable) 311	(GETSCREENREGION (Function) 40 (MAKE-HOMOGENEOUS-4-BY-4 (Function) 194 4 4045 configuration cartridge 2 4045 Emulation Mode Selection 2 4045 Fonts 9 4045 Parameter Names and Values 5 4045 Port Initialization 3 4045 Port Selection 2 4045 PROM and Software Compatibility 1 4045XLP.CHANGE.MODE (Function) 5 4045XLP.DEFAULTS (Variable) 5 4045XLP.GET.PARAMETERS (Function) 7 4045XLP.SET.PARAMETERS (Function) 6 4045XLP.SET.PARAMETERS (Function) 6 4045XLPStream 1 4045XLPSTREAM.VERSION (Variable) 1
VLOADFNS (Function) 283 VLOADVAR (Function) 283	
VPUTBASEO (Function) 286 VRAID (Function) 284 VSAVEWORK (Function) 283 VSETTOPVAL (Function) 285 VT100 Chat 28 VTYPENAME (Function) 285 VUNSAVEDEF (Function) 283 VVAG2 (Function) 285 VYANKDEF (Function) 283 VCOPY (Function) 285 VUNCOPY (Function) 285	
W Weitek floating-point chip set 29	
When To Copy 46 Where-Is 313 Wild cards 72 WINDOWPROP (Function) 42 WORPCURSOR (Function) 43 Wrapper Functions 193	
X	
XCVR interface cable 253 Xerox 2700-II laser printer 1 Xerox 4045 Laser CP 1 Xerox Character Codes 19 Xerox/Diablo 630 1 XIP (record) 69 XNS host number 200 XNS Time Service 199	