

/FOCAL EQUIVALANCE DEFINITIONS

| | | |
|----|------|------------------|
| 1 | | |
| 2 | | |
| 3 | 1000 | FIXMRI FADD=1000 |
| 4 | 2000 | FIXMRI FSUB=2000 |
| 5 | 3000 | FIXMRI FBIV=3000 |
| 6 | 4000 | FIXMRI FMUL=4000 |
| 7 | 6000 | FIXMRI FPUT=6000 |
| 8 | 0000 | FIXMRI FGET=0000 |
| 9 | 7000 | FNOR=7000 |
| 10 | 4407 | FINT=JMS I 7 |
| 11 | 4407 | FENT=JMS I 7 |
| 12 | 0000 | FEXT=0 |
| 13 | 0000 | FXIT=0 |

/DEFINE PAGE ZERO POINTERS, CONSTANTS, ETC.

| | | |
|----|------|-----------|
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | 0005 | P13=5 |
| 18 | 0006 | C100=6 |
| 19 | 0010 | AXIN=10 |
| 20 | 0011 | XRT=11 |
| 21 | 0013 | PDLXR=13 |
| 22 | 0016 | TELSW=16 |
| 23 | 0017 | AXOUT=17 |
| 24 | 0022 | PC=22 |
| 25 | 0023 | THISLN=23 |
| 26 | 0025 | LASTLN=25 |
| 27 | 0030 | PT1=30 |
| 28 | 0031 | LASTV=31 |
| 29 | 0034 | INBUF=34 |
| 30 | 0040 | FLOP=40 |
| 31 | 0044 | FLAC=44 |
| 32 | 0035 | BOTTOM=35 |
| 33 | 0054 | SORTCN=54 |
| 34 | 0057 | CNTR=57 |
| 35 | 0060 | BUFR=60 |
| 36 | 0061 | ADD=61 |
| 37 | 0063 | OUTDEV=63 |
| 38 | 0064 | INDEV=64 |
| 39 | 0065 | NAGSW=65 |
| 40 | 0066 | CHAR=66 |
| 41 | 0067 | LINENO=67 |
| 42 | 0071 | T2=71 |
| 43 | 0073 | C214=73 |
| 44 | 0077 | CCR=77 |
| 45 | 0076 | CLF=76 |

| | | |
|----|------|------------|
| 46 | 0075 | P337=75 |
| 47 | 0101 | M100=101 |
| 48 | 0101 | P7700=101 |
| 49 | 0102 | PER=102 |
| 50 | 0103 | M77=103 |
| 51 | 0104 | P7600=104 |
| 52 | 0105 | M20=105 |
| 53 | 0106 | P177=106 |
| 54 | 0107 | P17=107 |
| 55 | 0110 | P277=110 |
| 56 | 0111 | M2=111 |
| 57 | 0112 | MINUSA=112 |
| 58 | 0113 | E260=113 |
| 59 | 0114 | M240=114 |
| 60 | 0115 | MPER=115 |
| 61 | 0116 | MCR=116 |
| 62 | 0120 | M5=120 |
| 63 | 0121 | M11=121 |
| 64 | 0122 | P77=122 |
| 65 | 0123 | C200=123 |
| 66 | 0124 | P4000=124 |
| 67 | 0127 | DOUBLE=127 |
| 68 | 0132 | COMBUF=132 |
| 69 | 0133 | CFRS=133 |
| 70 | 0134 | END=134 |
| 71 | 0136 | EFUN3I=136 |

72

73

/NEW INSTRUCTIONS

74

75

4545

GETC=4545

76

4546

PACKC=4546

77

4547

SORTJ=4547

78

4550

SORTC=4550

79

4551

PRINTC=4551

80

4552

READC=4552

81

4553

PRNTLN=4553

82

4554

GETLN=4554

83

4555

FINDLN=4555

84

4556

ENBLN=4556

85

4557

RTL6=4557

86

4560

SFNDR=4560

87

4561

TESTN=4561

88

4562

TSTLPR=4562

89

4563

TSTGRP=4563

90

4564

TESTC=4564

| | | |
|----|------|------------------|
| 91 | 4566 | ERROR2=4566 |
| 92 | 4453 | INTEGER=JMS I 53 |
| 93 | 4451 | NEGATE=4451 |

94
95 /OTHER CONSTANTS AND POINTERS

| | | |
|-----|------|-------------|
| 96 | | |
| 97 | 0372 | P7740=372 |
| 98 | 0373 | P2000=373 |
| 99 | 1613 | EVAL=1613 |
| 100 | 1407 | GETVAR=1407 |
| 101 | 1437 | GS1=1437 |
| 102 | 0611 | PROC=611 |
| 103 | 0420 | DD=420 |
| 104 | 0177 | START=177 |
| 105 | 0610 | PROCESS=610 |
| 106 | 2600 | SAVAC=2600 |
| 107 | 2601 | SAVLK=2601 |
| 108 | 2663 | OPTR0=2663 |
| 109 | 2664 | OPTR0=2664 |
| 110 | 2665 | OPTRI=2665 |
| 111 | 2030 | FLARG=2030 |
| 112 | 2666 | X133=2666 |
| 113 | 2676 | OUTL=2676 |
| 114 | 1377 | GLIST=1377 |
| 115 | 0756 | INPUT=756 |
| 116 | 2014 | XABS=2014 |
| 117 | 2465 | OUT=2465 |
| 118 | 0571 | INLIST=571 |
| 119 | 0077 | LIST3=77 |
| 120 | 1363 | SRNLST=1363 |
| 121 | 1204 | TASK=1204 |
| 122 | 5733 | DUBLAD=5733 |
| 123 | 0603 | GDT0=603 |

R PALS
*,4801<1:4801
PH +3400

R PALS
*,FDIS<1:FDIS
PH +3400

R PALS
*FOCDEF↑U
,FOCDEF<1:FOCDEF
PH +0200

R PALS
*,FOCINT<FOCINT\TNICOF\1:FOCINT
PH +4400

R PALS
*FOCOV↑U
,FOCOVR<1:FOCOVR
UO RISZ +0001
UO +0001
UO +0001
UO GOK +0001
UO +0127
UO +2454
PH +7600

R PALS
*,PFOCAL<1:FOCDEF,FOCOVR,FOCINT,FOCLIB

R CREF
*PA\A\FOCAL

R PIP
*LPT:<1:FDIS.PA
*LPT:<1:4801.PA
*PFOCAL.LS/D<
*↑C

124 /PATCHES TO FOCAL ITSELF!

125

126 0001 FIELD 1

127

128 0000 *0

129 10000 3140 ECHOP, ECHO

130 10001 0000 TABC, 0 /TAB COUNTER

131 10002 0000 CNTRX, 0

132 10003 0000 ATSW, 0

133 10004 0000 RISZ, 0 /RANDOM RANDOM #'S

134

135 0016 *TELSW

136 10016 0000 0 /CLEAR IN-PROGRESS FLAG

137

138 0022 *PC

139 10022 0200 PC0

140

141 0031 *LASTV

142 10031 3222 STVAR

143

144 0037 *37

145 10037 2010 GOK, GOKILL /TO KILL 'CURRENT PROGRAM SAVED' FLAG

146

147 0060 *BUFR

148 10060 0224 LINE1

149

150 0073 *73

151 10073 0214 LIST6, 214 /F. F. (^L)

152 10074 0207 207 /BELL

153 0075 LIST7=.

154

155 0126 *126

156 4526 POFA=JMS I .

157 10126 0521 XPOFA

158

159 0132 *COMBUF

160 10132 0104 LIBN, LIBFIL

161 10133 0210 LINE0

162 10134 3222 STVAR

163 10135 0224 LINE1

164

165 0137 *137

166 10137 2410 CFRSX, FLTZER /MOVED FOR ^L FUDGE

167

168 0140 *140 /REDEFINE SOME NEW INSTRUCTIONS

| | | | | |
|-----|-------|------|---------------|--|
| 169 | | 4540 | PUSHJ=JMS I . | |
| 170 | 10140 | 2415 | XPUSHJ | |
| 171 | | 5541 | POPJ=JMP I . | |
| 172 | 10141 | 1563 | XPOPJ | |
| 173 | | 4542 | PUSHA=JMS I . | |
| 174 | 10142 | 1354 | XPUSHA | |
| 175 | | 4543 | PUSHF=JMS I . | |
| 176 | 10143 | 0477 | PD2 | |
| 177 | | 4544 | POPF=JMS I . | |
| 178 | 10144 | 0510 | PD3 | |
| 179 | | | | |
| 180 | | 0154 | *154 | |
| 181 | 10154 | 0315 | XGETLN | /CHANGE POINTER |
| 182 | | | | |
| 183 | | 0167 | *167 | /8K SUBROUTINES |
| 184 | 10167 | 2564 | DPC, | 2564 /PC |
| 185 | 10170 | 6160 | DTHIS, | THISD /THISLN |
| 186 | 10171 | 6165 | DPT1, | PT1D /PT1 |
| 187 | 10172 | 6343 | DXRT, | XRTD /(TAD I XRT) |
| 188 | 10173 | 6350 | DAXIN, | AXIND /(DCA I AXIN) |
| 189 | 10174 | 2572 | DAXOUT, | AXOUTD /(TAD I AXOUT) |
| 190 | 10175 | 3222 | SECRTV, | STVAR /FOR SECRET VARIABLES, OF COURSE |
| 191 | 10176 | 6363 | TELPCH | |

| | | | | | |
|-----|-------|------|--------|--------------|---------------------------------|
| 192 | | 0200 | | *200 | |
| 193 | 10200 | 5576 | | JMP I 176 | /FUDGE FOR 700.00 PRINTOUT |
| 194 | | | | | |
| 195 | | 0201 | | *201 | |
| 196 | 10201 | 1123 | | TAD C200 | /INITIALIZE PC |
| 197 | | | | | |
| 198 | | 0206 | | *206 | |
| 199 | 10206 | 1226 | | TAD PUSHB | /OVERFLOW PROTECTION |
| 200 | | | | | |
| 201 | | 0211 | | *211 | |
| 202 | 10211 | 4400 | | JMS I ECHOP | /SHOULD WE PRINT A '*'? |
| 203 | | | | | |
| 204 | | 0212 | | *212 | |
| 205 | 10212 | 1060 | | TAD BUFR | /COMMAND INPUT BUFFER |
| 206 | | | | | |
| 207 | | 0215 | | *215 | |
| 208 | 10215 | 1060 | | TAD BUFR | /RUBOUT PROTECTION |
| 209 | | | | | |
| 210 | | 0221 | | *221 | |
| 211 | 10221 | 0074 | | LIST7-1 | /MOVED DOWN ONE |
| 212 | 10222 | 0474 | | INLIST-LIST7 | |
| 213 | | | | | |
| 214 | | 0226 | | *226 | |
| 215 | 10226 | 3626 | PUSHB, | RESTORE-1+13 | /END FOR TEXT AND COMMAND INPUT |
| 216 | | | | | |
| 217 | | 0231 | | *231 | |
| 218 | 10231 | 1060 | | TAD BUFR | /INITIALIZE FOR UNPACKING |
| 219 | | | | | |
| 220 | | 0235 | | *235 | |
| 221 | 10235 | 1367 | | TAD PUSHBI | /INIT STACK POINTER |
| 222 | | | | | |
| 223 | | 0255 | | *255 | |
| 224 | 10255 | 4573 | | JMS I DAXIN | /DCA I AXIN |
| 225 | | | | | |
| 226 | | 0273 | | *273 | |
| 227 | 10273 | 4567 | | JMS I DPC | /TAD I PC |
| 228 | | | | | |
| 229 | | 0302 | | *302 | |
| 230 | 10302 | 0007 | FL100, | 7 | |
| 231 | 10303 | 3100 | | 3100 | |
| 232 | 10304 | 0000 | | 0 | |
| 233 | 10305 | 0000 | FLP5, | 0 | |
| 234 | 10306 | 2000 | | 2000 | |
| 235 | 10307 | 0000 | | 0 | |
| 236 | 10310 | 0000 | | 0 | |

| | | | | | |
|-----|-------|------|---------|--------------|--------------------------------|
| 237 | 10311 | 0000 | TEMP, | ZBLOCK 4 | |
| 238 | 10315 | 0000 | XGETLN, | 0 | /COMPUTED LINE #'S |
| 239 | 10316 | 4560 | | SPNDR | /IGNORE SPACES |
| 240 | 10317 | 1066 | | TAD CHAR | /'A' IS SPECIAL |
| 241 | 10320 | 1112 | | TAD MINUSA | |
| 242 | 10321 | 7650 | | SNA CLA | |
| 243 | 10322 | 5350 | | JMP TESTA | |
| 244 | 10323 | 4540 | | PUSHJ | /EVALUATE NUMBER OR EXPRESSION |
| 245 | 10324 | 1613 | | EVAL | |
| 246 | 10325 | 4407 | | FENT | |
| 247 | 10326 | 6311 | | FPUT TEMP | /SAVE IT |
| 248 | 10327 | 0000 | | FEXT | |
| 249 | 10330 | 4453 | | INTEGER | /GET GROUP PART |
| 250 | 10331 | 1372 | | TAD P7740 | /CHECK IF TOO BIG |
| 251 | 10332 | 7700 | | SMA CLA | |
| 252 | 10333 | 4566 | | ERROR2 | /BAD GROUP # |
| 253 | 10334 | 1046 | | TAD FLAC+2 | /GET GROUP AGAIN |
| 254 | 10335 | 4557 | | RTL6 | |
| 255 | 10336 | 7004 | | RAL | |
| 256 | 10337 | 3067 | | DCA LINENO | /SAVE IT |
| 257 | 10340 | 4451 | | NEGATE | |
| 258 | 10341 | 4407 | | FENT | |
| 259 | 10342 | 1311 | | FADD TEMP | /GET FRACTION |
| 260 | 10343 | 4302 | | FMUL FL100 | |
| 261 | 10344 | 1305 | | FADD FLP5 | /ROUND UP |
| 262 | 10345 | 0000 | | FEXT | |
| 263 | 10346 | 4453 | | INTEGER | |
| 264 | 10347 | 1067 | | TAD LINENO | /ADD GROUP |
| 265 | 10350 | 3067 | TESTA, | DCA LINENO | |
| 266 | 10351 | 7300 | | CLA CLL | |
| 267 | 10352 | 1067 | | TAD LINENO | /CHECK FOR ERROR |
| 268 | 10353 | 0104 | | AND P7600 | |
| 269 | 10354 | 7640 | | SZA CLA | |
| 270 | 10355 | 7020 | | CML | |
| 271 | 10356 | 1067 | | TAD LINENO | |
| 272 | 10357 | 0106 | | AND P177 | |
| 273 | 10360 | 7460 | | SNL SZA | |
| 274 | 10361 | 4566 | | ERROR2 | /ILLEGAL GROUP ZERO USAGE |
| 275 | 10362 | 7640 | | SZA CLA | /AND SET NAGSW |
| 276 | 10363 | 1373 | | TAD P2000 | |
| 277 | 10364 | 7024 | | CML RAL | |
| 278 | 10365 | 3065 | | DCA NAGSW | |
| 279 | 10366 | 5715 | | JMP I XGETLN | |
| 280 | 10367 | 3611 | PUSHB1, | 3576+13 | |
| 281 | | | | | |

282
283
284

0375
10375 7560

*375
XSGN

/PATCHES TO FUNCTION TABLE

| | | | | |
|-----|-------|------|------|-----------------------------|
| 285 | | 0400 | | *400 |
| 286 | 10400 | 7553 | | FRAN |
| 287 | | | | |
| 288 | | 0410 | | *410 |
| 289 | 10410 | 7522 | | FIN |
| 290 | 10411 | 7536 | | FOUT |
| 291 | | | | |
| 292 | | 0436 | | *436 |
| 293 | 10436 | 4572 | | JMS I DXRT /TAD I XRT |
| 294 | | | | |
| 295 | | 0445 | | *445 |
| 296 | 10445 | 4567 | | JMS I DFC |
| 297 | | | | |
| 298 | | 0455 | | *455 |
| 299 | 10455 | 4571 | | JMS I DPT1 /TAD I PT1 |
| 300 | | | | |
| 301 | | 0473 | | *473 |
| 302 | 10473 | 4526 | | PDPA |
| 303 | | | | |
| 304 | | 0460 | | *460 |
| 305 | 10460 | 4571 | | JMS I DPT1 /TAD I PT1 |
| 306 | | | | |
| 307 | | | | /PUSH DOWN LIST SUBROUTINES |
| 308 | | | | |
| 309 | | 0477 | | *477 |
| 310 | 10477 | 0000 | PD2, | 0 |
| 311 | 10500 | 1677 | | TAD I PD2 |
| 312 | 10501 | 2277 | | ISZ PD2 |
| 313 | 10502 | 3305 | | DCA . +3 |
| 314 | 10503 | 6202 | | CIF |
| 315 | 10504 | 4707 | | JMS I . +3 |
| 316 | 10505 | 0000 | | 0 |
| 317 | 10506 | 5677 | | JMP I PD2 |
| 318 | 10507 | 5657 | | MPD2 |
| 319 | | | | |
| 320 | 10510 | 0000 | PD3, | 0 |
| 321 | 10511 | 1710 | | TAD I PD3 |
| 322 | 10512 | 3316 | | DCA . +4 |
| 323 | 10513 | 2310 | | ISZ PD3 |
| 324 | 10514 | 6202 | | CIF |
| 325 | 10515 | 4720 | | JMS I . +3 |
| 326 | 10516 | 0000 | | 0 |
| 327 | 10517 | 5710 | | JMP I PD3 |
| 328 | 10520 | 5706 | | MPD3 |
| 329 | | | | |

| | | | | |
|-----|-------|------|--------|-------------|
| 330 | 10521 | 0000 | XFOPA, | 0 |
| 331 | 10522 | 6202 | | CIF |
| 332 | 10523 | 4725 | | JMS I .+2 |
| 333 | 10524 | 5721 | | JMP I XFOPA |
| 334 | 10525 | 5733 | | MFOPA |

| | | | | |
|-----|-------|------|-------------|---------------|
| 335 | | 0630 | *630 | |
| 336 | 10630 | 4526 | POPA | |
| 337 | | | | |
| 338 | | 0652 | *652 | |
| 339 | 10652 | 4570 | JMS I DTHIS | /TAD I THISLN |
| 340 | | | | |
| 341 | | 0661 | *661 | |
| 342 | 10661 | 4571 | JMS I DPT1 | /TAD I PT1 |
| 343 | | | | |
| 344 | | 0664 | *664 | |
| 345 | 10664 | 4571 | JMS I DPT1 | /TAD I PT1 |

| | | | | |
|-----|-------|------|--------|---------------------|
| 346 | | 1012 | *1012 | |
| 347 | 11012 | 0317 | "0 | /ADD 'OPEN' COMMAND |
| 348 | | | | |
| 349 | | 1015 | *1015 | |
| 350 | 11015 | 4526 | POPA | |
| 351 | | | | |
| 352 | | 1140 | *1140 | |
| 353 | 11140 | 2406 | FLTONE | /MOVED FOR ^L FUDGE |
| 354 | | | | |
| 355 | | 1054 | *1054 | |
| 356 | 11054 | 4526 | POPA | |
| 357 | | | | |
| 358 | | 1115 | *1115 | |
| 359 | 11115 | 4526 | POPA | |
| 360 | | | | |
| 361 | | 1155 | *1155 | |
| 362 | 11155 | 4526 | POPA | |

| | | | | |
|-----|-------|------|--------------|---|
| 363 | | 1200 | *1200 | |
| 364 | 11200 | 1561 | RETRN | /MOVE 'RETURN' |
| 365 | 11201 | 3156 | FILER | /ADD 'OPEN' |
| 366 | | | | |
| 367 | | 1203 | *1203 | |
| 368 | 11203 | 3003 | DCA ATSW | /ALL REFERENCES TO 'ATSW' MUST BE CHANGED |
| 369 | | | | |
| 370 | | 1206 | *1206 | |
| 371 | 11206 | 1370 | ALIST-1 | |
| 372 | 11207 | 0176 | ATLIST-ALIST | |
| 373 | | | | |
| 374 | | 1210 | *1210 | |
| 375 | 11210 | 2003 | ISZ ATSW | |
| 376 | | | | |
| 377 | | 1216 | *1216 | |
| 378 | 11216 | 7300 | CLA CLL | /DON'T PRINT COLON |
| 379 | 11217 | 7000 | NOP | |
| 380 | | | | |
| 381 | | 1223 | *1223 | |
| 382 | 11223 | 4526 | POPA | |
| 383 | | | | |
| 384 | | 1246 | *1246 | |
| 385 | 11246 | 1255 | TAD P15 | /PRINT CR ONLY |
| 386 | 11247 | 4551 | PRINTC | /(PRINTC HANDLES NULL FOR DELAY!) |
| 387 | 11250 | 5253 | JMP .+3 | |
| 388 | | | | |
| 389 | | 1255 | *1255 | |
| 390 | 11255 | 0015 | P15, | 15 |
| 391 | | | | |
| 392 | | 1265 | *1265 | |
| 393 | 11265 | 4573 | JMS I DAXIN | /DCA I AXIN |
| 394 | | | | |
| 395 | | 1277 | *1277 | |
| 396 | 11277 | 1270 | LISTGO-LIST3 | /LISTGO HAS MOVED |
| 397 | | | | |
| 398 | | 1310 | *1310 | |
| 399 | 11310 | 0072 | LIST6-1 | |
| 400 | 11311 | 1270 | SRNLST-LIST6 | |
| 401 | | | | |
| 402 | | 1354 | *1354 | |
| 403 | 11354 | 0000 | XPUSHA, | 0 |
| 404 | 11355 | 6202 | CIF | |
| 405 | 11356 | 4760 | JMS I .+2 | |
| 406 | 11357 | 5754 | JMP I XPUSHA | |
| 407 | 11360 | 5632 | MPUSHA | |

| | | | | |
|-----|-------|------|---------|------------------------------|
| 408 | | | | |
| 409 | | 1365 | | *1365 |
| 410 | 11365 | 1302 | | 1302 /MOVE UP ONE TO ADD TAB |
| 411 | 11366 | 1271 | | 1271 |
| 412 | 11367 | 0261 | LISTGO, | 0261 |
| 413 | 11370 | 1312 | | 1312 |
| 414 | 11371 | 0272 | ALIST, | " |

| | | | | | |
|-----|-------|------|---------|------------|---|
| 415 | | 1433 | | *1433 | |
| 416 | 11433 | 4526 | | POPA | |
| 417 | | | | | |
| 418 | | 1440 | | *1440 | |
| 419 | 11440 | 1175 | | TAD SECRV | /VARIABLE SEARCH STARTS WITH SECRET VARIABLES |
| 420 | | | | | |
| 421 | | 1464 | | *1464 | |
| 422 | 11464 | 1035 | | TAD BOTTOM | /CHECK FOR OVERFLOW |
| 423 | | | | | |
| 424 | | 1530 | | *1530 | /RESIDENT FOR LIBRARY GOSUB |
| 425 | 11530 | 0240 | SP, | 240 | |
| 426 | 11531 | 7504 | | LIB+1 | |
| 427 | | | | | |
| 428 | | 1553 | | *1553 | |
| 429 | 11553 | 7300 | LGOSUB, | CLA CLL | |
| 430 | 11554 | 4540 | | PUSHJ | /EXECUTE SUBROUTINE |
| 431 | 11555 | 0421 | | DO+1 | |
| 432 | 11556 | 1330 | | TAD SP | /LIBRARY 'SPACE' = LIBRARY RETURN! |
| 433 | 11557 | 3066 | | DCA CHAR | |
| 434 | 11560 | 5731 | | JMP I SP+1 | /SKIP 'SPNOR' |
| 435 | | | | | |
| 436 | 11561 | 1123 | RETRN, | TAD C200 | |
| 437 | 11562 | 3022 | | DCA PC | |
| 438 | 11563 | 4526 | XPOPJ, | POPA | |
| 439 | 11564 | 3071 | | DCA T2 | |
| 440 | 11565 | 5471 | | JMP I T2 | |
| 441 | 11566 | 7300 | | CLA CLL | /FREE LOCATION!! |
| 442 | 11567 | 5352 | ATLIST, | XTAB | |

| | | | | |
|-----|-------|------|----------|--|
| 443 | | 1626 | #1626 | |
| 444 | 11626 | 5250 | JMP 1650 | //EVAL' FOUND A TERMINATOR WHICH WAS NOT AN OPERATOR - |
| 445 | | | | /END OF EXPRESSION (NOT ERROR!) |
| 446 | | | | |
| 447 | | 1705 | #1705 | |
| 448 | 11705 | 4526 | POPA | |
| 449 | | | | |
| 450 | | 1757 | #1757 | |
| 451 | 11757 | 4526 | POPA | |
| 452 | | | | |
| 453 | | 1766 | #1766 | |
| 454 | 11766 | 4526 | POPA | |

| | | | | |
|-----|-------|------|------------|------------------------------------|
| 455 | | 2010 | *2010 | |
| 456 | 12010 | 6201 | GOKILL, | CDF |
| 457 | 12011 | 3532 | DCA I LIEN | /ZERO 'CURRENT PROGRAM SAVED' FLAG |
| 458 | 12012 | 6211 | CDF 10 | |
| 459 | 12013 | 5177 | JMP START | |
| 460 | | | | |
| 461 | | 2050 | *2050 | |
| 462 | 12050 | 4526 | POPA | |
| 463 | | | | |
| 464 | | 2052 | *2052 | |
| 465 | 12052 | 4526 | POPA | /REVERSE THESE TWO INSTRUCTIONS |
| 466 | 12053 | 1234 | TAD 2034 | |
| 467 | | | | |
| 468 | | 2105 | *2105 | |
| 469 | 12105 | 6201 | CDF | /CHANGE DATA FIELD FOR 'DELETE' |

| | | | | |
|-----|-------|------|--------------|---|
| 470 | | 2201 | *2201 | |
| 471 | 12201 | 1140 | 1140 | /FIN |
| 472 | 12202 | 2672 | 2672 | /FOOT |
| 473 | | | | |
| 474 | | 2216 | *2216 | |
| 475 | 12216 | 6201 | CDF | |
| 476 | 12217 | 3533 | DCA I CFRS | /ERASE ALL TEXT |
| 477 | 12220 | 5437 | JMP I GOK | |
| 478 | | | | |
| 479 | | 2231 | *2231 | |
| 480 | 12231 | 4570 | JMS I DTHIS | /TAD I THISLN |
| 481 | 12232 | 4563 | TSTGRP | /DONE ERASING GROUP? |
| 482 | 12233 | 5437 | JMP I GOK | /YES, ERASE 'CURRENT PROGRAM SAVED' FLAG |
| 483 | 12234 | 4570 | JMS I DTHIS | /TAD I THISLN |
| 484 | | | | |
| 485 | | 2237 | *2237 | |
| 486 | 12237 | 1134 | TAD END | /ZERO VARIABLES (BUT NOT SECRET VARIABLES!) |
| 487 | | | | |
| 488 | | 2253 | *2253 | |
| 489 | 12253 | 4572 | JMS I DXRT | /TAD I XRT |
| 490 | | | | |
| 491 | | 2262 | *2262 | |
| 492 | 12262 | 4570 | JMS I DTHIS | /TAD I THISLN |
| 493 | | | | |
| 494 | | 2345 | *2345 | |
| 495 | 12345 | 4574 | JMS I DAXOUT | /TAD I AXOUT |
| 496 | | | | |
| 497 | | 2361 | *2361 | |
| 498 | 12361 | 6201 | CDF | /CHANGE TO TEXT FIELD |
| 499 | | | | |
| 500 | | 2374 | *2374 | |
| 501 | 12374 | 3532 | DCA I LIBN | /WE'VE ADDED A NEW LINE |
| 502 | 12375 | 6211 | CDF 10 | /KILL 'CURRENT PROGRAM SAVED' FLAG |

| | | | | | |
|-----|-------|------|---------|--------------|----------------------------------|
| 503 | | 2405 | | *2405 | |
| 504 | 12405 | 0757 | | INPUT+1 | /^L IN ASK STATEMENT, IGNORE IT |
| 505 | | | | | |
| 506 | 12406 | 0001 | FLTONE, | 0001 | /ALL THIS MUST BE MOVED DOWN ONE |
| 507 | 12407 | 2000 | | 2000 | |
| 508 | 12410 | 0000 | FLTZER, | 0000 | |
| 509 | 12411 | 0000 | | 0000 | |
| 510 | 12412 | 0000 | | 0000 | |
| 511 | 12413 | 0000 | | 0000 | |
| 512 | | | | | |
| 513 | 12414 | 7766 | M12, | -12 | /CONSTANT FOR 'PRNT' |
| 514 | | | | | |
| 515 | 12415 | 0000 | XPUSHJ, | 0 | |
| 516 | 12416 | 7301 | | CLA CLL IAC | |
| 517 | 12417 | 1215 | | TAD XPUSHJ | /BUMP RETURN ADDRESS |
| 518 | 12420 | 4542 | | PUSHA | /SAVE IT ON THE STACK |
| 519 | 12421 | 1615 | | TAD I XPUSHJ | /GET THE ADDRESS |
| 520 | 12422 | 3215 | | DCA XPUSHJ | /INDIRECT INDIRECT! |
| 521 | 12423 | 5615 | | JMP I XPUSHJ | |
| 522 | | | | | |
| 523 | | 2453 | | *2453 | |
| 524 | 12453 | 1214 | | TAD M12 | /PATCH 'PRNT' |
| 525 | | | | | |
| 526 | | 2470 | | *OUT+3 | |
| 527 | 12470 | 6202 | | CIF | |
| 528 | 12471 | 4701 | | JMS I TAB | /COUNT CHARACTERS |
| 529 | 12472 | 5275 | | JMP OUTCR | /IT WAS A CR, PRINT CR/LF |
| 530 | 12473 | 4463 | | JMS I OUTDEV | /PRINT NORMAL CHAR |
| 531 | 12474 | 5665 | | JMP I OUT | |
| 532 | 12475 | 1077 | OUTCR, | TAD CCR | |
| 533 | 12476 | 4463 | | JMS I OUTDEV | |
| 534 | 12477 | 1076 | | TAD CLF | |
| 535 | 12500 | 5273 | | JMP OUTCR-2 | |
| 536 | 12501 | 6325 | TAB, | TABCNT | |
| 537 | | | | | |
| 538 | | 2530 | | *2530 | /RESTORE FIELD AFTER 'PACKC' |
| 539 | 12530 | 6211 | | CDF 10 | |
| 540 | | | | | |
| 541 | | 2541 | | *2541 | |
| 542 | 12541 | 4573 | | JMS I DAXIN | /DCA I AXIN |
| 543 | | | | | |
| 544 | | 2564 | | *2564 | |
| 545 | 12564 | 0000 | | 0 | /PC |
| 546 | 12565 | 6201 | | CDF | |
| 547 | 12566 | 1422 | | TAD I PC | |

| | | | |
|-----|-------|------|--------------|
| 548 | 12567 | 6211 | CDF 10 |
| 549 | 12570 | 5764 | JMP I . -4 |
| 550 | | | |
| 551 | | 2572 | *2572 |
| 552 | 12572 | 0000 | AXOUTD, 0 |
| 553 | 12573 | 6201 | CDF |
| 554 | 12574 | 1417 | TAD I AXOUT |
| 555 | 12575 | 6211 | CDF 10 |
| 556 | 12576 | 5772 | JMP I AXOUTD |

Moore Business Forms, Inc. f

| | | | | | |
|-----|-------|------|---------|-------------|--|
| 557 | | 2602 | | #2602 | |
| 558 | 12602 | 7560 | | -220 | /CHANGE BREAK CHAR /WE MOVED ITACTER TO ^P |
| 559 | | | | | |
| 560 | | 2640 | | #2640 | |
| 561 | 12640 | 5336 | | JMP RECOVR | |
| 562 | | | | | |
| 563 | | 2646 | | #2646 | |
| 564 | 12646 | 6022 | | PCF | /CLEAR COMMON FLAGS |
| 565 | 12647 | 6012 | | RRB | |
| 566 | 12650 | 7300 | | CLA CLL | |
| 567 | 12651 | 1201 | | TAD SAVLK | |
| 568 | 12652 | 7104 | | CLL RAL | |
| 569 | 12653 | 1200 | | TAD SAVAC | |
| 570 | 12654 | 6203 | | CIF CDF | /RETURN FROM INTERRUPT |
| 571 | 12655 | 5656 | | JMP I .+1 | |
| 572 | 12656 | 0004 | | 4 | |
| 573 | | | | | |
| 574 | 12657 | 2004 | RANRAN, | ISZ RISZ | /BUMP RANDOM NUMBER |
| 575 | 12660 | 5267 | | JMP 2667 | /WHILE WAITING FOR INPUT |
| 576 | 12661 | 5257 | | JMP RANRAN | /DON'T LEAVE ZERO |
| 577 | | | | | |
| 578 | | 2671 | | #2671 | |
| 579 | 12671 | 5257 | | JMP RANRAN | |
| 580 | | | | | |
| 581 | | 2725 | | #2725 | |
| 582 | 12725 | 3326 | ERROR5, | DCA .+1 | |
| 583 | 12726 | 0000 | ERR2, | 0 | |
| 584 | 12727 | 6001 | | ION | |
| 585 | 12730 | 1016 | | TAD TELSW | /WAIT FOR OUTPUT TO FINISH |
| 586 | 12731 | 7640 | | SZA CLA | |
| 587 | 12732 | 5330 | | JMP .-2 | |
| 588 | 12733 | 7340 | | CLA CLL CMA | /PUT ERROR CODE IN 'LINENO' FOR 'PRNTLN' |
| 589 | 12734 | 1326 | | TAD ERR2 | |
| 590 | 12735 | 7410 | | SKP | |
| 591 | 12736 | 1123 | RECOVR, | TAD C200 | /TELETYPE BREAK |
| 592 | 12737 | 3067 | | DCA LINENO | |
| 593 | 12740 | 6002 | | IOF | |
| 594 | 12741 | 1105 | | TAD M20 | /CLEAR OUTPUT BUFFER |
| 595 | 12742 | 3057 | | DCA CNTR | |
| 596 | 12743 | 7040 | | CMA | |
| 597 | 12744 | 1263 | | TAD OPTRO | |
| 598 | 12745 | 3010 | | DCA 10 | |
| 599 | 12746 | 1263 | | TAD OPTRO | |
| 600 | 12747 | 3265 | | DCA OPTRI | |
| 601 | 12750 | 1263 | | TAD OPTRO | |

| | | | | |
|-----|-------|------|-----------------|-----------------------|
| 602 | 12751 | 3264 | DCA OPTRO | |
| 603 | 12752 | 6211 | CDF 10 | |
| 604 | 12753 | 3410 | DCA I 10 | |
| 605 | 12754 | 2057 | ISZ CNTR | |
| 606 | 12755 | 5353 | JMP .-2 | |
| 607 | 12756 | 3034 | DCA INBUF | /AND INPUT BUFFER |
| 608 | 12757 | 6203 | RECOVX, CIF CDF | /DO LOWER FIELD FIXES |
| 609 | 12760 | 5761 | JMP I .+1 | |
| 610 | 12761 | 5751 | XRESTOR | |
| 611 | 12762 | 1110 | TAD P277 | |
| 612 | 12763 | 4551 | PRINTC | /PRINT A '??' |
| 613 | 12764 | 4553 | PRNTLN | |
| 614 | 12765 | 2022 | ISZ PC | |
| 615 | 12766 | 4567 | JMS I DPC | |
| 616 | 12767 | 7450 | SNA | |
| 617 | 12770 | 5376 | JMP .+6 | |
| 618 | 12771 | 3067 | DCA LINENO | |
| 619 | 12772 | 1101 | TAD P7700 | |
| 620 | 12773 | 4551 | PRINTC | |
| 621 | 12774 | 4551 | PRINTC | |
| 622 | 12775 | 4553 | PRNTLN | |
| 623 | 12776 | 1077 | TAD CCR | |
| 624 | 12777 | 4551 | PRINTC | |
| 625 | 13000 | 5177 | JMP START | |

| | | | | | |
|-----|-------|------|---------|--------------|--|
| 626 | | 3015 | | *3015 | |
| 627 | 13015 | 4400 | | JMS I ECHOP | /SHALL WE ECHO A '\'? |
| 628 | | | | | |
| 629 | | 3020 | | *3020 | |
| 630 | 13020 | 6201 | | CDF | /LOWER FIELD TO RUBOUT TEXT |
| 631 | | | | | |
| 632 | | 3052 | | *3052 | |
| 633 | 13052 | 1134 | | TAD END | /INIT POINTER FOR DUMP (DON'T DUMP SECRET VARIABLES) |
| 634 | | | | | |
| 635 | | 3062 | | *3062 | |
| 636 | 13062 | 5716 | | JMP I 3116 | /KLUDGE UP TDUMP |
| 637 | | | | | |
| 638 | | 3115 | | *3115 | |
| 639 | 13115 | 0203 | | PC0+3 | |
| 640 | 13116 | 6355 | | TDUMPX | |
| 641 | | | | | |
| 642 | | 3120 | | *3120 | |
| 643 | 13120 | 0000 | | ZBLOCK 20 | /CLEAR OUTPUT BUFFER |
| 644 | | | | | |
| 645 | | 3140 | | *3140 | |
| 646 | 13140 | 0000 | ECHO, | 0 | |
| 647 | 13141 | 6001 | | ION | /MAKE SURE! |
| 648 | 13142 | 3066 | | DCA CHAR | /SAVE IN CHAR |
| 649 | 13143 | 1750 | | TAD I C2163 | /DO WE WANT TO PRINT? |
| 650 | 13144 | 7650 | | SNA CLA | |
| 651 | 13145 | 5740 | | JMP I ECHO | /NO |
| 652 | 13146 | 4551 | | PRINTC | /YES |
| 653 | 13147 | 5740 | | JMP I ECHO | |
| 654 | 13150 | 2163 | C2163, | 2163 | |
| 655 | | | | | |
| 656 | 13151 | 0000 | ICHARF, | 0 | /INPUT A CHARACTER FROM A FILE |
| 657 | 13152 | 6203 | | CIF CDF | |
| 658 | 13153 | 4755 | | JMS I CHARI | /CALL LOWER FIELD |
| 659 | 13154 | 5751 | | JMP I ICHARF | |
| 660 | 13155 | 5464 | CHARI, | ICHAR | |
| 661 | | | | | |
| 662 | 13156 | 6202 | FILER, | CIF | /FILE COMMANDS ('OPEN') |
| 663 | 13157 | 5760 | | JMP I .+1 | |
| 664 | 13160 | 5443 | | FILEST | |
| 665 | | | | | |
| 666 | 13161 | 2666 | X133P, | X133 | |
| 667 | | | | | |
| 668 | 13162 | 0000 | TERMER, | 0 | /CHECK FOR TERMINATOR (;, CR, SPACE, OR ,) |
| 669 | 13163 | 4550 | | SORTC | |
| 670 | 13164 | 1376 | | | GLIST-1 |

| | | | | | |
|-----|-------|------|------|--------------|---------------------------------------|
| 671 | 13165 | 2362 | | ISZ TERMER | |
| 672 | 13166 | 6203 | | CIF CDF | |
| 673 | 13167 | 5762 | | JMP I TERMER | |
| 674 | | | | | |
| 675 | 13170 | 0000 | EOF, | 0 | /TRYING TO READ FROM A FILE AFTER END |
| 676 | 13171 | 1361 | | TAD X133P | /(SHAME ON YOU!) |
| 677 | 13172 | 3064 | | DCA INDEV | /RESET POINTER TO TTY |
| 678 | 13173 | 1110 | | TAD P277 | /PRINT A '?' |
| 679 | 13174 | 4777 | | JMS OUTL | /ON THE TELETYPE |
| 680 | 13175 | 4464 | | JMS I INDEV | /READ A CHARACTER |
| 681 | 13176 | 5770 | | JMP I EOF | |
| 682 | | | | | |
| 683 | 13177 | 2676 | | | |
| 684 | | 3200 | | PAGE | |

Alvord Business Forms, Inc. f

| | | | | | |
|-----|-------|------|---------|-----------------|---|
| 685 | 13200 | 0000 | OCHAR, | 0 | /OUTPUT A CHARACTER |
| 686 | 13201 | 3071 | | DCA T2 | |
| 687 | 13202 | 7410 | OUTECH, | SKP | /ECHO ON TELETYPE? |
| 688 | 13203 | 5210 | | JMP .+5 | |
| 689 | 13204 | 1071 | | TAD T2 | /NO |
| 690 | 13205 | 7450 | | SNA | /YES |
| 691 | 13206 | 7330 | | CLA CLL CML RAR | /LET HIM PRINT NULLS! |
| 692 | 13207 | 4614 | | JMS I OUTLP | |
| 693 | 13210 | 1071 | | TAD T2 | |
| 694 | 13211 | 6202 | | CIF | |
| 695 | 13212 | 4615 | | JMS I NOCARE | /OUTPUT IT |
| 696 | 13213 | 5600 | | JMP I OCHAR | |
| 697 | | | | | |
| 698 | 13214 | 2676 | OUTLP, | OUTL | |
| 699 | 13215 | 3667 | NOCARE, | NOCHAR | |
| 700 | | | | | |
| 701 | | | | IFNDEF FDIS < | /FDIS FOR TEKTRONIX T-400Z AVAILABLE - IF USED, |
| 702 | | | | | /PRINTX OVERLAYS OLD FDIS |
| 703 | 13216 | 0000 | PRINTX, | 0 | |
| 704 | 13217 | 4463 | | JMS I OUTDEV | |
| 705 | 13220 | 6202 | | CIF | |
| 706 | 13221 | 5616 | | JMP I PRINTX | |
| 707 | | | | | |
| 708 | | 3222 | | STVAR=. | > |

| | | | | | |
|-----|-------|------|--------|-------------|---------------------------|
| 709 | | 5352 | | *5352 | /AFTER EXTENDED FUNCTIONS |
| 710 | 15352 | 4540 | XTAB, | PUSHJ | |
| 711 | 15353 | 1612 | | EVAL-1 | |
| 712 | 15354 | 4407 | | FENT | |
| 713 | 15355 | 1775 | | FADD I TRND | /LET'S ROUND OFF |
| 714 | 15356 | 0000 | | FEXT | |
| 715 | 15357 | 4453 | | INTEGER | |
| 716 | 15360 | 7041 | | CIA | |
| 717 | 15361 | 1001 | | TAD TABC | |
| 718 | 15362 | 7001 | | IAC | |
| 719 | 15363 | 7500 | | SMA | |
| 720 | 15364 | 5372 | | JMP BACK | |
| 721 | 15365 | 3002 | | DCA CNTRX | |
| 722 | 15366 | 1376 | | TAD SPACE | |
| 723 | 15367 | 4551 | | PRINTC | |
| 724 | 15370 | 2002 | | ISZ CNTRX | |
| 725 | 15371 | 5366 | | JMP .-3 | |
| 726 | 15372 | 7300 | BACK, | CLA CLL | |
| 727 | 15373 | 5774 | | JMP I .+1 | |
| 728 | 15374 | 1204 | | TASK | |
| 729 | 15375 | 0305 | TRND, | FLP5 | |
| 730 | 15376 | 0240 | SPACE, | 240 | |

| | | | | | |
|-----|-------|------|--------|-------------|----------------------------|
| 731 | | 5774 | | *5774 | |
| 732 | 15774 | 0000 | MGETC, | 0 | /GETC FAKE FOR LOWER FIELD |
| 733 | 15775 | 4545 | | GETC | |
| 734 | 15776 | 6202 | | CIF | |
| 735 | 15777 | 5774 | | JMP I MGETC | |

Moore Business Forms, Inc.

| | | | | | |
|-----|-------|------|--------|--------------|------------------------|
| 736 | | 6135 | | *6135 | |
| 737 | 16135 | 0240 | | 0240 | /CHANGE '=' TO A SPACE |
| 738 | | | | | |
| 739 | | 6160 | | *6160 | |
| 740 | 16160 | 0000 | THISD, | 0 | |
| 741 | 16161 | 6201 | | CDF | |
| 742 | 16162 | 1423 | | TAD I THISLN | |
| 743 | 16163 | 6211 | | CDF 10 | |
| 744 | 16164 | 5760 | | JMP I THISD | |
| 745 | | | | | |
| 746 | 16165 | 0000 | PTID, | 0 | |
| 747 | 16166 | 6201 | | CDF | |
| 748 | 16167 | 1430 | | TAD I PT1 | |
| 749 | 16170 | 6211 | | CDF 10 | |
| 750 | 16171 | 5765 | | JMP I PTID | |

| | | | | | |
|-----|-------|------|---------|------------------------|------------------------------|
| 751 | | 6311 | | *6311 | |
| 752 | | | | | |
| 753 | 16311 | 4407 | XRAN, | FENT | /PSEUDO-RANDOM NUMBER |
| 754 | 16312 | 0337 | | FGET RNDM | /X(1)=(2^17+3)*X(0) MOD 2^16 |
| 755 | 16313 | 6040 | | FPUT FLOP | |
| 756 | 16314 | 0000 | | FEXT | |
| 757 | 16315 | 1335 | | TAD M16 | |
| 758 | 16316 | 3337 | | DCA T1S | |
| 759 | 16317 | 4527 | | JMS I DOUBLE | |
| 760 | 16320 | 2337 | | ISZ T1S | |
| 761 | 16321 | 5317 | | JMP -2 | |
| 762 | 16322 | 4736 | | JMS I ADDR | |
| 763 | 16323 | 4527 | | JMS I DOUBLE | |
| 764 | 16324 | 4736 | | JMS I ADDR | |
| 765 | 16325 | 4407 | | FINT | |
| 766 | 16326 | 6337 | | FPUT RNDM | |
| 767 | 16327 | 0000 | | FEXT | |
| 768 | 16330 | 3044 | | DCA FLAC | |
| 769 | 16331 | 7350 | | CLA CLL CMA RAR 7=3777 | |
| 770 | 16332 | 0045 | | AND FLAC+1 | |
| 771 | 16333 | 3045 | | DCA FLAC+1 | /BE POSITIVE IT'S POSITIVE |
| 772 | 16334 | 5536 | | JMP I EFUN3I | |
| 773 | | | | | |
| 774 | 16335 | 7762 | M16, | -16 | |
| 775 | 16336 | 5733 | ADDR, | DUBLAD | |
| 776 | | | | | |
| 777 | | 6337 | | RNDM= | |
| 778 | 16337 | 0000 | T1S, | 0 | |
| 779 | 16340 | 4421 | | 4421 | |
| 780 | 16341 | 3040 | | 3040 | |
| 781 | 16342 | 0001 | | 0001 | |
| 782 | | | | | |
| 783 | 16343 | 0000 | XRTD, | 0 | |
| 784 | 16344 | 6201 | | CDF | |
| 785 | 16345 | 1411 | | TAD I XRT | |
| 786 | 16346 | 6211 | | CDF 10 | |
| 787 | 16347 | 5743 | | JMP I XRTD | |
| 788 | | | | | |
| 789 | 16350 | 0000 | AXIND, | 0 | |
| 790 | 16351 | 6201 | | CDF | |
| 791 | 16352 | 3410 | | DCA I AXIN | |
| 792 | 16353 | 6211 | | CDF 10 | |
| 793 | 16354 | 5750 | | JMP I AXIND | |
| 794 | | | | | |
| 795 | 16355 | 6201 | TDUMPX, | CDF | |

| | | | |
|-----|-------|------|--------------------------------------|
| 796 | 16356 | 3761 | DCA I .+3 |
| 797 | 16357 | 6211 | CDF 10 |
| 798 | 16360 | 5762 | JMP I .+Z |
| 799 | 16361 | 0204 | PC0+4 |
| 800 | 16362 | 3063 | 3063 |
| 801 | | | |
| 802 | 16363 | 3016 | TELPCH, DCA TELSW /SETUP TO PRINTOUT |
| 803 | 16364 | 5765 | JMP I .+1 |
| 804 | 16365 | 2737 | RECOVR+1 |

/PATCHES TO FOCAL ITSELF!

PAL8-V7 8/15/72 PAGE 20

805
806

6545
16545 2406

*6545
FLTONE

/MOVED DOWN ONE

Moore Business Forms, Inc. f

/PATCHES TO FOCAL ITSELF!

PAL8-V7 8/15/72 PAGE 21

| | | |
|-----|------------|-------|
| 807 | 7003 | *7003 |
| 808 | 17003 0214 | 214 |

/^L IS IGNORED IN AN 'ASK' COMMAND

| | | | | | |
|-----|-------|------|-----------|-----------------------------|--------------------------------------|
| 809 | | | | /THIS IS THE "LIBRARY HEAD" | |
| 810 | | | | | |
| 811 | | 7503 | | *7503 | |
| 812 | | | | | |
| 813 | 17503 | 4560 | LIB, | SPNOR | /IGNORE SPACES |
| 814 | 17504 | 1016 | | TAD TELSW | /WAIT FOR OUTPUT TO FINISH |
| 815 | 17505 | 7640 | | SZA CLA | /(DECTAPE SYSTEMS REALLY NEED THIS!) |
| 816 | 17506 | 5304 | | JMP .-2 | |
| 817 | 17507 | 6002 | | IOF | |
| 818 | 17510 | 6203 | | CIF CDF | /CALL LOWER FIELD |
| 819 | 17511 | 5777 | | JMP I (LOWLIB | |
| 820 | | | | | |
| 821 | 17512 | 1376 | | TAD (JMP I GOSWITCH+1 | /RETURN TO APPROPRIATE ROUTINE |
| 822 | 17513 | 1315 | | TAD GOSWITCH | |
| 823 | 17514 | 3315 | | DCA GOSWITCH | |
| 824 | 17515 | 5716 | GOSWITCH, | JMP I .+1 | |
| 825 | | | | | |
| 826 | 17516 | 0611 | | PROC | |
| 827 | 17517 | 0177 | | START | |
| 828 | 17520 | 1553 | | LGOSUB | |
| 829 | 17521 | 0604 | | GOTO+1 | |
| 830 | | | | | |
| 831 | 17522 | 3046 | FIN, | DCA FLAC+2 | /SINGLE CHARACTER INPUT FUNCTION |
| 832 | 17523 | 3047 | | DCA FLAC+3 | /CLEAR FLAC |
| 833 | 17524 | 1054 | | TAD SORTCN | /SAVE SORTCN IN CASE OF RUBOUT OR LF |
| 834 | 17525 | 3347 | | DCA PGETLN | |
| 835 | 17526 | 4552 | | READC | /READ A CHAR |
| 836 | 17527 | 1066 | | TAD CHAR | /FLOAT IT |
| 837 | 17530 | 3045 | | DCA FLAC+1 | |
| 838 | 17531 | 1347 | | TAD PGETLN | /RESTORE SORTCN |
| 839 | 17532 | 3054 | | DCA SORTCN | |
| 840 | 17533 | 1005 | | TAD P13 | |
| 841 | 17534 | 3044 | | DCA FLAC | |
| 842 | 17535 | 5536 | | JMP I EFUN3I | |
| 843 | | | | | |
| 844 | 17536 | 4453 | FOUT, | INTEGER | /SINGLE CHARACTER OUTPUT FUNCTION |
| 845 | 17537 | 7450 | | SNA | |
| 846 | 17540 | 1124 | | TAD P4000 | /IN CASE IT'S ZERO |
| 847 | 17541 | 4551 | | PRINTC | |
| 848 | 17542 | 5536 | | JMP I EFUN3I | |
| 849 | | | | | |
| 850 | 17543 | 0000 | CPRNT, | 0 | /CROSS FIELD FAKES! |
| 851 | 17544 | 4551 | | PRINTC | |
| 852 | 17545 | 6203 | | CIF CDF | |
| 853 | 17546 | 5743 | | JMP I CPRNT | |

| | | | | | |
|-----|-------|------|---------|---------------|-------------------------|
| 854 | | | | | |
| 855 | 17547 | 0000 | FGETLN, | 0 | |
| 856 | 17550 | 4554 | | GETLN | |
| 857 | 17551 | 6203 | | CIF CDF | |
| 858 | 17552 | 5747 | | JMP I PGETLN | |
| 859 | | | | | |
| 860 | 17553 | 1375 | FRAN, | TAD (XTRAN | /RANDOM RANDOM NUMBERS |
| 861 | 17554 | 3774 | | DCA I (400 | /(FIRST CALL ONLY) |
| 862 | 17555 | 1004 | | TAD RISZ | /INITIALIZE 'RNDM' |
| 863 | 17556 | 3773 | | DCA I (RNDM+1 | |
| 864 | 17557 | 5775 | | JMP I (XTRAN | |
| 865 | | | | | |
| 866 | 17560 | 1045 | XSGN, | TAD FLAC+1 | /REAL SIGNUM FUNCTION!! |
| 867 | 17561 | 7650 | | SNA CLA | |
| 868 | 17562 | 5536 | | JMP I EFUN3I | |
| 869 | 17563 | 4543 | | PUSHF | |
| 870 | 17564 | 2406 | | | FLTONE |
| 871 | 17565 | 4544 | | POPF | |
| 872 | 17566 | 0044 | | | FLAC |
| 873 | 17567 | 5772 | | JMP XABS | |
| 874 | | | | | |
| 875 | 17572 | 2014 | | | |
| 876 | 17573 | 6340 | | | |
| 877 | 17574 | 0400 | | | |
| 878 | 17575 | 6311 | | | |
| 879 | 17576 | 5716 | | | |
| 880 | 17577 | 6400 | | | |
| 881 | | 7600 | | PAGE | |

| | | | | |
|-----|-------|------|---------------------------------|--|
| 882 | | | /INITIAL DIALOGUE FOR PS/8 FOCA | |
| 883 | | | | |
| 884 | | 0176 | *176 | |
| 885 | 10176 | 4000 | INIT | |
| 886 | | | | |
| 887 | | 4000 | *4000 | |
| 888 | 14000 | 1377 | INIT, TAD (TELPCH | |
| 889 | 14001 | 3176 | DCA 176 | |
| 890 | 14002 | 3016 | DCA TELSW | |
| 891 | 14003 | 6201 | CDF | |
| 892 | 14004 | 1776 | TAD I (207 | /MOVE LENGTH OF INITIAL DIALOGUE |
| 893 | 14005 | 6211 | CDF 10 | |
| 894 | 14006 | 3060 | DCA BUFR | /(JUST IN CASE) |
| 895 | 14007 | 6001 | ION | |
| 896 | 14010 | 4540 | PUSHJ | |
| 897 | 14011 | 0421 | | DO+1 |
| 898 | 14012 | 6002 | IOF | |
| 899 | 14013 | 1375 | TAD (4300 | /"#@" FOR SYSTEM STATUS |
| 900 | 14014 | 4774 | JMS LOOKUP | |
| 901 | 14015 | 7340 | CLA CLL CMA | |
| 902 | 14016 | 1030 | TAD PT1 | |
| 903 | 14017 | 3030 | DCA PT1 | |
| 904 | 14020 | 4407 | FINT | /GET SYSTEM STATUS VARIABLE |
| 905 | 14021 | 0430 | FGET I PT1 | |
| 906 | 14022 | 6350 | FPUT INITMP | /SAVE IT FOR LATER |
| 907 | 14023 | 0000 | FEXT | |
| 908 | 14024 | 1045 | TAD FLAC+1 | /IF IT'S ZERO, INITIAL DIALOGUE WASN'T THERE |
| 909 | 14025 | 7650 | SNA CLA | |
| 910 | 14026 | 5325 | JMP SECRET | /ASSUME STANDARD FEATURES |
| 911 | 14027 | 1373 | CHKLOG, TAD (100 | /"A@" (KEEP SIN & COS) |
| 912 | 14030 | 4774 | JMS LOOKUP | |
| 913 | 14031 | 7640 | SZA CLA | |
| 914 | 14032 | 5237 | JMP CHKSIN | |
| 915 | 14033 | 4772 | JMS CHANGE | /KILL ALL EXTENDED FUNCTIONS |
| 916 | 14034 | 4322 | | SINADD-1 |
| 917 | 14035 | 1371 | TAD (XTAB-1 | /SET VARIABLE BOTTOM |
| 918 | 14036 | 5246 | JMP CHKFIL-1 | |
| 919 | 14037 | 1370 | CHKSIN, TAD (200 | /"B@" (KEEP ALL FUNCTIONS) |
| 920 | 14040 | 4774 | JMS LOOKUP | |
| 921 | 14041 | 7640 | SZA CLA | |
| 922 | 14042 | 5247 | JMP CHKFIL | |
| 923 | 14043 | 4772 | JMS CHANGE | /KILL LOG, EXP, ATN |
| 924 | 14044 | 4326 | | LOGADD-1 |
| 925 | 14045 | 1367 | TAD (5177 | /AND RESET BOTTOM |
| 926 | 14046 | 3035 | DCA BOTTOM | |

| | | | | | |
|-----|-------|-------|---------|---------------|---|
| 927 | 14047 | 1366 | CHKFIL, | TAD (400 | / "D@" (FILE COMMANDS) |
| 928 | 14050 | 4774' | | JMS LOOKUP | |
| 929 | 14051 | 7640 | | SZA CLA | |
| 930 | 14052 | 5255 | | JMP CHKSP | |
| 931 | 14053 | 4772' | | JMS CHANGE | /KILL FILE COMMANDS |
| 932 | 14054 | 4313 | | FILADD-1 | |
| 933 | 14055 | 1365 | CHKSP, | TAD (500 | / "E@" (LEADING SPACE IN TYPE [FOR FILE]) |
| 934 | 14056 | 4774' | | JMS LOOKUP | |
| 935 | 14057 | 7640 | | SZA CLA | |
| 936 | 14060 | 5263 | | JMP CHKEQ | |
| 937 | 14061 | 4772' | | JMS CHANGE | |
| 938 | 14062 | 4342 | | SPADD-1 | |
| 939 | 14063 | 1364 | CHKED, | TAD (700 | / "G@" ("=" IN TYPE) |
| 940 | 14064 | 4774' | | JMS LOOKUP | |
| 941 | 14065 | 7650 | | SNA CLA | /REVERSE SENSE ON NON-STANDARD FEATURES |
| 942 | 14066 | 5271 | | JMP CHKCOL | |
| 943 | 14067 | 4772' | | JMS CHANGE | |
| 944 | 14070 | 4347 | | EQADD-1 | |
| 945 | 14071 | 1363 | CHKCOL, | TAD (1000 | / "H@" (FOR " IN ASK) |
| 946 | 14072 | 4774' | | JMS LOOKUP | |
| 947 | 14073 | 7650 | | SNA CLA | |
| 948 | 14074 | 5277 | | JMP CHKAMP | |
| 949 | 14075 | 4772' | | JMS CHANGE | |
| 950 | 14076 | 4335 | | COLADD-1 | |
| 951 | 14077 | 1362 | CHKAMP, | TAD (1100 | / "I@" (FOR & INSTEAD OF E) |
| 952 | 14100 | 4774' | | JMS LOOKUP | |
| 953 | 14101 | 7650 | | SNA CLA | |
| 954 | 14102 | 5305 | | JMP CHKPRC | |
| 955 | 14103 | 4772' | | JMS CHANGE | |
| 956 | 14104 | 4356 | | AMPADD-1 | |
| 957 | 14105 | 1361 | CHKPRC, | TAD (300 | / "C@" (EXTENDED PRECISION) |
| 958 | 14106 | 4774' | | JMS LOOKUP | |
| 959 | 14107 | 7640 | | SZA CLA | |
| 960 | 14110 | 5325 | | JMP SECRET | |
| 961 | 14111 | 4772' | | JMS CHANGE | |
| 962 | 14112 | 4221 | | FORADD-1 | |
| 963 | 14113 | 1360 | | TAD (-31 | |
| 964 | 14114 | 3774' | | DCA LOOKUP | |
| 965 | 14115 | 1357 | | TAD (7270 | |
| 966 | 14116 | 3010 | | DCA 10 | |
| 967 | 14117 | 1356 | | TAD (FORFIN-1 | |
| 968 | 14120 | 3011 | | DCA 11 | |
| 969 | 14121 | 1411 | | TAD I 11 | |
| 970 | 14122 | 3410 | | DCA I 10 | |
| 971 | 14123 | 2774' | | ISZ LOOKUP | |

| | | | | |
|------|-------|------|------------------|------------------------------------|
| 972 | 14124 | 5321 | JMP .-3 | |
| 973 | 14125 | 1134 | SECRET, TAD END | |
| 974 | 14126 | 3031 | DCA LASTV | /ERASE VARIABLES |
| 975 | 14127 | 1355 | TAD (4100 | |
| 976 | 14130 | 4774 | JMS LOOKUP | /CREATE THE THREE SECRET VARIABLES |
| 977 | 14131 | 1374 | TAD (4200 | |
| 978 | 14132 | 4774 | JMS LOOKUP | |
| 979 | 14133 | 1375 | TAD (4300 | |
| 980 | 14134 | 4774 | JMS LOOKUP | |
| 981 | 14135 | 7340 | CLA CLL CMA | |
| 982 | 14136 | 1030 | TAD PT1 | |
| 983 | 14137 | 3030 | DCA PT1 | /BACKUP PT1 |
| 984 | 14140 | 4407 | FINT | /RESTORE SYSTEM SECRET VARIABLE |
| 985 | 14141 | 0350 | FGET INITMP | |
| 986 | 14142 | 6430 | FPUT I PT1 | |
| 987 | 14143 | 0000 | FEXT | |
| 988 | 14144 | 1031 | TAD LASTV | |
| 989 | 14145 | 3134 | DCA END | /MAKE THEM SECRET |
| 990 | 14146 | 5747 | JMP I .+1 | |
| 991 | 14147 | 2214 | 2214 | /ERASE ALL TEXT |
| 992 | | | | |
| 993 | 14150 | 0000 | INITMP, ZBLOCK 4 | /HOLDING AREA FOR '#' |
| 994 | | | | |
| 995 | 14155 | 4100 | | |
| 996 | 14156 | 4262 | | |
| 997 | 14157 | 7270 | | |
| 998 | 14160 | 7747 | | |
| 999 | 14161 | 0300 | | |
| 1000 | 14162 | 1100 | | |
| 1001 | 14163 | 1000 | | |
| 1002 | 14164 | 0700 | | |
| 1003 | 14165 | 0500 | | |
| 1004 | 14166 | 0400 | | |
| 1005 | 14167 | 5177 | | |
| 1006 | 14170 | 0200 | | |
| 1007 | 14171 | 5351 | | |
| 1008 | 14172 | 4207 | | |
| 1009 | 14173 | 0100 | | |
| 1010 | 14174 | 4200 | | |
| 1011 | 14175 | 4300 | | |
| 1012 | 14176 | 0207 | | |
| 1013 | 14177 | 6363 | | |
| 1014 | | 4200 | PAGE | |

| | | | | |
|------|-------|------|-----------------|---|
| 1015 | 14200 | 0000 | LOOKUP, 0 | |
| 1016 | 14201 | 3061 | DCA ADD | |
| 1017 | 14202 | 4540 | PUSHJ | |
| 1018 | 14203 | 1437 | | GS1 |
| 1019 | 14204 | 2030 | ISZ PTI | |
| 1020 | 14205 | 1430 | TAD I PT1 | /PICK UP FIRST SIGNIFICANT WORD |
| 1021 | 14206 | 5600 | JMP I LOOKUP | |
| 1022 | | | | |
| 1023 | 14207 | 0000 | CHANGE, 0 | |
| 1024 | 14210 | 1607 | TAD I CHANGE | |
| 1025 | 14211 | 2207 | ISZ CHANGE | |
| 1026 | 14212 | 3010 | DCA 10 | |
| 1027 | 14213 | 1410 | CLOOP, TAD I 10 | |
| 1028 | 14214 | 7450 | SNA | |
| 1029 | 14215 | 5607 | JMP I CHANGE | |
| 1030 | 14216 | 3071 | DCA T2 | |
| 1031 | 14217 | 1410 | TAD I 10 | |
| 1032 | 14220 | 3471 | DCA I T2 | |
| 1033 | 14221 | 5213 | JMP CLOOP | |
| 1034 | | | | |
| 1035 | | | | /THESE ARE THE LISTS TO PATCH FOCA TO YOUR CUSTOMIZED SPECS |
| 1036 | | | | |
| 1037 | 14222 | 0070 | FORADD, 70 | |
| 1038 | 14223 | 0005 | 5 | |
| 1039 | 14224 | 0117 | 117 | |
| 1040 | 14225 | 7775 | 7775 | |
| 1041 | 14226 | 5526 | 5526 | |
| 1042 | 14227 | 7772 | 7772 | |
| 1043 | 14230 | 5527 | 5527 | |
| 1044 | 14231 | 0007 | 7 | |
| 1045 | 14232 | 5310 | 5310 | |
| 1046 | 14233 | 3756 | 3756 | |
| 1047 | 14234 | 5314 | 5314 | |
| 1048 | 14235 | 3756 | 3756 | |
| 1049 | 14236 | 5320 | 5320 | |
| 1050 | 14237 | 3756 | 3756 | |
| 1051 | 14240 | 6143 | 6143 | |
| 1052 | 14241 | 7771 | 7771 | |
| 1053 | 14242 | 6277 | 6277 | |
| 1054 | 14243 | 3147 | 3147 | |
| 1055 | 14244 | 6402 | 6402 | |
| 1056 | 14245 | 3047 | 3047 | |
| 1057 | 14246 | 6540 | 6540 | |
| 1058 | 14247 | 3043 | 3043 | |
| 1059 | 14250 | 6736 | 6736 | |

| | | | | |
|------|-------|------|---------------|---------------|
| 1060 | 14251 | 0027 | | 27 |
| 1061 | 14252 | 7036 | | 7036 |
| 1062 | 14253 | 5263 | | 5263 |
| 1063 | 14254 | 7105 | | 7105 |
| 1064 | 14255 | 2047 | | 2047 |
| 1065 | 14256 | 7072 | | 7072 |
| 1066 | 14257 | 3047 | | 3047 |
| 1067 | 14260 | 7260 | | 7260 |
| 1068 | 14261 | 7751 | | 7751 |
| 1069 | 14262 | 0000 | | 0 |
| 1070 | | | | |
| 1071 | 14263 | 1042 | FORFIN, | 1042 |
| 1072 | 14264 | 1046 | | 1046 |
| 1073 | 14265 | 3256 | | 3256 |
| 1074 | 14266 | 7004 | | 7004 |
| 1075 | 14267 | 1045 | | 1045 |
| 1076 | 14270 | 1041 | | 1041 |
| 1077 | 14271 | 7420 | | 7420 |
| 1078 | 14272 | 5304 | | 5304 |
| 1079 | 14273 | 3045 | | 3045 |
| 1080 | 14274 | 1256 | | 1256 |
| 1081 | 14275 | 3046 | | 3046 |
| 1082 | 14276 | 7200 | | 7200 |
| 1083 | 14277 | 1254 | | 1254 |
| 1084 | 14300 | 7004 | | 7004 |
| 1085 | 14301 | 3254 | | 3254 |
| 1086 | 14302 | 1200 | | 1200 |
| 1087 | 14303 | 7004 | | 7004 |
| 1088 | 14304 | 3200 | | 3200 |
| 1089 | 14305 | 2255 | | 2255 |
| 1090 | 14306 | 5267 | | 5267 |
| 1091 | 14307 | 1254 | | 1254 |
| 1092 | 14310 | 3046 | | 3046 |
| 1093 | 14311 | 1200 | | 1200 |
| 1094 | 14312 | 3045 | | 3045 |
| 1095 | 14313 | 5661 | | 5661 |
| 1096 | | | | |
| 1097 | 14314 | 0226 | FILADD, PUSHB | /PATCH PUSHB |
| 1098 | 14315 | 5644 | MPUSHA-1+13 | |
| 1099 | 14316 | 0367 | PUSHB1 | /PATCH PUSHB1 |
| 1100 | 14317 | 5611 | 5576+13 | |
| 1101 | 14320 | 1201 | | /PATCH COMGO |
| 1102 | 14321 | 2725 | | 2725 |
| 1103 | 14322 | 0000 | | 0 |
| 1104 | | | | |

Moore Business Forms, Inc. f

| | | | | | |
|------|-------|------|---------|-------------|----------------------------|
| 1105 | 14323 | 0405 | SINADD, | 405 | |
| 1106 | 14324 | 2725 | | 2725 | |
| 1107 | 14325 | 0406 | | 406 | |
| 1108 | 14326 | 2725 | | 2725 | |
| 1109 | 14327 | 0402 | LOGADD, | 402 | |
| 1110 | 14330 | 2725 | | 2725 | |
| 1111 | 14331 | 0403 | | 403 | |
| 1112 | 14332 | 2725 | | 2725 | |
| 1113 | 14333 | 0404 | | 404 | |
| 1114 | 14334 | 2725 | | 2725 | |
| 1115 | 14335 | 0000 | | 0 | |
| 1116 | | | | | |
| 1117 | 14336 | 1216 | COLADD, | 1216 | |
| 1118 | 14337 | 1371 | | 1371 | /TAD ALIST' |
| 1119 | 14340 | 1217 | | 1217 | |
| 1120 | 14341 | 4400 | | JMS I ECHOP | |
| 1121 | 14342 | 0000 | | 0 | |
| 1122 | | | | | |
| 1123 | 14343 | 6001 | SPADD, | 6001 | |
| 1124 | 14344 | 7300 | | CLA CLL | /DON'T PRINT LEADING SPACE |
| 1125 | 14345 | 6002 | | 6002 | |
| 1126 | 14346 | 7300 | | CLA CLL | |
| 1127 | 14347 | 0000 | | 0 | |
| 1128 | | | | | |
| 1129 | 14350 | 6001 | EQADD, | 6001 | |
| 1130 | 14351 | 1335 | | 1335 | /TAD PER' |
| 1131 | 14352 | 6002 | | 6002 | |
| 1132 | 14353 | 4551 | | PRINTC | |
| 1133 | 14354 | 6135 | | 6135 | |
| 1134 | 14355 | 0275 | | 0275 | /PRINT LEADING '= |
| 1135 | 14356 | 0000 | | 0 | |
| 1136 | | | | | |
| 1137 | 14357 | 5662 | AMPADD, | 5662 | |
| 1138 | 14360 | 7532 | | 7532 | |
| 1139 | 14361 | 6133 | | 6133 | |
| 1140 | 14362 | 0246 | | 246 | |
| 1141 | 14363 | 6301 | | 6301 | |
| 1142 | 14364 | 7532 | | 7532 | |
| 1143 | 14365 | 0000 | | 0 | |
| 1144 | | | | | |
| 1145 | | 4400 | | PAGE | |

1146 /PS/8 FOCAL LIBRARY ROUTINES

1147

1148 0000 FIELD 0

1149

1150 0001 *1 /INTERRUPT SERVICE ROUTINE

1151

1152 00001 6213 CIF CDF 10

1153 00002 5403 JMP I .+1

1154 00003 2603 2603

1155

1156 00004 6244 RMF /RETURN FROM INTERRUPT

1157 00005 6001 ION

1158 00006 5400 JMP I 0

1159

1160 0010 *10

1161 00010 0000 AUTO1, 0 /AUTO-INDEX REGISTERS... ACTUALLY USE SOME

1162 00011 0000 AUTO2, 0

1163 00012 0000 AUTO3, 0

1164 00013 0000 AUTO4, 0

1165 00014 0000 AUTO5, 0

1166 00015 0000 AUTO6, 0

1167 00016 0000 AUTO7, 0

1168 00017 0000 AUTO8, 0

1169 00020 0000 XCNT, 0 /GENERAL COUNTER--SUCH AS FOR MPD2, MPD3

1170 00021 7700 USR, 7700 /POINTER TO MONITOR (200 IF IN CORE)

1171 00022 4577 EXIT, JMS I [DISMIS /NORMAL RETURN FOR PS/8 COMMANDS

1172 00023 6001 ION

1173 00024 6213 CDF CIF 10

1174 00025 5426 JMP I .+1

1175 00026 7512 GOSWITCH-3

1176

1177 00027 0000 NAMLOC, ZBLOCK 3

1178 00032 0000 EXTENSION, 0 /"FC" OR "FD"

1179 00033 0000 LISTFLG, 0

1180 00034 0000 NEWDEV, ZBLOCK 2

1181 00036 0000 TEM7, 0

1182 00037 0000 ATEM, 0

1183 00040 0066 XCHAR, CHAR

1184 00041 7607 SHNDLR, 7607

1185 /DEFINE LOWER FIELD INSTRUCTIONS . . .

1186

1187 4442 TGETC=JMS I .

1188 00042 7350 XGETC

1189 4443 TPOPA=JMS I .

1190 00043 5733 RPOPA

Moore Business Forms, Inc. f

| | | | | |
|------|-------|------|-----------|-----------------------------|
| 1191 | | 4444 | | TPUSHA=JMS I . |
| 1192 | 00044 | 5632 | | MPUSHA |
| 1193 | | 4445 | | TPUSHF=JMS I . |
| 1194 | 00045 | 5657 | | MPD2 |
| 1195 | | 4446 | | TPOFF=JMS I . |
| 1196 | 00046 | 5706 | | MPD3 |
| 1197 | | 4447 | | TSORTJ=JMS I . |
| 1198 | 00047 | 6737 | | MSORTJ |
| 1199 | | | | |
| 1200 | 00050 | 0000 | ECHFLG, 0 | |
| 1201 | 00051 | 0000 | OPNFLG, 0 | |
| 1202 | 00052 | 0000 | IPNFLG, 0 | |
| 1203 | 00053 | 0000 | FLNGTH, 0 | |
| 1204 | 00054 | 0000 | STBLK, 0 | |
| 1205 | 00055 | 0000 | DEVND, 0 | |
| 1206 | 00056 | 0000 | LIBBLK, 0 | /FOR DEVICE NAME |
| 1207 | 00057 | 0000 | | 0 |
| 1208 | 00060 | 7400 | | 7400 /LOAD POINT |
| 1209 | 00061 | 0000 | | 0 /FOR DEVICE # |
| 1210 | 00062 | 0000 | LIBHND, 0 | /HANDLER ENTRY |
| 1211 | | 4463 | | TESTRM=JMS I . |
| 1212 | 00063 | 5765 | | MSORTC |
| 1213 | | 4464 | | ERROR1=JMS I . |
| 1214 | 00064 | 7244 | | ERROR |
| 1215 | | 0066 | | *66 |
| 1216 | 00066 | 0000 | CHAR, 0 | /FOR OBSCURE FAKING REASONS |
| 1217 | | | | |
| 1218 | 00067 | 0000 | INBLK, 0 | |
| 1219 | 00070 | 0000 | | 0 |
| 1220 | 00071 | 5000 | | 5000 |
| 1221 | 00072 | 0000 | | 0 |
| 1222 | 00073 | 0000 | INHND, 0 | |
| 1223 | | | | |
| 1224 | 00074 | 0000 | OUTBLK, 0 | |
| 1225 | 00075 | 0000 | | 0 |
| 1226 | 00076 | 5200 | | 5200 |
| 1227 | 00077 | 0000 | | 0 |
| 1228 | 00100 | 0000 | OUTHND, 0 | |
| 1229 | | | | |
| 1230 | | 4501 | | TPRINTC=JMS I . |
| 1231 | 00101 | 6321 | | MPRINTC |
| 1232 | | 4502 | | TGETLN=JMS I . |
| 1233 | 00102 | 7340 | | MGETLN |
| 1234 | | 4503 | | TSPNOR=JMS I . |
| 1235 | 00103 | 6726 | | XTSPNOR |

1236 00104 0000 LIBFIL, 0

1237 00105 0000 DEVHLD, 0

1238

1239 0200 PAGE

| | | | | |
|------|-------|------|--------|------------------------------|
| 1240 | | | | /INITIAL TEXT FOR PS/8 FOCAL |
| 1241 | | | | |
| 1242 | | 0200 | | *200 |
| 1243 | 00200 | 0000 | PCO, | 0 |
| 1244 | 00201 | 0000 | | 0 |
| 1245 | 00202 | 0000 | | 0 |
| 1246 | 00203 | 0000 | | 0 |
| 1247 | 00204 | 0000 | | 0 |
| 1248 | 00205 | 5051 | | 5051 |
| 1249 | 00206 | 0060 | | BUFR |
| 1250 | 00207 | 0224 | | LINE1 |
| 1251 | 00210 | 0000 | LINE0, | 0 |
| 1252 | 00211 | 0000 | | 0 |
| 1253 | 00212 | 0355 | | TEXT "C-PS/8 FOCAL, 1971" |
| 1254 | 00213 | 2023 | | |
| 1255 | 00214 | 5770 | | |
| 1256 | 00215 | 4006 | | |
| 1257 | 00216 | 1703 | | |
| 1258 | 00217 | 0114 | | |
| 1259 | 00220 | 5440 | | |
| 1260 | 00221 | 6171 | | |
| 1261 | 00222 | 6761 | | |
| 1262 | 00223 | 0000 | | |
| 1263 | | 0223 | | *. -1 |
| 1264 | 00223 | 7715 | | 7715 /DUMMY CR |
| 1265 | | 0224 | | LINE1=. |
| 1266 | | 0400 | | PAGE |

| | | /PS/8 FOCAL FILE ROUTINES | | |
|------|-------|---------------------------|-----------------|--------------------------------------|
| 1267 | | | | |
| 1268 | | | | |
| 1269 | | 3614 | | *3614 |
| 1270 | | | | |
| 1271 | 03614 | 4503 | RESTORE, TSPNDR | /OPEN RESTORE COMMAND |
| 1272 | 03615 | 1066 | TAD CHAR | /SAVE COMMAND CHAR (3 WORD COMMAND!) |
| 1273 | 03616 | 4444 | TPUSHA | |
| 1274 | 03617 | 4442 | TGETC | |
| 1275 | 03620 | 4463 | TESTRM | /GO TO END OF COMMAND WORD |
| 1276 | 03621 | 7610 | SKP CLA | |
| 1277 | 03622 | 5217 | JMP -3 | |
| 1278 | 03623 | 7340 | CLA CLL CMA | /INITIALIZE ECHO SWITCH |
| 1279 | 03624 | 3050 | DCA ECHFLG | |
| 1280 | 03625 | 4576 | JMS I [NAME | /JUST TO SET ECHO MODE |
| 1281 | 03626 | 4443 | TPOPA | |
| 1282 | 03627 | 1175 | TAD ["I | /OPEN RESTORE INPUT? |
| 1283 | 03630 | 7450 | SNA | |
| 1284 | 03631 | 5574 | JMP I [IRST | /YES |
| 1285 | 03632 | 1173 | TAD ["I-"0 | /NO, MUST BE OUTPUT |
| 1286 | 03633 | 7640 | SZA CLA | |
| 1287 | 03634 | 4464 | ERROR1 | /NEITHER ONE! |
| 1288 | 03635 | 5572 | JMP I [ORST | |
| 1289 | | | | |
| 1290 | 03636 | 0000 | OCLOSE, 0 | /CLOSE THE OPEN OUTPUT FILE |
| 1291 | 03637 | 1051 | TAD OPNFLG | |
| 1292 | 03640 | 7650 | SNA CLA | /DON'T BOTHER IF IT ISN'T OPEN |
| 1293 | 03641 | 5636 | JMP I OCLOSE | |
| 1294 | 03642 | 1171 | TAD [232 | /WRITE '^Z' |
| 1295 | 03643 | 4267 | JMS NOCHAR | |
| 1296 | 03644 | 1372 | TAD OPTR1 | /PAD BUFFER WITH ZEROS |
| 1297 | 03645 | 1377 | TAD (-4400 | /(AND WRITE IT OUT) |
| 1298 | 03646 | 7640 | SZA CLA | |
| 1299 | 03647 | 5243 | JMP -4 | |
| 1300 | 03650 | 1105 | TAD DEVHLD | /SAVED DEVICE # |
| 1301 | 03651 | 6002 | IOF | |
| 1302 | 03652 | 6212 | CIF 10 | |
| 1303 | 03653 | 4421 | JMS I USR | |
| 1304 | 03654 | 0004 | 4 | |
| 1305 | 03655 | 5551 | DNMTMP | /POINTER TO SAVED NAME |
| 1306 | 03656 | 0000 | BLKCNT, 0 | /FILE LENGTH (BLOCKS) |
| 1307 | 03657 | 4464 | ERROR1 | /HUH? |
| 1308 | 03660 | 3051 | DCA OPNFLG | /CLEAR 'FILE OPEN' FLAG |
| 1309 | 03661 | 6001 | ION | |
| 1310 | 03662 | 6211 | CDF 10 | |
| 1311 | 03663 | 1170 | TAD [OUTL | /RESTORE TELETYPE OUTPUT ROUTINE |

Moore Business Forms, Inc. f

| | | | | | | |
|------|-------|------|---------|-------|-------------|---|
| 1312 | 03664 | 3567 | | DCA I | OUTDEV | |
| 1313 | 03665 | 6201 | | CDF | | |
| 1314 | 03666 | 5636 | | JMP I | OCLOSE | /DO WHATEVER ELSE NEEDS TO BE DONE |
| 1315 | | | | | | |
| 1316 | 03667 | 0000 | NOCHAR, | 0 | | /PS/8 3/2 BUFFERED CHARACTER OUTPUT |
| 1317 | 03670 | 4566 | | JMS I | [FLDSET | /CALLED FROM EITHER FIELD |
| 1318 | 03671 | 3332 | | DCA | CCIF | /SAVE CALLING FIELD |
| 1319 | 03672 | 6201 | | CDF | | |
| 1320 | 03673 | 1037 | | TAD | ATEM | /CHARACTER TO BE OUTPUT |
| 1321 | 03674 | 0376 | | AND | (377 | /MASK OUT GARBAGE |
| 1322 | 03675 | 2334 | | ISZ | 03 | /WHICH CHAR OF THREE? |
| 1323 | 03676 | 5330 | | JMP | 02 | /STRAIGHT PACKING |
| 1324 | 03677 | 4334 | | JMS | RT | /HALF WORD PACKING - PACK FIRST HALF |
| 1325 | 03700 | 1037 | | TAD | ATEM | /GET SAVED ARG |
| 1326 | 03701 | 4334 | | JMS | RT | /PACK SECOND HALF |
| 1327 | 03702 | 7346 | | CLA | CLL CMA RTL | /RESET 3-WAY SWITCH |
| 1328 | 03703 | 3334 | | DCA | 03 | |
| 1329 | 03704 | 2375 | | ISZ | OCHCT | /BUFFER CAN ONLY BE FILLED WITH 3RD CHAR OF 3 |
| 1330 | 03705 | 5332 | | JMP | CCIF | /NOT FULL YET, RETURN TO CALLING ROUTINE |
| 1331 | 03706 | 4565 | | JMS I | [PUTDEV | /TELL THE MONITOR THIS HANDLER'S IN CORE |
| 1332 | 03707 | 0077 | | | OUTHND-I | /POINTER TO DEVICE # AND ENTRY |
| 1333 | 03710 | 7300 | | CLA | CLL | |
| 1334 | 03711 | 1374 | | TAD | QLNGTH | /-MAXIMUM ALLOWABLE LENGTH |
| 1335 | 03712 | 1256 | | TAD | BLKCNT | /LENGTH SO FAR |
| 1336 | 03713 | 7630 | | SZL | CLA | /HAS HE GONE TOO FAR? |
| 1337 | 03714 | 5346 | | JMP | OOVER | /YES, KILL HIM |
| 1338 | 03715 | 6002 | | IDF | | |
| 1339 | 03716 | 4500 | | JMS I | OUTHND | /WRITE ONE BLOCK BUFFER |
| 1340 | 03717 | 4200 | | | 4200 | |
| 1341 | 03720 | 4400 | | | 4400 | |
| 1342 | 03721 | 0000 | OBLK, | 0 | | |
| 1343 | 03722 | 5564 | | JMP I | [DERR | /DEVICE ERROR |
| 1344 | 03723 | 2321 | | ISZ | OBLK | /BUMP OUTPUT BLOCK |
| 1345 | 03724 | 2256 | | ISZ | BLKCNT | /AND COUNT OF BLOCKS SO FAR |
| 1346 | 03725 | 4360 | | JMS | OSETUP | /RESET POINTERS FOR NEXT BUFFER |
| 1347 | 03726 | 6001 | | ION | | |
| 1348 | 03727 | 5332 | | JMP | CCIF | |
| 1349 | 03730 | 3772 | 02, | DCA I | OPTR1 | /NORMAL PACKING IS EASY! |
| 1350 | 03731 | 2372 | | ISZ | OPTR1 | /BUMP POINTER |
| 1351 | 03732 | 7402 | CCIF, | HLT | | /FILLED WITH CIF CDF |
| 1352 | 03733 | 5667 | | JMP I | NOCHAR | |
| 1353 | | | | | | |
| 1354 | | 3734 | | 03= | | /WHY NOT? |
| 1355 | 03734 | 0000 | RT, | 0 | | /HALF-WORD PACK ROUTINE |
| 1356 | 03735 | 7106 | | CLL | RTL | |

| | | | | | |
|------|-------|------|---------|-----------------|-------------------------------------|
| 1357 | 03736 | 7006 | | RTL | |
| 1358 | 03737 | 3037 | | DCA ATEM | /SAVE FOR SECOND HALF |
| 1359 | 03740 | 1037 | | TAD ATEM | |
| 1360 | 03741 | 0163 | | AND L7400 | |
| 1361 | 03742 | 1773 | | TAD I OPTR2 | /ADD IN CHARACTER IN RIGHT HALF |
| 1362 | 03743 | 3773 | | DCA I OPTR2 | /PACK IT |
| 1363 | 03744 | 2373 | | ISZ OPTR2 | /BUMP POINTER AGAIN |
| 1364 | 03745 | 5734 | | JMP I RT | |
| 1365 | | | | | |
| 1366 | 03746 | 3051 | DOVER, | DCA OPNFLG | /HE BLEW IT - KILL THE FILE!! |
| 1367 | 03747 | 1105 | | TAD DEVHLD | |
| 1368 | 03750 | 6002 | | IDF | |
| 1369 | 03751 | 6212 | | CIF 10 | |
| 1370 | 03752 | 4421 | | JMS I USR | |
| 1371 | 03753 | 0004 | | 4 | |
| 1372 | 03754 | 5551 | | ONMTMP | |
| 1373 | 03755 | 0000 | | 0 | /LENGTH OF ZERO TO DELETE |
| 1374 | 03756 | 7600 | 07600, | 7600 | /IGNORE ERRORS |
| 1375 | 03757 | 4464 | | ERROR1 | /BECAUSE WE ALREADY KNOW ABOUT THEM |
| 1376 | | | | | |
| 1377 | 03760 | 0000 | OSETUP, | 0 | /RESET ALL THE POINTERS (WHAT FUN!) |
| 1378 | 03761 | 1320 | | TAD OBLK-1 | |
| 1379 | 03762 | 3372 | | DCA OPTR1 | |
| 1380 | 03763 | 1320 | | TAD OBLK-1 | |
| 1381 | 03764 | 3373 | | DCA OPTR2 | |
| 1382 | 03765 | 7346 | | CLA CLL CMA RTL | |
| 1383 | 03766 | 3334 | | DCA O3 | |
| 1384 | 03767 | 1356 | | TAD 07600 | |
| 1385 | 03770 | 3375 | | DCA OCHCT | |
| 1386 | 03771 | 5760 | | JMP I OSETUP | |
| 1387 | | | | | |
| 1388 | 03772 | 0000 | OPTR1, | 0 | |
| 1389 | 03773 | 0000 | OPTR2, | 0 | |
| 1390 | 03774 | 0000 | OLNGTH, | 0 | |
| 1391 | 03775 | 0000 | OCHCT, | 0 | |
| 1392 | | | | | |
| 1393 | 03776 | 0377 | | | |
| 1394 | 03777 | 3400 | | | |
| 1395 | | 4000 | | PAGE | |

| | | | | | |
|------|-------|-------|---------|----------------|---|
| 1396 | 5400 | #5400 | | | |
| 1397 | | | | | |
| 1398 | 05400 | 4562 | OPEN, | JMS I (IOWAIT | /WAIT FOR TELETYPE TO FINISH (DECTAPES ARE SLOW!) |
| 1399 | 05401 | 4561 | | JMS I (OPEN | /CALL USR, HANDLER; ENTER OUTPUT FILE |
| 1400 | 05402 | 0073 | YINT, | OUTBLK-I | /OUTPUT HANDLER BLOCK |
| 1401 | 05403 | 0003 | | 3 | /MONITOR 'ENTER' CODE |
| 1402 | 05404 | 5241 | YBLK, | JMP TTYOUT | //OPEN OUTPUT TTY:' |
| 1403 | 05405 | 5777 | | JMP OCLCHK | /ERROR ON ENTER - SEE IF FILE ALREADY OPEN |
| 1404 | 05406 | 4577 | | JMS I (DISMISS | /KICK USR OUT |
| 1405 | 05407 | 4445 | | TPUSHF | /SAVE NAME AND OTHER CRAP |
| 1406 | 05410 | 0027 | | NAMLOC | |
| 1407 | 05411 | 4446 | | TPOPF | |
| 1408 | 05412 | 5551 | | ONMTMP | |
| 1409 | 05413 | 1054 | | TAD STBLK | /STARTING BLOCK |
| 1410 | 05414 | 3776 | | DCA I (OBLK | |
| 1411 | 05415 | 1053 | | TAD FLNGTH | /-MAXIMUM ALLOWABLE LENGTH |
| 1412 | 05416 | 3775 | | DCA I (OLNGTH | |
| 1413 | 05417 | 4774 | | JMS I (OSETUP | /SET UP PACKING POINTERS |
| 1414 | 05420 | 7340 | | CLA CLL CMA | /THERE'S A FILE OPEN! |
| 1415 | 05421 | 3051 | | DCA OPNFLG | |
| 1416 | 05422 | 1055 | | TAD DEVNU | /SAVE FOR CLOSE |
| 1417 | 05423 | 3105 | | DCA DEVHLD | |
| 1418 | 05424 | 3773 | | DCA I (BLKCNT | /DITTO |
| 1419 | 05425 | 1051 | ORST, | TAD OPNFLG | /ENTRY FOR 'OPEN RESTORE OUTPUT' |
| 1420 | 05426 | 7650 | | SNA CLA | /IF 'OPEN OUTPUT', FLAG IS ALREADY SET |
| 1421 | 05427 | 4464 | | ERROR1 | /NO OUTPUT FILE TO RESTORE |
| 1422 | 05430 | 6211 | | ODF 10 | |
| 1423 | 05431 | 2050 | | ISZ ECHFLG | /SKIP IF NO ECHO |
| 1424 | 05432 | 1276 | | TAD IBLK+2 | |
| 1425 | 05433 | 3772 | | DCA I (OUTECH | /SET OUTPUT ROUTINE |
| 1426 | 05434 | 1371 | | TAD (OCHAR | /POINTER TO FILE OUTPUT ROUTINE |
| 1427 | 05435 | 6213 | | CIF ODF 10 | |
| 1428 | 05436 | 3567 | | DCA I (OUTDEV | |
| 1429 | 05437 | 6001 | | ION | |
| 1430 | 05440 | 5560 | | JMP I (PROC | /FINISH THE LINE |
| 1431 | 05441 | 1170 | TTYOUT, | TAD (OUTL | /SWITCH OUTPUT TO TELETYPE (INTERRUPT) |
| 1432 | 05442 | 5235 | | JMP .-5 | |
| 1433 | | | | | |
| 1434 | 05443 | 1440 | FILEST, | TAD I XCHAR | /HERE'S WHERE FILES START!! |
| 1435 | 05444 | 3066 | | DCA CHAR | /GET NEXT CHAR |
| 1436 | 05445 | 6201 | | ODF | |
| 1437 | 05446 | 1370 | | TAD (604 | /SET '.FD' ASSUMED EXTENSION |
| 1438 | 05447 | 3032 | | DCA EXTENSION | |
| 1439 | 05450 | 4503 | | TSPNOR | /SKIP SPACES |
| 1440 | 05451 | 1066 | | TAD CHAR | /SAVE COMMAND CHAR |

| | | | | | |
|------|-------|------|--------|--------------|----------------------------------|
| 1441 | 05452 | 4444 | | TPUSHA | |
| 1442 | 05453 | 4442 | | TGETC | |
| 1443 | 05454 | 4463 | | TESTRM | /GO TO END OF COMMAND WORD |
| 1444 | 05455 | 7610 | | SKP CLA | |
| 1445 | 05456 | 5253 | | JMP .-3 | |
| 1446 | 05457 | 4443 | | TPOPA | |
| 1447 | 05460 | 4447 | | TSORTJ | /GO DO COMMAND |
| 1448 | 05461 | 6763 | | FILIST-1 | |
| 1449 | 05462 | 7400 | | FILGO-FILIST | |
| 1450 | 05463 | 4464 | | ERROR1 | /OOPS - BAD 'O' COMMAND |
| 1451 | | | | | |
| 1452 | 05464 | 0000 | ICHR, | 0 | /GET A CHARACTER FROM A FILE |
| 1453 | 05465 | 7300 | | CLA CLL | /MAKE SURE |
| 1454 | 05466 | 2350 | | ISZ INCHT | /DO WE NEED ANOTHER BUFFER? |
| 1455 | 05467 | 5730 | | JMP I RDPTR | /NO, UNPACK THE CHARACTER |
| 1456 | 05470 | 6002 | | IOF | |
| 1457 | 05471 | 4473 | | JMS I INHND | /YES, GO GET IT |
| 1458 | 05472 | 0200 | | 0200 | |
| 1459 | 05473 | 4000 | | 4000 | |
| 1460 | 05474 | 0000 | IBLK, | 0 | |
| 1461 | 05475 | 7700 | | SMA CLA | /ONLY BOTHER WITH FATAL ERRORS |
| 1462 | 05476 | 7610 | | SKP CLA | |
| 1463 | 05477 | 5564 | | JMP I LDERR | /WE'VE GOT ONE |
| 1464 | 05500 | 6001 | | ION | |
| 1465 | 05501 | 2274 | | ISZ IBLK | /BUMP TO NEXT BLOCK |
| 1466 | 05502 | 1273 | | TAD IBLK-1 | /AND RESTORE POINTERS |
| 1467 | 05503 | 3347 | | DCA IPNTR | |
| 1468 | 05504 | 1161 | | TAD L7200 | |
| 1469 | 05505 | 3350 | | DCA INCHT | |
| 1470 | 05506 | 1747 | ICHR1, | TAD I IPNTR | /STRAIGHTFORWARD UNPACK ROUTINE |
| 1471 | 05507 | 4330 | | JMS RDPTR | /DO COMMON CRAP |
| 1472 | 05510 | 1747 | ICHR2, | TAD I IPNTR | /SAVE LEFT HALF FOR LATER |
| 1473 | 05511 | 0163 | | AND L7400 | |
| 1474 | 05512 | 3346 | | DCA ITEMP | |
| 1475 | 05513 | 2347 | | ISZ IPNTR | /INCREMENT TO NEXT WORD |
| 1476 | 05514 | 1747 | | TAD I IPNTR | /ANOTHER EASY ONE |
| 1477 | 05515 | 4330 | | JMS RDPTR | |
| 1478 | 05516 | 1747 | ICHR3, | TAD I IPNTR | /THIS IS THE TRICKY ONE! |
| 1479 | 05517 | 2347 | | ISZ IPNTR | /GET LOW-ORDER HALF |
| 1480 | 05520 | 0163 | | AND L7400 | |
| 1481 | 05521 | 7112 | | CLL RTR | /SHIFT RIGHT |
| 1482 | 05522 | 7012 | | RTR | |
| 1483 | 05523 | 1346 | | TAD ITEMP | /GET HIGH-ORDER HALF (REMEMBER?) |
| 1484 | 05524 | 7012 | | RTR | /SHIFT SOME MORE |
| 1485 | 05525 | 7012 | | RTR | |

| | | | | | |
|------|-------|------|---------|--------------|---|
| 1486 | 05526 | 4330 | | JMS RDPTR | /GOT IT! |
| 1487 | 05527 | 5306 | | JMP ICHAR1 | /1-2-3-1-2-3-1-2-3 ... |
| 1488 | | | | | |
| 1489 | 05530 | 0000 | RDPTR, | 0 | /IF YOU DIDN'T KNOW, THIS IS A COROUTINE! |
| 1490 | 05531 | 0157 | | AND [177 | /ISN'T THAT AMAZING? |
| 1491 | 05532 | 7450 | | SNA | /IGNORE NULLS AND PARITY |
| 1492 | 05533 | 5265 | | JMP ICHAR+1 | |
| 1493 | 05534 | 1367 | | TAD (-32 | /END OF FILE? (^Z) |
| 1494 | 05535 | 7440 | | SZA | |
| 1495 | 05536 | 5343 | | JMP .+5 | /NO |
| 1496 | 05537 | 3052 | | DCA IPNFLG | /YES, CLEAR OPEN FILE FLAG |
| 1497 | 05540 | 6211 | | CDF 10 | /AND SET UP CLEVER KLUDGE |
| 1498 | 05541 | 1366 | | TAD (EOF | /TO CHECK FOR A STUPID |
| 1499 | 05542 | 3556 | | DCA I [INDEV | //ATTEMPT-TO-READ-PAST-EOF! |
| 1500 | 05543 | 1171 | | TAD [23Z | /PASS ^Z TO PROGRAM (MIGHT COME IN HANDY) |
| 1501 | 05544 | 6213 | | CIF CDF 10 | |
| 1502 | 05545 | 5664 | | JMP I ICHAR | |
| 1503 | | | | | |
| 1504 | 05546 | 0000 | ITEMP, | 0 | |
| 1505 | 05547 | 0000 | IPNTR, | 0 | |
| 1506 | 05550 | 0000 | INCHT, | 0 | |
| 1507 | 05551 | 0000 | ONMTMP, | ZBLOCK 4 | |
| 1508 | | | | | |
| 1509 | 05566 | 3170 | | | |
| 1510 | 05567 | 7746 | | | |
| 1511 | 05570 | 0604 | | | |
| 1512 | 05571 | 3200 | | | |
| 1513 | 05572 | 3202 | | | |
| 1514 | 05573 | 3656 | | | |
| 1515 | 05574 | 3760 | | | |
| 1516 | 05575 | 3774 | | | |
| 1517 | 05576 | 3721 | | | |
| 1518 | 05577 | 7331 | | | |
| 1519 | 5600 | | | PAGE | |

| | | | | | |
|------|-------|------|---------|----------------|---|
| 1520 | 05600 | 4562 | IOPEN, | JMS I (IOWAIT | /WAIT FOR TELETYPE (DECTAPES ARE STILL SLOW!) |
| 1521 | 05601 | 4561 | | JMS I (OPEN | /CALL THAT AMAZING GENERAL-PURPOSE SUBROUTINE |
| 1522 | 05602 | 0066 | | INBLK-I | |
| 1523 | 05603 | 0002 | | 2 | /MONITOR 'LOOKUP' |
| 1524 | 05604 | 5230 | | JMP TTYIN | //OPEN INPUT TTY:' |
| 1525 | 05605 | 4464 | | ERROR1 | /WHOOOPS - FILE NOT FOUND |
| 1526 | 05606 | 4577 | | JMS I (DISMISS | /BOOT THE USR OUT |
| 1527 | 05607 | 1054 | | TAD STBLK | /SET POINTERS AND OTHER CRAP |
| 1528 | 05610 | 3777 | | DCA I (IBLK | |
| 1529 | 05611 | 7340 | | CLA CLL CMA | |
| 1530 | 05612 | 3052 | | DCA IPNFLG | |
| 1531 | 05613 | 7340 | | CLA CLL CMA | |
| 1532 | 05614 | 3776 | | DCA I (INCHT | |
| 1533 | 05615 | 1052 | IRST, | TAD IPNFLG | //OPEN RESTORE INPUT' COMES HERE |
| 1534 | 05616 | 7650 | | SNA CLA | /FLAG IS SET ALREADY IF 'OPEN INPUT' |
| 1535 | 05617 | 4464 | | ERROR1 | /NO INPUT FILE TO RESTORE |
| 1536 | 05620 | 1375 | | TAD (ICHARF | /SET I/O POINTERS |
| 1537 | 05621 | 6213 | | CIF CDF 10 | |
| 1538 | 05622 | 3556 | | DCA I (INDEV | |
| 1539 | 05623 | 2050 | | ISZ ECHFLG | /AND ECHO MODE |
| 1540 | 05624 | 1155 | | TAD (PRINTC | |
| 1541 | 05625 | 3554 | | DCA I (2163 | |
| 1542 | 05626 | 6001 | | ION | |
| 1543 | 05627 | 5560 | | JMP I (PROC | |
| 1544 | 05630 | 1153 | TTYIN, | TAD (X133 | //OPEN INPUT TTY:' |
| 1545 | 05631 | 5221 | | JMP TTYIN-7 | |
| 1546 | | | | | |
| 1547 | 05632 | 0000 | MPUSHA, | 0 | /PUSH THE AC ON THE STACK |
| 1548 | 05633 | 4344 | | JMS FLDSET | /CALLED FROM EITHER FIELD |
| 1549 | 05634 | 3255 | | DCA ACDF | |
| 1550 | 05635 | 6211 | | CDF 10 | /DO SOME CRAZY, MIXED-UP POINTER SCRAMBLING |
| 1551 | 05636 | 1774 | | TAD I (PDLXR | |
| 1552 | 05637 | 3036 | | DCA TEM7 | |
| 1553 | 05640 | 7040 | | CMA | |
| 1554 | 05641 | 1036 | | TAD TEM7 | |
| 1555 | 05642 | 3774 | | DCA I (PDLXR | |
| 1556 | 05643 | 1036 | | TAD TEM7 | |
| 1557 | 05644 | 7141 | | CIA CLL | |
| 1558 | 05645 | 1552 | | TAD I (BUFR | |
| 1559 | 05646 | 7630 | | SZL CLA | |
| 1560 | 05647 | 4464 | PDERR, | ERROR1 | /PUSHDOWN OVERFLOW |
| 1561 | 05650 | 1774 | | TAD I (PDLXR | |
| 1562 | 05651 | 6201 | | CDF | |
| 1563 | 05652 | 3011 | | DCA AUTO2 | |
| 1564 | 05653 | 1037 | | TAD ATEM | |

| | | | | | |
|------|-------|------|-------|-----------------|--------------------------------|
| 1565 | 05654 | 3436 | | DCA I TEM7 | |
| 1566 | 05655 | 6203 | ACDF, | CIF CDF | |
| 1567 | 05656 | 5632 | | JMP I MPUSHA | |
| 1568 | | | | | |
| 1569 | 05657 | 0000 | MPD2, | 0 | /PUSH 4 WORDS ON THE STACK |
| 1570 | 05660 | 1657 | | TAD I MPD2 | /GET POINTER TO FIRST WORD |
| 1571 | 05661 | 1151 | | TAD I3 | /PUSH IN REVERSE ORDER |
| 1572 | 05662 | 3306 | | DCA MPD3 | |
| 1573 | 05663 | 2257 | | ISZ MPD2 | |
| 1574 | 05664 | 4344 | | JMS FLDSET | |
| 1575 | 05665 | 3271 | | DCA FCDF | |
| 1576 | 05666 | 6201 | | CDF | |
| 1577 | 05667 | 1150 | | TAD I-4 | |
| 1578 | 05670 | 3020 | | DCA XCNTN | |
| 1579 | 05671 | 7402 | FCDF, | HLT | /CHANGE FIELD TO CALLING FIELD |
| 1580 | 05672 | 1706 | | TAD I MPD3 | /GET THE NEXT WORD |
| 1581 | 05673 | 6203 | | CIF CDF | |
| 1582 | 05674 | 4232 | | JMS MPUSHA | /PUSH IT |
| 1583 | 05675 | 7340 | | CLA CLL CMA | /BACK UP POINTER |
| 1584 | 05676 | 1306 | | TAD MPD3 | |
| 1585 | 05677 | 3306 | | DCA MPD3 | |
| 1586 | 05700 | 2020 | | ISZ XCNTN | |
| 1587 | 05701 | 5271 | | JMP FCDF | /GET THE NEXT ONE |
| 1588 | 05702 | 1271 | | TAD FCDF | |
| 1589 | 05703 | 3304 | | DCA .+1 | |
| 1590 | 05704 | 0000 | | 0 | /RESTORE CALLING FIELD |
| 1591 | 05705 | 5657 | | JMP I MPD2 | |
| 1592 | | | | | |
| 1593 | 05706 | 0000 | MPD3, | 0 | /POP 4 WORDS |
| 1594 | 05707 | 7340 | | CLA CLL CMA | /GET POINTER-1 |
| 1595 | 05710 | 1706 | | TAD I MPD3 | |
| 1596 | 05711 | 3012 | | DCA AUTO3 | |
| 1597 | 05712 | 2306 | | ISZ MPD3 | |
| 1598 | 05713 | 1373 | | TAD (CDF | |
| 1599 | 05714 | 6214 | | RDF | |
| 1600 | 05715 | 3322 | | DCA FCIF | |
| 1601 | 05716 | 1150 | | TAD I-4 | /FOUR WORDS |
| 1602 | 05717 | 3020 | | DCA XCNTN | |
| 1603 | 05720 | 6201 | | CDF | |
| 1604 | 05721 | 4333 | | JMS MPOPA | /GET ONE |
| 1605 | 05722 | 6201 | FCIF, | CDF | |
| 1606 | 05723 | 3412 | | DCA I AUTO3 | /PUT IT AWAY |
| 1607 | 05724 | 2020 | | ISZ XCNTN | /ALL DONE? |
| 1608 | 05725 | 5320 | | JMP FCIF-2 | /NO, GET ANOTHER |
| 1609 | 05726 | 7326 | | CLL CLA CML RTL | /YES, CHANGE CDF TO CIF CDF |

| | | | | | |
|------|-------|------|----------|---------------|---|
| 1610 | 05727 | 1322 | | TAD FCIF | |
| 1611 | 05730 | 3331 | | DCA .+1 | |
| 1612 | 05731 | 0000 | | 0 | /CHANGE FIELD AND EXIT |
| 1613 | 05732 | 5706 | | JMP I MPD3 | |
| 1614 | | | | | |
| 1615 | 05733 | 0000 | MPOPA, | 0 | /POP A WORD |
| 1616 | 05734 | 4344 | | JMS FLDSET | /(THIS ONE'S EASY) |
| 1617 | 05735 | 3342 | | DCA ACIF | |
| 1618 | 05736 | 6211 | | CDF 10 | |
| 1619 | 05737 | 2774 | | ISZ I (PDLXR | |
| 1620 | 05740 | 6201 | | CDF | |
| 1621 | 05741 | 1411 | | TAD I AUTO2 | |
| 1622 | 05742 | 6203 | ACIF, | CIF CDF | |
| 1623 | 05743 | 5733 | | JMP I MPOPA | |
| 1624 | | | | | |
| 1625 | 05744 | 0000 | FLDSET, | 0 | |
| 1626 | 05745 | 3037 | | DCA ATEM | |
| 1627 | 05746 | 1273 | | TAD FCDF+2 | |
| 1628 | 05747 | 6214 | | RDF | |
| 1629 | 05750 | 5744 | | JMP I FLDSET | |
| 1630 | | | | | |
| 1631 | 05751 | 1033 | XRESTOR, | TAD LISTFLG | /PART OF ERROR ROUTINE TO RESET I/O TO TELETYPE |
| 1632 | 05752 | 7640 | | SZA CLA | |
| 1633 | 05753 | 4547 | | JMS I [SWAPIN | /RESTORE CORE SWAPPED BY DIRECTORY LIST |
| 1634 | 05754 | 6213 | | CIF CDF 10 | |
| 1635 | 05755 | 1155 | | TAD [PRINTC | /'OPEN INPUT TTY: , ECHO; OPEN OUTPUT TTY: ' |
| 1636 | 05756 | 3554 | | DCA I [2163 | |
| 1637 | 05757 | 1153 | | TAD [X133 | |
| 1638 | 05760 | 3556 | | DCA I [INDEV | |
| 1639 | 05761 | 1170 | | TAD [OUTL | |
| 1640 | 05762 | 3567 | | DCA I [OUTDEV | |
| 1641 | 05763 | 5764 | | JMP I .+1 | |
| 1642 | 05764 | 2762 | | RECOVX+3 | |
| 1643 | | | | | |
| 1644 | 05765 | 0000 | MSORTC, | 0 | /CHECK FOR TERMINATOR |
| 1645 | 05766 | 6213 | | CIF CDF 10 | |
| 1646 | 05767 | 4546 | | JMS I [TERMER | |
| 1647 | 05770 | 2365 | | ISZ MSORTC | |
| 1648 | 05771 | 5765 | | JMP I MSORTC | |
| 1649 | | | | | |
| 1650 | 05773 | 6201 | | | |
| 1651 | 05774 | 0013 | | | |
| 1652 | 05775 | 3151 | | | |
| 1653 | 05776 | 5550 | | | |
| 1654 | 05777 | 5474 | | | |

1655 6000 PAGE

1656 /LIBRARY COMMAND PROCESSOR

1657

1658 /***** STORAGE ALLOCATION MAP *****/

1659 /***** *****/

1660 /* 3600 FILES (OUTPUT AND RESTORE)

1661 /* 4000 INPUT BUFFER (PAGE 1)

1662 /* 4200 INPUT BUFFER (PAGE 2)

1663 /* 4400 OUTPUT BUFFER (PAGE 1)

1664 /* 4600 OUTPUT BUFFER (PAGE 2)

1665 /* 5000 INPUT HANDLER

1666 /* 5200 OUTPUT HANDLER

1667 /* 5400 FILES (INPUT AND OPEN)

1668 /*

1669 /* 5600 PUSHDOWN LIST CONTROLS

1670 /* 6000 NAME, GTMON, DISMISS, IOWAIT

1671 /* 6200 HANDAD, COMPARE

1672 /* 6400 LOWLIB, SAVER, RETURN

1673 /* 6600 CHAINER, FETCHER, GOSUB

1674 /* 7000 LIBRARIAN

1675 /* 7200 MISCELLANEOUS

1676 /* 7400 LIBRARY HANDLER

1677 /***** *****/

1678 /*****

1679

1680

1681

1682

1683 06000 0000 NAME, 0 /READ A DEV:FILENAME.EX STRING INTO 'NAMLOC' & 'NEWDEV'

1684 06001 4360 JMS DISMIS /'GETC' WON'T WITH THE USR IN CORE

1685 06002 1377 TAD (5723 /CODE FOR 'DSK:'

1686 06003 3034 DCA NEWDEV / (DEFAULT DEVICE)

1687 06004 3035 DCA NEWDEV+1

1688 06005 4216 JMS GNAME /GET FIRST PART (MIGHT BE DEVICE)

1689 06006 1145 TAD ["A-": /WAS IT A DEVICE?

1690 06007 7640 SZA CLA

1691 06010 5600 JMP I NAME /NO, ALL SET UP

1692 06011 4442 TGETC /YES, MOVE PAST ':'

1693 06012 1027 TAD NAMLOC /MOVE TO DEVICE AREA

1694 06013 3034 DCA NEWDEV

1695 06014 1030 TAD NAMLOC+1

1696 06015 5204 JMP NAME+4 /GET FILENAME

1697

1698 06016 0000 GNAME, 0 /READ A NAME INTO 'NAMLOC'

1699 06017 3027 DCA NAMLOC /CLEAR NAME AREA

1700 06020 3030 DCA NAMLOC+1 / (DON'T CLEAR ASSUMED EXTENSION)

Moore Business Forms, Inc. 1

| | | | | | |
|------|-------|------|--------|--------------|--------------------------------------|
| 1701 | 06021 | 3031 | | DCA NAMLOC+Z | |
| 1702 | 06022 | 1144 | | TAD INAMLOC | /INITIALIZE POINTERS |
| 1703 | 06023 | 3333 | | DCA NMBASE | |
| 1704 | 06024 | 7240 | | CLA CMA | |
| 1705 | 06025 | 3334 | | DCA PERDSW | |
| 1706 | 06026 | 3335 | | DCA NAMECT | |
| 1707 | 06027 | 4503 | | TSPNOR | |
| 1708 | 06030 | 7410 | | SKP | |
| 1709 | 06031 | 4442 | NAMEC, | TGETC | /MAIN LOOP |
| 1710 | 06032 | 1066 | | TAD CHAR | /LOWER FIELD COPY, OF COURSE |
| 1711 | 06033 | 1143 | | TAD ["-" | /EXTENSION? |
| 1712 | 06034 | 7450 | | SNA | |
| 1713 | 06035 | 5271 | | JMP PERD | /YES, CLEAR DEFAULT EXTENSION |
| 1714 | 06036 | 1142 | | TAD [" -" | /COMMA? |
| 1715 | 06037 | 7650 | | SNA CLA | |
| 1716 | 06040 | 5302 | | JMP ECHCHK | /YES, CHECK FOR ECHO |
| 1717 | 06041 | 4316 | ECHGO, | JMS DECODE | /MUST BE A-Z, 0-9 |
| 1718 | 06042 | 5616 | | JMP I GNAME | /IT WASN'T, MUST BE END OF NAME |
| 1719 | 06043 | 7430 | | SZL | /RESTORE CHARACTER |
| 1720 | 06044 | 1141 | | TAD [57 | |
| 1721 | 06045 | 7001 | | IAC | |
| 1722 | 06046 | 3316 | | DCA DECODE | /TEMPORARY STORAGE |
| 1723 | 06047 | 1335 | | TAD NAMECT | /NO MORE THAN 6 CHARACTERS/NAME |
| 1724 | 06050 | 1173 | | TAD [-6 | |
| 1725 | 06051 | 7700 | | SMA CLA | |
| 1726 | 06052 | 5231 | | JMP NAMEC | |
| 1727 | 06053 | 1335 | | TAD NAMECT | /BUILD POINTER TO CHARACTER POSITION |
| 1728 | 06054 | 7110 | | CLL RAR | |
| 1729 | 06055 | 1333 | | TAD NMBASE | |
| 1730 | 06056 | 3336 | | DCA TT | |
| 1731 | 06057 | 1316 | | TAD DECODE | /LEFT OR RIGHT HALF? |
| 1732 | 06060 | 7430 | | SZL | |
| 1733 | 06061 | 5265 | | JMP . +4 | |
| 1734 | 06062 | 7106 | | CLL RTL | /LEFT, SHIFT OVER |
| 1735 | 06063 | 7006 | | RTL | |
| 1736 | 06064 | 7006 | | RTL | |
| 1737 | 06065 | 1736 | | TAD I TT | /ADD IN OTHER HALF |
| 1738 | 06066 | 3736 | | DCA I TT | |
| 1739 | 06067 | 2335 | | ISZ NAMECT | /BUMP COUNT |
| 1740 | 06070 | 5231 | | JMP NAMEC | /CONTINUE LOOP |
| 1741 | | | | | |
| 1742 | 06071 | 1027 | PERD, | TAD NAMLOC | /FOUND A PERIOD IN STRING |
| 1743 | 06072 | 7640 | | SZA CLA | |
| 1744 | 06073 | 2334 | | ISZ PERDSW | |
| 1745 | 06074 | 4464 | | ERROR1 | /DOUBLE PERIODS OR NO FILE NAME |

| | | | | | |
|------|-------|------|---------|---------------|---------------------------------|
| 1746 | 06075 | 3032 | | DCA EXTENSION | /CLEAR EXTENSION |
| 1747 | 06076 | 4442 | | TGETC | /MOVE PAST PERIOD |
| 1748 | 06077 | 2333 | | ISZ NMBASE | /FAKE OUT POINTERS |
| 1749 | 06100 | 1140 | | TAD [4 | |
| 1750 | 06101 | 5226 | | JMP NAMEC-3 | |
| 1751 | | | | | |
| 1752 | 06102 | 4442 | ECHCHK, | TGETC | /MOVE PAST COMMA |
| 1753 | 06103 | 4503 | | TSPNDR | |
| 1754 | 06104 | 1066 | | TAD CHAR | /MUST BE FOLLOWED BY "ECHO" |
| 1755 | 06105 | 1137 | | TAD [-"E | |
| 1756 | 06106 | 7640 | | SZA CLA | |
| 1757 | 06107 | 5616 | | JMP I GNAME | |
| 1758 | 06110 | 3050 | | DCA ECHFLG | /SET ECHO FLAG |
| 1759 | 06111 | 4442 | | TGETC | /MOVE TO END OF WORD |
| 1760 | 06112 | 4316 | | JMS DECODE | |
| 1761 | 06113 | 5616 | | JMP I GNAME | |
| 1762 | 06114 | 7300 | | CLA CLL | |
| 1763 | 06115 | 5311 | | JMP .-4 | |
| 1764 | | | | | |
| 1765 | 06116 | 0000 | DECODE, | 0 | /CHECK FOR A-Z, 0-9 |
| 1766 | 06117 | 1066 | | TAD CHAR | |
| 1767 | 06120 | 1136 | | TAD [-"9-1 | |
| 1768 | 06121 | 7100 | | CLL | |
| 1769 | 06122 | 1135 | | TAD ["9+1-"0 | |
| 1770 | 06123 | 7430 | | SZL | |
| 1771 | 06124 | 5331 | | JMP DCDYES | |
| 1772 | 06125 | 1134 | | TAD ["0-"Z-1 | |
| 1773 | 06126 | 7120 | | CLL CML | |
| 1774 | 06127 | 1133 | | TAD ["Z-"A+1 | |
| 1775 | 06130 | 7420 | | SNL | |
| 1776 | 06131 | 2316 | DCDYES, | ISZ DECODE | /IT WAS! |
| 1777 | 06132 | 5716 | | JMP I DECODE | |
| 1778 | | | | | |
| 1779 | 06133 | 0000 | NMBASE, | 0 | |
| 1780 | 06134 | 0000 | PERDSW, | 0 | |
| 1781 | 06135 | 0000 | NAMECT, | 0 | |
| 1782 | 06136 | 0000 | TT, | 0 | |
| 1783 | | | | | |
| 1784 | 06137 | 0000 | IOWAIT, | 0 | /WAIT FOR TELETYPE TO FINISH |
| 1785 | 06140 | 6001 | | ION | |
| 1786 | 06141 | 6211 | | CDF 10 | |
| 1787 | 06142 | 1776 | | TAD I (TELSW | /BUSY FLAG IS ZERO WHEN THROUGH |
| 1788 | 06143 | 7640 | | SZA CLA | |
| 1789 | 06144 | 5342 | | JMP .-2 | |
| 1790 | 06145 | 6201 | | CDF | |

| | | | | | |
|------|-------|------|---------|--------------|--------------------------------|
| 1791 | 06146 | 6002 | | IOF | |
| 1792 | 06147 | 5737 | | JMP I IOWAIT | |
| 1793 | | | | | |
| 1794 | 06150 | 0000 | GTMON, | 0 | /LOCK THE USR IN CORE |
| 1795 | 06151 | 6002 | | IOF | (/NOP IF ALREADY IN CORE) |
| 1796 | 06152 | 6212 | | CIF 10 | |
| 1797 | 06153 | 4421 | | JMS I USR | |
| 1798 | 06154 | 0010 | | 10 | |
| 1799 | 06155 | 1132 | | TAD L200 | /SET POINTER FOR LATER CALLS |
| 1800 | 06156 | 3021 | | DCA USR | |
| 1801 | 06157 | 5750 | | JMP I GTMON | |
| 1802 | | | | | |
| 1803 | 06160 | 0000 | DISMIS, | 0 | /IF THE USR IS IN, KICK IT OUT |
| 1804 | 06161 | 7300 | | CLA CLL | |
| 1805 | 06162 | 1021 | | TAD USR | /CHECK POINTER TO FIND OUT |
| 1806 | 06163 | 7710 | | SPA CLA | |
| 1807 | 06164 | 5760 | | JMP I DISMIS | |
| 1808 | 06165 | 6002 | | IOF | |
| 1809 | 06166 | 6212 | | CIF 10 | |
| 1810 | 06167 | 4421 | | JMS I USR | |
| 1811 | 06170 | 0011 | | 11 | |
| 1812 | 06171 | 1251 | | TAD ECHGO+10 | /RESET POINTER |
| 1813 | 06172 | 3021 | | DCA USR | |
| 1814 | 06173 | 5760 | | JMP I DISMIS | |
| 1815 | | | | | |
| 1816 | 06176 | 0016 | | | |
| 1817 | 06177 | 5723 | | | |
| 1818 | | 6200 | | PAGE | |

| | | | | | |
|------|-------|------|---------|---------------|---|
| 1819 | 06200 | 0000 | HANDAD, | 0 | /LOADS HANDLER INTO PROPER SLOT |
| 1820 | 06201 | 1600 | | TAD I HANDAD | /WHICH SLOT? |
| 1821 | 06202 | 2200 | | ISZ HANDAD | |
| 1822 | 06203 | 3206 | | DCA SLOT | |
| 1823 | 06204 | 4276 | | JMS COMPARE | /IF THE HANDLER HAS THE SAME NAME, |
| 1824 | 06205 | 7776 | | -2 | /DON'T LOAD IT AGAIN |
| 1825 | 06206 | 0000 | SLOT, | 0 | |
| 1826 | 06207 | 0033 | | NEWDEV-1 | |
| 1827 | 06210 | 5221 | | JMP NOTEQ | /DIFFERENT NAMES, LOAD NEW HANDLER |
| 1828 | 06211 | 2014 | | ISZ AUT05 | |
| 1829 | 06212 | 1414 | | TAD I AUT05 | /(SET BY 'COMPARE') |
| 1830 | 06213 | 3055 | | DCA DEVNO | /MOVE DEVICE # (FOR SAVE AND CLOSE) |
| 1831 | 06214 | 1014 | | TAD AUT05 | /POINTS TO DEVICE # |
| 1832 | 06215 | 3217 | | DCA .+2 | |
| 1833 | 06216 | 4565 | | JMS I IPUTDEV | /SO USR KNOWS IT'S IN CORE |
| 1834 | 06217 | 0000 | | 0 | |
| 1835 | 06220 | 5600 | | JMP I HANDAD | |
| 1836 | | | | | |
| 1837 | 06221 | 2206 | NOTEQ, | ISZ SLOT | /BUMP POINTER TO SAVE NAME |
| 1838 | 06222 | 1034 | | TAD NEWDEV | /MOVE NEW DEVICE NAME TO TABLE |
| 1839 | 06223 | 3606 | | DCA I SLOT | |
| 1840 | 06224 | 2206 | | ISZ SLOT | |
| 1841 | 06225 | 1035 | | TAD NEWDEV+1 | |
| 1842 | 06226 | 3606 | | DCA I SLOT | |
| 1843 | 06227 | 2206 | | ISZ SLOT | |
| 1844 | 06230 | 4531 | | JMS I IGTMON | /WE MUST CALL THE USR, MIGHT AS WELL LOCK IT IN |
| 1845 | 06231 | 1034 | RETRY, | TAD NEWDEV | /MOVE DEVICE NAME FOR MONITOR CALL |
| 1846 | 06232 | 3242 | | DCA DEVC | |
| 1847 | 06233 | 1035 | | TAD NEWDEV+1 | |
| 1848 | 06234 | 3243 | | DCA DEVC+1 | |
| 1849 | 06235 | 1606 | | TAD I SLOT | /MOVE LOAD POINT |
| 1850 | 06236 | 3244 | | DCA DLOAD | |
| 1851 | 06237 | 6212 | | CIF 10 | |
| 1852 | 06240 | 4421 | | JMS I USR | /CALL MONITOR (ALREADY IN CORE) |
| 1853 | 06241 | 0001 | TABCPT, | 1 | |
| 1854 | 06242 | 0000 | DEVC, | 0 | |
| 1855 | 06243 | 0000 | | 0 | |
| 1856 | 06244 | 0000 | DLOAD, | 0 | |
| 1857 | 06245 | 4464 | | ERROR1 | /DEVICE NOT AVAILABLE OR TWO PAGE HANDLER |
| 1858 | 06246 | 7100 | | CLL | |
| 1859 | 06247 | 1244 | | TAD DLOAD | /ENTRY POINT FOR HANDLER |
| 1860 | 06250 | 1132 | | TAD I200 | /IF THIS HANDLER IS IN PAGE 7600, |
| 1861 | 06251 | 7630 | | SZL CLA | /DON'T BOTHER TO CHECK FOR LEGALITY |
| 1862 | 06252 | 5265 | | JMP HANDOK | /SYSTEM HANDLER |
| 1863 | 06253 | 1244 | | TAD DLOAD | /IF THE HANDLER WAS NOT LOADED |

| | | | | |
|------|-------|------|--------------------|--|
| 1864 | 06254 | 0130 | AND I7600 | /INTO THE PROPER PAGE, RELOAD IT! |
| 1865 | 06255 | 7141 | CLL CIA | |
| 1866 | 06256 | 1606 | TAD I SLOT | /PROPER LOADING ADDRESS |
| 1867 | 06257 | 7650 | SNA CLA | |
| 1868 | 06260 | 5265 | JMP HANDOK | /EVERYTHING'S ALL RIGHT |
| 1869 | 06261 | 3244 | DCA DLOAD | /CLEAR ENTRY POINT |
| 1870 | 06262 | 4565 | JMS I (PUTDEV | /TELL USR THE HANDLER IS NOT |
| 1871 | 06263 | 6243 | DEVC+1 | /IN CORE ANYMORE |
| 1872 | 06264 | 5231 | JMP RETRY | /LOAD IT THIS TIME |
| 1873 | | | | |
| 1874 | 06265 | 2206 | HANDOK, ISZ SLOT | /BUMP POINTER TO DEVICE # |
| 1875 | 06266 | 1243 | TAD DEVC+1 | /SAVE IT |
| 1876 | 06267 | 3606 | DCA I SLOT | |
| 1877 | 06270 | 2206 | ISZ SLOT | /MOVE TO ENTRY POINT |
| 1878 | 06271 | 1244 | TAD DLOAD | /SAVE ENTRY |
| 1879 | 06272 | 3606 | DCA I SLOT | |
| 1880 | 06273 | 1243 | TAD DEVC+1 | /GET DEVICE # |
| 1881 | 06274 | 3055 | DCA DEVNO | /SAVE IT AND EXIT |
| 1882 | 06275 | 5600 | JMP I HANDAD | |
| 1883 | | | | |
| 1884 | 06276 | 0000 | COMPARE, 0 | /COMPARE TWO BLOCKS OF INDEFINITE LENGTH |
| 1885 | 06277 | 1676 | TAD I COMPARE | /CALLING SEQUENCE: |
| 1886 | 06300 | 2276 | ISZ COMPARE | /JMS COMPARE |
| 1887 | 06301 | 3020 | DCA XCNT | / -# OF WORDS TO CHECK |
| 1888 | 06302 | 1676 | TAD I COMPARE | / FIRST-1 |
| 1889 | 06303 | 2276 | ISZ COMPARE | / SECOND-1 |
| 1890 | 06304 | 3014 | DCA AUTO5 | /RETURN IF MATCH |
| 1891 | 06305 | 1676 | TAD I COMPARE | /RETURN IF NO MATCH |
| 1892 | 06306 | 2276 | ISZ COMPARE | |
| 1893 | 06307 | 3015 | DCA AUTO6 | |
| 1894 | 06310 | 1414 | AGAIN, TAD I AUTO5 | /COMPARE TWO WORDS |
| 1895 | 06311 | 7041 | CIA | |
| 1896 | 06312 | 1415 | TAD I AUTO6 | |
| 1897 | 06313 | 7640 | SZA CLA | |
| 1898 | 06314 | 5676 | JMP I COMPARE | /NO MATCH |
| 1899 | 06315 | 2020 | ISZ XCNT | /FINISHED? |
| 1900 | 06316 | 5310 | JMP AGAIN | /NO, CHECK NEXT TWO |
| 1901 | 06317 | 2276 | ISZ COMPARE | /YES, BUMP RETURN POINTER |
| 1902 | 06320 | 5676 | JMP I COMPARE | |
| 1903 | | | | |
| 1904 | 06321 | 0000 | MPRINTC, 0 | /CROSS-FIELD 'PRINTC' |
| 1905 | 06322 | 6213 | CIF CDF 10 | |
| 1906 | 06323 | 4777 | JMS I (CPRNT | |
| 1907 | 06324 | 5721 | JMP I MPRINTC | |
| 1908 | | | | |

| | | | | |
|------|-------|------|----------------------|---|
| 1909 | 06325 | 0000 | TABCNT, 0 | /TAB COUNTER (ONLY PRINTING CHARACTERS) |
| 1910 | 06326 | 1376 | TAD (-15 | /7-BIT CR MEANS RETURN ONLY |
| 1911 | 06327 | 7450 | SNA | |
| 1912 | 06330 | 5344 | JMP CRONLY | |
| 1913 | 06331 | 1130 | TAD [-200 | /CHECK FOR CR |
| 1914 | 06332 | 7450 | SNA | |
| 1915 | 06333 | 5352 | JMP NEWLIN | /TYPE CR, LF |
| 1916 | 06334 | 2325 | ISZ TABCNT | |
| 1917 | 06335 | 1375 | TAD (215-240 | |
| 1918 | 06336 | 7500 | SMA | |
| 1919 | 06337 | 2641 | ISZ I TABCPT | /IT PRINTS, INCREMENT COUNT |
| 1920 | 06340 | 7000 | NOP | /IT JUST MIGHT SKIP |
| 1921 | 06341 | 1127 | TAD [240 | |
| 1922 | 06342 | 6212 | CIF 10 | |
| 1923 | 06343 | 5725 | JMP I TABCNT | |
| 1924 | | | | |
| 1925 | 06344 | 1126 | CRONLY, TAD [215 | |
| 1926 | 06345 | 6212 | CIF 10 | |
| 1927 | 06346 | 4525 | JMS I [PRINTX | |
| 1928 | 06347 | 3641 | DCA I TABCPT | |
| 1929 | 06350 | 1132 | TAD [200 | /NULL FOR DELAY |
| 1930 | 06351 | 5326 | JMP TABCNT+1 | |
| 1931 | | | | |
| 1932 | 06352 | 3641 | NEWLIN, DCA I TABCPT | |
| 1933 | 06353 | 5342 | JMP CRONLY-2 | |
| 1934 | | | | |
| 1935 | 06354 | 0323 | COMLIST, "S | /SAVE |
| 1936 | 06355 | 0303 | "C | /CALL |
| 1937 | 06356 | 0322 | "R | /RUN |
| 1938 | 06357 | 0314 | "L | /LIST |
| 1939 | 06360 | 0304 | "D | /DELETE |
| 1940 | 06361 | 0307 | "G | /GOSUB |
| 1941 | 06362 | 0240 | " | /FAKE A "LIBRARY RETURN" WITH A SPACE |
| 1942 | 06363 | 0305 | "E | /EXIT |
| 1943 | | | | |
| 1944 | 06364 | 5600 | FILGO, IOPEN | |
| 1945 | 06365 | 5400 | OOPEN | |
| 1946 | 06366 | 6555 | OCLOSR | |
| 1947 | 06367 | 3614 | RESTOR | |
| 1948 | | | | |
| 1949 | 06375 | 7755 | | |
| 1950 | 06376 | 7763 | | |
| 1951 | 06377 | 7543 | | |
| 1952 | | 6400 | PAGE | |

| | | | | | |
|------|-------|------|---------|--------------------------------|-------------------------------------|
| 1953 | | | | /ACTUAL LIBRARY PROCESSOR | |
| 1954 | | | | /STARTING WITH COMMAND DECODE: | |
| 1955 | | | | | |
| 1956 | 06400 | 6211 | LOWLIB, | CDF 10 | /CLEAR SWITCH FOR NORMAL RETURN. |
| 1957 | 06401 | 3524 | | DCA I [GOSWITCH | /I. E. TO "PROC" FOR REST OF LINE |
| 1958 | 06402 | 1440 | | TAD I XCHAR | /MOVE CURRENT CHARACTER DOWN |
| 1959 | 06403 | 6201 | | CDF | |
| 1960 | 06404 | 3066 | | DCA CHAR | |
| 1961 | 06405 | 1066 | | TAD CHAR | /SAVE FOR COMMAND SORT |
| 1962 | 06406 | 4444 | | TPUSHA | |
| 1963 | 06407 | 1123 | | TAD [603 | /". FC" ASSUMED EXTENSION |
| 1964 | 06410 | 3032 | | DCA EXTENSION | |
| 1965 | 06411 | 7610 | | SKP CLA | /MIGHT BE A TERMINATOR ALREADY |
| 1966 | 06412 | 4442 | | TGETC | /MOVE TO END OF COMMAND WORD |
| 1967 | 06413 | 4463 | | TESTRM | |
| 1968 | 06414 | 7410 | | SKP | |
| 1969 | 06415 | 5212 | | JMP -3 | |
| 1970 | 06416 | 4443 | | TPOPA | /RESTORE COMMAND CHAR |
| 1971 | 06417 | 4447 | | TSORTJ | /AND BRANCH TO APPROPRIATE ROUTINE |
| 1972 | 06420 | 6353 | | | COMLIST-1 |
| 1973 | 06421 | 0047 | | | COMGO-COMLIST |
| 1974 | 06422 | 4464 | | ERROR1 | /SORRY, CHARLIE! |
| 1975 | | | | | |
| 1976 | 06423 | 6433 | COMGO, | SAVER | |
| 1977 | 06424 | 6602 | | FETCHER | |
| 1978 | 06425 | 6600 | | CHAINER | |
| 1979 | 06426 | 7000 | | LIBRARIAN | |
| 1980 | 06427 | 7252 | | DELETE | |
| 1981 | 06430 | 6701 | | GOSUB | |
| 1982 | 06431 | 6540 | | RETURN | |
| 1983 | 06432 | 7600 | C7600, | 7600 | |
| 1984 | | | | | |
| 1985 | 06433 | 4576 | SAVER, | JMS I [NAME | /GET NAME FOR SAVE |
| 1986 | 06434 | 4236 | | JMS SAVE | /DO IT |
| 1987 | 06435 | 5022 | | JMP EXIT | /EASY, WASN'T IT? |
| 1988 | | | | | |
| 1989 | 06436 | 0000 | SAVE, | 0 | /CALLED BY "SAVE" AND "GOSUB" |
| 1990 | 06437 | 4777 | | JMS OCHK | /CLOSE OUTPUT FILE TO AVOID TROUBLE |
| 1991 | 06440 | 1144 | | TAD [NAMLOC | /POINTER TO NAME |
| 1992 | 06441 | 3270 | | DCA SAVEPT | |
| 1993 | 06442 | 6211 | | CDF 10 | |
| 1994 | 06443 | 1552 | | TAD I [BUFR | /GET PROGRAM LENGTH |
| 1995 | 06444 | 6201 | | CDF | |
| 1996 | 06445 | 3522 | | DCA I [207 | /SAVE IT WITH THE PROGRAM |
| 1997 | 06446 | 4531 | | JMS I [GTMON | /CALL THE MONITOR |

| | | | | |
|------|-------|------|----------------|-------------------------------------|
| 1998 | 06447 | 4521 | JMS I (HANDAD | /AND THE HANDLER |
| 1999 | 06450 | 0055 | LIBBLK-1 | |
| 2000 | 06451 | 1522 | TAD I (207 | /SAVED LENGTH, REMEMBER? |
| 2001 | 06452 | 0232 | AND C7600 | /MASK OFF |
| 2002 | 06453 | 7110 | CLL RAR | /CONVERT TO PAGES |
| 2003 | 06454 | 3337 | DCA BLOCK | /FOR HANDLER |
| 2004 | 06455 | 1337 | TAD BLOCK | /ROUND UP TO BLOCKS |
| 2005 | 06456 | 1120 | TAD E100 | |
| 2006 | 06457 | 0232 | AND C7600 | |
| 2007 | 06460 | 7112 | CLL RTR | |
| 2008 | 06461 | 7010 | RAR | |
| 2009 | 06462 | 3336 | DCA RECORD | /FOR MONITOR 'ENTER' |
| 2010 | 06463 | 1336 | TAD RECORD | /GET DESIRED LENGTH |
| 2011 | 06464 | 1055 | TAD DEVND | /(SET BY 'HANDAD') |
| 2012 | 06465 | 6212 | CIF 10 | |
| 2013 | 06466 | 4421 | JMS I USR | /ENTER OUTPUT FILE |
| 2014 | 06467 | 0003 | 3 | |
| 2015 | 06470 | 0027 | SAVEPT, NAMLOC | |
| 2016 | 06471 | 0000 | 0 | |
| 2017 | 06472 | 4464 | ERROR1 | /NO ROOM ON DEVICE |
| 2018 | 06473 | 1336 | TAD RECORD | /SHIFT FOR CLOSING LENGTH |
| 2019 | 06474 | 7112 | CLL RTR | |
| 2020 | 06475 | 7012 | RTR | |
| 2021 | 06476 | 3304 | DCA SAVBLK | |
| 2022 | 06477 | 1055 | TAD DEVND | /CLOSE THE FILE BEFORE WE WRITE IT! |
| 2023 | 06500 | 6212 | CIF 10 | /(SURE, IT'S CHEATING, BUT |
| 2024 | 06501 | 4421 | JMS I USR | /IT SAVES TIME!) |
| 2025 | 06502 | 0004 | 4 | |
| 2026 | 06503 | 0027 | NAMLOC | |
| 2027 | 06504 | 0000 | SAVBLK, 0 | |
| 2028 | 06505 | 4464 | ERROR1 | /IMPOSSIBLE ERROR! |
| 2029 | 06506 | 1304 | TAD SAVBLK | /SAVE THIS CRAP TO REMEMBER |
| 2030 | 06507 | 7041 | CIA | /WHERE THIS PROGRAM IS |
| 2031 | 06510 | 3333 | DCA LIBLEN | /IN CASE WE WANT TO GOSUB |
| 2032 | 06511 | 1270 | TAD SAVEPT | |
| 2033 | 06512 | 3104 | DCA LIBFIL | |
| 2034 | 06513 | 1034 | TAD NEWDEV | |
| 2035 | 06514 | 3334 | DCA LIBDEV | |
| 2036 | 06515 | 1035 | TAD NEWDEV+1 | |
| 2037 | 06516 | 3335 | DCA LIBDEV+1 | |
| 2038 | 06517 | 1270 | TAD SAVEPT | /MOVE STARTING BLOCK FOR WRITE |
| 2039 | 06520 | 3330 | DCA POINT4 | |
| 2040 | 06521 | 7130 | CLL CML RAR | /COMPUTE FUNCTION WORD |
| 2041 | 06522 | 7001 | IAC | /SET TO SEARCH FORWARD |
| 2042 | 06523 | 1337 | TAD BLOCK | /HOW MUCH TO WRITE |

| | | | | | |
|------|-------|------|---------|---------------|--|
| 2043 | 06524 | 3326 | | DCA BLLL | |
| 2044 | 06525 | 4462 | | JMS I LIBHND | |
| 2045 | 06526 | 0000 | BLLL, | 0 | /WRITE (BLOCK) BLOCKS FROM FIELD 0 |
| 2046 | 06527 | 0200 | | 200 | /FROM 200 UP |
| 2047 | 06530 | 0000 | POINT4, | 0 | |
| 2048 | 06531 | 5564 | | JMP I [DERR | /GO COMPLAIN ABOUT DEVICE |
| 2049 | 06532 | 5636 | | JMP I SAVE | |
| 2050 | | | | | |
| 2051 | 06533 | 0000 | LIBLEN, | 0 | |
| 2052 | 06534 | 0000 | LIBDEV, | ZBLOCK 2 | |
| 2053 | 06536 | 0000 | RECORD, | 0 | |
| 2054 | 06537 | 0000 | BLOCK, | 0 | |
| 2055 | | | | | |
| 2056 | 06540 | 4443 | RETURN, | TPOPA | /GET BACK ALL THE JUNK WE SAVED |
| 2057 | 06541 | 6211 | | CDF 10 | /FOR THE LAST GOSUB |
| 2058 | 06542 | 3440 | | DCA I XCHAR | /IN-LINE CHARACTER |
| 2059 | 06543 | 6201 | | CDF | |
| 2060 | 06544 | 4446 | | TPOFF | /DEVICE NAME |
| 2061 | 06545 | 0034 | | NEWDEV | |
| 2062 | 06546 | 4443 | | TPOPA | /FILE LENGTH |
| 2063 | 06547 | 3053 | | DCA FLNGTH | |
| 2064 | 06550 | 4443 | | TPOPA | /STARTING BLOCK |
| 2065 | 06551 | 3054 | | DCA STBLK | |
| 2066 | 06552 | 4521 | | JMS I [HANDAD | /GET THE HANDLER BACK |
| 2067 | 06553 | 0055 | | LIBBLK-I | |
| 2068 | 06554 | 5776 | | JMP LOADGO | /LOAD THE PROGRAM |
| 2069 | | | | | |
| 2070 | 06555 | 4517 | OCLOS, | JMS I [OCLOSE | /CLOSE OUTPUT FILE |
| 2071 | 06556 | 6213 | | CIF CDF 10 | |
| 2072 | 06557 | 5560 | | JMP I [PROC | /ANOTHER EASY ONE! |
| 2073 | | | | | |
| 2074 | 06560 | 0000 | PUTDEV, | 0 | /TELL THE MONITOR A HANDLER IS IN OR OUT |
| 2075 | 06561 | 1760 | | TAD I PUTDEV | /GET POINTER TO DEV # AND ENTRY |
| 2076 | 06562 | 3336 | | DCA RECORD | |
| 2077 | 06563 | 1736 | | TAD I RECORD | /DEVICE # |
| 2078 | 06564 | 2336 | | ISZ RECORD | /BUMP POINTER TO ENTRY |
| 2079 | 06565 | 1375 | | TAD (7646 | /MONITOR TABLE |
| 2080 | 06566 | 3337 | | DCA BLOCK | /POINTER TO 'HANDLER-IN-CORE' FLAG |
| 2081 | 06567 | 1736 | | TAD I RECORD | /FLAG IS HANDLER ENTRY |
| 2082 | 06570 | 6211 | | CDF 10 | /TABLE IS IN FIELD 1 |
| 2083 | 06571 | 3737 | | DCA I BLOCK | |
| 2084 | 06572 | 6201 | | CDF | |
| 2085 | 06573 | 2360 | | ISZ PUTDEV | |
| 2086 | 06574 | 5760 | | JMP I PUTDEV | |
| 2087 | | | | | |

2088 06575 7646

2089 06576 6620

2090 06577 7270

2091 6600

PAGE

| Address | Code | Label | Operation | Comment |
|---------|-------|-------|------------------------|---------------------------------------|
| 2092 | | | | /LOOKUP AND LOAD ROUTINES |
| 2093 | | | | |
| 2094 | 06600 | 7001 | CHAINER, IAC | /THESE ALL DO THE SAME THING |
| 2095 | 06601 | 7001 | GOSUB1, IAC | /AND THEN GO TO DIFFERENT PLACES |
| 2096 | 06602 | 7001 | FETCHER, IAC | |
| 2097 | 06603 | 6211 | CDF 10 | |
| 2098 | 06604 | 3524 | DCA I [GOSWITCH | |
| 2099 | 06605 | 6201 | CDF | |
| 2100 | 06606 | 4561 | LOAD, JMS I [OPEN | /CALL THE HANDLER AND LOOKUP THE FILE |
| 2101 | 06607 | 0055 | LIBBLK-1 | |
| 2102 | 06610 | 0002 | Z | |
| 2103 | 06611 | 5216 | JMP .+5 | /TTY: NOT A DIRECTORY DEVICE |
| 2104 | 06612 | 4464 | ERROR1 | |
| 2105 | 06613 | 4577 | JMS I [DISMISS | |
| 2106 | 06614 | 4777 | JMS I [GETDEV | /GET DEVICE TYPE |
| 2107 | 06615 | 7700 | SMA CLA | |
| 2108 | 06616 | 4464 | ERROR1 | /NOT A DIRECTORY DEVICE |
| 2109 | 06617 | 4502 | TGETLN | /SOME COMMANDS HAVE LINE NUMBERS |
| 2110 | 06620 | 4577 | LOADGO, JMS I [DISMISS | /ONLY USED BY 'RETURN' |
| 2111 | 06621 | 1054 | TAD STBLK | /BLOCK TO READ FROM |
| 2112 | 06622 | 3262 | DCA POINT6 | |
| 2113 | 06623 | 1011 | TAD AUTO2 | /GET PUSHDOWN POINTER |
| 2114 | 06624 | 1130 | TAD L-200 | /DIDDLE IT |
| 2115 | 06625 | 0130 | AND L7600 | |
| 2116 | 06626 | 7104 | CLL RAL | |
| 2117 | 06627 | 7006 | RTL | |
| 2118 | 06630 | 7006 | RTL | |
| 2119 | 06631 | 1053 | TAD FLNGTH | /NOW COMPARE WITH LENGTH OF FILE |
| 2120 | 06632 | 7710 | SPA CLA | |
| 2121 | 06633 | 5776 | JMP PDERR | /PROGRAM TOO LONG |
| 2122 | 06634 | 6211 | CDF 10 | |
| 2123 | 06635 | 7344 | CLA CLL CMA RAL /(-2) | |
| 2124 | 06636 | 1524 | TAD I [GOSWITCH | /IS THIS A GOSUB? |
| 2125 | 06637 | 7640 | SZA CLA | |
| 2126 | 06640 | 5247 | JMP .+7 | /NO, SKIP THIS GARBAGE |
| 2127 | 06641 | 1440 | TAD I XCHAR | /YES, SAVE PROGRAM NAME, ETC. |
| 2128 | 06642 | 6201 | CDF | |
| 2129 | 06643 | 4444 | TPUSHA | |
| 2130 | 06644 | 1126 | TAD L215 | |
| 2131 | 06645 | 6211 | CDF 10 | |
| 2132 | 06646 | 3440 | DCA I XCHAR | |
| 2133 | 06647 | 6201 | CDF | |
| 2134 | 06650 | 1053 | TAD FLNGTH | /COMPUTE FUNCTION WORD |
| 2135 | 06651 | 7041 | CIA | |
| 2136 | 06652 | 7106 | CLL RTL | |

| | | | | | |
|------|-------|------|---------|----------------|--|
| 2137 | 06653 | 7006 | | RTL | |
| 2138 | 06654 | 7006 | | RTL | |
| 2139 | 06655 | 7124 | | CLL CML RAL | /SET TO SEARCH FORWARD |
| 2140 | 06656 | 3260 | | DCA LENF1 | |
| 2141 | 06657 | 4462 | | JMS I LIBHND | /GET THE PROGRAM |
| 2142 | 06660 | 3600 | LENF1, | 3600 | |
| 2143 | 06661 | 0200 | | 0200 | |
| 2144 | 06662 | 0000 | POINT6, | 0 | |
| 2145 | 06663 | 5564 | | JMP I LDERR | |
| 2146 | 06664 | 1034 | | TAD NEWDEV | /SAVE THIS STUFF SO WE |
| 2147 | 06665 | 3775 | | DCA LIBDEV | /KNOW WHERE WE ARE |
| 2148 | 06666 | 1035 | | TAD NEWDEV+1 | |
| 2149 | 06667 | 3774 | | DCA LIBDEV+1 | |
| 2150 | 06670 | 1054 | | TAD STBLK | |
| 2151 | 06671 | 3104 | | DCA LIBFIL | |
| 2152 | 06672 | 1053 | | TAD FLNGTH | |
| 2153 | 06673 | 3773 | | DCA LIBLEN | |
| 2154 | 06674 | 1522 | | TAD I I207 | /MOVE PROGRAM LENGTH |
| 2155 | 06675 | 6211 | | CDF IO | |
| 2156 | 06676 | 3552 | | DCA I IBUFR | |
| 2157 | 06677 | 6201 | | CDF | |
| 2158 | 06700 | 5022 | | JMP EXIT | /GO TO APPROPRIATE ROUTINE |
| 2159 | | | | | |
| 2160 | 06701 | 1104 | GOSUB, | TAD LIBFIL | /CHECK FOR CURRENT PROGRAM |
| 2161 | 06702 | 7440 | | SZA | |
| 2162 | 06703 | 5320 | | JMP NOSAVE | /NO NEED TO SAVE CORE |
| 2163 | 06704 | 4445 | | TPUSHF | /MOVE 'FOCAL.TM' TO NAME AREA |
| 2164 | 06705 | 7344 | | FOCTXT | |
| 2165 | 06706 | 4446 | | TPOFF | |
| 2166 | 06707 | 0027 | | NAMLOC | |
| 2167 | 06710 | 1372 | | TAD (5723 | /DEVICE 'DSK' FOR SAVE |
| 2168 | 06711 | 3034 | | DCA NEWDEV | |
| 2169 | 06712 | 3035 | | DCA NEWDEV+1 | |
| 2170 | 06713 | 4771 | | JMS SAVE | /SAVE FILE (THIS WILL LEAVE USR IN CORE) |
| 2171 | 06714 | 1123 | | TAD I603 | /RESET EXTENSION TO 'FC' |
| 2172 | 06715 | 3032 | | DCA EXTENSION | |
| 2173 | 06716 | 4577 | | JMS I IDISMISS | /KICK MONITOR OUT TO SAVE STARTING BLOCK |
| 2174 | 06717 | 1104 | | TAD LIBFIL | |
| 2175 | 06720 | 4444 | NOSAVE, | TPUSHA | //LIBFIL' STILL IN AC |
| 2176 | 06721 | 1773 | | TAD LIBLEN | |
| 2177 | 06722 | 4444 | | TPUSHA | |
| 2178 | 06723 | 4445 | | TPUSHF | |
| 2179 | 06724 | 6534 | | LIBDEV | |
| 2180 | 06725 | 5201 | | JMP GOSUB1 | |
| 2181 | | | | | |

Moore Business Forms, Inc.

| | | | | |
|------|-------|------|--------------------|--------------------------------|
| 2182 | 06726 | 0000 | XTSPNDR, 0 | /DUPLICATE UPPER FIELD ROUTINE |
| 2183 | 06727 | 1066 | TAD CHAR | |
| 2184 | 06730 | 1116 | TAD I-240 | |
| 2185 | 06731 | 7640 | SZA CLA | |
| 2186 | 06732 | 5726 | JMP I XTSPNDR | |
| 2187 | 06733 | 4442 | TGETC | |
| 2188 | 06734 | 5327 | JMP XTSPNDR+1 | |
| 2189 | | | | |
| 2190 | 06735 | 2424 | TTYTXT, DEVICE TTY | /HANDY THING TO HAVE |
| 2191 | 06736 | 3100 | | |
| 2192 | | | | |
| 2193 | 06737 | 0000 | MSORTJ, 0 | /ANOTHER DUPLICATE |
| 2194 | 06740 | 7041 | CIA | |
| 2195 | 06741 | 3037 | DCA ATEM | |
| 2196 | 06742 | 1737 | TAD I MSORTJ | |
| 2197 | 06743 | 2337 | ISZ MSORTJ | |
| 2198 | 06744 | 3013 | DCA AUTO4 | |
| 2199 | 06745 | 1413 | TAD I AUTO4 | |
| 2200 | 06746 | 7510 | SPA | |
| 2201 | 06747 | 5361 | JMP MSEX | |
| 2202 | 06750 | 1037 | TAD ATEM | |
| 2203 | 06751 | 7640 | SZA CLA | |
| 2204 | 06752 | 5345 | JMP -5 | |
| 2205 | 06753 | 1013 | TAD AUTO4 | |
| 2206 | 06754 | 1737 | TAD I MSORTJ | |
| 2207 | 06755 | 3037 | DCA ATEM | |
| 2208 | 06756 | 1437 | TAD I ATEM | |
| 2209 | 06757 | 3037 | DCA ATEM | |
| 2210 | 06760 | 5437 | JMP I ATEM | |
| 2211 | | | | |
| 2212 | 06761 | 2337 | MSEX, ISZ MSORTJ | |
| 2213 | 06762 | 7300 | CLA CLL | |
| 2214 | 06763 | 5737 | JMP I MSORTJ | |
| 2215 | | | | |
| 2216 | 06764 | 0311 | FILIST, "I | /INPUT |
| 2217 | 06765 | 0317 | "0 | /OUTPUT |
| 2218 | 06766 | 0303 | "C | /CLOSE |
| 2219 | 06767 | 0322 | "R | /RESTORE |
| 2220 | | | | |
| 2221 | 06771 | 6436 | | |
| 2222 | 06772 | 5723 | | |
| 2223 | 06773 | 6533 | | |
| 2224 | 06774 | 6535 | | |
| 2225 | 06775 | 6534 | | |
| 2226 | 06776 | 5647 | | |

2227 06777 7153

2228 7000

PAGE

```

2229 /THIS SECTION DOES THE DIRTY WORK OF LISTING
2230 /ALL "FC"'S AND "FD"'S ON THE DEVICE REFERENCED
2231 /IT WAS FUN...
2232
2233 07000 4576 LIBRARIAN, JMS I (NAME /GET DEVICE TO LIST
2234 07001 4521 JMS I (HANDAD /GET THE HANDLER
2235 07002 0055 LIBBLK-I
2236 07003 4577 JMS I (DISMISS /KICK OUT USR (IN CASE HANDAD CALLED IT)
2237 07004 4353 JMS GETDEV /FIND DEVICE TYPE
2238 07005 7700 SMA CLA
2239 07006 4464 ERRORI /CAN'T LIST A NON-DIRECTORY DEVICE
2240 07007 4441 JMS I SHNDLR /SWAP OUT CORE TO MAKE ROOM FOR DIRECTORY
2241 07010 4200 4200
2242 07011 1000 1000
2243 07012 0040 40 /SYSTEM SCRATCH AREA
2244 07013 5564 JMP I (DERR /WHOOOPS!
2245 07014 7201 CLA IAC /SET FLAG TO SWAP BACK IN
2246 07015 3033 DCA LISTFLG
2247 07016 7301 CLL CLA IAC /DIRECTORY BEGINS WITH BLOCK I
2248 07017 3224 BLOCKLP, DCA LBLOCK
2249 07020 6002 IOF
2250 07021 4462 JMS I LIBHND
2251 07022 0200 0200
2252 07023 1000 1000
2253 07024 0001 LBLOCK, I
2254 07025 5564 JMP I (DERR
2255 07026 1377 TAD (1004 /FIRST 5 WORDS ARE INFORMATION
2256 07027 3013 DCA AUTO4
2257 07030 1013 LOOP2, TAD AUTO4 /SAVE FOR LATER
2258 07031 3017 DCA AUTO8
2259 07032 1013 TAD AUTO4
2260 07033 3261 DCA LIBX
2261 07034 1413 TAD I AUTO4 /LOOKING FOR .FC & .FD FILES
2262 07035 7650 SNA CLA
2263 07036 5342 JMP PATCH /ZERO FILE
2264 07037 2013 ISZ AUTO4
2265 07040 2013 ISZ AUTO4
2266 07041 1413 TAD I AUTO4 /PICK UP EXTENSION
2267 07042 3224 DCA LBLOCK
2268 07043 1777 TAD I (1004 /WASTE WORDS (NEGATIVE)
2269 07044 7041 CIA /THANKS FOR TELLING US, RITCHIE
2270 07045 1013 TAD AUTO4 /SKIP TO LENGTH
2271 07046 3013 DCA AUTO4
2272 07047 1413 TAD I AUTO4 /ZERO LENGTH MEANS TEMPORARY FILE
2273 07050 7450 SNA

```

| | | | | | |
|------|-------|------|----------|-----------------|------------------------------------|
| 2274 | 07051 | 5343 | | JMP LOOP3 | /IGNORE SUCH THINGS |
| 2275 | 07052 | 7141 | | CLL CIA | |
| 2276 | 07053 | 3053 | | DCA FLNGTH | /SAVE POSITIVE LENGTH |
| 2277 | 07054 | 1027 | | TAD NAMLOC | /IF A NAME WAS GIVEN, SEE IF WE |
| 2278 | 07055 | 7650 | | SNA CLA | /HAVE REACHED IT YET |
| 2279 | 07056 | 5265 | | JMP TESTGO | /NO NAME |
| 2280 | 07057 | 4515 | | JMS I [COMPARE | /COMPARE THIS NAME WITH ARG |
| 2281 | 07060 | 7774 | | -4 | |
| 2282 | 07061 | 0000 | LIBX, | 0 | |
| 2283 | 07062 | 0026 | | NAMLOC-1 | |
| 2284 | 07063 | 5343 | | JMP LOOP3 | /NON-MATCHING |
| 2285 | 07064 | 3027 | | DCA NAMLOC | /WE FOUND IT, DON'T CHECK ANY MORE |
| 2286 | 07065 | 1224 | TESTGO, | TAD LBLOCK | /COMPARE EXTENSION |
| 2287 | 07066 | 1376 | | TAD (-604 | /DO WE WANT THIS ONE? |
| 2288 | 07067 | 7440 | | SZA | |
| 2289 | 07070 | 7001 | | IAC | |
| 2290 | 07071 | 7640 | | SZA CLA | |
| 2291 | 07072 | 5343 | | JMP LOOP3 | /GUESS NOT |
| 2292 | 07073 | 7346 | DIRLIST, | CLA CLL CMA RTL | /PRINT 3 WORDS |
| 2293 | 07074 | 3371 | | DCA COUNT | |
| 2294 | 07075 | 1417 | | TAD I AUT08/SET | BEFORE THIS |
| 2295 | 07076 | 4775 | | JMS NPACK | /PRINT 2 CHARS |
| 2296 | 07077 | 2371 | | ISZ COUNT | |
| 2297 | 07100 | 5275 | | JMP -3 | |
| 2298 | 07101 | 1374 | | TAD (" | |
| 2299 | 07102 | 4501 | | TPRINTC | |
| 2300 | 07103 | 1417 | | TAD I AUT08 | /PRINT EXTENSION |
| 2301 | 07104 | 4775 | | JMS NPACK | |
| 2302 | 07105 | 1373 | | TAD (TABLE | /SET UP FOR DECIMAL LENGTH PRINT |
| 2303 | 07106 | 3034 | | DCA POINT | |
| 2304 | 07107 | 3035 | ZLOOP, | DCA ZERSW | |
| 2305 | 07110 | 3371 | | DCA COUNT | |
| 2306 | 07111 | 1434 | NLOOP, | TAD I POINT | /FINISHED ALL POWERS OF 10? |
| 2307 | 07112 | 7450 | | SNA | |
| 2308 | 07113 | 5337 | | JMP NEND | /YES, ALL DONE |
| 2309 | 07114 | 1053 | | TAD FLNGTH | /NO, SUBTRACT THIS POWER |
| 2310 | 07115 | 7510 | | SPA | /UNDERFLOW? |
| 2311 | 07116 | 5322 | | JMP DIGIT | /YES, PRINT THIS DIGIT |
| 2312 | 07117 | 3053 | | DCA FLNGTH | /NO, GO THROUGH THE LOOP AGAIN |
| 2313 | 07120 | 2371 | | ISZ COUNT | /ADD ONE TO THIS DIGIT |
| 2314 | 07121 | 5311 | | JMP NLOOP | /ANOTHER DIVIDE CYCLE |
| 2315 | | | | | |
| 2316 | 07122 | 7300 | DIGIT, | CLA CLL | /CRAP IN AC |
| 2317 | 07123 | 2034 | | ISZ POINT | /NEXT POWER OF TEN |
| 2318 | 07124 | 1371 | | TAD COUNT | /IF THIS DIGIT IS ZERO, |

| | | | | | |
|------|-------|------|---------|----------------|--|
| 2319 | 07125 | 2035 | | ISZ ZERSW | /AND NO OTHER DIGITS HAVE BEEN NON-ZERO, |
| 2320 | 07126 | 7440 | | SZA | /PRINT A SPACE INSTEAD |
| 2321 | 07127 | 5333 | | JMP NPRNT | |
| 2322 | 07130 | 1127 | | TAD L240 | |
| 2323 | 07131 | 4501 | | TPRINTC | |
| 2324 | 07132 | 5307 | | JMP ZLOOP | |
| 2325 | 07133 | 1114 | NPRNT, | TAD L260 | /CHANGE TO ASCII |
| 2326 | 07134 | 4501 | | TPRINTC | |
| 2327 | 07135 | 7340 | | CLA CLL CMA | /SET ZERO SWITCH |
| 2328 | 07136 | 5307 | | JMP ZLOOP | |
| 2329 | 07137 | 1126 | NEND, | TAD L215 | /DONE WITH THIS LINE (WHEW!) |
| 2330 | 07140 | 4501 | | TPRINTC | |
| 2331 | 07141 | 5343 | | JMP LOOP3 | |
| 2332 | | | | | |
| 2333 | 07142 | 2013 | PATCH, | ISZ AUTO4 | /BUMP PAST EMPTY LENGTH |
| 2334 | 07143 | 2623 | LOOP3, | ISZ I LBLOCK-1 | /DONE WITH THIS BLOCK? |
| 2335 | 07144 | 5230 | | JMP LOOP2 | /NO, KEEP GOING |
| 2336 | 07145 | 4562 | LEXIT, | JMS I LIOWAIT | /WAIT FOR I/O |
| 2337 | 07146 | 1513 | | TAD I L1002 | /LINK TO NEXT BLOCK |
| 2338 | 07147 | 7440 | | SZA | /LAST BLOCK? |
| 2339 | 07150 | 5217 | | JMP BLOKLP | /NO, GET THE NEXT |
| 2340 | 07151 | 4772 | | JMS SWAPIN | /YES, RESTORE SWAPPED CORE AND EXIT |
| 2341 | 07152 | 5022 | | JMP EXIT | |
| 2342 | | | | | |
| 2343 | 07153 | 0000 | GETDEV, | 0 | /GET DEVICE TYPE FROM MONITOR TABLE |
| 2344 | 07154 | 1112 | | TAD L7757 | /DCB-1 |
| 2345 | 07155 | 1055 | | TAD DEVNO | |
| 2346 | 07156 | 3371 | | DCA COUNT | |
| 2347 | 07157 | 6211 | | ODF IO | |
| 2348 | 07160 | 1771 | | TAD I COUNT | |
| 2349 | 07161 | 6201 | | ODF | |
| 2350 | 07162 | 5753 | | JMP I GETDEV | |
| 2351 | | | | | |
| 2352 | | | | DECIMAL | |
| 2353 | 07163 | 6030 | TABLE, | -1000 | |
| 2354 | 07164 | 7634 | | -100 | |
| 2355 | 07165 | 7766 | | -10 | |
| 2356 | 07166 | 7777 | | -1 | |
| 2357 | 07167 | 0000 | | 0 | |
| 2358 | | | | OCTAL | |
| 2359 | | | | | |
| 2360 | | 0034 | | POINT=NEWDEV | |
| 2361 | | 0035 | | ZERSW=NEWDEV+1 | |
| 2362 | 07170 | 0000 | POINT7, | 0 | |
| 2363 | 07171 | 0000 | COUNT, | 0 | |

| | | |
|------|-------|------|
| 2364 | | |
| 2365 | 07172 | 7275 |
| 2366 | 07173 | 7163 |
| 2367 | 07174 | 0256 |
| 2368 | 07175 | 7306 |
| 2369 | 07176 | 7174 |
| 2370 | 07177 | 1004 |
| 2371 | 7200 | |

PAGE

| | | | | |
|------|-------|------|--------|---|
| 2372 | | | | /MISCELLANEOUS GENERAL-PURPOSE ROUTINES |
| 2373 | | | | |
| 2374 | | | | /THIS IS THE GENERAL OPEN SUBROUTINE |
| 2375 | | | | /CALLING SEQUENCE: |
| 2376 | | | | /JMS I [OPEN |
| 2377 | | | | /HANDLER BLOCK |
| 2378 | | | | /MONITOR CALL CODE |
| 2379 | | | | /RETURN IF TTY: IS DEVICE |
| 2380 | | | | /ERROR RETURN |
| 2381 | | | | /NORMAL RETURN |
| 2382 | | | | /SETS STBLK, FLNGTH ON PAGE ZERO |
| 2383 | | | | |
| 2384 | 07200 | 0000 | OPEN, | 0 |
| 2385 | 07201 | 7340 | | CLA CLL CMA /INITIALIZE ECHO FLAG TO OFF |
| 2386 | 07202 | 3050 | | DCA ECHFLG |
| 2387 | 07203 | 4576 | | JMS I [NAME /GET DEVICE AND FILENAME |
| 2388 | 07204 | 4515 | | JMS I [COMPARE /DEVICE 'TTY:' IS SPECIAL |
| 2389 | 07205 | 7776 | | -2 |
| 2390 | 07206 | 0033 | | NEWDEV-1 |
| 2391 | 07207 | 6734 | | TTYTXT-1 |
| 2392 | 07210 | 5214 | | JMP OTHER /DEVICE OTHER THAN TTY |
| 2393 | 07211 | 2200 | | ISZ OPEN /INCREMENT TO PROPER RETURN |
| 2394 | 07212 | 2200 | | ISZ OPEN |
| 2395 | 07213 | 5600 | | JMP I OPEN |
| 2396 | 07214 | 1600 | OTHER, | TAD I OPEN /GET HANDLER BLOCK TO USE |
| 2397 | 07215 | 3223 | | DCA HND |
| 2398 | 07216 | 2200 | | ISZ OPEN |
| 2399 | 07217 | 1144 | | TAD [NAMLOC /POINTER TO NAME |
| 2400 | 07220 | 3234 | | DCA NAMPT |
| 2401 | 07221 | 4531 | | JMS I [GTMON |
| 2402 | 07222 | 4521 | | JMS I [HANDAD /GET THE HANDLER |
| 2403 | 07223 | 0000 | HND, | 0 /SET TO HANDLER BLOCK |
| 2404 | 07224 | 1600 | | TAD I OPEN /GET MONITOR CALL CODE (2 OR 3) |
| 2405 | 07225 | 2200 | | ISZ OPEN |
| 2406 | 07226 | 3233 | | DCA CALL |
| 2407 | 07227 | 3235 | | DCA LNGTH /FOR MONITOR KLUDGE (IT FALLS THROUGH ON ERROR) |
| 2408 | 07230 | 1055 | | TAD DEVNO /DO THE CALL |
| 2409 | 07231 | 6212 | | CIF 10 |
| 2410 | 07232 | 4421 | | JMS I [USR |
| 2411 | 07233 | 0000 | CALL, | 0 |
| 2412 | 07234 | 0027 | NAMPT, | NAMLOC |
| 2413 | 07235 | 0000 | LNGTH, | 0 |
| 2414 | 07236 | 5212 | | JMP OTHER-2 /LET THE CALLING ROUTINE DECIDE ERROR PROCEDURE |
| 2415 | 07237 | 1235 | | TAD LNGTH /MOVE PARAMETERS TO PAGE ZERO |
| 2416 | 07240 | 3053 | | DCA FLNGTH |

| | | | | | |
|------|-------|------|---------|---------------|---------------------------------------|
| 2417 | 07241 | 1234 | | TAD NAMPT | |
| 2418 | 07242 | 3054 | | DCA STBLK | |
| 2419 | 07243 | 5211 | | JMP OTHER-3 | /AND TAKE NORMAL RETURN |
| 2420 | | | | | |
| 2421 | 07244 | 0000 | ERROR, | 0 | /LOWER FIELD ERROR ROUTINE |
| 2422 | 07245 | 4577 | | JMS I [DISMIS | /MAKE SURE |
| 2423 | 07246 | 1244 | | TAD ERROR | /FAKE OUT ERROR ROUTINE |
| 2424 | 07247 | 6213 | | CIF CDF 10 | /AND GO TO IT |
| 2425 | 07250 | 3777 | | DCA I (ERR2 | |
| 2426 | 07251 | 5776 | | JMP I (ERR2+1 | |
| 2427 | | | | | |
| 2428 | 07252 | 4576 | DELETE, | JMS I [NAME | /DELETE IS AN EASY ONE (THANK GOD!) |
| 2429 | 07253 | 4531 | | JMS I [GTMON | |
| 2430 | 07254 | 4521 | | JMS I [HANDAD | |
| 2431 | 07255 | 0055 | | LIBBLK-1 | |
| 2432 | 07256 | 4270 | | JMS OCHK | /CLOSE ANY OPEN OUTPUT FILE |
| 2433 | 07257 | 6212 | | CIF 10 | /DELETE THE FILE |
| 2434 | 07260 | 1055 | | TAD DEVNG | |
| 2435 | 07261 | 4421 | | JMS I [USR | |
| 2436 | 07262 | 0004 | | 4 | |
| 2437 | 07263 | 0027 | | NAMLOC | |
| 2438 | 07264 | 0000 | | 0 | |
| 2439 | 07265 | 4464 | | ERROR1 | |
| 2440 | 07266 | 3104 | | DCA LIBFIL | /IN CASE HE JUST DELETED THIS PROGRAM |
| 2441 | 07267 | 5022 | | JMP EXIT | |
| 2442 | | | | | |
| 2443 | 07270 | 0000 | OCHK, | 0 | /IF ANY FILE EXISTS, CLOSE IT |
| 2444 | 07271 | 1105 | | TAD DEVHLD | |
| 2445 | 07272 | 7640 | | SZA CLA | |
| 2446 | 07273 | 4775 | | JMS OCLOSE | |
| 2447 | 07274 | 5670 | | JMP I OCHK | |
| 2448 | | | | | |
| 2449 | 07275 | 0000 | SWAPIN, | 0 | /RESTORE CORE AFTER DIRECTORY LIST |
| 2450 | 07276 | 3033 | | DCA LISTFLG | |
| 2451 | 07277 | 6002 | | IOF | |
| 2452 | 07300 | 4441 | | JMS I SHNDLR | |
| 2453 | 07301 | 0200 | | 200 | |
| 2454 | 07302 | 1000 | | 1000 | |
| 2455 | 07303 | 0040 | | 40 | |
| 2456 | 07304 | 4464 | DERR, | ERROR1 | /DEVICE ERROR |
| 2457 | 07305 | 5675 | | JMP I SWAPIN | |
| 2458 | | | | | |
| 2459 | 07306 | 0000 | NPACK, | 0 | /STANDARD 6-BIT UNPACK ROUTINE |
| 2460 | 07307 | 3270 | | DCA OCHK | |
| 2461 | 07310 | 1270 | | TAD OCHK | |

| | | | | | |
|------|-------|------|---------|--------------------|---|
| 2462 | 07311 | 7012 | | RTR | |
| 2463 | 07312 | 7012 | | RTR | |
| 2464 | 07313 | 7012 | | RTR | |
| 2465 | 07314 | 4320 | | JMS XFORM | |
| 2466 | 07315 | 1270 | | TAD OCHK | |
| 2467 | 07316 | 4320 | | JMS XFORM | |
| 2468 | 07317 | 5706 | | JMP I NPACK | |
| 2469 | | | | | |
| 2470 | 07320 | 0000 | XFORM, | 0 | |
| 2471 | 07321 | 0111 | | AND [77 | |
| 2472 | 07322 | 7440 | | SZA | /PRINT SPACES FOR NULLS |
| 2473 | 07323 | 1374 | | TAD (-40 | |
| 2474 | 07324 | 7510 | | SPA | |
| 2475 | 07325 | 1120 | | TAD [100 | |
| 2476 | 07326 | 1127 | | TAD [240 | |
| 2477 | 07327 | 4501 | | TPRINTC | |
| 2478 | 07330 | 5720 | | JMP I XFORM | |
| 2479 | | | | | |
| 2480 | 07331 | 1051 | OCLCHK, | TAD OPNFLG | /MAKE 'OPEN OUTPUT' WITH AN ALREADY OPEN FILE |
| 2481 | 07332 | 7650 | | SNA CLA | /THE SAME AS 'OUTPUT CLOSE; OPEN OUTPUT' |
| 2482 | 07333 | 4464 | | ERRORI | |
| 2483 | 07334 | 4775 | | JMS OCLOSE | |
| 2484 | 07335 | 1373 | | TAD (YINT | /FAKE OUT 'OPEN' |
| 2485 | 07336 | 3200 | | DCA OPEN | |
| 2486 | 07337 | 5214 | | JMP OTHER | |
| 2487 | | | | | |
| 2488 | 07340 | 0000 | MGETLN, | 0 | /CROSS-FIELD FAKE |
| 2489 | 07341 | 6213 | | CIF CDF 10 | |
| 2490 | 07342 | 4772 | | JMS I (PGETLN | |
| 2491 | 07343 | 5740 | | JMP I MGETLN | |
| 2492 | | | | | |
| 2493 | 07344 | 0617 | FOCTXT, | FILENAME FOCAL. TM | /USED BY 'GOSUB' |
| 2494 | 07345 | 0301 | | | |
| 2495 | 07346 | 1400 | | | |
| 2496 | 07347 | 2415 | | | |
| 2497 | | | | | |
| 2498 | 07350 | 0000 | XGETC, | 0 | /ANOTHER FAKE |
| 2499 | 07351 | 6213 | | CIF CDF 10 | |
| 2500 | 07352 | 4771 | | JMS I (MGETC | |
| 2501 | 07353 | 1440 | | TAD I XCHAR | |
| 2502 | 07354 | 6201 | | CDF | |
| 2503 | 07355 | 3066 | | DCA CHAR | |
| 2504 | 07356 | 5750 | | JMP I XGETC | |
| 2505 | | | | | |
| 2506 | 07371 | 5774 | | | |

| | | |
|------|-------|------|
| 2507 | 07372 | 7547 |
| 2508 | 07373 | 5402 |
| 2509 | 07374 | 7740 |
| 2510 | 07375 | 3636 |
| 2511 | 07376 | 2727 |
| 2512 | 07377 | 2726 |
| 2513 | | 7400 |
| 2514 | | |
| 2515 | | |
| 2516 | 00111 | 0077 |
| 2517 | 00112 | 7757 |
| 2518 | 00113 | 1002 |
| 2519 | 00114 | 0260 |
| 2520 | 00115 | 6276 |
| 2521 | 00116 | 7540 |
| 2522 | 00117 | 3636 |
| 2523 | 00120 | 0100 |
| 2524 | 00121 | 6200 |
| 2525 | 00122 | 0207 |
| 2526 | 00123 | 0603 |
| 2527 | 00124 | 7515 |
| 2528 | 00125 | 3216 |
| 2529 | 00126 | 0215 |
| 2530 | 00127 | 0240 |
| 2531 | 00130 | 7600 |
| 2532 | 00131 | 6150 |
| 2533 | 00132 | 0200 |
| 2534 | 00133 | 0032 |
| 2535 | 00134 | 7725 |
| 2536 | 00135 | 0012 |
| 2537 | 00136 | 7506 |
| 2538 | 00137 | 7473 |
| 2539 | 00140 | 0004 |
| 2540 | 00141 | 0057 |
| 2541 | 00142 | 0002 |
| 2542 | 00143 | 7522 |
| 2543 | 00144 | 0027 |
| 2544 | 00145 | 0007 |
| 2545 | 00146 | 3162 |
| 2546 | 00147 | 7275 |
| 2547 | 00150 | 7774 |
| 2548 | 00151 | 0003 |
| 2549 | 00152 | 0060 |
| 2550 | 00153 | 2666 |
| 2551 | 00154 | 2163 |

PAGE

\$

| | | |
|------|-------|------|
| 2552 | 00155 | 4551 |
| 2553 | 00156 | 0064 |
| 2554 | 00157 | 0177 |
| 2555 | 00160 | 0611 |
| 2556 | 00161 | 7200 |
| 2557 | 00162 | 6137 |
| 2558 | 00163 | 7400 |
| 2559 | 00164 | 7304 |
| 2560 | 00165 | 6560 |
| 2561 | 00166 | 5744 |
| 2562 | 00167 | 0063 |
| 2563 | 00170 | 2676 |
| 2564 | 00171 | 0232 |
| 2565 | 00172 | 5425 |
| 2566 | 00173 | 7772 |
| 2567 | 00174 | 5615 |
| 2568 | 00175 | 7467 |
| 2569 | 00176 | 6000 |
| 2570 | 00177 | 6160 |

| | | | | | | | |
|---------|------|--------|------|--------|------|--------|------|
| ACDF | 5655 | COUNT | 7171 | FILADD | 4314 | INIT | 4000 |
| ACIF | 5742 | CPRNT | 7543 | FILER | 3156 | INITMP | 4150 |
| ADD | 0061 | CRONLY | 6344 | FILEST | 5443 | INLIST | 0571 |
| ADDR | 6336 | C100 | 0006 | FILGO | 6364 | INPUT | 0756 |
| AGAIN | 6310 | C200 | 0123 | FILIST | 6764 | INTEGE | 4453 |
| ALIST | 1371 | C214 | 0073 | FIN | 7522 | IOPEN | 5600 |
| AMPADD | 4357 | C2163 | 3150 | FINDLN | 4555 | IOWAIT | 6137 |
| ATEM | 0037 | C260 | 0113 | FINT | 4407 | IPNFLG | 0052 |
| ATLIST | 1567 | C7600 | 6432 | FLAC | 0044 | IPNTR | 5547 |
| ATSW | 0003 | DAXIN | 0173 | FLARG | 2030 | IRST | 5615 |
| AUTO1 | 0010 | DAXOUT | 0174 | FLDSET | 5744 | ITEMP | 5546 |
| AUTO2 | 0011 | DCDYES | 6131 | FLNGTH | 0053 | LASTLN | 0025 |
| AUTO3 | 0012 | DECODE | 6116 | FLOP | 0040 | LASTV | 0031 |
| AUTO4 | 0013 | DELETE | 7252 | FLP5 | 0305 | LBLOCK | 7024 |
| AUTO5 | 0014 | DERR | 7304 | FLTONE | 2406 | LENFT | 6660 |
| AUTO6 | 0015 | DEVC | 6242 | FLTZER | 2410 | LEXIT | 7145 |
| AUTO7 | 0016 | DEVHLD | 0105 | FL100 | 0302 | LGOSUB | 1553 |
| AUTO8 | 0017 | DEVND | 0055 | FMUL | 4000 | LIB | 7503 |
| AXIN | 0010 | DIGIT | 7122 | FNOR | 7000 | LIBBLK | 0056 |
| AXIND | 6350 | DIRLIS | 7073 | FOCTXT | 7344 | LIBDEV | 6534 |
| AXOUT | 0017 | DISMIS | 6160 | FORADD | 4222 | LIBFIL | 0104 |
| AXOUTD | 2572 | DLOAD | 6244 | FORFIN | 4263 | LIBHND | 0062 |
| BACK | 5372 | DO | 0420 | FOUT | 7536 | LIBLEN | 6533 |
| BLKCNT | 3656 | DOUBLE | 0127 | FPUT | 6000 | LIBN | 0132 |
| BLLL | 6526 | DPC | 0167 | FRAN | 7553 | LIBRAR | 7000 |
| BLOCK | 6537 | DPT1 | 0171 | FSUB | 2000 | LIBX | 7061 |
| BLOKLP | 7017 | DTHIS | 0170 | FXIT | 0000 | LINEND | 0067 |
| BOTTOM | 0035 | DUBLAD | 5733 | GETC | 4545 | LINE0 | 0210 |
| BUFR | 0060 | DXRT | 0172 | GETDEV | 7153 | LINE1 | 0224 |
| CALL | 7233 | ECHCHK | 6102 | GETLN | 4554 | LISTFL | 0033 |
| CCIF | 3732 | ECHFLG | 0050 | GETVAR | 1407 | LISTGO | 1367 |
| CCR | 0077 | ECHGO | 6041 | GLIST | 1377 | LIST3 | 0077 |
| CFRS | 0133 | ECHO | 3140 | GNAME | 6016 | LIST6 | 0073 |
| CFRSX | 0137 | ECHOP | 0000 | GOK | 0037 | LIST7 | 0075 |
| CHAINED | 6600 | EFUN3I | 0136 | GOKILL | 2010 | LNGTH | 7235 |
| CHANGE | 4207 | END | 0134 | GOSUB | 6701 | LOAD | 6606 |
| CHAR | 0066 | ENDLN | 4556 | GOSUB1 | 6601 | LOADGO | 6620 |
| CHARI | 3155 | EOF | 3170 | GOSWIT | 7515 | LOGADD | 4327 |
| CHKAMP | 4077 | EQADD | 4350 | GOTO | 0603 | LOOKUP | 4200 |
| CHKCOL | 4071 | ERROR | 7244 | GS1 | 1437 | LOOP2 | 7030 |
| CHKEQ | 4063 | ERROR1 | 4464 | GTMON | 6150 | LOOP3 | 7143 |
| CHKFIL | 4047 | ERROR2 | 4566 | HANDAD | 6200 | LOWLIB | 6400 |
| CHKLOG | 4027 | ERROR5 | 2725 | HANDOK | 6265 | MCR | 0116 |
| CHKPRC | 4105 | ERR2 | 2726 | HND | 7223 | MGETC | 5774 |
| CHKSIN | 4037 | EVAL | 1613 | IBLK | 5474 | MGETLN | 7340 |

| | | | | | | | |
|--------|------|--------|------|--------|------|--------|------|
| CHKSP | 4055 | EXIT | 0022 | ICHAR | 5464 | MINUSA | 0112 |
| CLF | 0076 | EXTENS | 0032 | ICHARF | 3151 | MPD2 | 5657 |
| CLOOP | 4213 | FADD | 1000 | ICHARI | 5506 | MPD3 | 5706 |
| CNTR | 0057 | FCDF | 5671 | ICHAR2 | 5510 | MPER | 0115 |
| CNTRX | 0002 | FCIF | 5722 | ICHAR3 | 5516 | MPOPA | 5733 |
| COLADD | 4336 | FDIV | 3000 | INBLK | 0067 | MPRINT | 6321 |
| COMBUF | 0132 | FENT | 4407 | INBUF | 0034 | MPUSHA | 5632 |
| COMGO | 6423 | FETCHE | 6602 | INCHT | 5550 | MSEX | 6761 |
| COMLIS | 6354 | FEXT | 0000 | INDEV | 0064 | MSORTC | 5765 |
| COMPAR | 6276 | FGET | 0000 | INHND | 0073 | MSORTJ | 6737 |
| M100 | 0101 | OUTLP | 3214 | RETRN | 1561 | TPUSHF | 4445 |
| M11 | 0121 | OZ | 3730 | RETRY | 6231 | TRND | 5375 |
| M12 | 2414 | O3 | 3734 | RETURN | 6540 | TSORTJ | 4447 |
| M16 | 6335 | O7600 | 3756 | RISZ | 0004 | TSPNOR | 4503 |
| M2 | 0111 | PACKC | 4546 | RNDM | 6337 | TSTGRP | 4563 |
| M20 | 0105 | PATCH | 7142 | RT | 3734 | TSTLPR | 4562 |
| M240 | 0114 | PC | 0022 | RTL6 | 4557 | TT | 6136 |
| M5 | 0120 | PC0 | 0200 | SAVAC | 2600 | TTYIN | 5630 |
| M77 | 0103 | PDERR | 5647 | SAVBLK | 6504 | TTYOUT | 5441 |
| NAGSW | 0065 | PDLXR | 0013 | SAVE | 6436 | TTYTXT | 6735 |
| NAME | 6000 | PDZ | 0477 | SAVEPT | 6470 | TIS | 6337 |
| NAMEC | 6031 | PD3 | 0510 | SAVER | 6433 | T2 | 0071 |
| NAMECT | 6135 | PER | 0102 | SAVLK | 2601 | USR | 0021 |
| NAMLOC | 0027 | PERD | 6071 | SECRET | 4125 | XABS | 2014 |
| NAMPT | 7234 | PERDSW | 6134 | SECRTV | 0175 | XCHAR | 0040 |
| NEGATE | 4451 | PGETLN | 7547 | SHNDLR | 0041 | XCNTR | 0020 |
| NEND | 7137 | POINT | 0034 | SINADD | 4323 | XFORM | 7320 |
| NEWDEV | 0034 | POINT4 | 6530 | SLOT | 6206 | XGETC | 7350 |
| NEWLIN | 6352 | POINT6 | 6662 | SORTC | 4550 | XGETLN | 0315 |
| NLOOP | 7111 | POINT7 | 7170 | SORTCN | 0054 | XPOPA | 0521 |
| NMBASE | 6133 | POPA | 4526 | SORTJ | 4547 | XPOPJ | 1563 |
| NOCARE | 3215 | POPF | 4544 | SP | 1530 | XPUSHA | 1354 |
| NOCHAR | 3667 | POPJ | 5541 | SPACE | 5376 | XPUSHJ | 2415 |
| NOSAVE | 6720 | PRINTC | 4551 | SPADD | 4343 | XRAN | 6311 |
| NOTEQ | 6221 | PRINTX | 3216 | SPNOR | 4560 | XRESTO | 5751 |
| NPACK | 7306 | PRNTLN | 4553 | SRNLST | 1363 | XRT | 0011 |
| NPRNT | 7133 | PROC | 0611 | START | 0177 | XRTD | 6343 |
| OBLK | 3721 | PROCES | 0610 | STBLK | 0054 | XSGN | 7560 |
| OCHAR | 3200 | PT1 | 0030 | STVAR | 3222 | XTAB | 5352 |
| OCHCT | 3775 | PT1D | 6165 | SWAPIN | 7275 | XTSPNO | 6726 |
| OCHK | 7270 | PUSHA | 4542 | TAB | 2501 | XI33 | 2666 |
| OCLCHK | 7331 | PUSHB | 0226 | TABC | 0001 | XI33P | 3161 |
| OCLOSE | 3636 | PUSHB1 | 0367 | TABCNT | 6325 | YBLK | 5404 |
| OCLOSR | 6555 | PUSHF | 4543 | TABCPT | 6241 | YINT | 5402 |
| OLNGTH | 3774 | PUSHJ | 4540 | TABLE | 7163 | ZERSW | 0035 |

| | | | |
|-------------|-------------|-------------|------------|
| ONMTMP 5551 | PUTDEV 6560 | TASK 1204 | ZLOOP 7107 |
| OOPEN 5400 | P13 0005 | TDUMPX 6355 | |
| OQVER 3746 | P15 1255 | TELPCH 6363 | |
| OPEN 7200 | P17 0107 | TELSW 0016 | |
| OPNFLG 0051 | P177 0106 | TEMP 0311 | |
| OPTRI 2665 | P2000 0373 | TEM7 0036 | |
| OPTR0 2664 | P277 0110 | TERMER 3162 | |
| OPTR0 2663 | P337 0075 | TESTA 0350 | |
| OPTRI 3772 | P4000 0124 | TESTC 4564 | |
| OPTR2 3773 | P7600 0104 | TESTG0 7065 | |
| ORST 5425 | P77 0122 | TESTN 4561 | |
| OSETUP 3760 | P7700 0101 | TESTRM 4463 | |
| OTHER 7214 | P7740 0372 | TGETC 4442 | |
| OUT 2465 | RANRAN 2657 | TGETLN 4502 | |
| OUTBLK 0074 | RDPTR 5530 | THISD 6160 | |
| OUTCR 2475 | READC 4552 | THISLN 0023 | |
| OUTDEV 0063 | RECORD 6536 | TPOPA 4443 | |
| OUTECH 3202 | RECOVR 2736 | TPOPF 4446 | |
| OUTHND 0100 | RECOVX 2757 | TPRINT 4501 | |
| OUTL 2676 | RESTOR 3614 | TPUSHA 4444 | |

| | | | | | | | | | | | |
|--------|-------|-------|-------|-------|-------|------|------|------|------|------|--|
| M16 | 757 | 774# | | | | | | | | | |
| M2 | 56# | | | | | | | | | | |
| M20 | 52# | 594 | | | | | | | | | |
| M240 | 59# | | | | | | | | | | |
| M5 | 62# | | | | | | | | | | |
| M77 | 50# | | | | | | | | | | |
| NAGSW | 39# | 278 | | | | | | | | | |
| NAME | 1280 | 1683# | 1691 | 1696 | 1985 | 2233 | 2387 | 2428 | | | |
| NAMEC | 1709# | 1726 | 1740 | 1750 | | | | | | | |
| NAMECT | 1706 | 1723 | 1727 | 1739 | 1781# | | | | | | |
| NAML0C | 1177# | 1406 | 1693 | 1695 | 1699 | 1700 | 1701 | 1702 | 1742 | 1991 | |
| | 2015 | 2026 | 2166 | 2277 | 2283 | 2285 | 2399 | 2412 | 2437 | | |
| NAMPT | 2400 | 2412# | 2417 | | | | | | | | |
| NEGATE | 93# | 257 | | | | | | | | | |
| NEND | 2308 | 2329# | | | | | | | | | |
| NEWDEV | 1180# | 1686 | 1687 | 1694 | 1826 | 1838 | 1841 | 1845 | 1847 | 2034 | |
| | 2036 | 2061 | 2146 | 2148 | 2168 | 2169 | 2360 | 2361 | 2390 | | |
| NEWLIN | 1915 | 1932# | | | | | | | | | |
| NLOOP | 2306# | 2314 | | | | | | | | | |
| NMBASE | 1703 | 1729 | 1748 | 1779# | | | | | | | |
| NOCARE | 695 | 699# | | | | | | | | | |
| NOCHAR | 699 | 1295 | 1316# | 1352 | | | | | | | |
| NOSAVE | 2162 | 2175# | | | | | | | | | |
| NOTED | 1827 | 1837# | | | | | | | | | |
| NPACK | 2295 | 2301 | 2459# | 2468 | | | | | | | |
| NPRNT | 2321 | 2325# | | | | | | | | | |
| OBLK | 1342# | 1344 | 1378 | 1380 | 1410 | | | | | | |
| OCHAR | 685# | 696 | 1426 | | | | | | | | |
| OCHCT | 1329 | 1385 | 1391# | | | | | | | | |
| OCHK | 1990 | 2432 | 2443# | 2447 | 2460 | 2461 | 2466 | | | | |
| OCLCHK | 1403 | 2480# | | | | | | | | | |
| OCLOSE | 1290# | 1293 | 1314 | 2070 | 2446 | 2483 | | | | | |
| OCLOSR | 1946 | 2070# | | | | | | | | | |
| OLNGTH | 1334 | 1390# | 1412 | | | | | | | | |
| ONMTMP | 1305 | 1372 | 1408 | 1507# | | | | | | | |
| OOPEN | 1398# | 1945 | | | | | | | | | |
| OOVER | 1337 | 1366# | | | | | | | | | |
| OPEN | 1399 | 1521 | 2100 | 2384# | 2393 | 2394 | 2395 | 2396 | 2398 | 2404 | |
| | 2405 | 2485 | | | | | | | | | |
| OPNFLG | 1201# | 1291 | 1308 | 1366 | 1415 | 1419 | 2480 | | | | |
| OPTRI | 110# | 600 | | | | | | | | | |
| OPTR0 | 109# | 602 | | | | | | | | | |
| OPTR0 | 108# | 597 | 599 | 601 | | | | | | | |
| OPTR1 | 1296 | 1349 | 1350 | 1379 | 1388# | | | | | | |
| OPTR2 | 1361 | 1362 | 1363 | 1381 | 1389# | | | | | | |
| ORST | 1288 | 1419# | | | | | | | | | |
| OSETUP | 1346 | 1377# | 1386 | 1413 | | | | | | | |

| | | | | | | | | | | |
|--------|-------|-------|-------|-------|-------|------|------|------|------|------|
| P15 | 385 | 390# | | | | | | | | |
| P17 | 54# | | | | | | | | | |
| P177 | 53# | 272 | | | | | | | | |
| P2000 | 98# | 276 | | | | | | | | |
| P277 | 55# | 611 | 678 | | | | | | | |
| P337 | 46# | | | | | | | | | |
| P4000 | 66# | 846 | | | | | | | | |
| P7600 | 51# | 268 | | | | | | | | |
| P77 | 64# | | | | | | | | | |
| P7700 | 48# | 619 | | | | | | | | |
| P7740 | 97# | 250 | | | | | | | | |
| RANRAN | 574# | 576 | 579 | | | | | | | |
| RDPTR | 1455 | 1471 | 1477 | 1486 | 1489# | | | | | |
| READC | 80# | 835 | | | | | | | | |
| RECORD | 2009 | 2010 | 2018 | 2053# | 2076 | 2077 | 2078 | 2081 | | |
| RECOVR | 561 | 591# | 804 | | | | | | | |
| RECOVX | 608# | 1642 | | | | | | | | |
| RESTOR | 215 | 1271# | 1947 | | | | | | | |
| RETRN | 364 | 436# | | | | | | | | |
| RETRY | 1845# | 1872 | | | | | | | | |
| RETURN | 1982 | 2056# | | | | | | | | |
| RISZ | 133# | 574 | 862 | | | | | | | |
| RNDM | 754 | 766 | 777# | 863 | | | | | | |
| RT | 1324 | 1326 | 1355# | 1364 | | | | | | |
| RTL6 | 85# | 254 | | | | | | | | |
| SAVAC | 106# | 569 | | | | | | | | |
| SAVBLK | 2021 | 2027# | 2029 | | | | | | | |
| SAVE | 1986 | 1989# | 2049 | 2170 | | | | | | |
| SAVEPT | 1992 | 2015# | 2032 | 2038 | | | | | | |
| SAVER | 1976 | 1985# | | | | | | | | |
| SAVLK | 107# | 567 | | | | | | | | |
| SECRET | 910 | 960 | 973# | | | | | | | |
| SECRV | 190# | 419 | | | | | | | | |
| SHNDLR | 1184# | 2240 | 2452 | | | | | | | |
| SINADD | 916 | 1105# | | | | | | | | |
| SLOT | 1822 | 1825# | 1837 | 1839 | 1840 | 1842 | 1843 | 1849 | 1866 | 1874 |
| | 1876 | 1877 | 1879 | | | | | | | |
| SORTC | 78# | 669 | | | | | | | | |
| SORTCN | 33# | 833 | 839 | | | | | | | |
| SORTJ | 77# | | | | | | | | | |
| SP | 425# | 432 | 434 | | | | | | | |
| SPACE | 722 | 730# | | | | | | | | |
| SPADD | 938 | 1123# | | | | | | | | |
| SPNDR | 86# | 239 | 813 | | | | | | | |
| SRNLST | 120# | 400 | | | | | | | | |
| START | 104# | 459 | 625 | 827 | | | | | | |
| STBLK | 1204# | 1409 | 1527 | 2065 | 2111 | 2150 | 2418 | | | |

| | | | | | | | | | | |
|--------|-------|-------|-------|-------|------|------|------|------|------|------|
| STVAR | 142 | 162 | 190 | 708# | | | | | | |
| SWAPIN | 1633 | 2340 | 2449# | 2457 | | | | | | |
| TAB | 528 | 536# | | | | | | | | |
| TABC | 130# | 717 | | | | | | | | |
| TABCNT | 536 | 1909# | 1916 | 1923 | 1930 | | | | | |
| TABCPT | 1853# | 1919 | 1928 | 1932 | | | | | | |
| TABLE | 2302 | 2353# | | | | | | | | |
| TASK | 121# | 728 | | | | | | | | |
| TDUMPX | 640 | 795# | | | | | | | | |
| TELPCH | 191 | 802# | 888 | | | | | | | |
| TELSW | 22# | 135 | 585 | 802 | 814 | 890 | 1787 | | | |
| TEMP | 237# | 247 | 259 | | | | | | | |
| TEM7 | 1181# | 1552 | 1554 | 1556 | 1565 | | | | | |
| TERMER | 668# | 671 | 673 | 1646 | | | | | | |
| TESTA | 243 | 265# | | | | | | | | |
| TESTC | 90# | | | | | | | | | |
| TESTGO | 2279 | 2286# | | | | | | | | |
| TESTN | 87# | | | | | | | | | |
| TESTRM | 1211# | 1275 | 1443 | 1967 | | | | | | |
| TGETC | 1187# | 1274 | 1442 | 1692 | 1709 | 1747 | 1752 | 1759 | 1966 | 2187 |
| TGETLN | 1232# | 2109 | | | | | | | | |
| THISD | 185 | 740# | 744 | | | | | | | |
| THISLN | 25# | 742 | | | | | | | | |
| TM | 2493 | | | | | | | | | |
| TPOPA | 1189# | 1281 | 1446 | 1970 | 2056 | 2062 | 2064 | | | |
| TPOPF | 1195# | 1407 | 2060 | 2165 | | | | | | |
| TPRINT | 1230# | 2299 | 2323 | 2326 | 2330 | 2477 | | | | |
| TPUSHA | 1191# | 1273 | 1441 | 1962 | 2129 | 2175 | 2177 | | | |
| TPUSHF | 1193# | 1405 | 2163 | 2178 | | | | | | |
| TRND | 713 | 729# | | | | | | | | |
| TSORTJ | 1197# | 1447 | 1971 | | | | | | | |
| TSPNOR | 1234# | 1271 | 1439 | 1707 | 1753 | | | | | |
| TSTGRP | 89# | 481 | | | | | | | | |
| TSTLPR | 88# | | | | | | | | | |
| TT | 1730 | 1737 | 1738 | 1782# | | | | | | |
| TTY | 2190 | | | | | | | | | |
| TTYIN | 1524 | 1544# | 1545 | | | | | | | |
| TTYOUT | 1402 | 1431# | | | | | | | | |
| TTYTXT | 2190# | 2391 | | | | | | | | |
| T1S | 758 | 760 | 778# | | | | | | | |
| TZ | 42# | 439 | 440 | 686 | 689 | 693 | 1030 | 1032 | | |
| USR | 1170# | 1303 | 1370 | 1797 | 1800 | 1805 | 1810 | 1813 | 1852 | 2013 |
| | 2024 | 2410 | 2435 | | | | | | | |
| XABS | 116# | 873 | | | | | | | | |
| XCHAR | 1183# | 1434 | 1958 | 2058 | 2127 | 2132 | 2501 | | | |
| XCNTR | 1169# | 1578 | 1586 | 1602 | 1607 | 1887 | 1899 | | | |
| XFORM | 2465 | 2467 | 2470# | 2478 | | | | | | |

| | | | | | | |
|--------|-------|-------|-------|------|------|-----|
| XGETC | 1188 | 2498# | 2504 | | | |
| XGETLN | 181 | 238# | 279 | | | |
| XPOPA | 157 | 330# | 333 | | | |
| XPOPJ | 172 | 438# | | | | |
| XPUSHA | 174 | 403# | 406 | | | |
| XPUSHJ | 170 | 515# | 517 | 519 | 520 | 521 |
| XRAN | 753# | 860 | 864 | | | |
| XRESTO | 610 | 1631# | | | | |
| XRT | 20# | 785 | | | | |
| XRTD | 187 | 783# | 787 | | | |
| XSGN | 284 | 866# | | | | |
| XTAB | 442 | 710# | 917 | | | |
| XTSPNO | 1235 | 2182# | 2186 | 2188 | | |
| X133 | 112# | 666 | 1544 | 1637 | | |
| X133P | 666# | 676 | | | | |
| YBLK | 1402# | | | | | |
| YINT | 1400# | 2484 | | | | |
| ZERSW | 2304 | 2319 | 2361# | | | |
| ZLOOP | 2304# | 2324 | 2328 | | | |
| +L0111 | 2471 | | | | | |
| +L0112 | 2344 | | | | | |
| +L0113 | 2337 | | | | | |
| +L0114 | 2325 | | | | | |
| +L0115 | 2280 | 2388 | | | | |
| +L0116 | 2184 | | | | | |
| +L0117 | 2070 | | | | | |
| +L0120 | 2005 | 2475 | | | | |
| +L0121 | 1998 | 2066 | 2234 | 2402 | 2430 | |
| +L0122 | 1996 | 2000 | 2154 | | | |
| +L0123 | 1963 | 2171 | | | | |
| +L0124 | 1957 | 2098 | 2124 | | | |
| +L0125 | 1927 | | | | | |
| +L0126 | 1925 | 2130 | 2329 | | | |
| +L0127 | 1921 | 2322 | 2476 | | | |
| +L0130 | 1864 | 1913 | 2114 | 2115 | | |
| +L0131 | 1844 | 1997 | 2401 | 2429 | | |
| +L0132 | 1799 | 1860 | 1929 | | | |
| +L0133 | 1774 | | | | | |
| +L0134 | 1772 | | | | | |
| +L0135 | 1769 | | | | | |
| +L0136 | 1767 | | | | | |
| +L0137 | 1755 | | | | | |
| +L0140 | 1749 | | | | | |
| +L0141 | 1720 | | | | | |
| +L0142 | 1714 | | | | | |
| +L0143 | 1711 | | | | | |
| +L0144 | 1702 | 1991 | 2399 | | | |

| | | | | |
|--------|------|------|------|------|
| +L4177 | 888 | | | |
| +L5566 | 1498 | | | |
| +L5567 | 1493 | | | |
| +L5570 | 1437 | | | |
| +L5571 | 1426 | | | |
| +L5572 | 1425 | | | |
| +L5573 | 1418 | | | |
| +L5574 | 1413 | | | |
| +L5575 | 1412 | | | |
| +L5576 | 1410 | | | |
| +L5773 | 1598 | | | |
| +L5774 | 1551 | 1555 | 1561 | 1619 |
| +L5775 | 1536 | | | |
| +L5776 | 1532 | | | |
| +L5777 | 1528 | | | |
| +L6176 | 1787 | | | |
| +L6177 | 1685 | | | |
| +L6375 | 1917 | | | |
| +L6376 | 1910 | | | |
| +L6377 | 1906 | | | |
| +L6575 | 2079 | | | |
| +L6772 | 2167 | | | |
| +L6777 | 2106 | | | |
| +L7173 | 2302 | | | |
| +L7174 | 2298 | | | |
| +L7176 | 2287 | | | |
| +L7177 | 2255 | 2268 | | |
| +L7371 | 2500 | | | |
| +L7372 | 2490 | | | |
| +L7373 | 2484 | | | |
| +L7374 | 2473 | | | |
| +L7376 | 2426 | | | |
| +L7377 | 2425 | | | |
| +L7573 | 863 | | | |
| +L7574 | 861 | | | |
| +L7575 | 860 | 864 | | |
| +L7576 | 821 | | | |
| +L7577 | 819 | | | |

/T-4002 PLOTTING ROUTINES

FIELD 1

TYPEC=JMS I OUTDEV

GS=235

US=37

XJ=3012

YJ=3112

*377

FDIS /PATCH TO FUNCTION TABLE

*401

FJOY /ANOTHER PATCH

*1142

PRINTX, 0 /OVERLAYS OLD FDIS

TYPEC

CIF

JMP I PRINTX

*2172

/PATCH TO 'FNTABL'

Z637

*3216

FDIS, TAD FCHKP /CHEAT LIKE HELL!!

DCA 151 /KLUDGE PRINTC SO WE KNOW WHAT MODE WE ARE ...

INTEGER /CHECK FIRST ARG (FDIS(I, X, Y))

SMA SZA CLA /NEGATIVE ARG MEANS START POINT PLOT

TAD FDSW /ARE WE IN GRAPHICS MODE?

C40, SZA CLA /WE'RE IN GRAPHICS AND I WAS POSITIVE

JMP PLOT /MIGHT BE POINT PLOT (FS=GS-1)!

TAD FLAC+2 /CHECK FOR -1 ARG

SPA CLA /IT IS, CHANGE GS TO FS

CMA /OTHERWISE, START NEW LINE HERE

TAD (GS

TYPEC PLOT, PUSHJ /GET X COORDINATE

EVAL-1 /SKIP OVER COMMA

INTEGER

FCHKP, DCA FCHK /TEMP

PUSHJ /GET Y COORDINATE

EVAL-1

INTEGER

JMS HIGH /AREN'T WE THOUGH!!

0 /LAST HIGH GETS STORED HERE

TAD C40 /ADD APPROPRIATE SIGNAL BITS

TYPEC /PRINT IT

TAD FCHK /SAVED X

JMS HIGH /HIGH ORDER X
0

JXIT, TYPEC
JMP I EFUN3I /AND RETURN

FDSW=
HIGH, 0 /SUB TO CHECK HIGH-ORDER, ONLY PRINT IF NEEDED
DCA FDT2 /SAVE ARG
TAD FDT2 /GET IT BACK
CLL RTR
RTR
RAR
AND (37
TAD C40
DCA JFLOAT
TAD JFLOAT
TAD I HIGH /COMPARE WITH LAST HIGH
SNA CLA
JMP HXIT /OKAY
TAD JFLOAT /NOT SO GOOD, PRINT IT
TYPEC
TAD JFLOAT
CLL CIA
DCA I HIGH /SAVE FOR NEXT TIME

HXIT, ISZ HIGH /SKIP
TAD FDT2
AND (37
TAD C100
JMP I HIGH

FCHK, 0 /PRINTC WAS CALLED, SWITCH TO NORMAL MODE
DCA HIGH /SAVE CHAR IN AC
TAD (2465 /POINTER TO OUT
DCA 151
TAD (US
TYPEC
TAD HIGH /PRINT CHAR
PRINTC /WE RESTORED THE POINTER, REMEMBER?
DCA FDSW /RESET MODE SWITCH
JMP I FCHK

FJOY, INTEGER /CHECK ARG
SNA CLA
TAD C214 /ZERO, TURN ON CURSOR AND WAIT (C214=DC1-ENG)
TAD ENG /NON-ZERO, READ IT NOW
PRINTC
TAD FLAC+2 /STILL HOLDS ARG
SPA SNA CLA /NEGATIVE ARG IS TO READ WITHOUT CURSOR
JMS X133 /READ FIRST CHAR IF NEEDED
DCA FCHK /TEMP
TAD (XJ /X-COORDINATE GOES IN 'XJ'

Moore Business Forms, Inc. f

JMS JLOOK /PUT IT THERE
TAD (YJ
JMS JLOOK /DITTO FOR Y
TAD FCHK /FLOAT FIRST CHAR FOR RETURN
JMS JFLOAT
TAD (US /SWITCH BACK TO NORMAL MODE
JMP JXIT /ALSO ENABLE INTERRUPT

FDTZ=
JLOOK, 0 /CREATES VARIABLE IF NEEDED, AND FILLS IT
DCA ADD /SAVE NAME IN 'ADD'
PUSHJ
GSI /CALL 'GETVAR'
JMS X133 /GET HIGH-ORDER
AND (37 /MASK IT
CLL RTL
RTL
RAL
DCA FLAC+1 /SNEAKY, ISN'T IT?
JMS X133
AND (37
TAD FLAC+1
JMS JFLOAT /FLOAT IT
FENT /AND PUT IT AWAY
FNDR
FPUT I PT1 /SET BY 'GETVAR'
FEXT
JMP I JLOOK

JFLOAT, 0 /FLOATS 12-BIT AC
DCA FLAC+1
ENQ, TAD P13 /PROPER EXPONENT
DCA FLAC
DCA FLAC+2 /CLEAR OTHER WORDS
JMP I JFLOAT

PAGE

STVAR=.

/T-4002 PLOTTING ROUTINES

FIELD 1

TYPEC=JMS I OUTDEV

GS=235

US=37

XJ=3012

YJ=3112

DXL=6052

DYS=6066

*377

FDIS /PATCH TO FUNCTION TABLE

*401

FJOY /ANOTHER PATCH

*1142

PRINTX, 0 /OVERLAYS OLD FDIS

TYPEC

CIF

JMP I PRINTX

*2172

2637 /PATCH TO 'FNABL'

*3216

FDIS, TAD FCHKP /CHEAT LIKE HELL!!

DCA 151 /KLODGE PRINTC SO WE KNOW WHAT MODE WE ARE ...

INTEGER /CHECK FIRST ARG (FDIS(I, X, Y))

SMA SZA CLA /NEGATIVE ARG MEANS START POINT PLOT

TAD FDSW /ARE WE IN GRAPHICS MODE?

C40, SZA CLA /WE'RE IN GRAPHICS AND I WAS POSITIVE

JMP PLOT /MIGHT BE POINT PLOT (FS=GS=1)!

TAD FLAC+2 /CHECK FOR -1 ARG

SPA CLA /IT IS, CHANGE GS TO FS

CMA /OTHERWISE, START NEW LINE HERE

TAD (GS

TYPEC /GET X COORDINATE

PLOT, PUSHJ /SKIP OVER COMMA

EVAL-1 JMS JQWAIT /WAIT FOR TERMINAL

INTEGER

DXL /LOAD X BUFFER

PUSHJ /GET Y COORDINATE

EVAL-1

INTEGER

DYS /LOAD AND SEND Y COORDINATE

CLA CMA /SET TELETYPE FLAG

Moore Business Forms, Inc. 1

DCA TELSW
CLA CMA /AND MODE SWITCH

DCA FDSW
ION

JMP I EFUN3I /AND RETURN

FCHK, 0 /PRINTC WAS CALLED, SWITCH TO NORMAL MODE

DCA FDSW /SAVE CHAR IN AC

TAD (2465 /POINTER TO OUT

DCA 151

TAD (US

TYPEC

TAD FDSW /PRINT CHAR

PRINTC /WE RESTORED THE POINTER, REMEMBER?

DCA FDSW /RESET MODE SWITCH

JMP I FCHK

FJOY, INTEGER /CHECK ARG

SNA CLA

TAD C214 /ZERO, TURN ON CURSOR AND WAIT (C214=DC1-ENQ)

TAD ENQ /NON-ZERO, READ IT NOW

PRINTC

JMS JOWAIT /WAIT FOR TERMINAL TO RECEIVE CHARACTER

TAD FLAC+2 /STILL HOLDS ARG

SPA SNA CLA /NEGATIVE ARG IS TO READ WITHOUT CURSOR

JMS JREAD /READ FIRST CHAR IF NEEDED

FCHKP, DCA FCHK /TEMP

TAD (XJ /X-COORDINATE GOES IN 'XJ'

JMS JLOOK /PUT IT THERE

TAD (YJ

JMS JLOOK /DITTO FOR Y

TAD FCHK /FLOAT FIRST CHAR FOR RETURN

JMS JFLOAT

TAD (US /SWITCH BACK TO NORMAL MODE

TYPEC /ALSO ENABLE INTERRUPT

JMP I EFUN3I /AND RETURN

FDT2=.

JLOOK, 0 /CREATES VARIABLE IF NEEDED, AND FILLS IT

DCA ADD /SAVE NAME IN 'ADD'

PUSHJ

GS1 /CALL 'GETVAR'

JMS JREAD /GET HIGH-ORDER

AND (37 /MASK IT

CLL RTL

RTL

RAL

DCA FLAC+1 /SNEAKY, ISN'T IT?

JMS JREAD

AND (37

TAD FLAC+1

JMS JFLOAT /FLOAT IT
FENT /AND PUT IT AWAY
FNOR
FPUT I PT1 /SET BY 'GETVAR'
FEXT
JMP I JLOOK

JFLOAT, 0 /FLOATS 12-BIT AC
DCA FLAC+1
ENQ, TAD P13 /PROPER EXPONENT
DCA FLAC
DCA FLAC+2 /CLEAR OTHER WORDS
JMP I JFLOAT

JREAD, 0 /READ A CHARACTER (INTERRUPT OFF)
KSF /WAIT FOR FLAG
JMP .-1
KRB
TAD (-220 /^P?
SNA
JMP RECOVR /YES, INTERRUPT PROGRAM
TAD (220 /RESTORE CHARACTER
JMP I JREAD

JOWAIT, 0 /WAIT FOR TERMINAL I/O TO FINISH
TAD TELSW /TERMINAL BUSY FLAG
SZA CLA /ZERO WHEN DONE
JMP .-2
IOF
JMP I JOWAIT

FDSW, 0 /MODE SWITCH

PAGE

STVAR=.

Moore Business Forms, Inc. 1