


```

SSSSSSSS UU    UU MM    MM MM    MM    AAAAAA IIIIII NN    NN
SSSSSSSS UU    UU MM    MM MM    MM    AAAAAA IIIIII NN    NN
SS        UU    UU MMMM MMMM MMMM MMMM AA    AA    II    NN    NN
SS        UU    UU MMMM MMMM MMMM MMMM AA    AA    II    NN    NN
SS        UU    UU MM MM MM MM MM MM AA    AA    II    NNNN NN    NN
SS        UU    UU MM MM MM MM MM MM AA    AA    II    NNNN NN    NN
SSSSSS    UU    UU MM    MM MM    MM MM    MM AA    AA    II    NN NN NN
SSSSSS    UU    UU MM    MM MM    MM MM    MM AA    AA    II    NN NN NN
SS        UU    UU MM    MM MM    MM MM    MM AAAAAAAAAA II    NN NNNN
SS        UU    UU MM    MM MM    MM MM    MM AAAAAAAAAA II    NN NNNN
SS        UU    UU MM    MM MM    MM MM    MM AA    AA    II    NN NN
SS        UU    UU MM    MM MM    MM MM    MM AA    AA    II    NN NN
SSSSSSSS UUUUUUUUUU MM    MM MM    MM    MM AA    AA    IIIIII NN    NN
SSSSSSSS UUUUUUUUUU MM    MM MM    MM    MM AA    AA    IIIIII NN    NN

```

```

LL        IIIIII SSSSSSSS
LL        IIIIII SSSSSSSS
LL        II
LL        II SS
LL        II SS
LL        II SS
LL        II SSSSSS
LL        II SSSSSS
LL        II SS
LL        II SS
LL        II SS
LL        II SS
LLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLL IIIIII SSSSSSSS

```

SUM
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RETURN_NODES

-- SOURCE UPDATE MERGE

C 8

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SUM
V04


```

0000 1 .TITLE SUM -- SOURCE UPDATE MERGE
0000 2 .IDENT /V04-000/
0000 3
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0000 23 :*
0000 24 :*
0000 25 :*****
0000 26
0000 27
0000 28
0000 29 : System equated symbols
0000 30
0000 31 : SCHFDEF ; Condition handling defintions
0000 32 : $STSDEF ; Condition handling fields
0000 33 : $CLIVERBDEF ; Generic verb types
0000 34
0000 35 : .PSECT $DATA,NOEXE,WRT
0000 36
0000 37 : Command input
0000 38
0000 39 CMD_INPUT FAB:
0000 40 $FAB FNM = <SYSS$INPUT> - ; File name
0000 41 FOP = INP - ; Process permanent file
0000 42 FAC = GET ; Allow GET$ operations
0000 43
0000 44 CMD_INPUT RAB::
0000 45 $RAB FAB = CMD_INPUT_FAB - ; File access block address
0000 46 UBF = CMD_INPUT_BUF - ; Command input buffer
0000 47 USZ = CMD_SIZE = ; Command input buffer size
0000 48 ROP = <PMT,CVT>
0000 49 ; Convert lower case to upper case
0000 50 ; Read with prompt
0000 51
0000 52
0000 53 : Command output
0000 54
0000 55 CMD_OUTPUT FAB:
0000 56 $FAB FNM = <SYSS$OUTPUT> - ; File name
0000 57 FAC = PUT - ; Allow PUT$ operations

```

PSE

\$AB
\$DA
\$RM
\$CO
\$ERR

Pha

Ini
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Sym
Pas
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Pse
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The
643
The
541
40

Mac

\$2
-\$2
TOT

112

The

MAC

```

0094 58 RAT = CR ; Lines require CR/LF
00E4 59 :
00E4 60 CMD_OUTPUT_RAB:
00E4 61 $RAB FAB = CMD_OUTPUT_FAB, - ; File access block address
00E4 62 RBF = CMD_OUTPUT_BUF ; Record address
0128 63 :
0128 64 :
0128 65 : Prompt strings
0128 66 :
65 6C 69 66 20 74 75 70 6E 49 5F 00' 0128 67 PROMPT_INPUT::
20 20 3A 73 0128 68 .ASCIC "_Input files: "
OF 0128
0138 69 :
0138 70 PROMPT_OUTPUT::
6C 69 66 20 74 75 70 74 75 4F 5F 00' 0138 71 .ASCIC "_Output file: "
20 20 3A 65 0144
OF 0138
0148 72 :
20 5F 00' 0148 73 PROMPT_CONT::
02 0148 74 .ASCIC "_ "
014B 75 :
014B 76 :
014B 77 : Command input buffer
014B 78 :
000001CF 014B 79 CMD_INPUT_BUF:
01CF 80 .BLKB CMD_SIZE
00000000 01CF 81 :
00000000 01CF 82 CMD_INPUT_SIZE:: .LONG 0 ; Current string size
00000000 01D3 83 CMD_INPUT_POS:: .LONG 0 ; Current scan position
01D7 84 :
01D7 85 REQ_COMMAND::
01D7 86 $CLIREQDESC RQTYPE = CLISK_GETCMD
01F3 87 :
01F3 88 :
00000084 01F3 89 CMD_OUTPUT_DESC: .LONG CMD_SIZE
000001FB' 01F7 90 .LONG CMD_OUTPUT_BUF
0000027F 01FB 91 CMD_OUTPUT_BUF: .BLKB CMD_SIZE
027F 92 :
027F 93 :
00000281 027F 94 SLP_FLAGS:: .BLKW 1
0281 95 :
00000289'00000010 0281 96 SLP_AUDDS:: .LONG 16,SLP_AUDST
0289 97 :
00000299 0289 98 SLP_AUDST:: .BLKB 16
0299 99 :
0000 0299 100 :
0298 101 MERGE_FLAGS:: .WORD 0
0298 102 :
0298 103 : Flag bits
0298 104 :
00000001 0298 105 MERM_OUTPUT == 1 ; Output file specified
0298 106 ; 0 = No 1 = Yes
0298 107 :
0298 108 :
0298 109 : List heads

```

```

0000029B'0000029B' 029B 110 ;
029B 111 EDIT_NODES::
029B 112 .LONG EDIT_NODES,EDIT_NODES
02A3 113 ;
000002A3'000002A3' 02A3 114 FILE_NODES::
02A3 115 .LONG FILE_NODES,FILE_NODES
02AB 116 ;
00000000 02AB 117 VIRT_ADDR::
02AB 118 .LONG 0
02AF 119 ;
000000A8 02AF 120 SLP_SIZE::
02AF 121 .LONG SLP$K_BLN
02B3 122 ;
0000001A 02B3 123 ED_SIZE::
02B3 124 .LONG ED$K_BLN
02B7 125 ;
00000000 02B7 126 FILE_SIZE::
02B7 127 .LONG 0
02BB 128 ;
02BB 129 ; Strings used to generate edit commands
02BB 130 ;
25 02BB 131 AUDIT_ON:: .ASCII 'X'
5C 02BC 132 AUDIT_OFF:: .ASCII '\
2F 02BD 133 END_EDIT:: .ASCII '/'
57 55 21 2D 000002C6'010E0000' 02BE 134 LOC_ONE:: .ASCID '-!UW'
57 55 21 2C 000002D2'010E0000' 02CA 135 LOC_TWO:: .ASCID '.,!UW'
2C 000002DE'010E0000' 02D6 136 COMMAS:: .ASCID '.,'
2F 53 41 21 2F 2C 000002E7'010E0000' 02DF 137 AUDIT_TRAIL:: .ASCID ';/!AS/'
53 41 21 3B 000002F5'010E0000' 02ED 138 COMMENTS:: .ASCID ';;!AS'
02F9 139 ;
00000301 02F9 140 OUTDES:: .BLKL 2
00000305 0301 141 OUTLEN:: .BLKL 1
0305 142 ;
0305 143 ;
44 50 55 2E 0000030D'010E0000' 0305 144 DEF_NAME:: .ASCID '/.UPD/'
0311 145 ;
57 45 4E 2A 2A 3B 00000319'010E0000' 0311 146 DEF_AUDIT:: .ASCID '/:**NEW**/'
2A 2A 031F

```



```

0321 148 :
0321 149 : RMS blocks
0321 150 :
0321 151 : Flag bits
0321 152 :
00000001 0321 153 SLPM_OPEN == 1 : File open flag
00000002 0321 154 SLPM_AUDIT == 2 : Audit trail on/off
00000004 0321 155 SLPM_SUPPRESS == 4 : Suppress clash report
00000002 0321 156 SLPV_SUPPRESS == 2 : ...
0321 157 :
0321 158 :
0321 159 : Input and Output file blocks
0321 160 :
0321 161 :
00000000 0321 162 .SAVE
00000000 0321 163 .PSECT RMS
00000000 0321 163 OUTPUT_FAB::
00000000 0321 164 $FAB FAC = PUT -
00000000 0321 165 RAT = CR -
00000000 0321 166 NAM = OUTPUT_NAM -
00000000 0321 167 DNM = <.UPD>
0050 0321 168 :
0050 0321 169 OUTPUT_RAB::
0050 0321 170 $RAB FAB = OUTPUT_FAB -
0050 0321 171 RAC = SEQ -
0050 0321 172 UBF = OUTPUT_BUF -
0050 0321 173 USZ = BUF_SIZE
0094 0321 174 :
00000294 0094 0321 175 OUTPUT_BUF::
00000294 0094 0321 176 .BLKB BUF_SIZE
0294 0321 177 :
0294 0321 178 OUTPUT_NAM::
0294 0321 179 $NAM ESA = OUTPUT_BUF -
0294 0321 180 ESS = 255
02F4 0321 181 :
02F4 0321 182 :
02F4 0321 183 INPUT_FAB::
02F4 0321 184 $FAB FAC = GET
0344 0321 185 :
0344 0321 186 INPUT_RAB::
0344 0321 187 $RAB FAB = INPUT_FAB -
0344 0321 188 RAC = SEQ -
0344 0321 189 UBF = INPUT_BUF -
0344 0321 190 USZ = BUF_SIZE
0388 0321 191 :
00000588 0388 0321 192 INPUT_BUF::
00000588 0388 0321 193 .BLKB BUF_SIZE
0588 0321 194 :
0588 0321 195 :
0588 0321 196 RANDOM_FAB::
0588 0321 197 $FAB FAC = GET -
0588 0321 198 FOP = NAM
05D8 0321 199 :
05D8 0321 200 RANDOM_RAB::
05D8 0321 201 $RAB FAB = RANDOM_FAB -
05D8 0321 202 RAC = RFA -
05D8 0321 203 UBF = RANDOM_BUF -
05D8 0321 204 USZ = BUF_SIZE

```

SUM
V04-000

-- SOURCE UPDATE MERGE

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**F

```
061C 205 :  
061C 206 RANDOM_BUF::  
0000081C 061C 207 .BLKB BUF_SIZE  
081C 208 :  
081C 209 RANDOM_FILE::  
0000081C 081C 210 .BLKL 0  
081C 211 :  
081C 212 :  
00000321 213 .RESTORE
```

```

0321 215 ;
00000000 216 ; .PSECT $CODE,NOWRT,EXE
0000 217
0000 218 START::
0000 219 .WORD 0
6D 017D'CF 0000 DE 0002 220 MOVAL W^HANDLER,(FP) ; Set handler address
00000085'EF 00 FB 0007 221 ;
70 50 E9 000E 222 CALLS #0,INITIALISE ; Perform initialisation
0000 223 BLBC RO,100$ ; Error if LBC
0000 224 10$:
7E 7C 0011 225 CLRQ -(SP) ; Get any command line from DCL
01D7'CF 0F 0013 226 PUSHAL W^REQ_COMMAND
FF 8F 000001DA'EF 91 0017 227 CALLS #3,@CLISA_UTILSERV(AP)
000001DA'EF 91 001B 228 CMPB REQ_COMMAND+CLISB_RQSTAT, - ; Was program invoked as a foreign
0000 229 #CLISK_VERB_FORE ; command?
01CF'CF 000001DF'EF 14 12 0023 230 BNEQ 20$ ; No if NEQ
000001DF'EF 3C 0025 231 MOVZWL REQ_COMMAND+CLISW_RQSIZE, -
01D3'CF 000001E3'EF D0 002E 232 W^CMD_INPUT_SIZE
0000 233 MOVL REQ_COMMAND+CLISA_RQADDR, -
04 11 0037 234 W^CMD_INPUT_POS
0000 235 BRB 30$
01CF'CF D4 0039 236 20$:
0000 237 CLRL W^CMD_INPUT_SIZE ; Initialise input buffer
0000 238 30$:
00000000'EF 50 01 D0 003D 239 MOVL #1,R0
00000000'EF 0B 50 E8 0047 240 CALLS #0,GET_FILES ; Get input and output files
00000000'8F 50 D1 004A 241 BLBS RO,40$ ; OK if LBS
0000 242 Cmpl RO,#RMS$ EOF ; Was error EOF?
0000 243 BNEQ 60$ ; No if NEQ
0000 244 BRB 100$
00000000'EF 00 FB 0055 245 40$:
0000 246 CALLS #0,OPEN_FILES ; Open files
0000 247 BLBC RO,50$ ; Error if LBC
00000000'EF 00 FB 005F 248 ;
0000 249 CALLS #0,MERGE_FILES ; Merge files
00000000'EF 00 FB 0066 250 50$:
0000 251 CALLS #0,CLOSE_FILES ; Close files
FF 8F 000001DA'EF 91 006D 252 60$:
0000 253 CMPB REQ_COMMAND+CLISB_RQSTAT, - ; Was program invoked as a foreign
0000 254 #CLISK_VERB_FORE ; command?
000000DF'EF 0A 13 0075 255 BEQL 100$ ; Yes if EQL
000000DF'EF B8 50 E8 007E 256 CALLS #0,RETURN_NODES
0000 257 BLBS RO,20$ ; OK if LBS
50 01 D0 0081 258 100$:
0000 259 MOVL #1,R0
0000 260 RET
0085 261

```

```

0085 263 :
0085 264 : Procedure to perform initialisation
0085 265 :
0085 266 :
0085 267 INITIALISE::
0000 0085 268 .WORD 0
10 50 E9 0087 269 $OPEN FAB = CMD_INPUT_FAB ; Open command input
0094 270 BLBC R0,10$ ; Error if LBC
0097 271 $CONNECT RAB= CMD_INPUT_RAB ; Connect to RAB
08 50 E8 00A4 272 BLBS R0,20$ ; OK if LBS
00A7 273 10$:
0000000C'EF DD 00A7 274 PUSHL CMD_INPUT_FAB+FAB$L_STV ; Push error status
26 11 00AD 275 BRB 40$
00AF 276 20$:
00AF 277 $OPEN FAB = CMD_OUTPUT_FAB ; Open command output
10 50 E9 00BC 278 BLBC R0,30$ ; Error if LBC
00BF 279 $CONNECT RAB= CMD_OUTPUT_RAB ; Connect to RAB
0F 50 E8 00CC 280 BLBS R0,50$ ; OK if LBS
00CF 281 30$:
000000A0'EF DD 00CF 282 PUSHL CMD_OUTPUT_FAB+FAB$L_STV; Push error status
00D5 283 40$:
00000000'GF 50 DD 00D5 284 PUSHL R0
02 FB 00D7 285 CALLS #2,G^LIB$SIGNAL ; Signal error
00DE 286 50$:
04 00DE 287 RET

```

```

00DF 289      .SBTTL RETURN_NODES
00DF 290      :
00DF 291      : Procedure to return all nodes to virtual memory
00DF 292      :
00DF 293      : Inputs:
00DF 294      :     None
00DF 295      :
00DF 296      : Outputs:
00DF 297      :     R0 = Success/error status
00DF 298      :
00DF 299      :
00DF 300      RETURN_NODES:
0000 00DF 301      .WORD 0
00E1 302      10$:
55   029B'DF 0F 00E1 303      REMQUE @W^EDIT_NODES,R5      ; Get edit node
      19 1D 00E6 304      BVS 20$      ; Queue now empty if VS
02AB'CF 55 D0 00E8 305      MOVL R5,W^VIRT_ADDR      ; Store size
      02AB'CF DF 00ED 306      PUSHAL W^VIRT_ADDR      ; Push parameters
      02B3'CF DF 00F1 307      PUSHAL W^ED_SIZE
00000000'GF 02 FB 00F5 308      CALLS #2,G^LIB$FREE_VM
      61 50 E9 00FC 309      BLBC R0,50$
      E0 11 00FF 310      BRB 10$
55   02A3'CF DE 0101 311      20$:
      0106 312      MOVAL W^FILE_NODES,R5      ; Get file nodes list head
000002A3'8F 55 65 D0 0106 313      30$:
      55 55 D1 0109 314      MOVL (R5),R5      ; Get next NODE
      2E 13 0110 315      CMPL R5,#FILE_NODES      ; At end of list?
54   00000048 8F C0 0112 316      BEQL 40$      ; Yes if EQL
      02AB'CF 04 A4 D0 0115 317      MOVL R5,R4      ; Set NAM pointer
      02B7'CF 03 A4 9A 0115 318      ADDL2 #SLP$T_NAM,R4
      E2 13 0122 319      MOVL NAM$SL_RSA(R4),W^VIRT_ADDR ; Get file name node address
      02AB'CF 03 A4 9A 0122 320      BEQL 30$
      DA 13 012A 321      MOVZBL NAM$B_RSL(R4),W^FILE_SIZE ; and size
      02AB'CF DF 012C 322      BEQL 30$
      02B7'CF DF 0130 323      PUSHAL W^VIRT_ADDR      ; Push parameters
00000000'GF 02 FB 0134 324      PUSHAL W^FILE_SIZE
      22 50 E9 0138 325      CALLS #2,G^LIB$FREE_VM
      C6 11 013E 326      BLBC R0,50$
      0140 327      BRB 30$
55   02A3'DF 0F 0140 328      40$:
      19 1D 0145 329      REMQUE @W^FILE_NODES,R5      ; Get file node
02AB'CF 55 D0 0147 330      BVS 50$      ; Queue now empty if VS
      02AB'CF DF 014C 331      MOVL R5,W^VIRT_ADDR      ; Store size
      02AF'CF DF 0150 332      PUSHAL W^VIRT_ADDR      ; Push parameters
00000000'GF 02 FB 0154 333      PUSHAL W^SLP_SIZE
      02 50 E9 0158 334      CALLS #2 G^LIB$FREE_VM
      E0 11 015E 335      BLBC R0,50$
      0160 336      BRB 40$
04   0160 337      50$:
      0160 338      RET

```

```

0161 340 :
0161 341 : Condition handlers
0161 342 :
0161 343 : .ENABL LSB
0161 344 :
0161 345 GET_HANDLER::
003C 0161 346 .WORD ^M<R2,R3,R4,R5>
0161 347 MOVL CHF$SIGARGLST(AP),R2 ; Get address of signal array
00000000'8F 04 AC D0 0163 348 MOVL CHF$SIG_NAME(R2),#RMS$_EOF
04 A2 D1 0167 349 BNEQ 10$
0E OE 12 016F 349 BNEQ 10$
04 017i 350 $UNWIND_S
017C 351 RET
017D 352 :
017D 353 :
017D 354 HANDLER::
003C 017D 355 .WORD ^M<R2,R3,R4,R5>
017F 356 10$:
52 04 AC D0 017F 357 MOVL CHF$SIGARGLST(AP),R2 ; Get address of signal array
50 04 A2 D0 0183 358 MOVL CHF$SIG_NAME(R2),R0 ; Get message name
50 OFFF0000 8F D3 0187 359 BITL #STSSM_FAC_NO,R0 ; Is facility number empty?
52 12 018E 360 BNEQ 99$ ; No if NEQ
4E 50 OF E1 0190 361 BBC #STSSV_FAC_SP,R0,99$ ; Facility specific bit must be set
51 01EA'CF DE 0194 362 MOVAL W^MERGE_MSGS,R1 ; Get address of Merge messages
54 81 7D 0199 363 20$:
07 13 019C 364 MOVQ (R1)+,R4 ; Get next entry
54 50 D1 019E 365 BEQL 30$ ; End of table if EQL
F6 12 01A1 366 CMPL R0,R4 ; This message?
05 11 01A3 367 BNEQ 20$ ; No if NEQ
01A5 368 BRB 40$
55 0282'CF DE 01A5 369 30$:
01AA 370 MOVAL W^CATCH_MSG,R5 ; Use catch message
01AA 371 40$:
01AA 372 $FAOL_S CTRSTR = (R5), - ; Control string
01AA 373 OUTLEN = CMD_OUTPUT_RAB+RAB$W_RSZ, -
01AA 374 OUTBUF = CMD_OUTPUT_DESC, -
01AA 375 PRMLST = 12(R2)
50 04 A2 03 00 EF 01C2 376 $PUT RAB = CMD_OUTPUT_RAB
01CF 377 EXTZV #STSSV_SEVERITY,#STSSS_SEVERITY, -
01D5 378 MOVL CHF$SIG_NAME(R2),R0 ; Extract severity code
00 50 D1 01D5 379 CMPL R0,#STSSK_WARNING ; Is it a warning?
08 12 01D8 380 BNEQ 99$ ; No if NEQ
50 00000000'8F D0 01DA 381 MOVL #SS$_CONTINUE,R0
04 01E1 382 RET
50 00000000'8F D0 01E2 383 99$:
01E2 384 MOVL #SS$_RESIGNAL,R0
04 01E9 385 RET
01EA 386 :
01EA 387 .DSABL LSB

```

```

01EA 389 : Macro to define error messages
01EA 390 :
01EA 391 :
01EA 392 :
01EA 393 : .MACRO MSG NAME,FAOCNT,TEXT,?L1
01EA 394 : .SAVE
01EA 395 : .PSECT ERRORS
01EA 396 L1: .ASCID "TEXT"
01EA 397 : .RESTORE
01EA 398 : .LONG MERS_'NAME
01EA 399 : .LONG L1
01EA 400 : .ENDM MSG
01EA 401 :
01EA 402 MERGE_MSGS:
01EA 403 MSG PRSERR,2,<Error parsing file specification !AD>
01F2 404 MSG NULLFS,0,<Null file specification>
01FA 405 MSG ONEOUT,0,<Only one output file allowed>
0202 406 MSG OPENER,2,<Error opening !AD for input>
020A 407 MSG CREATE,2,<Error creating !AD for output>
0212 408 MSG OUTERR,0,<Error writing to output file>
021A 409 MSG INPEOF,1,<Unexpected EOF on input file !AD>
0222 410 MSG CLASH,0,<Edit clashes....>
022A 411 MSG CLSHLN,4,< File !AD!// !AD>
0232 412 MSG NONODE,0,<Can't expand program>
023A 413 MSG ATSIGN,2,<@ command illegal!//!AD>
0242 414 MSG REOPEN,2,<Error re-opening !AD for input>
024A 415 MSG CONNEX,2,<Error connecting !AD to RAB>
0252 416 MSG DISCON,2,<Error disconnecting !AD from RAB>
025A 417 MSG CLOSER,2,<Error closing !AD>
0262 418 MSG READER,2,<Error reading file !AD>
026A 419 MSG INVPMO,0,<Invalid parameter delimiter>
0272 420 MSG SYNTAX,2,<SLP command syntax error!// !AD>
00000000 00000000 027A 421 : .QUAD 0
0282 422 :
0282 423 CATCH_MSG:
0282 424 MSG CTCHER,0,<Merge condition handler error>
028A 425 :
028A 426 :
028A 427 : Define message name symbols
028A 428 :
028A 429 $EQLST MERS_,GLOBAL,32778,8,< -
028A 430 <CTCHER> -
028A 431 <NONODE> -
028A 432 >
028A 433 :
028A 434 :
028A 435 $EQLST MERS_,GLOBAL,34824,8,< -
028A 436 <NULLFS> -
028A 437 <ONEOUT> -
028A 438 <PRSERR> -
028A 439 <OPENER> -
028A 440 <CREATE> -
028A 441 <OUTERR> -
028A 442 <INPEOF> -
028A 443 <CLASH> -
028A 444 <CLSHLN> -
028A 445 <ATSIGN> -

```

028A	446	<REOPEN>	-
028A	447	<CONNEC>	-
028A	448	<DISCON>	-
028A	449	<CLOSER>	-
028A	450	<READER>	-
028A	451	<INVPMD>	-
028A	452	<SYNTAX>	-
028A	453	>	
028A	454	:	
028A	455	:	
028A	456	:	

.END START

SUM
Symbol table

-- SOURCE UPDATE MERGE

E 9

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5-SEP-1984 16:56:59 [SUM.SRC]SUMMAIN.MAR;1

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Pse

```

NAMSC_BLN      = 00000060
NAMSK_BLN      = 00000060
NAMSL_ESA      = 0000000C
NAMSL_RSA      = 00000004
OPEN_FILES     ***** X 05
OUTDES         000002F9 RG 02
OUTLEN         00000301 RG 02
OUTPUT_BUF     00000094 RG 04
OUTPUT_FAB     00000000 RG 04
OUTPUT_NAM     00000294 RG 04
OUTPUT_RAB     00000050 RG 04
PROMPT_CONT    00000148 RG 02
PROMPT_INPUT   00000128 RG 02
PROMPT_OUTPUT  00000138 RG 02
RABSB_RAC      = 0000001E
RABSC_BID      = 00000001
RABSC_BLN      = 00000044
RABSC_RFA      = 00000002
RABSC_SEQ      = 00000000
RABSL_CTX      = 00000018
RABSL_ROP      = 00000004
RABSV_CVT      = 0000001A
RABSV_PMT      = 0000001E
RABSW_RSZ      = 00000022
RANDOM_BUF     0000061C RG 04
RANDOM_FAB     00000588 RG 04
RANDOM_FILE     0000081C RG 04
RANDOM_RAB     000005D8 RG 04
REQ_COMMAND    000001D7 RG 02
RETURN_NODES   000000DF R 05
RMSS_EOF       ***** X 05
SLPSB_FILENO   = 0000000D
SLPSB_FLAGS    = 0000000C
SLPSK_BLN      = 000000A8
SLPSL_BWD      = 00000004
SLPSL_FWD      = 00000000
SLPSQ_AUCDS    = 00000028
SLPSQ_AUDDS    = 00000010
SLPSQ_CMNT     = 00000040
SLPST_AUCST    = 00000030
SLPST_AUDST    = 00000018
SLPST_NAM      = 00000048
SLPSW_DOT      = 0000000E
SLPSW_LOC1     = 00000008
SLPSW_LOC2     = 0000000A
SLPM_AUDIT     = 00000002 G
SLPM_OPEN      = 00000001 G
SLPM_SUPPRESS  = 00000004 G
SLPV_SUPPRESS  = 00000002 G
SLP_AUDDS     00000281 RG 02
SLP_AUDST     00000289 RG 02
SLP_FLAGS     0000027F RG 02
SLP_SIZE       000002AF RG 02
SS$_CONTINUE   ***** X 05
SS$RESIGNAL    ***** X 05
START          00000000 RG 05
STSSK_WARNING  = 00000000
    
```

```

STSSM_FAC NO   = 0FFF0000
STSS$SEVERITY = 00000003
STSSV_FAC SP   = 0000000F
STSSV_SEVERITY = 00000000
SYSSCONNECT    ***** GX 05
SYSSFAOL       ***** GX 05
SYSSOPEN       ***** GX 05
SYSSPUT        ***** GX 05
SYSSUNWIND     ***** GX 05
VIRT_ADDR      000002AB RG 02
    
```

PSE

\$AB

SUM

SUM

SUM

Pha

Ini

Com

Pas

Sym

Pas

Sym

Pse

Cro

Ass

The

210

The

211

17

Mac

\$2

\$2

TOT

492

The

MAC

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$AB\$\$	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
\$DATA	00000321 (801.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC BYTE
\$RMSNAM	00000017 (23.)	03 (3.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
RMS	0000081C (2076.)	04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
\$CODE	0000028A (650.)	05 (5.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE
ERRORS	00000289 (649.)	06 (6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.06	00:00:00.51
Command processing	105	00:00:00.72	00:00:02.35
Pass 1	327	00:00:12.07	00:00:28.94
Symbol table sort	0	00:00:01.32	00:00:03.18
Pass 2	109	00:00:02.60	00:00:06.00
Symbol table output	23	00:00:00.18	00:00:00.51
Psect synopsis output	3	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	598	00:00:16.98	00:00:41.53

The working set limit was 1200 pages.
64317 bytes (126 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 877 non-local and 41 local symbols.
541 source lines were read in Pass 1, producing 30 object records in Pass 2.
40 pages of virtual memory were used to define 33 macros.

! Macro library statistics !

Macro library name	Macros defined
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	27
TOTALS (all libraries)	27

1128 GETS were required to define 27 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SUMMAIN/OBJ=OBJ\$:SUMMAIN MSRC\$:SUMCOM/UPDATE=(ENH\$:SUMCOM)+MSRC\$:SUMMAIN/UPDATE=(ENH\$:SUMMAIN)+EXECML\$/LIB

