



```

DDDDDDDD      AAAAAA      TTTTTTTTTT      AAAAAA
DDDDDDDD      AAAAAA      TTTTTTTTTT      AAAAAA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AAAAAAAAAA      TT      AAAAAAAAAA
DD      DD      AAAAAAAAAA      TT      AAAAAAAAAA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AA      AA      TT      AA      AA
DDDDDDDD      AA      AA      TT      AA      AA
DDDDDDDD      AA      AA      TT      AA      AA
      .....
      .....
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LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
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
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LL:LLLLLLLL      IIIIII      SSSSSSSS

```

(2)	97
(3)	126
(4)	260
(5)	294
(6)	340

DECLARATIONS
CHARACTER TOKEN TABLE
"XUPARROW" AND "XSYMBOL" CHARACTERS
INITIALIZED DATA STORAGE DEFINITIONS
UNINITIALIZED DATA STORAGE DEFINITIONS

```
0000 1 .TITLE MAC$DATA STORAGE ALLOCATION FOR VAX NATIVE ASSEMBLER
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 :*****
0000 6 :*
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0000 23 :* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
0000 28
0000 29 :++
0000 30 : FACILITY: VAX MACRO ASSEMBLER OBJECT LIBRARY
0000 31
0000 32 : ABSTRACT:
0000 33
0000 34 : The VAX-11 MACRO assembler translates MACRO-32 source code into object
0000 35 : modules for input to the VAX-11 LINKER.
0000 36
0000 37 : ENVIRONMENT: USER MODE
0000 38
0000 39 : AUTHOR: Benn Schreiber, CREATION DATE: 30-AUG-78
0000 40
0000 41 : MODIFIED BY:
0000 42
0000 43 : V03-03 MTR0020 Mike Rhodes 07-Jul-1982
0000 44 : Add MAC$GL_DSLISF disabled option flag cell to
0000 45 : allow for controlled overriding of macro directives
0000 46 : from the command level.
0000 47
0000 48 : V03-02 MTR0018 Mike Rhodes 07-Jun-1982
0000 49 : Add MAC$GL_FNLSTS final status data cell which
0000 50 : contains the final exit status for MACRO, when
0000 51 : multiple assemblies are to be done. This cell
0000 52 : holds the most severe status of all assemblies.
0000 53
0000 54 : V03-01 MTR0014 Mike Rhodes 16-Apr-1982
0000 55 : Fix data declaration for MAC$GL_CVTADDR, which
0000 56 : caused occassional access violations.
0000 57 :
```

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0000	58	:	V02.23	PCG0008	Peter George	26-Aug-1981
0000	59	:			Fix the data allocation for MAC\$GO_VALUED.	
0000	60	:			Add MAC\$GL_CVTADDR.	
0000	61	:				
0000	62	:	V02.22	CNH0045	Chris Hume	1-Dec-1980
0000	63	:			Increased size of parser value stack. Stack overflow remains	
0000	64	:			undetected. Also advanced displayed IDENT to 2.46.	
0000	65	:			(DATA1.MAR 02.26, MAIN.MAR 02.46)	
0000	66	:				
0000	67	:	V02.21	HJ0002	Herb Jacobs	18-Aug-1980
0000	68	:			Make \$DEF's global using standard \$GBLINI macro.	
0000	69	:				
0000	70	:	V01.20	RN0023	R. Newland	3-Nov-1979
0000	71	:			New message codes to get error messages from system	
0000	72	:			message file.	
0000	73	:				
0000	74	:	V01.19	RN0022	R. Newland	31-Oct-1979
0000	75	:			Translate SYS\$LP_LINES to set lines/page	
0000	76	:				
0000	77	:	V01.19	RN0014	R. Newland	12-Oct-1979
0000	78	:			Support for G_floating, H_floating and Octaword data types	
0000	79	:				
0000	80	:	V01.18	RN0011	R. Newland	11-Sep-1979
0000	81	:			New Librarian support	
0000	82	:				
0000	83	:	V01.17	RN0008	R. Newland	29-Aug-1979
0000	84	:			31 character symbols	
0000	85	:				
0000	86	:	V01.16	RN0005	R. Newland	10-Aug-1979
0000	87	:			Symbolically defined maximum argument size	
0000	88	:	V01.15	RN0002	R. Newland	01-Feb-1979
0000	89	:			Changes for Source Update Merge	
0000	90	:	V01.17	RN0007	R. Newland	22-Aug-1979
0000	91	:			Fix character table error for ( \ ) ~ and DEL.	
0000	92	:				
0000	93	:	V01.14	008	B. Schreiber	22-JAN-1979
0000	94	:			Better bookkeeping of allocated pages.	
0000	95	:--				

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0000 126      .SBTTL CHARACTER TOKEN TABLE
0000 127
0000 128 :++
0000 129 : FUNCTIONAL DESCRIPTION:
0000 130 :
0000 131 : THE CHARACTER TABLE ('MAC$AL_CHRTAB') IS USED TO DETERMINE WHICH
0000 132 : TOKENS CAN POSSIBLY BE STARTED WITH A GIVEN CHARACTER. THE
0000 133 : PROCEDURE IS TO OBTAIN THE FIRST CHARACTER OF THE TOKEN AND
0000 134 : GET THE TABLE ENTRY CORRESPONDING TO THE ASCII VALUE OF THE
0000 135 : CHARACTER. IF THE CHARACTER ITSELF IS A TOKEN (LIKE DDPLUS)
0000 136 : THEN THE HIGH ORDER BIT WILL BE SET IN THE TABLE ENTRY. IF
0000 137 : THE HIGH ORDER BIT IS NOT SET IT IS THE NAME OF A ROUTINE TO
0000 138 : CALL TO DECIDE THE TOKEN TYPE. THIS ROUTINE MAY SCAN FURTHER
0000 139 : AS IN THE CASE OF A SYMBOL, OR IT MAY SIMPLY LOOK AHEAD TO
0000 140 : RESOLVE AN AMBIGUITY. IN ANY CASE, THE ROUTINE INVOLVED WILL
0000 141 : RETURN THE TOKEN CLASS IN R8, THE ASSOCIATED VALUE (IF ANY)
0000 142 : IN MAC$VALUE, AND THE CHARACTER POINTER WILL BE UPDATED PAST
0000 143 : THE TOKEN SCANNED.
0000 144 :
0000 145 : AN ADDITIONAL TABLE, MAC$AB_CMSK_TAB IS ALSO GENERATED. THIS
0000 146 : IS A BYTE-ORIENTED TABLE, CONTAINING ONE BYTE FOR EACH CHARACTER.
0000 147 : THE VALUES ARE SET FROM THE FLAGS ARGUMENT AND ARE USED IN
0000 148 : SCANC/SPANC INSTRUCTIONS TO LOOK FOR A PARTICULAR TYPE OF CHARACTER
0000 149 :
0000 150 :
0000 151 :
0000 152 :
0000 153 :--
0000 154
80000000 0000 155 SPECIAL = ^X80000000 ;FLAG THAT CHAR IS SPECIAL
0000 156
0000 157 .MACRO $CHR_TABENTRY VAL=0, SPF=0, FLAGS=0
0000 158 .LONG SPF+VAL
0000 159 .PSECT MAC$CHR_FLG_TAB,NOWRT,NOEXE,GBL,LONG
0000 160 .BYTE FLAGS
0000 161 .PSECT MAC$CHRTAB,NOWRT,NOEXE,GBL,LONG
0000 162 .ENDM $CHR_TABENTRY
0000 163
00000000 0000 164 .PSECT MAC$CHR_FLG_TAB,NOWRT,NOEXE,GBL,LONG
0000 165
0000 166 MAC$AB_CMSK_TAB:: ;FLAG BITS FOR CHARACTERS
0000 167
00000000 0000 168 .PSECT MAC$CHRTAB,NOWRT,NOEXE,GBL,LONG
0000 169
0000 170 MAC$AL_CHRTAB:: ;CHARACTER TOKENS
0000 171
0000 172 $CHR_TABENTRY 0,,CHRSM_SPA_MSK!CHRSM_SYM_DLM ;IGNORE NULLS
0004 173 .REPT 8
0004 174 $CHR_TABENTRY MAC$CHRERR,,CHRSM_SYM_DLM ;0-8 ARE ILLEGAL CHARACTERS
0004 175 .ENDR
0024 176 $CHR_TABENTRY 0,,CHRSM_SPA_MSK!CHRSM_SYM_DLM ;IGNORE TAB
0028 177 $CHR_TABENTRY 0,,CHRSM_SPA_MSK!CHRSM_SYM_DLM ;IGNORE LINE FEED
002C 178 $CHR_TABENTRY MAC$CHRERR,,CHRSM_SYM_DLM ;VERTICAL TAB IS ERROR
0030 179 $CHR_TABENTRY 0,,CHRSM_SPA_MSK!CHRSM_SYM_DLM ;IGNORE FORM FEED
0034 180 $CHR_TABENTRY DEOL,SPECIAL,CHRSM_COMMA_CR!CHRSM_SYM_DLM ;CR IS END OF LINE
0038 181 .REPT 18.
0038 182 $CHR_TABENTRY MAC$CHRERR,,CHRSM_SYM_DLM ;CTRL-N TO CTRL-SHIFT-O ARE ERRORS

```





```
01A0 240 $CHR_TABENTRY MAC$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(H)
01A4 241 $CHR_TABENTRY MAC$XSYMBL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(I)
01A8 242 $CHR_TABENTRY MAC$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(J)
01AC 243 $CHR_TABENTRY MAC$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(K)
01B0 244 $CHR_TABENTRY MAC$XSYMBL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(L)
01B4 245 .REPT 6
01B4 246 $CHR_TABENTRY MAC$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(M-R)
01B4 247 .ENDR
01CC 248 $CHR_TABENTRY MAC$XSYMBL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(S)
01D0 249 .REPT 3
01D0 250 $CHR_TABENTRY MAC$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(T-V)
01D0 251 .ENDR
01DC 252 $CHR_TABENTRY MAC$XSYMBL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(W)
01E0 253 .REPT 3
01E0 254 $CHR_TABENTRY MAC$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(X-Z)
01E0 255 .ENDR
01EC 256 .REPT <255-^A/z/> ;FILL OUT TABLE
01EC 257 $CHR_TABENTRY MAC$CHRRER,,CHRSM_SPA_MSK!CHRSM_SYM_DLM
01EC 258 .ENDR
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0400 260      .SBTTL  "XUPARROW" AND "XSYMBOL" CHARACTERS
0400 261
0400 262      :++
0400 263      :
0400 264      :   THESE TABLES ARE USED TO SCAN RADIX CONTROL FUNCTIONS.
0400 265      :   FUNCTIONS ARE EITHER "'^'<CHAR> OR <CHAR>'^'". "'^'" IS THE UPARROW
0400 266      :   OR "HAT".
0400 267      :   'MAC$AB_UPXTAB' POINTS TO A LIST OF CHARACTERS LEGAL AFTER A "'^'"
0400 268      :   'MAC$AB_UPXTOKEN' POINTS TO A LIST OF CORRESPONDING TOKEN TYPES.
0400 269      :
0400 270      :   'MAC$AB_XUPTAB' POINTS TO A LIST OF CHARACTERS LEGAL BEFORE A "'^'"
0400 271      :   'MAC$AB_XUPTOKEN' POINTS TO A CORRESPONDING LIST OF TOKEN TYPES.
0400 272      :--
00000000 273      .PSECT  MAC$RO_DATA,NOEXE,NOWRT,GBL,LONG
0000 274
64 63 62 61 58 4F 4D 46 44 43 42 41 0000 275  MAC$AB_UPXTAB::
78 6F 6D 66 000C 276      .ASCII  /ABCFM0Xabcfmox/      ;'^'X' CHARACTERS
00000010 0010 277  LENS$K_UPXTAB==.-MAC$AB_UPXTAB
0010 278
0010 279      .ALIGN  LONG
0010 280  MAC$AB_UPXTOKEN::
2A 27 29 28 26 25 24 23 0010 281      .BYTE   DUPA,DUPB,DUPC,DUPD,DUPF,DUPM,DUPO,DUPX
2A 27 29 28 26 25 24 23 0018 282      .BYTE   DUPA,DUPB,DUPC,DUPD,DUPF,DUPM,DUPO,DUPX
0020 283
0020 284      .ALIGN  LONG
0020 285  MAC$AB_XUPTAB::
67 69 6C 77 62 73 47 49 4C 57 42 53 0020 286      .ASCII  /SBWLIGsbwlig/      ;'X'^ CHARACTERS
0000000C 002C 287  LENS$K_XUPTAB==.-MAC$AB_XUPTAB
002C 288
002C 289      .ALIGN  LONG
002C 290  MAC$AB_XUPTOKEN::
2C 2D 2E 30 2B 2F 002C 291      .BYTE   DSUP,DBUP,DWUP,DLUP,DIUP,DGUP
2C 2D 2E 30 2B 2F 0032 292      .BYTE   DSUP,DBUP,DWUP,DLUP,DIUP,DGUP

```

```

0038 294      .SBTTL  INITIALIZED DATA STORAGE DEFINITIONS
0038 295
0038 296      :++
0038 297      :      THIS SECTION DEFINES THE GLOBAL DATA STORAGE USED BY
0038 298      :      THE VAX-11 MACRO ASSEMBLER THAT IS INITIALIZED AT
0038 299      :      ASSEMBLY TIME.
0038 300      :--
0038 301
0038 302      .ALIGN  LONG
0038 303
0038 304  MAC$GK_ZERO::
00000000 0038 305      .LONG      0      ;A GUARANTEED ZERO WORD
003C 306  MAC$GK_ONE::
00000001 003C 307      .LONG      1      ;A CONSTANT 1
0040 308  MAC$GK_INTSIZ::
00001400 0040 309      .LONG      INT$K_BUF$SIZ+<3*4> ;SIZE OF INTERMEDIATE BUFFER
0044 310      ;SIZE OF INT. BUFFER WE NEED
0044 311      ;TO ALLOCATE (2 LINK WORDS AND
0044 312      ;SIZE WORD)
0044 312  MAC$G_1_PAGE::
0044 313      $ARGLST 2,MAC$GK_1_PG_SIZ,- ;ARG BLOCK TO ALLOCATE 1 PAGE
0044 314      MAC$GL_BASEADDR
0050 315  MAC$G_2_PAGES::
0050 316      $ARGLST 2,MAC$GK_2_PG_SIZ,- ;ARG BLOCK TO ALLOCATE 2 PAGES
0050 317      MAC$GL_BASEADDR ;AND STORE BASE ADDRESS HERE
005C 318  MAC$GK_1_PG_SIZ::
00000200 005C 319      .LONG      512      ;SIZE OF ONE PAGE
0060 320  MAC$GK_2_PG_SIZ::
00000400 0060 321      .LONG      1024     ;SIZE OF TWO PAGES
0064 322  MAC$G_LSTBUFDES::
00000418' 0064 323      .LONG      MAC$AB_LINE_END-MAC$AB_LST_END ;DESCRIPTOR FOR FAO
00000002' 0068 324      .LONG      MAC$AB_LST_END
006C 325  MAC$AL_ATIM_DSC::
00000014 006C 326      .LONG      20.      ;STRING DESCRIPTOR TO GET ASCII TIME
0000004A' 0070 327      .LONG      MAC$AB_ATIM_BUF ;TWENTY-THREE BYTE BUFFER
0074 328  MAC$AL_FTIM_DSC::
00000014 0074 329      .LONG      20.      ;ADDRESS OF BUFFER
000000CD' 0078 330      .LONG      MAC$AB_SBT_DATE ;STRING DESCRIPTOR FOR SUBTITLE LINE DATE
007C 331  MAC$GL_LIBTYPE::
00000002 007C 332      .LONG      LBR$C_TYP_MLB ; Library type = MACRO
0080 333  MAC$GL_LIBFUNC::
00000001 0080 334      .LONG      LBR$C_READ  ; Library function = READ
0084 335  MAC$GQ_LINEBFDS::
00000032'000003E8 0084 336      .LONG      INP$K_BUF$SIZ,MAC$AB_LINEBF ; Descriptor for line buffer
008C 337  MAC$GQ_LISTBFDS::
00000002'000003E8 008C 338      .LONG      INP$K_BUF$SIZ,MAC$AB_LST_END ; Descriptor for listing buffer

```

```

0094 340 .SBTTL UNINITIALIZED DATA STORAGE DEFINITIONS
0094 341
0094 342 :++
0094 343 :
0094 344 :
0094 345 :--
0094 346
00000000 347 .PSECT MAC$RW_DATA,NOEXE, LONG
0000 348
0000 349 $DEF MAC$GL_FLAGS .BLKL 2 ;GLOBAL ASSEMBLY FLAGS POINTED TO
0008 350 ; BY R11
0008 351 $DEF MAC$GL_CLIADDR .BLKL 1 ;CLI CALL BACK ADDRESS
000C 352 $DEF MAC$GL_CMDLIN .BLKL 1 ;ADDRESS OF COMMAND LINE
0010 353 $DEF MAC$GL_CMDLEN .BLKL 1 ;LENGTH OF COMMAND LINE
0014 354 $DEF MAC$GL_DIRFLG .BLKL 1 ;FLAG WORD FOR DIRECTIVES
0018 355 $DEF MAC$GL_ENLISF .BLKL 1 ;FLAGS SET BY /SHOW/ENABLE IN COMMAND LINE
001C 356 $DEF MAC$GL_DSLISF .BLKL 1 ;FLAGS CLEARED BY /NOSHOW/DISABLE IN COMMAND
0020 357 $DEF MAC$GL_INI_AP .BLKL 1 ;INITIAL AP
0024 358 $DEF MAC$GL_INI_FP .BLKL 1 ;INITIAL FP
0028 359 $DEF MAC$GL_INI_SP .BLKL 1 ;INITIAL SP
002C 360 $DEF MAC$GL_FNLSTS .BLKL 1 ;FINAL EXIT STATUS
0030 361 ;***THE FOLLOWING 4 ITEMS MUST NOT BE SEPARATED
0030 362 :
0030 363 $DEF MAC$GB_MODE .BLKB 1 ;PRIMARY MODE OF OPERAND
0031 364 $DEF MAC$GB_IMODE .BLKB 1 ;INDEXED MODE
0032 365 $DEF MAC$GB_REG .BLKB 1 ;REGISTER
0033 366 $DEF MAC$GB_IREG .BLKB 1 ;...
0034 367 :
0034 368 ;***THE ABOVE 4 ITEMS MUST NOT BE SEPARATED
0034 369 $DEF MAC$GL_IMP_BEG .BLKL 0 ;BEGINNING OF IMPURE AREA
0034 370 $DEF MAC$GL_ARGPTR .BLKL 1 ;POINTER TO FREE SPOT ON PAGE
0038 371 ; DURING MACRO DEFINITION
0038 372 $DEF MAC$GL_ASCCNT .BLKL 1 ;CHARACTER COUNT FOR .ASCIX DIRECTIVES
003C 373 $DEF MAC$GL_ABSFLAG .BLKL 1 ;ABSOLUTE FLAG
0040 374 $DEF MAC$GL_ASNPTR .BLKL 1 ;POINTER TO SYM BLOCK FOR ASSIGNMENT EXPR
0044 375 $DEF MAC$GL_BASEADDR .BLKL 1 ;RETURNS BASE ADDRESS FROM VM GET
0048 376 $DEF MAC$GL_BLKPTR .BLKL 1 ;POINTER TO INPUT BLOCK (GETARGS)
004C 377 $DEF MAC$GL_CTLMSK .BLKL 1 ;MASK OF FLAG BITS SET FROM CLI
0050 378 $DEF MAC$GL_CRF_CNT .BLKL 1 ;COUNT # TIMES CREF CALLED FOR SYMBOLDEF/REF
0054 379 $DEF MAC$GL_CRF_FLG .BLKL 1 ;FLAGS FOR 'DEF--WHAT TO CREF
0058 380 $DEF MAC$GL_CRF_DCNT .BLKL 1 ;# DIRECTIVE DEF/REF CREF CALLS
005C 381 $DEF MAC$GL_CRF_MCNT .BLKL 1 ;# MACRO DEF/REF CREF CALLS
0060 382 $DEF MAC$GL_CRF_OCNT .BLKL 1 ;# OPCODE REF CALLS
0064 383 $DEF MAC$GL_CRF_RCNT .BLKL 1 ;# REGISTER REF CALLS
0068 384 $DEF MAC$GL_CRSYM .BLKL 1 ;CREATED SYMBOL NUMBER
006C 385 $DEF MAC$GL_CURINFDB .BLKL 1 ;POINTER TO CURRENT INPUT FDB
0070 386 $DEF MAC$GL_DFPC_DSP .BLKL 1 ;0 OR INDEX FOR DEFAULT DISPLACEMENT
0074 387 ; FOR PC-RELATIVE W/NO 'X^'
0074 388 $DEF MAC$GL_ERRCT .BLKL 1 ;COUNT OF ERRORS ENCOUNTERED
0078 389 $DEF MAC$GL_ERR_LIST .BLKL 2 ;QUEUE HEAD FOR ERROR LIST
0080 390 $DEF MAC$AB_ETXBUF .BLKB 512 ;ERROR TEXT BUFFER
0280 391 $DEF MAC$GL_ETXLEN .BLKL 1 ;LENGTH OF TEXT IN ETXBUF
0284 392 $DEF MAC$GL_EXPOPVL1 .BLKL 1
0288 393 $DEF MAC$GL_EXPOPVL2 .BLKL 1
028C 394 $DEF MAC$GL_FINPTF .BLKL 1 ;NON-ZERO WHEN FIRST INPUT FILE HAS BEEN PAR
0290 395 $DEF MAC$GL_FREE_LST .BLKL 2 ;QUEUE HEAD FOR FREE PAGES
0298 396 $DEF MAC$GL_HIGH_32 .BLKL 1 ;HIGH ORDER 32 BITS OF OPERAND

```

029C	397	\$DEF	MAC\$GQ_HIGH_64	.BLKQ	1	:High order 64 bits of octaword operand
02A4	398	\$DEF	MAC\$GL_HSHVAL	.BLKL	1	:HASH VALUE RETURNED FROM GETSYM
02A8	399	\$DEF	MAC\$AB_IDENT	.BLKB	SYMSK_MAXLEN+1	:IDENT OF ASSEMBLY
02C8	400	\$DEF	MAC\$GL_IF_CNDPT	.BLKL	1	:POINTER TO IF CONDITION ROUTINE
02CC	401	\$DEF	MAC\$GL_IF_COUNT	.BLKL	1	:COUNT OF NESTED IF'S IN FALSE CONDITIONALS
02D0	402	\$DEF	MAC\$GL_IF_LEVEL	.BLKL	1	: 'IF' LEVEL
02D4	403	\$DEF	MAC\$GL_IF_VALUE	.BLKL	1	:LOW BIT CLEAR IF CURRENT LEVEL IS TRUE
02D8	404	\$DEF	MAC\$GL_INFOCNT	.BLKL	1	: Count of information messages
02DC	405	\$DEF	MAC\$GL_INTFRMPT	.BLKL	1	:POINTER TO CURRENT INT. FRAME BLOCK
02E0	406	\$DEF	MAC\$GL_INTWRNPT	.BLKL	1	:POINTER TO WARNING SPOT
02E4	407	\$DEF	MAC\$GL_INTPAGRQ	.BLKL	1	:# OF PAGES USED FOR INT. BUFFER
02E8	408	\$DEF	MAC\$GL_INTCNT	.BLKL	1	:COUNT OF BYTES LEFT IN INTBUF
02EC	409	\$DEF	MAC\$GL_INTQUE	.BLKL	2	:HEAD OF QUEUE FOR INT. BUFFERS
02F4	410	\$DEF	MAC\$GL_PRMINBL	.BLKB	INP\$K_BLKSIZE	:PRIMARY INPUT BLOCK
0315	411		.ALIGN LONG			
0318	412	\$DEF	MAC\$GL_INPQUE	.BLKL	2	:QUEUE HEAD TO INPUT FILE FDB LIST
0320	413	\$DEF	MAC\$GL_INPUTP	.BLKL	1	:POINTER TO CURRENT INPUT BLOCK
0324	414	\$DEF	MAC\$GL_KEYMAC	.BLKL	1	:
0328	415	\$DEF	MAC\$GL_KEYPTR	.BLKL	1	:
032C	416	\$DEF	MAC\$GL_LINBAS	.BLKL	1	:BASE LINE NUMBER OF CURRENT FILE
0330	417	\$DEF	MAC\$GL_LINENUM	.BLKL	1	:SEQUENTIAL LINE # FOR ASSEMBLY
0334	418	\$DEF	MAC\$GL_LINELN	.BLKL	1	:LENGTH OF CURRENT SOURCE LINE
0338	419	\$DEF	MAC\$GL_LINE_CNT	.BLKL	1	:NUMBER OF LINES REMAINING IN CURRENT PAGE
033C	420	\$DEF	MAC\$GL_LN_PAGE	.BLKL	1	: # of text lines on page
0340	421	\$DEF	MAC\$GL_LINK_PTR	.BLKL	1	:POINTER TO LINKED, ALPHABETIZED SYMBOL TBL
0344	422	\$DEF	MAC\$GL_LIST_IT	.BLKL	1	:LISTING FLAG
0348	423	\$DEF	MAC\$GL_LIST_LVL	.BLKL	1	:LISTING LEVEL
034C	424	\$DEF	MAC\$AB_LPBUF	.BLKB	16	:BUFFER TO CREATE LINE/PAGE FOR CREF
035C	425	\$DEF	MAC\$GL_LPTPAG	.BLKL	1	:CURRENT PAGE NUMBER
0360	426	\$DEF	MAC\$GL_LSB	.BLKL	1	:LOCAL SYMBOL BLOCK NUMBER
0364	427	\$DEF	MAC\$GL_LSB_MAX	.BLKL	1	:HIGHEST LSB ** MUST FOLLOW MAC\$GL_LSB
0368	428	\$DEF	MAC\$GL_MACPTR	.BLKL	1	:POINTER TO MACRO CURRENTLY BEING DEFINED
036C	429	\$DEF	MAC\$GL_MC_ARGCT	.BLKL	1	:MACRO ARGUMENT COUNT
0370	430	\$DEF	MAC\$GL_MCDEF	.BLKL	1	:# MACROS DEFINED
0374	431	\$DEF	MAC\$GL_MCLVL	.BLKL	1	:MACRO DEFINITION LEVEL
0378	432	\$DEF	MAC\$GL_MCPGRQ	.BLKL	1	:# PAGES REQUIRED TO DEFINE MACROS
037C	433	\$DEF	MAC\$GL_MLB_CNT	.BLKL	1	:# OF MLB'S WE KNOW ABOUT
0380	434	\$DEF	MAC\$GL_MLB_NDB	.BLKL	1	:# INDEX BLOCKS USED FOR ALL MLB'S
0384	435	\$DEF	MAC\$GL_MLB_GET	.BLKL	1	:# GETS TO DEFINE MACROS
0388	436	\$DEF	MAC\$GL_MLB_MDF	.BLKL	1	:# MACROS DEFINED OUT OF ALL MLB'S
038C	437	\$DEF	MAC\$GL_MLB_QUE	.BLKL	2	:MLB FDB QUEUE HEADER
0394	438	\$DEF	MAC\$GL_MLIN_LEN	.BLKL	1	:LENGTH OF MACRO LINE IN TMPBUF (P2)
0398	439	\$DEF	MAC\$GL_MOPNOM	.BLKL	1	:NUMBER OF OPERANDS IN INSTR.
039C	440	\$DEF	MAC\$GL_MOPPTR	.BLKL	1	:POINTER TO OPERAND DESCRIPTORS
03A0	441	\$DEF	MAC\$GL_OBJ_RCNT	.BLKL	1	:NO. OBJECT RECORDS WRITTEN
03A4	442	\$DEF	MAC\$GL_OPCPGPTR	.BLKL	1	:POINTER TO CURRENT OPDEF PAGES
03A8	443	\$DEF	MAC\$GL_OPCLSTPT	.BLKL	1	:POINTER TO OPDEF LIST
03AC	444	\$DEF	MAC\$GL_OPSIZE	.BLKL	1	:NUMBER OF BYTES IN OPERAND
03B0	445	\$DEF	MAC\$GL_P2_LINE	.BLKL	1	:LINE NUMBER IN PASS 2
03B4	446	\$DEF	MAC\$GL_PC	.BLKL	1	:CURRENT PC
03B8	447	\$DEF	MAC\$GL_PRMSEG	.BLKL	1	:SEGMENT OF EXPRESSION SYMBOL
03BC	448	\$DEF	MAC\$GL_PSC_BLKP	.BLKL	1	:POINTER TO FREE CORE FOR PSECT BLOCKS
03C0	449	\$DEF	MAC\$GL_PSC_LIST	.BLKL	1	:POINTER TO PSECT DEF. BLOCKS
03C4	450	\$DEF	MAC\$GL_PSC_MAX	.BLKL	1	:HIGHEST PSECT # ALLOCATED
03C8	451	\$DEF	MAC\$AB_PSC_SBF	.BLKB	32	:PSECT CONTEXT SAVE BUFFER
03E8	452	\$DEF	MAC\$AL_PSC_SLB	.BLKL	32	:PSECT LSB CONTEXT SAVE BUFFER
0468	453	\$DEF	MAC\$GL_PSC_SBP	.BLKL	1	:BYTE INDEX INTO CONTEXT SAVE BUFFER

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046C 454 $DEF MAC$GL_PSECT .BLKL 1 ;NUMBER OF CURRENT PSECT
0470 455 $DEF MAC$GL_PSECTPTR .BLKL 1 ;POINTER TO CURRENT PSECT BLOCK
0474 456 $DEF MAC$GB_RDXNDX .BLKB 1 ;INDEX FOR CURRENT RADIX
0475 457 $DEF MAC$GL_RECHDBUF .BLKL 1 ;INPUT RECORD HEADER BUFFER
0479 458 $DEF MAC$GL_RECTYP .BLKL 1 ;RECORD TYPE BEING OUTPUT IN PASS 2
047D 459 $DEF MAC$GL_SAVE_PC .BLKL 1 ;SAVE PC FOR LISTING HERE
0481 460 $DEF MAC$GL_STATOS .BLKL 1 ;EXIT STATUS SET BY P2$END
0485 461 $DEF MAC$GL_STOIMPTR .BLKL 1 ;POINTER TO BEGINNING OF STORE IMMEDIATE COD
0489 462 $DEF MAC$GL_SAVE_SP .BLKL 1 ;SAVE STACK POINTER HERE
048D 463 $DEF MAC$GL_SAV_BAS .BLKL 1 ;SAVE LINE BASE
0491 464 $DEF MAC$GL_SAV_LIN .BLKL 1 ;SAVE LINE NO.
0495 465 $DEF MAC$GL_SAV_PAG .BLKL 1 ;AND PAGE NO. FOR CERTAIN GRAMMAR CONSTRUCTS
0499 466 $DEF MAC$GL_SRC_LCNT .BLKL 1 ;NO. SRC LINES READ IN PASS 1
049D 467 $DEF MAC$GL_SRC_PAG .BLKL 1 ;SOURCE PAGE NUMBER
04A1 468 $DEF MAC$GL_SYM_NLOC .BLKL 1 ;NO. NON-LOCAL SYMBOLS
04A5 469 $DEF MAC$GL_SYM_LOCL .BLKL 1 ;NO. LOCAL SYMBOLS
04A9 470 $DEF MAC$GL_SYM_PAGL .BLKL 2 ;QUE OF ALLOCATED SYMBOL PAGES
04B1 471 $DEF MAC$GL_SYMPGPTR .BLKL 1 ;POINTER TO CURRENT PAGE OF SYMBOLS
04B5 472 $DEF MAC$GL_SYMPGREQ .BLKL 1 ;# OF GET_VM'S FOR SYMBOL TABLE
04B9 473 $DEF MAC$GL_MLFPTR .BLKL 1 ;Current Macro library (MLF) pointer
04BD 474 $DEF MAC$GL_TXTRFA .BLKL 2 ; Librarian text RFA
00000200 04C5 475 $$=512
000003E8 04C5 476 .IF GREATER <ARG$K SIZE-$$>, $$=ARG$K SIZE
04C5 477 $DEF MAC$AB_TMPBUF .BLRB $$ ;TEMP BUFFER FOR ARGUMENTS, ETC.
08AD 478 $DEF MAC$AB_TMP$YM .BLKB SYM$K_MAXLEN+1 ;TEMP SYMBOL NAME HOLDER
08CD 479 $DEF MAC$AB_TMP$Y1 .BLKB SYM$K_MAXLEN+1 ;SECONDARY MAC$AB_TMP$YM
08ED 480 $DEF MAC$AB_TITLE .BLKB SYM$K_MAXLEN+1 ;HOLDS STRING FROM .TITLE DIRECTIVE
090D 481 $DEF MAC$GL_TTX_SIZ .BLKL 1 ;LENGTH OF TITLE TEXT STRING
0911 482 $DEF MAC$GL_WARNCT .BLKL 1 ;COUNT OF WARNINGS ENCOUNTERED
0915 483 $DEF MAC$GL_XFRADR .BLKL 1 ;POINTER TO SYMBOL BLOCK FOR TRANSFER ADDRES
0919 484 $DEF MAC$GW_LST_LINE .BLKW 1 ; Listing line number
091B 485 $DEF MAC$GW_LST_INST .BLKW 1 ; Listing insert number
091D 486 $DEF MAC$GT_SCB .BLKB SUM_K_BLN ; SUM control block
093A 487 $DEF MAC$GL_CVTADDR .BLKL 1 ; RTL floating pt. conversion routine addr
093E 488 $DEF MAC$GL_IMP_END .BLKL 0 ;END OF IMPURE AREA
0000090A 093E 489 MAC$GK_IMP_SIZ==MAC$GL_IMP_END-MAC$GL_IMP_BEG
093E 490
00000000 491 .PSECT MAC$PARSE_DATA,NOEXE, LONG
0000 492
0000 493 $DEF MAC$GL_ERRPT .BLKL 1 ;POINTER TO LAST TOKEN SCANNED
0004 494 $DEF MAC$GL_ERRPTX .BLKL 1 ;POINTER TO CURRENT TOKEN SCANNED
0008 495 $DEF MAC$GL_EXPPTR .BLKL 1 ;POINTER TO EXPR START IN INT CODE
000C 496 $DEF MAC$GL_EXPEND .BLKL 1 ;POINTER TO EXPR END IN INT CODE
0010 497 $DEF MAC$GL_NEXT .BLKL 1 ;NEXT SYMBOL TO PARSE
0014 498 $DEF MAC$AL_PSTACK .BLKL 100. ;PARSE STACK
01A4 499 $DEF MAC$AL_VALSTACK .BLKL 256. ;PARSE VALUE STACK
05A4 500 $DEF MAC$GL_VALUE .BLKL 0 ;PARSER CURRENT VALUE
05A4 501 $DEF MAC$GQ_VALUEO .BLKO 0 ; 128-bit value for number getters
05A4 502 $DEF MAC$GQ_VALUEQ .BLKQ 0 ;64-BIT VALUE FOR NUMBER-GETTERS
05A4 503 $DEF MAC$GW_VAL1 .BLKW 0 ;FIRST WORD OF VALUE
05A4 504 $DEF MAC$GB_VAL1 .BLKB 1 ;FIRST BYTE OF VALUE
05A5 505 $DEF MAC$GB_VAL2 .BLKB 1 ;SECOND BYTE OF VALUE
05A6 506 $DEF MAC$GW_VAL2 .BLKW 0 ;SECOND WORD OF VALUE
05A6 507 $DEF MAC$GB_VAL3 .BLKB 1 ;THIRD BYTE OF VALUE
05A7 508 $DEF MAC$GB_VAL4 .BLKB 1 ;FOURTH BYTE OF VALUE
05A8 509 $DEF MAC$GL_VAL3 .BLKL 1 ;THIRD AND FOURTH WORDS OF VALUE
05AC 510 $DEF MAC$GQ_VAL2 .BLKQ 1 ; Second quadword of octaword value

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	05B4	511	\$DEF	MAC\$GL_VNEXT	.BLKL	1		;VALUE DURING LOOKAHEAD		2A
	05B8	512								
	00000000	513		.PSECT	MAC\$LISTING_BUF			,NOEXE, LONG		
	0000	514								
00000002	0000	515		.BLKB	2			;LISTING BUFFER OVERFLOW PROTECTION		59
	0002	516	\$DEF	MAC\$AB_LST_END	.BLKB	16		;END OF CODE LISTING BUFFER		41
	0012	517	\$DEF	MAC\$AB_LST_OP2	.BLKB	14		;START OF SECOND OPERAND FIELD		34
	0020	518	\$DEF	MAC\$AB_LST_OP1	.BLKB	5		;START OF FIRST OPERAND FIELD		21
	0025	519	\$DEF	MAC\$AB_LST_OPR	.BLKB	6		;START OF OPCODE FIELD		
	002B	520	\$DEF	MAC\$AB_SEQ_NUM	.BLKB	7		;SOURCE LINE SEQUENCE NUMBER		45
	0032	521	\$DEF	MAC\$AB_LST_LIN	.BLKB	0		;BEGINNING OF CODE LISTING BUFFER		
00000030	0032	522		MAC\$K_LST_SIZE=.	-MAC\$AB_LST_END			;SIZE OF CODE LISTING BUFFER		
00000012	0032	523		MAC\$AB_LST_AUDT =	MAC\$AB_LST_END+AUD\$K_SIZE			; Start of audit trail		36
	0032	524						; (THIS BUFFER GOES BACKWARDS!)		20
	0032	525	\$DEF	MAC\$AB_LINEBF	.BLKB	INP\$K_BUF	SIZ	;SOURCE LINE BUFFER		31
	041A	526	\$DEF	MAC\$AB_LINE_END	.BLKB	0		;END OF SOURCE LINE BUFFER		
0000041E	041A	527		.BLKL	1			;OVERFLOW PADDING		2A
	041E	528	\$DEF	MAC\$GL_LIST_PTR	.BLKL	1		;POINTER INTO MAC\$AB_LST_LIN		
	0422	529	\$DEF	MAC\$GL_LINPT	.BLKL	1		;POINTER INTO LINEBF		
	0426	530								
00000000	531			.PSECT	MAC\$PAGE_HEADER			,NOEXE, LONG		2B
	0000	532								
	0000	533		MAC\$AB_HD_NEWPG::				;TO OUTPUT FORM-FEED ALSO		
0C	0000	534		.BYTE	FF			;WANT NEW PAGE		21
	0001	535	\$DEF	MAC\$AB_HD_TITLE	.BLKB	SYM\$K_MAXLEN+1		; Chars for title and sub string		6F
	0021	536	\$DEF	MAC\$AB_HD_TSTRG	.BLKB	LST\$K_TITLE_SIZ+1				65
	004A	537						;BUFFER FOR TITLE SUB-STRING		
	004A	538	\$DEF	MAC\$AB_ATIM_BUF	.BLKB	22		; 22 bytes for date/time		
	0060	539	\$DEF	MAC\$AB_HD_VERSN	.BLKB	28		; 28 bytes to hold assembler version string		2B
	007C	540	\$DEF	MAC\$AB_HD_PAGE	.BLKB	8		; "PAGE nnnn"		
	0084	541	\$DEF	MAC\$AB_HD_END	.BLKB	0		;END OF PAGE HEADER BUFFER		
00000083	0084	542		MAC\$K_HD_SIZE=.	-MAC\$AB_HD_TITLE			;SIZE		
	0084	543	\$DEF	MAC\$AB_SBT_IDNT	.BLKB	SYM\$K_MAXLEN+1		; Ident from .IDENT		41
	00A4	544	\$DEF	MAC\$AB_SBT_SBTL	.BLKB	LST\$K_TITLE_SIZ+1		;SPACE FOR SUBTTL LINE		3C
	00CD	545	\$DEF	MAC\$AB_SBT_DATE	.BLKB	22		; Creation date of source file		31
	00E3	546	\$DEF	MAC\$AB_SBT_FILE	.BLKB	32		; Source file specification		4E
	0103	547	\$DEF	MAC\$AB_SBT_PAGE	.BLKB	5		;SOURCE PAGE NUMBER		
	0108	548	\$DEF	MAC\$AB_SBT_END	.BLKB	0		;END OF SUBTITLE LINE		45
00000084	0108	549		MAC\$K_SBT_SIZ=.	-MAC\$AB_SBT_IDNT					
	0108	550								
00000000	551			.PSECT	MAC\$PRO_TIMES			,NOEXE, LONG		35
	0000	552								21
	0000	553	\$DEF	MAC\$GQ_RNT_TOT	.BLKQ	1		;TOTAL CPU TIME FOR RUN		34
	0008	554	\$DEF	MAC\$GQ_TIM_TOT	.BLKQ	1		;TOTAL ELAPSED TIME FOR RUN		
	0010	555	\$DEF	MAC\$GL_PFL_TOT	.BLKL	1		;PAGE FAULTS FOR TOTAL RUN		2A
	0014	556	\$DEF	MAC\$GQ_RNT_CRF	.BLKQ	1		;TOTAL CPU TIME FOR CRF		
	001C	557	\$DEF	MAC\$GQ_TIM_CRF	.BLKQ	1		;TOTAL ELAPSED TIME FOR CRF		
	0024	558	\$DEF	MAC\$GQ_PFL_CRF	.BLKL	1		;PAGE FAULTS FOR CRF		
	0028	559	\$DEF	MAC\$GQ_RNT_INI	.BLKQ	1		;TOTAL CPU TIME FOR INITIALIZATION		41
	0030	560	\$DEF	MAC\$GQ_TIM_INI	.BLKQ	1		;ELAPSED TIME FOR INITIALIZATION		3C
	0038	561	\$DEF	MAC\$GL_PFL_INI	.BLKL	1		;PAGE FAULTS FOR INITIALIZATION		31
	003C	562	\$DEF	MAC\$GQ_RNT_CMD	.BLKQ	1		;CPU TIME FOR COMMAND PROCESSING		4E
	0044	563	\$DEF	MAC\$GQ_TIM_CMD	.BLKQ	1		;ELAPSED TIME FOR COMMAND PROCESSING		
	004C	564	\$DEF	MAC\$GL_PFL_CMD	.BLKL	1		;PAGE FAULTS IN COMMAND PROCESSING		45
	0050	565	\$DEF	MAC\$GQ_RNT_P1	.BLKQ	1		;CPU TIME FOR PASS 1		
	0058	566	\$DEF	MAC\$GQ_TIM_P1	.BLKQ	1		;ELAPSED TIME FOR PASS 1		
	0060	567	\$DEF	MAC\$GL_PFL_P1	.BLKL	1		;PAGE FAULTS IN PASS 1		35

0064	568	\$DEF	MAC\$GQ_RNT_SRT	.BLKQ	1	;CPU TIME FOR SYMBOL TABLE SORT
006C	569	\$DEF	MAC\$GQ_TIM_SRT	.BLKQ	1	;ELAPSED TIME FOR SYMBOL TABLE SORT
0074	570	\$DEF	MAC\$GL_PFL_SRT	.BLKL	1	;PAGE FAULTS IN SYMBOL SORT
0078	571	\$DEF	MAC\$GQ_RNT_P2	.BLKQ	1	;CPU TIME FOR PASS 2
0080	572	\$DEF	MAC\$GQ_TIM_P2	.BLKQ	1	;ELAPSED TIME FOR PASS 2
0088	573	\$DEF	MAC\$GL_PFL_P2	.BLKL	1	;PAGE FAULTS IN PASS 2
008C	574	\$DEF	MAC\$GQ_RNT_SYO	.BLKQ	1	;CPU TIME FOR SYMBOL TABLE OUTPUT
0094	575	\$DEF	MAC\$GQ_TIM_SYO	.BLKQ	1	;ELAPSED TIME FOR SYMBOL TABLE OUTPUT
009C	576	\$DEF	MAC\$GL_PFL_SYO	.BLKL	1	;PAGE FAULTS IN SYMBOL TABLE OUTPUT
00A0	577	\$DEF	MAC\$GQ_RNT_PSY	.BLKQ	1	;CPU TIME FOR PSECT SYNOPSIS OUTPUT
00A8	578	\$DEF	MAC\$GQ_TIM_PSY	.BLKQ	1	;ELAPSED TIME FOR PSECT SYNO. OUTPUT
00B0	579	\$DEF	MAC\$GL_PFL_PSY	.BLKL	1	;PAGE FAULTS FOR PSECT SYNO. OUTPUT
00B4	580					
00B4	581		.END			

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MACSDATA  
Symbol table

SS	= 000003E8	DUPX	= 0000002A	
SST1	= 00000002	DWUP	= 0000003C	43
ARGSK_SIZE	= 000003E8	DXOR	= 0000001F	6E
AUDSK_SIZE	= 00000010	ERR01	= 00000001	
BIT...	= 00000005	ERR02	= 00000002	2B
BLNK	= 00000020	ERR03	= 00000003	
CHRSM_COMMA_CR	= 00000020	ERR04	= 00000004	
CHRSM_ILL_CR	= 00000040	ERR05	= 00000005	45
CHRSM_NUM_BER	= 00000010	ERR06	= 00000006	3C
CHRSM_SPA_MSK	= 00000001	ERR07	= 00000007	43
CHRSM_SYM_CH1	= 00000008	ERR08	= 00000008	3C
CHRSM_SYM_CHR	= 00000004	ERR09	= 00000009	2E
CHRSM_SYM_DLM	= 00000002	FF	= 0000000C	
CHRSV_COMMA_CR	= 00000005	GOALSY	= 0000000A	
CHRSV_CVTLWC	= 00000061	HASHSZ	= 0000007F	38
CHRSV_ILL_CR	= 00000006	HYPHEN	= 0000002D	2A
CHRSV_NOCVT	= 0000007F	ID	= 0000000C	21
CHRSV_NUM_BER	= 00000004	INPSB_ARGCT	= 0000001C	
CHRSV_SPA_MSK	= 00000000	INPSK_BLKSI2	= 00000021	
CHRSV_SYM_CH1	= 00000003	INPSK_BUFSIZ	= 000003E8	
CHRSV_SYM_CHR	= 00000002	INPSK_IRPSIZ	= 0000003C	2B
CHRSV_SYM_DLM	= 00000001	INPSL_ARGS	= 0000001D	
CR	= 0000000D	INPSL_GETL	= 00000008	
DAND	= 0000001D	INPSL_IFLVL	= 0000000C	21
DANGCLS	= 00000016	INPSL_IFVAL	= 00000010	63
DANGOPN	= 00000015	INPSL_LINK	= 00000000	73
DAT	= 00000020	INPSL_NXTL	= 00000004	
DBUP	= 0000002B	INPSL_PAGP	= 00000018	
DCLS	= 00000018	INPSL_RPTCNT	= 00000014	2B
DCOLON	= 00000010	INTSK_BUFSIZ	= 000013F4	
DCOMMA	= 0000000F	INTSK_BUFWRN	= 00001390	
DDIV	= 0000001C	KADDRESS	= 00000037	
DEOL	= 0000000B	KALIGN	= 0000005A	68
DEQ	= 00000011	KASCIC	= 00000033	67
DGUP	= 0000002C	KASCID	= 00000078	31
DINTEGER	= 00000022	KASCII	= 00000034	3E
DIUP	= 0000002D	KASCIZ	= 00000035	20
DLUP	= 0000002E	KBLKA	= 0000003F	
DMASK	= 00000032	KBLKB	= 00000040	
DMINUS	= 0000001A	KBLKD	= 00000041	35
DCPCODE	= 0000000E	KBLKF	= 00000042	2A
DOPN	= 00000017	KBLKG	= 0000007E	21
DOR	= 0000001E	KBLKH	= 0000007F	3E
DPC	= 00000012	KBLKL	= 00000043	
DPLUS	= 00000019	KBLKO	= 00000080	
DPOUND	= 00000021	KBLKQ	= 00000044	2B
DSQCLS	= 00000014	KBLKW	= 00000045	
DSQOPN	= 00000013	KBYTE	= 00000038	
DSUP	= 0000002F	KCROSS	= 00000079	
DTIMES	= 0000001B	KDEBUG	= 00000055	21
DUPA	= 00000023	KDFLT	= 0000007B	72
DUPB	= 00000024	KDOUBLE	= 00000039	69
DUPC	= 00000025	KDSABL	= 00000056	
DUPD	= 00000026	KENABL	= 00000057	
DUPF	= 00000028	KEND	= 00000076	2B
DUPM	= 00000029	KENDC	= 0000004E	
DUPO	= 00000027	KENDM	= 00000053	

MACSDATA  
Symbol table

KENDR	= 0000004F	LBR\$C_READ	= 00000001		
KENTRY	= 00000058	LBR\$C_TYP_MLB	= 00000002		
KERROR	= 00000071	LENSK_UPXTAB	= 00000010	G	61
KEVEN	= 0000005B	LENSK_XUPTAB	= 0000000C	G	20
KEXTRN	= 0000005D	LST\$K_BUFSIZ	= 00000086		64
KFIELD	= 0000003A	LST\$K_L_P_PAGE	= 0C00003C		
KFLOAT	= 0000003B	LST\$K_TITR_SIZ	= 00000028		
KGFLOAT	= 00000081	MAB\$B_ARGNL	00000005		31
KGLOBL	= 0000005E	MAB\$B_NAME	00000004		
KHFLOAT	= 00000082	MAB\$K_BLK\$SIZ	0000000C		
KIDENT	= 0000006A	MAB\$L_DVPTR	00000008		
KIF	= 00000046	MAB\$L_LINK	00000000		
KIFF	= 00000048	MAB\$W_DVLEN	00000006		41
KIFT	= 00000049	MAC\$AB_ATIM_BUF	0000004A	RG	09
KIFTF	= 0000004A	MAC\$AB_CMSK_TAB	00000000	RG	03
KIIF	= 00000047	MAC\$AB_ETXBUF	00000080	RG	06
KINCLUDE	= 0000005F	MAC\$AB_HD_END	00000084	RG	09
KIRP	= 0000004B	MAC\$AB_HD_NEWPG	00000000	RG	09
KIRPC	= 0000004C	MAC\$AB_HD_PAGE	0000007C	RG	09
KLIBRARY	= 00000060	MAC\$AB_HD_TITLE	00000001	RG	09
KLINK	= 00000085	MAC\$AB_HD_TSTRG	00000021	RG	09
KLIST	= 00000061	MAC\$AB_HD_VERSN	00000060	RG	09
KLONG	= 0000003C	MAC\$AB_IDENT	000002A8	RG	06
KMACRO	= 00000050	MAC\$AB_LINEBF	00000032	RG	08
KMCALL	= 00000051	MAC\$AB_LINE_END	0000041A	RG	08
KMDELETE	= 00000054	MAC\$AB_LPBUF	0000034C	RG	06
KMEXIT	= 00000052	MAC\$AB_LST_AUDT	= 00000012	R	08
KNARG	= 00000063	MAC\$AB_LST_END	00000002	RG	08
KNCHR	= 00000064	MAC\$AB_LST_LIN	00000032	RG	08
KNCROS	= 0000007A	MAC\$AB_LST_OP1	00000020	RG	08
KNLIST	= 00000062	MAC\$AB_LST_OP2	00000012	RG	08
KNTYPE	= 00000074	MAC\$AB_LST_OPR	00000025	RG	08
KOCTA	= 00000083	MAC\$AB_PSC_SBF	000003C8	RG	06
KODD	= 0000005C	MAC\$AB_SBT_DATE	000000CD	RG	09
KOPDEF	= 00000075	MAC\$AB_SBT_END	00000108	RG	09
KPACKED	= 00000036	MAC\$AB_SBT_FILE	000000E3	RG	09
KPAGE	= 00000065	MAC\$AB_SBT_IDNT	00000084	RG	09
KPRINT	= 00000072	MAC\$AB_SBT_PAGE	00000103	RG	09
KPSECT	= 00000066	MAC\$AB_SBT_SBTL	000000A4	RG	09
KQUAD	= 0000003D	MAC\$AB_SEQ_NUM	0000002B	RG	08
KREF1	= 0000006D	MAC\$AB_TITCE	000008ED	RG	06
KREF16	= 00000084	MAC\$AB_TMPBUF	000004C5	RG	06
KREF2	= 0000006E	MAC\$AB_TMPSY1	000008CD	RG	06
KREF4	= 0000006F	MAC\$AB_TMPSYM	000008AD	RG	06
KREF8	= 00000070	MAC\$AB_UPXTAB	00000000	RG	05
KREPT	= 0000004D	MAC\$AB_UPXTOKEN	00000010	RG	05
KRESTORE	= 00000067	MAC\$AB_XUPTAB	00000020	RG	05
KSAVE	= 00000068	MAC\$AB_XUPTOKEN	0000002C	RG	05
KBTTL	= 0000006B	MAC\$AL_ATIM_DSC	0000006C	RG	05
KSGNB	= 0000007C	MAC\$AL_CHRTAB	00000000	RG	04
KSGNW	= 0000007D	MAC\$AL_FTIM_DSC	00000074	RG	05
KTITLE	= 00000069	MAC\$AL_PSC_SLB	000003E8	RG	06
KVECTOR	= 00000059	MAC\$AL_PSTACK	00000014	RG	07
KWARN	= 00000073	MAC\$AL_VALSTACK	000001A4	RG	07
KWEAK	= 0000006C	MAC\$CHRERR	*****	X	04
KWORD	= 0000003E	MAC\$GB_IMODE	00000031	RG	06
KXFER	= 00000077	MAC\$GB_IREG	00000033	RG	06

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MACSDATA  
Symbol table

Symbol	Address	Mode	Length	Symbol	Address	Mode	Length	Symbol	Address	Mode	Length
MAC\$GB_MODE	00000030	RG	06	MAC\$GL_INFOCNT	000002D8	RG	06				
MAC\$GB_RDXNDX	00000474	RG	06	MAC\$GL_INI_AP	00000020	RG	06				
MAC\$GB_REG	00000032	RG	06	MAC\$GL_INI_FP	00000024	RG	06				31
MAC\$GB_VAL1	000005A4	RG	07	MAC\$GL_INI_SP	00000028	RG	06				38
MAC\$GB_VAL2	000005A5	RG	07	MAC\$GL_INPQUE	00000318	RG	06				20
MAC\$GB_VAL3	000005A6	RG	07	MAC\$GL_INPUTP	00000320	RG	06				2A
MAC\$GB_VAL4	000005A7	RG	07	MAC\$GL_INTCNT	000002E8	RG	06				3E
MAC\$GK_1_PG_SIZ	0000005C	RG	05	MAC\$GL_INTFRMPT	000002DC	RG	06				
MAC\$GK_2_PG_SIZ	00000060	RG	05	MAC\$GL_INTPAGRQ	000002E4	RG	06				
MAC\$GK_IMP_SIZ	= 0000090A	G		MAC\$GL_INTQUE	000002EC	RG	06				35
MAC\$GK_INTSIZ	00000040	RG	05	MAC\$GL_INTWRNPT	000002E0	RG	06				29
MAC\$GK_ONE	0000003C	RG	05	MAC\$GL_KEYMAC	00000324	RG	06				
MAC\$GK_ZERO	00000038	RG	05	MAC\$GL_KEYPTR	00000328	RG	06				
MAC\$GL_ABSFLAG	0000003C	RG	06	MAC\$GL_LIBFUNC	00000080	RG	05				41
MAC\$GL_ARGPTR	00000034	RG	06	MAC\$GL_LIBTYPE	0000007C	RG	05				35
MAC\$GL_ASCCNT	00000038	RG	06	MAC\$GL_LINBAS	0000032C	RG	06				28
MAC\$GL_ASNPTR	00000040	RG	06	MAC\$GL_LINELN	00000334	RG	06				
MAC\$GL_BASEADDR	00000044	RG	06	MAC\$GL_LINENUM	00000330	RG	06				
MAC\$GL_BLKPTR	00000048	RG	06	MAC\$GL_LINEPT	00000422	RG	08				
MAC\$GL_CLIADDR	00000008	RG	06	MAC\$GL_LINE_CNT	00000338	RG	06				
MAC\$GL_CMDLEN	00000010	RG	06	MAC\$GL_LINK_PTR	00000340	RG	06				
MAC\$GL_CMDLIN	0000000C	RG	06	MAC\$GL_LIST_IT	00000344	RG	06				
MAC\$GL_CRF_CNT	00000050	RG	06	MAC\$GL_LIST_LVL	00000348	RG	06				
MAC\$GL_CRF_DCNT	00000058	RG	06	MAC\$GL_LIST_PTR	0000041E	RG	08				
MAC\$GL_CRF_FLG	00000054	RG	06	MAC\$GL_LN_PAGE	0000033C	RG	06				
MAC\$GL_CRF_MCNT	0000005C	RG	06	MAC\$GL_LPTPAG	0000035C	RG	06				
MAC\$GL_CRF_OCNT	00000060	RG	06	MAC\$GL_LSB	00000360	RG	06				
MAC\$GL_CRF_RCNT	00000064	RG	06	MAC\$GL_LSB_MAX	00000364	RG	06				20
MAC\$GL_CRSYM	00000068	RG	06	MAC\$GL_MACPTR	00000368	RG	06				6F
MAC\$GL_CTLMSK	0000004C	RG	06	MAC\$GL_MCDEF	00000370	RG	06				73
MAC\$GL_CURINFDB	0000006C	RG	06	MAC\$GL_MCLVL	00000374	RG	06				74
MAC\$GL_CVTADDR	0000093A	RG	06	MAC\$GL_MCPGRQ	00000378	RG	06				73
MAC\$GL_DFPC_DSP	00000070	RG	06	MAC\$GL_MC_ARGCT	0000036C	RG	06				
MAC\$GL_DIRFLG	00000014	RG	06	MAC\$GL_MLB_CNT	0000037C	RG	06				
MAC\$GL_DSLISF	0000001C	RG	06	MAC\$GL_MLB_GET	00000384	RG	06				
MAC\$GL_ENLISF	00000018	RG	06	MAC\$GL_MLB_MDF	00000388	RG	06				
MAC\$GL_ERRCT	00000074	RG	06	MAC\$GL_MLB_NDB	00000380	RG	06				20
MAC\$GL_ERRPT	00000000	RG	07	MAC\$GL_MLB_QUE	0000038C	RG	06				72
MAC\$GL_ERRPTX	00000004	RG	07	MAC\$GL_MLFPTR	000004B9	RG	06				77
MAC\$GL_ERR_LIST	00000078	RG	06	MAC\$GL_MLIN_LEN	00000394	RG	06				6E
MAC\$GL_ETXLEN	00000280	RG	06	MAC\$GL_MOPNDM	00000398	RG	06				
MAC\$GL_EXPEND	0000000C	RG	07	MAC\$GL_MOPPTR	0000039C	RG	06				74
MAC\$GL_EXPOVL1	00000284	RG	06	MAC\$GL_NEXT	00000010	RG	07				21
MAC\$GL_EXPOVL2	00000288	RG	06	MAC\$GL_OBJ_RCNT	000003A0	RG	06				73
MAC\$GL_EXPPTR	00000008	RG	07	MAC\$GL_OPCESTPT	000003A8	RG	06				
MAC\$GL_FINPTF	0000028C	RG	06	MAC\$GL_OPCPGPTR	000003A4	RG	06				
MAC\$GL_FLAGS	00000000	RG	06	MAC\$GL_OPSIZE	000003AC	RG	06				6F
MAC\$GL_FNLSTS	0000002C	RG	06	MAC\$GL_P2_LINE	00000380	RG	06				69
MAC\$GL_FREE_LST	00000290	RG	06	MAC\$GL_PC	00000384	RG	06				20
MAC\$GL_HIGH_32	00000298	RG	06	MAC\$GL_PFL_CMD	0000004C	RG	0A				
MAC\$GL_HSHVAL	000002A4	RG	06	MAC\$GL_PFL_INI	00000038	RG	0A				
MAC\$GL_IF_CNDPT	000002CB	RG	06	MAC\$GL_PFL_P1	00000060	RG	0A				
MAC\$GL_IF_COUNT	000002CC	RG	06	MAC\$GL_PFL_P2	00000088	RG	0A				79
MAC\$GL_IF_LEVEL	000002D0	RG	06	MAC\$GL_PFL_PSY	000000B0	RG	0A				67
MAC\$GL_IF_VALUE	000002D4	RG	06	MAC\$GL_PFL_SRT	00000074	RG	0A				72
MAC\$GL_IMP_BEG	00000034	RG	06	MAC\$GL_PFL_SYO	0000009C	RG	0A				
MAC\$GL_IMP_END	0000093E	RG	06	MAC\$GL_PFL_TOT	00000010	RG	0A				74

Symbol	Address	Mode	Length	Symbol	Address	Mode	Length	Symbol	Address	Mode	Length
MAC\$GL_PRMINBL	000002F4	RG	06	MAC\$GW_LST_INST	00000918	RG	06				
MAC\$GL_PRMSEG	000003B8	RG	06	MAC\$GW_LST_LINE	00000919	RG	06				
MAC\$GL_PSC_BLK	000003BC	RG	06	MAC\$GW_VALT	000005A4	RG	07				
MAC\$GL_PSC_LIST	000003C0	RG	06	MAC\$GW_VAL2	000005A6	RG	07				
MAC\$GL_PSC_MAX	000003C4	RG	06	MAC\$G_T_PAGE	00000044	RG	05				
MAC\$GL_PSC_SBP	00000468	RG	06	MAC\$G_2_PAGES	00000050	RG	05				
MAC\$GL_PSECT	0000046C	RG	06	MAC\$G_LSTBUFDES	00000064	RG	05				
MAC\$GL_PSECTPTR	00000470	RG	06	MAC\$K_HD_SIZE	= 00000083	G					
MAC\$GL_RECHDBUF	00000475	RG	06	MAC\$K_LIST_SIZE	= 00000030	G					
MAC\$GL_RECTYP	00000479	RG	06	MAC\$K_SBT_SIZ	= 00000084	G					
MAC\$GL_SAVE_PC	0000047D	RG	06	MAC\$NUMBER	*****	X	04				
MAC\$GL_SAVE_SP	00000489	RG	06	MAC\$SYMBOL	*****	X	04				
MAC\$GL_SAV_BAS	0000048D	RG	06	MAC\$SYMNUM	*****	X	04				
MAC\$GL_SAV_LIN	00000491	RG	06	MAC\$XPOUND	*****	X	04				
MAC\$GL_SAV_PAG	00000495	RG	06	MAC\$XSMBL	*****	X	04				
MAC\$GL_SRC_PAG	0000049D	RG	06	MAC\$XUPARROW	*****	X	04				
MAC\$GL_SRC_LCNT	00000499	RG	06	MACTXT	= 0000000D						
MAC\$GL_STATUS	00000481	RG	06	MAC SUBSYS	= 0000007D						
MAC\$GL_STOIMPTR	00000485	RG	06	MNBSB_ARGCT	00000017						
MAC\$GL_SYMPGPTR	000004B1	RG	06	MNBSB_NAME	00000004						
MAC\$GL_SYMPGREQ	000004B5	RG	06	MNBSK_BLKSI	0000001C						
MAC\$GL_SYM_LOCL	000004A5	RG	06	MNBSL_ARGP	00000018						
MAC\$GL_SYM_NLOC	000004A1	RG	06	MNBSL_CRSYMF	00000013						
MAC\$GL_SYM_PAGL	000004A9	RG	06	MNBSL_LINK	00000000						
MAC\$GL_TTX_SIZ	0000090D	RG	06	MNBSL_PAGC	0000000F						
MAC\$GL_TXRFA	000004BD	RG	06	MNBSL_PAGP	00000008						
MAC\$GL_VAL3	000005A8	RG	07	MNBSL_TXTP	00000005						
MAC\$GL_VALUE	000005A4	RG	07	MNBSW_FLAG	00000009						
MAC\$GL_VNEXT	000005B4	RG	07	MXBSK_BLKSI	00000008						
MAC\$GL_WARNCT	00000911	RG	06	MXBSL_LINK	00000000						
MAC\$GL_XFRADR	00000915	RG	06	MXBSL_PAGES	00000004						
MAC\$GQ_VALUE0	000005A4	RG	07	OBJ\$K_BUFSIZ	= 00000200						
MAC\$GQ_HIGH_64	0000029C	RG	06	PSC\$B_NAME	00000004						
MAC\$GQ_LINEBFDS	00000084	RG	05	PSC\$B_SEG	0000000C						
MAC\$GQ_LISTBFDS	0000008C	RG	05	PSC\$B_UNUSED	0000000B						
MAC\$GQ_PFL_CRF	00000024	RG	0A	PSC\$K_BLKSI	00000013						
MAC\$GQ_RNT_CMD	0000003C	RG	0A	PSC\$K_NO_OPTNS	= 0000000A						
MAC\$GQ_RNT_CRF	00000014	RG	0A	PSC\$L_CURLOC	0000000F						
MAC\$GQ_RNT_INI	00000028	RG	0A	PSC\$L_LINK	00000000						
MAC\$GQ_RNT_P1	00000050	RG	0A	PSC\$L_MAXLGTH	00000005						
MAC\$GQ_RNT_P2	00000078	RG	0A	PSC\$M_ABS	= FFFFFFFF7						
MAC\$GQ_RNT_PSY	00000010	RG	0A	PSC\$M_ALIGNFLG	= 00004000						
MAC\$GQ_RNT_SRT	00000064	RG	0A	PSC\$M_ALLOPTNS	= 000003FF						
MAC\$GQ_RNT_SYO	0000008C	RG	0A	PSC\$M_BYTE	= 00004000						
MAC\$GQ_RNT_TOT	00000000	RG	0A	PSC\$M_CON	= FFFFFFFFB						
MAC\$GQ_TIM_CMD	00000044	RG	0A	PSC\$M_DEFAULT	= 000001C8						
MAC\$GQ_TIM_CRF	0000001C	RG	0A	PSC\$M_EXE	= 000000C0						
MAC\$GQ_TIM_INI	00000030	RG	0A	PSC\$M_GBL	= 00000010						
MAC\$GQ_TIM_P1	00000058	RG	0A	PSC\$M_LCL	= FFFFFFFEF						
MAC\$GQ_TIM_P2	00000080	RG	0A	PSC\$M_LIB	= 00000002						
MAC\$GQ_TIM_PSY	000000A8	RG	0A	PSC\$M_LONG	= 00004800						
MAC\$GQ_TIM_SRT	0000006C	RG	0A	PSC\$M_NOEXE	= FFFFFFFBF						
MAC\$GQ_TIM_SYO	00000094	RG	0A	PSC\$M_NOPIC	= FFFFFFFFE						
MAC\$GQ_TIM_TOT	00000008	RG	0A	PSC\$M_NORD	= FFFFFFF7F						
MAC\$GQ_VAL2	000005AC	RG	07	PSC\$M_NOSHR	= FFFFFFFDF						
MAC\$GQ_VALUE0	000005A4	RG	07	PSC\$M_NOVEC	= FFFFFFFDF						
MAC\$GT_SCB	0000091D	RG	06	PSC\$M_NOWRT	= FFFFFFFEF						

MACSDATA  
Symbol table

STORAGE ALLOCATION FOR VAX NATIVE ASSEMB 16-SEP-1984 02:18:06 VAX/VMS Macro V04-00  
5-SEP-1984 01:47:48 [MACRO.SRC]DATA.MAR;1

PSCSM_OVR	= 00000004	SUM_W_LINE_NO	00000018
PSCSM_PAGE	= 00006400	SYMSB_NAME	00000004
PSCSM_PIC	= 00000001	SYMSB_SEG	0000000C
PSCSM_QUA	= 00004C00	SYMSB_TOKEN	0000000B
PSCSM_RD	= 00000080	SYMSK_BLKSIZE	0000000D
PSCSM_REL	= 00000008	SYMSK_MAXLEN	= 0000001F
PSCSM_SHR	= 00000020	SYMSK_TWOCOL	= 00000010
PSCSM_USR	= FFFFFFFD	SYMSL_LINK	00000000
PSCSM_VEC	= 00000200	SYMSL_VAL	00000005
PSCSM_WORD	= 00004400	SYMSM_ABS	= 00000010
PSCSM_WRT	= 00000180	SYMSM_ASN	= 00000100
PSCSS_ALIGNMENT	= 00000004	SYMSM_CRFO	= 00002000
PSCSV_ALIGNFLG	= 0000000E	SYMSM_DEBUG	= 00000020
PSCSV_ALIGNMENT	= 0000000A	SYMSM_DEF	= 00000001
PSCSV_EXE	= 00000006	SYMSM_DELMAC	= 00000200
PSCSV_GBL	= 00000004	SYMSM_EPT	= 00000200
PSCSV_LIB	= 00000001	SYMSM_EXTRN	= 00000008
PSCSV_OVR	= 00000002	SYMSM_GLOBL	= 00000004
PSCSV_PIC	= 00000000	SYMSM_LOCAL	= 00000040
PSCSV_RD	= 00000007	SYMSM_ODBG	= 00000400
PSCSV_REL	= 00000003	SYMSM_REF	= 00000080
PSCSV_SHR	= 00000005	SYMSM_RELPSECT	= 00000800
PSCSV_VEC	= 00000009	SYMSM_SUPR	= 00004000
PSCSV_WRT	= 00000008	SYMSM_WEAK	= 00000002
PSCSW_FLAG	00000009	SYMSM_XCRF	= 00001000
PSCSW_OPTIONS	0000000D	SYMSV_ABS	= 00000004
RDXS_V_BINARY	= 00000000	SYMSV_ASN	= 00000008
RDXS_V_DECIMAL	= 00000002	SYMSV_CRFO	= 0000000D
RDXS_V_DOUBLE	= 00000005	SYMSV_DEBUG	= 00000005
RDXS_V_FLOAT	= 00000004	SYMSV_DEF	= 00000000
RDXS_V_GFLOAT	= 00000006	SYMSV_DELMAC	= 00000009
RDXS_V_HEX	= 00000003	SYMSV_EPT	= 00000009
RDXS_V_HFLOAT	= 00000007	SYMSV_EXTRN	= 00000003
RDXS_V_OCTAL	= 00000001	SYMSV_GLOBL	= 00000002
REGS_PC	= 0000000F	SYMSV_LOCAL	= 00000006
RRREG	= 00000031	SYMSV_ODBG	= 0000000A
SEMI	= 0000003B	SYMSV_REF	= 00000007
SIZ...	= 00000001	SYMSV_RELPSECT	= 0000000B
SPECIAL	= 80000000	SYMSV_SUPR	= 0000000E
STBSK_PG_MISS	= 0000000A	SYMSV_WEAK	= 00000001
SUM_B_FLAGS	0000001C	SYMSV_XCRF	= 0000000C
SUM_K_BLN	0000001D	SYMSW_FLAG	00000009
SUM_L_ISDATA	00000004	TAB	= 00000009
SUM_L_STS	00000000	X1	= 00000400
SUM_M_AUDIT	= 00000001	X2	= 0000000F
SUM_M_AUDITNEW	= 00000002		
SUM_M_DELETE	= 00000010		
SUM_M_SRCUPD	= 00000004		
SUM_M_SUBCLSH	= 00000008		
SUM_Q_AUDDS	00000008		
SUM_Q_FILESP	00000010		
SUM_V_AUDIT	= 00000000		
SUM_V_AUDITNEW	= 00000001		
SUM_V_DELETE	= 00000004		
SUM_V_SRCUPD	= 00000002		
SUM_V_SUBCLSH	= 00000003		
SUM_W_INSERT_NO	0000001A		

-----  
! Psect synopsis !  
-----

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
. BLANK .	00000000 ( 0.)	01 ( 1.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
\$ABSS	0000003C ( 60.)	02 ( 2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
MAC\$CHR_FLG_TAB	00000100 ( 256.)	03 ( 3.)	NOPIC USR CON REL GBL NOSHR NOEXE RD NOWRT NOVEC LONG
MAC\$CHRTAB	00000400 ( 1024.)	04 ( 4.)	NOPIC USR CON REL GBL NOSHR NOEXE RD NOWRT NOVEC LONG
MAC\$RO_DATA	00000094 ( 148.)	05 ( 5.)	NOPIC USR CON REL GBL NOSHR NOEXE RD NOWRT NOVEC LONG
MAC\$RW_DATA	0000093E ( 2366.)	06 ( 6.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
MAC\$PARSE_DATA	000005B8 ( 1464.)	07 ( 7.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
MAC\$LISTING_BUF	00000426 ( 1062.)	08 ( 8.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
MAC\$PAGE_HEADER	00000108 ( 264.)	09 ( 9.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
MAC\$PRO_TIMES	000000B4 ( 180.)	0A ( 10.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG

-----  
! Performance indicators !  
-----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.07	00:00:00.93
Command processing	108	00:00:00.46	00:00:02.84
Pass 1	324	00:00:10.23	00:00:38.89
Symbol table sort	0	00:00:00.96	00:00:04.04
Pass 2	151	00:00:01.88	00:00:06.94
Symbol table output	65	00:00:00.31	00:00:00.82
Psect synopsis output	3	00:00:00.04	00:00:00.04
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	683	00:00:13.96	00:00:54.52

The working set limit was 1800 pages.  
68561 bytes (134 pages) of virtual memory were used to buffer the intermediate code.  
There were 50 pages of symbol table space allocated to hold 1008 non-local and 0 local symbols.  
581 source lines were read in Pass 1, producing 54 object records in Pass 2.  
18 pages of virtual memory were used to define 17 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
-\$255\$DUA28:[SHRLIB]SUM.MLB;1	3
-\$255\$DUA28:[MACRO.OBJ]MACRO.MLB;1	5
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	8
TOTALS (all libraries)	16

943 GETS were required to define 16 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:DATA/OBJ=OBJ\$:DATA MSRC\$:DATA/UPDATE=(ENH\$:DATA)+LIB\$:MACRO/LIB+SHRLIB\$:SUM/LIB

The image displays a grid of 100 small terminal window screenshots, arranged in a 10x10 grid. Each window shows a different VAX/VMS command and its output. The windows are arranged in a grid, with some windows clearly legible and labeled with their command names. The labels are as follows:

- DATA LIS (top-left)
- DEFINE LIS (middle-left)
- FLOAT LIS (middle-right)
- ERRMSG LIS (lower-middle)
- GETARG LIS (lower-right)
- DATA LIS (bottom-left)
- INPUT LIS (bottom-right)
- ERROR LIS (bottom-center)
- FINISH LIS (bottom-center)
- GETCMD LIS (bottom-center)

The other windows in the grid show various system outputs, including file listings, directory structures, and command execution results. The text is small and dense, typical of a terminal window output.