





DEVICEDAT  
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0000 1 .TITLE DEVICEDAT - VAX/VMS SYSTEM PERMANENT DEVICE DATABASE
0000 2 .IDENT 'V04-001'
0000 3
0000 4 *****
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0000 23 *
0000 24 *
0000 25 *****
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0000 27 ++
0000 28 FACILITY:
0000 29
0000 30 VAX/VMS I/O SUBSYSTEM
0000 31
0000 32 ABSTRACT:
0000 33
0000 34 SYSTEM PERMANENT DEVICE DATABASE
0000 35
0000 36 AUTHOR:
0000 37 R.HEINEN 3-AUG-76
0000 38
0000 39 MODIFIED BY:
0000 40
0000 41 V04-001 BLS0351 Benn Schreiber 6-SEP-1984
0000 42 Must dpt_store fields for cloneable opa ucb.
0000 43
0000 44 V03-023 WHM0003 Bill Matthews 19-Jul-1984
0000 45 Make OPA$IDB global for use by OPDRVWS1.
0000 46
0000 47 V03-022 LMP0275 L. Mark Pilant, 12-Jul-1984 19:51
0000 48 Initialize the ACL info in the ORB to be a null descriptor
0000 49 list rather than an empty queue. This avoids the overhead
0000 50 of locking and unlocking the ACL mutex, only to find out
0000 51 that the ACL was empty.
0000 52
0000 53 V03-021 CDS0003 Christian D. Saether 1-May-1984
0000 54 Reflect change of wcb size in net$wcb.
0000 55
0000 56 V03-020 EMD0092 Ellen M. Dusseault 30-Apr-1984
0000 57 Add DEV$M_NNM characteristic to DEVCHAR2 for the
```

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0000 58 : console and mailbox devices so that they will have
0000 59 : the prefix 'node$'.
0000 60 :
0000 61 : V03-019 LMP0221 L. Mark Pilant, 30-Mar-1984 12:35
0000 62 : Move UCB protection information to the Object's Rights Block.
0000 63 :
0000 64 : V03-018 PRD0072 Paul R. DeStefano 27-Feb-1984
0000 65 : Add SB$L_CSB (link to newest Cluster System Block)
0000 66 : to permanent local system block.
0000 67 :
0000 68 : V03-017 WHM0002 Bill Matthews 27-Feb-1984
0000 69 : Add support for 4 units in the OPA IDB for VENUS.
0000 70 :
0000 71 : V03-016 WHM0001 Bill Matthews 6-Feb-1984
0000 72 : Add support for new IDB fields for combo style devices.
0000 73 :
0000 74 : V03-015 LMP0185 L. Mark Pilant, 1-Feb-1984 9:08
0000 75 : Add support for device ACLs.
0000 76 :
0000 77 : V03-014 MMD0224 Meg Dumont, 23-Jan-1984 10:15
0000 78 : Add longword to store the Asynch DDCMP driver DPT
0000 79 :
0000 80 : V03-013 JLV0319 Jake VanNoy 16-DEC-1983
0000 81 : Add TTY$GL_JOBCTLMB, SYSS$GL_UIS, UISS$GL_USB, and
0000 82 : SYSS$GL_FALSEBACK.
0000 83 :
0000 84 : V03-012 TCM0001 Trudy C. Matthews 12-Sep-1983
0000 85 : Initialize the boot device's UCBSW REFC field to 1. This
0000 86 : prevents $ASSIGN from trying to take out a lock on the
0000 87 : system disk before locking is enabled.
0000 88 :
0000 89 : V03-011 CWH3001 CW Hobbs 5-Jul-1983
0000 90 : Increase size of operator mailbox (MBA2:) to 2560
0000 91 : byte maximum messages. This will support the security
0000 92 : message of 2048 bytes + various headers rounded up to
0000 93 : nearest page.
0000 94 :
0000 95 : V03-010 RLRDPORT Robert L. Rappaport 25-May-1983
0000 96 : Increase size of Boot Device UCB.
0000 97 :
0000 98 : V03-009 ROW0187 Ralph O. Weber 30-APR-1983
0000 99 : Increase default buffer size of null device from 132
0000 100 : to 512 bytes.
0000 101 :
0000 102 : V03-008 ROW0172 Ralph O. Weber 10-APR-1983
0000 103 : Change null device UCB device type to DT$_NULL.
0000 104 :
0000 105 : V03-007 DWT0066 David W. Thiel 20-Jan-1983
0000 106 : Update definition of the local system block.
0000 107 :
0000 108 : V03-006 MIR0022 Michael I. Rosenblum 19-Jan-1983
0000 109 : Change Console terminal port vector table to use the
0000 110 : new vector creation macros.
0000 111 :
0000 112 : V03-005 KTA3022 Kerbey T. Altmann 29-Dec-1982
0000 113 : Add permanent local system block.
0000 114 :

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0000 115 :      V03-004 CDS0002      Christian D. Saether      27-Dec-1982
0000 116 :      Reflect move of WCB cells in NET$WCB:..
0000 117 :
0000 118 :      V03-003 CDS0001      Christian D. Saether      13-Dec-1982
0000 119 :      Fix problems with WCB growing a longword.
0000 120 :
0000 121 :      V03-002 ROW0123      Ralph O. Weber           12-SEP-1982
0000 122 :      Fix UCB macro so that it needs no ASSUMEs.  Have it use
0000 123 :      $UCBDEF constants an .BLKBs to define fill space rather than
0000 124 :      numeric constants.
0000 125 :
0000 126 :      V03-001 BLS0183      Benn Schreiber           25-Aug-1982
0000 127 :      Reorganize OPA0: data structures for loadable console
0000 128 :      terminal support.
0000 129 :      --
0000 130 :
0000 131 :      SYMBOL DEFINITIONS
0000 132 :
0000 133 :
0000 134 :      $CRBDEF              : DEFINE CRB
0000 135 :      $DCDEF              : DEFINE DEVICE CLASSES
0000 136 :      $DDBDEF            : DEFINE DDB
0000 137 :      $DEVDEF            : DEFINE DEVICE CHARACTERISTICS
0000 138 :      $DYNDEF            : STRUCTURE TYPE CODE DEFINITIONS
0000 139 :      $IDBDEF            : DEFINE IDB
0000 140 :      $IPLDEF            : DEFINE IPL LEVELS
0000 141 :      $IRPDEF            : DEFINE IRP OFFSETS
0000 142 :      $ORBDEF            : OBJECT'S RIGHTS BLOCK OFFSETS
0000 143 :      $SBDEF             :
0000 144 :      $TTDEF             : DEFINE TERMINAL CHARACTERISTICS
0000 145 :      $UCBDEF            : DEFINE UCB
0000 146 :      $TTYDEFS           : TTY UCB extension (must FOLLOW $UCBDEF)
0000 147 :      $TTYMACS           : THE TERMINAL DRIVER MACRO DEFINITIONS
0000 148 :      $VECDEF            : DEFINE CRB VECTOR
0000 149 :      $WCBDEF            : Define WCB
0000 150 :
0000 151 :
0000 152 :      LOCAL MACROS
0000 153 :
0000 154 :      .MACRO ORB          LABEL,?EN,?ACL
0000 155 :      ORBASE=.
0000 156 :      LABEL::
0000 157 :      .LONG              0
0000 158 :      .WORD              -1,0                      ; ACL MUTEX INITIALIZATION
0000 159 :      .WORD              EN-LABEL
0000 160 :      .BYTE              DYN$C_ORB
0000 161 :      .BYTE              ORB$M_PROT 16
0000 162 :      .BLKB              ORB$K_LENGTH - <. - LABEL>
0000 163 :      EN:
0000 164 :      .ENDM
0000 165 :
0000 166 :      .MACRO STO_ORB OFFSET,SIZE,VALUE
0000 167 :      X=.
0000 168 :      .=ORB$M_PROT+ORB$K_LENGTH+OFFSET
0000 169 :      .'SIZE' VALUE
0000 170 :      .=X
0000 171 :      .ENDM

```







```
0024 264 .SBTTL PERMANENT LOCAL SCS SYSTEM BLOCK
0024 265 :
0024 266 : LOCAL SB
0024 267 :
0024 268 SCS$GA_LOCALSB::
00000000' 0024 269 .LONG SCS$GQ_CONFIG ; SB$L_FLINK
00000000' 0028 270 .LONG SCS$GQ_CONFIG ; SB$L_BLINK
0060 002C 271 .WORD SB$K_LENGTH ; SB$W_SIZE
60 002E 272 .BYTE DYN$C_SCS ; SB$B_TYPE
07 002F 273 .BYTE DYN$C_SCS_SB ; SB$B_SUBTYP
0030 274 ASSUME SB$L_PBFL EQ 12
00000030' 0030 275 10$: .LONG 10$ ; SB$L_PBFL
00000030' 0034 276 .LONG 10$ ; SB$L_PBBL
0038 277 ASSUME SB$L_PBCONNX EQ 20
00000000 0038 278 .LONG 0 ; SB$L_PBCONNX
00000000 003C 279 ASSUME SB$B_SYSTEMID EQ 24
00000000 003C 280 .QUAD 0 ; SB$B_SYSTEMID
0044 281 ASSUME SB$W_MAXDG EQ 32
00000000 0044 282 .LONG 0 ; SB$W_MAXDG
0048 283 ; SB$W_MAXMSG
0048 284 ASSUME SB$T_SWTYPE EQ 36
00000000 0048 285 .LONG 0 ; SB$T_SWTYPE
004C 286 ASSUME SB$T_SWVERS EQ 40
00000000 004C 287 .LONG 0 ; SB$T_SWVERS
0050 288 ASSUME SB$Q_SWINCARN EQ 44
00000000 0050 289 .QUAD 0 ; SB$Q_SWINCARN
0058 290 ASSUME SB$T_HWTYPE EQ 52
00000000 0058 291 .LONG 0 ; SB$T_HWTYPE
005C 292 ASSUME SB$B_HWVERS EQ 56
00000068 005C 293 .BLKB 12 ; SB$B_HWVERS
0068 294 ASSUME SB$T_NODENAME EQ 68
00000078 0068 295 .BLKB 16 ; SB$T_NODENAME
0078 296 ASSUME SB$L_DDB EQ 84
0078 297 :
0078 298 : SYSTEM DEVICE DATA BLOCK (DDB) LIST HEAD (NOTE: PART OF THE SB!!!)
0078 299 :
0078 300 IOC$GL_DEVLIST::
0000008C' 0078 301 .LONG SYS$GL_BOOTDDB ; START DEVICE LIST AT BOOT DEVICE
007C 302 ; SB$L_DDB
007C 303
007C 304 ASSUME SB$W_TIMEOUT EQ 88
FFFE 007C 305 .WORD -2 ; LOOKS LIKE TIMEOUT IS IN PROGRESS
007E 306 ASSUME SB$B_ENBMSK EQ 90
00000080 007E 307 .BLKB SB$S_ENBMSK ; PROCESS POLL ENABLE MASK
0080 308
0080 309 ASSUME SB$L_CSB EQ 92
00000000 0080 310 .LONG 0 ; SB$L_CSB
0084 311
00000084 0084 312 .BLKB SB$K_LENGTH-<.-SCS$GA_LOCALSB> ; SPACE FOR REMAINING FIELDS
0084 313
0000008C 0084 314 .BLKB 8 ; Future expansion
```

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008C 316 .SBTTL SYSTEM BOOT DEVICE DATABASE
008C 317 :
008C 318 : BOOT DEVICE DDB
008C 319 :
008C 320 : DDB SYSSGL_BOOTDDB,OPASGL_DDB,SYSSGL_BOOTUCB,0,<F11>,1
008C 321 :
008C 322 : UCB FOR SYSTEM BOOT DEVICE
008C 323 :
008C 324 :
008C 325 :
008C 326 : NOTE - THE UCB FOR THE BOOT DEVICE IS CREATED WITH A REFERENCE COUNT OF 1
008C 327 : TO AVOID HAVING THE FIRST $ASSIGN TRY TO TAKE OUT A LOCK ON IT BEFORE
008C 328 : LOCKING IS ENABLED.
008C 329 :
008C 330 ORB SYSSGL_BOOTORB
0128 331 STO_ORB L_OWNER, LONG, <^X010001>
0128 332 UCB SYSSGL_BOOTUCB, 40, SYSSGL_BOOTORB
0258 333 STO_UCB B_FIPL, BYTE, 8
0258 334 STO_UCB B_DIPL, BYTE, 21
0258 335 STO_UCB L_DDB, LONG, SYSSGL_BOOTDDB
0258 336 STO_UCB L_DEVCHAR, LONG, <<DEVSM_FOD!-
0258 337 DEVSM_DIR!-
0258 338 DEVSM_AVL!-
0258 339 DEVSM_ELG!-
0258 340 DEVSM_SHR!-
0258 341 DEVSM_IDV!-
0258 342 DEVSM_ODV!-
0258 343 DEVSM_RND>>
0258 344 STO_UCB B_DEVCLASS, BYTE, DC$_DISK
0258 345 STO_UCB W_DEVBUSIZ, WORD, 512
0258 346 STO_UCB B_ERTCNT, BYTE, 8
0258 347 STO_UCB B_ERTMAX, BYTE, 8
0258 348 STO_UCB W_REFC, WORD, 1
0258 349

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0258 351 .SBTTL SYSTEM CONSOLE DEVICE DATABASE
0258 352 :
0258 353 : CONSOLE TERMINAL DDB
0258 354 :
0258 355 : DDB OPASGL_DDB,MBSGL_DDB,OPASUCBO,,,0,<OPA>,<OPERATOR>
029C 356 :
029C 357 : CONSOLE DPT
029C 358 :
029C 359 :
029C 360 : THE UCB SIZE INCLUDES 3 BYTES FOR ROUNDUP, AND 64 BYTES OF EXTRA
029C 361 : SPACE TO ALLOW INCREASING UCB SIZE WITHOUT NEEDING TO BUILD A NEW
029C 362 : SYS.
029C 363 :
00000000 364 .PSECT $$$105_PROLOGUE,RD,WRT,BYTE ; Ensure OP$DPT label points to DPT
0000 365 OP$DPT::
0000029C 366 .PSECT $$$100,QUAD,WRT ; (DPTAB macro puts DPTAB in $$$105_
029C 367 DPTAB
029C 368 -
029C 369 END=OP DPTEND,- ;FAKE ADAPTER
029C 370 ADAPTER=UBA,-
029C 371 UCBSIZE=<<<UCB$C_TT_LENGTH+3+64>/4>*4>,-
029C 372 NAME=OPERATOR,-
029C 373 VECTOR=OPASVECTOR
0038 374
0038 375 DPT_STORE INIT
0038 376 DPT_STORE UCB,UCB$C_TT_DECHAR,@L,TTY$GL_DEFCHAR ; DEFAULT CHARACTERISTICS
003F 377 DPT_STORE UCB,UCB$C_TT_DECHA1,@L,TTY$GL_DEFCHAR2
0046 378 DPT_STORE UCB,UCB$C_DEVDEPEND,@L,TTY$GL_DEFCHAR
004D 379 DPT_STORE UCB,UCB$C_TT_DEVDPI,@L,TTY$GL_DEFCHAR2
0054 380 DPT_STORE UCB,UCB$B_FIPL,B,8 ; FORK IPL
0058 381 DPT_STORE UCB,UCB$B_DIPL,B,20 ; DEVICE IPL
005C 382 DPT_STORE UCB,UCB$C_DEVCHAR,L,<-; CHARACTERISTICS
005C 383 DEV$M_REC!-
005C 384 DEV$M_AVL!-
005C 385 DEV$M_IDV!-
005C 386 DEV$M_ODV!-
005C 387 DEV$M_TRM!-
005C 388 DEV$M_CCL>
0063 389 DPT_STORE UCB,UCB$C_DEVCHAR2,L,<-; DEVICE CHARACTERISTICS
0063 390 <DEV$M_NNM> ; PREFIX WITH 'NODE$'
006A 391 DPT_STORE UCB,UCB$B_DEVCLASS,B,DC$ TERM
006E 392 DPT_STORE UCB,UCB$B_DEVTYPE,B,TT$ UNKNOW ; TYPE
0072 393 DPT_STORE UCB,UCB$W_DEVBUFSIZ,W,132 ; BUFFER SIZE
0077 394 DPT_STORE UCB,UCB$W_STS,W,UCB$M_ONLINE ; Device comes up online
007C 395 DPT_STORE UCB,UCB$W_TT_DESIZE,W,132 ; BUFFER SIZE
0081 396 DPT_STORE UCB,UCB$W_TT_SPEED,W,TT$C_BAUD_300 ; DEFAULT SPEED
0086 397 DPT_STORE UCB,UCB$B_TT_DETYPE,B,TT$ LA36 ; TYPE
008A 398 DPT_STORE UCB,UCB$W_TT_DESPEE,W,TT$C_BAUD_300 ;
008F 399 DPT_STORE ORB,ORB$B_FLAGS,B,-
008F 400 <ORB$M_PROT 16> ; SOGW protection word
0093 401 DPT_STORE ORB,ORB$W_PROT,@W,TTY$GW_PROT ; Default protection
009A 402 DPT_STORE UCB,UCB$W_STS,W,UCB$M_ONLINE ; Device comes up online
009F 403
009F 404 DPT_STORE REINIT ; Is this needed?
009F 405 DPT_STORE END
000000A0 406 .PSECT $$$105_PROLOGUE,RD,WRT,BYTE ; Put OP_DPTEND label in cor
00A. 407 OP_DPTEND:

```

```
00A0 408
00A0 409
00A0 410 : CONSOLE PORT DISPATCH VECTOR. THIS VECTOR IS USED BY THE TERMINAL CLASS
00A0 411 : DRIVER TO ACCESS PORT FUNCTIONS. EACH ELEMENT IN THIS VECTOR POINTS
00A0 412 : TO A LOCATION IN SYSLOAVEC. THIS MUST BE IN SAME PSECT AS OP$DPT TO
00A0 413 : GUARANTEE THAT A POSITIVE VECTOR OFFSET IS STORED IN DPT
00A0 414
00A0 415 OP$VECTOR::
00A0 416 $VECINI OPA,CON$NULL
00D8 417 $VEC STARTIO,CON$STARTIO ; START ROUTINE
00A4 418 $VEC DISCONNECT,CON$DISCONNECT ; DISCONNECT ROUTINE
00A8 419 $VEC SET_LINE,CON$SET_LINE ; SET LINE ROUTINE
00AC 420 $VEC DS_SET,CON$DS_SET ; DATA SET ROUTINE
00B0 421 $VEC XON,CON$XON ; XON ROUTINE
00B4 422 $VEC XOFF,CON$XOFF ; XOFF ROUTINE
00B8 423 $VEC STOP,CON$STOP ; STOP ROUTINE
00BC 424 $VEC STOP2,CON$STOP2 ; STOP2 ROUTINE
00C0 425 $VEC ABORT,CON$ABORT ; ABORT ROUTINE
00C4 426 $VEC RESUME,CON$RESUME ; RESUME ROUTINE
00C8 427 $VEC SET_MODEM,CON$SET_MODEM ; SET MODEM ROUTINE
00CC 428 $VECEND
00DC 429
0000029C 430 .PSECT $$$100,QUAD,WRT
029C 431 :
029C 432 : CONSOLE UCB
029C 433 :
029C 434 ORB OP$ORBO
02F4 435 STO ORB L_OWNER, LONG, <^X010001>
02F4 436 UCB OP$UCBO, <UCB$C TT_LENGTH - UCB$C_LENGTH + 3 + 64> / 4, OP$ORBO
0468 437 STO_UCB B_FIPL, BYTE, 8
0468 438 STO_UCB B_DIPL, BYTE, 20
0468 439 STO_UCB L_CRB, LONG, OP$CRB
0468 440 STO_UCB L_DDB, LONG, OP$GL_DDB
0468 441 STO_UCB L_DEVCHAR, LONG, <<DEV$M_REC!-
0468 442 DEV$M_AVL!-
0468 443 DEV$M_CCL!-
0468 444 DEV$M_TRM!-
0468 445 DEV$M_IDV!-
0468 446 DEV$M_ODV>>
0468 447 STO_UCB L_DEVCHAR2, LONG, <<DEV$M_NNM>>
0468 448 STO_UCB B_DEVCLASS, BYTE, DCS_TERM
0468 449 STO_UCB B_DEVTYPE, BYTE, DTS_CA36
0468 450 STO_UCB W_DEVBUFSIZ, WORD, 132
0468 451 STO_UCB W_STS, WORD, UCBSM_ONLINE
0468 452 STO_UCB L_DEVDEPEND, LONG, <<TT$M_LOWER!TT$M_TTSYNC!TT$M_WRAP>>
0468 453 STO_UCB L_DEVDEPEND+3, BYTE, 24
0468 454 STO_UCB W_TT_DESIZE, WORD, 132
0468 455 STO_UCB L_TT_DECHAR, LONG, <<TT$M_LOWER!TT$M_TTSYNC!TT$M_WRAP>>
0468 456 STO_UCB L_TT_DECHAR+3, BYTE, 24
0468 457 STO_UCB W_TT_SPEED, WORD, TT$C_BAUD_300
0468 458 STO_UCB B_TT_DETYPE, BYTE, TT$LA36
0468 459 STO_UCB W_TT_DESPEE, WORD, TT$C_BAUD_300
0468 460 :
0468 461 : CONSOLE CRB
0468 462 :
00000000 00000000 0468 463 OP$CRB::
0468 464 .LONG 0,0 ;
```

0054'	0470	465	.WORD	CD-OPASCRB		; SIZE
05	0472	466	.BYTE	DYN\$C_CRB		; TYPE IS CRB
00	0473	467	.BYTE	0		; UNUSED
00000001	0474	468	.LONG	1		; REF COUNT=1 AND NEVER BUSY
	0478	469	ASSUME	CRB\$SL_AUXSTRUC	EQ 16	
00000000	0478	470	.LONG	0		; Auxiliary structure ptr.
	047C	471				
	047C	472	ASSUME	CRB\$SL_TIMELINK	EQ 20	
00000000	047C	473	.LONG	0		; CRB thread for periodic wakeups.
	0480	474				
	0480	475	ASSUME	CRB\$SL_DUETIME	EQ 24	
00000000	0480	476	.LONG	0		; Time when to periodically awaken
	0484	477				
	0484	478	ASSUME	CRB\$SL_TOUTROUT	EQ 28	
00000000	0484	479	.LONG	0		; Routine to call at periodic awakening
	0488	480				
	0488	481	ASSUME	CRB\$SL_LINK	EQ 32	
00000000	0488	482	.LONG	0		; NO NEXT CRB
	048C	483	CONSINTDISI::			
	048C	484	ASSUME	CONSINTDISI-OPASCRB	EQ CRB\$SL_INTD	
	048C	485				
	048C	486	ASSUME	VECSQ_DISPATCH	EQ 0	
00000000	3F BB 048C	487	PUSHR	#*M<R0,R1,R2,R3,R4,R5>		; SAVE REGISTERS
	GF 16 048E	488	JSB	G*CONSINTINP		; INPUT INTERRUPT SERVICE
	0494	489				
	0494	490	ASSUME	VECSL_IDB	EQ 8	
000004BC'	0494	491	.LONG	OPASIDB		; POINTER TO IDB
	0498	492				
	0498	493	ASSUME	VECSL_INITIAL	EQ 12	
00000000'	0498	494	.LONG	CONSINITIAL		; INITIALIZE CONTROLLER ENTRY POINT
	049C	495				
	049C	496	ASSUME	VECSW_MAPREG	EQ 16	
	049C	497	ASSUME	VECSB_NUMREG	EQ 18	
	049C	498	ASSUME	VECSB_DATAPATH	EQ 19	
00000000	049C	499	.LONG	0		; MAP AND DATA PATH ALLOCATION CONTROL
	04A0	500				
	04A0	501	ASSUME	VECSL_ADP	EQ 20	
00000000	04A0	502	.LONG	0		; ADDRESS OF ADP
	04A4	503				
	04A4	504	ASSUME	VECSL_UNITINIT	EQ 24	
00000000'	04A4	505	.LONG	CONSINITLINE		; INITIALIZE UNIT
	04A8	506				
	04A8	507	ASSUME	VECSL_START	EQ 28	
00000000	04A8	508	.LONG	0		; UNUSED LONGWORD
	04AC	509				
	04AC	510	ASSUME	VECSL_UNITDISC	EQ 32	
00000000	04AC	511	.LONG	0		; UNUSED LONGWORD
	04B0	512	ASSUME	VECSK_LENGTH	EQ 36	
	04B0	513				
	04B0	514	CONSINTDISO::			
	04B0	515	ASSUME	CONSINTDISO-OPASCRB	EQ CRB\$SL_INTD2	
	04B0	516				
	04B0	517	ASSUME	VECSQ_DISPATCH	EQ 0	
00000000	3F BB 04B0	518	PUSHR	#*M<R0,R1,R2,R3,R4,R5>		; SAVE REGISTERS
	GF 16 04B2	519	JSB	G*CONSINTOUT		; OUTPUT INTERRUPT SERVICE
	000004BC' 04B8	520	.LONG	OPASIDB		; POINTER TO IDB
	04BC	521				

```

04BC 522          ASSUME  VEC$$_IDB      EQ  8
04BC 523 CD:
04BC 524
04BC 525 :
04BC 526 : CONSOLE IDB
04BC 527 :
04BC 528 OPASIDB::
00000000 04BC 529          ASSUME  IDB$_CSR      EQ  0
04BC 530          .LONG  0                ; CSR ADDRESS
04C0 531
04C0 532          ASSUME  IDB$_OWNER     EQ  4
00000000 04C0 533          .LONG  0                ; OWNER UCB ADDRESS
0030 04C4 534          .WORD  ID-OPASIDB    ; SIZE OF IDB
09 04C6 535          .BYTE  DYN$$_IDB    ; TYPE OF STRUCTURE
00 04C7 536          .BYTE  0                ; UNUSED
04C8 537
0005 04C8 538          ASSUME  IDB$_UNITS   EQ 12
04C8 539          .WORD  5                ; NUMBER OF UNITS
00 04CA 540          .BYTE  0                ; TT ENABLE
00 04CB 541          .BYTE  0                ; CSR OFFSET TO MAIN CSR FOR COMBO STYLE DEV
04CC 542
04CC 543          ASSUME  IDB$_COMBO_VECTOR_OFFSET EQ 16
00 04CC 544          .BYTE  0                ; VECTOR OFFSET TO MAIN VECTOR FOR COMBO STY
00 04CD 545          .BYTE  0                ; UNUSED
0000 04CE 546          .WORD  0                ; UNUSED
04D0 547
00000000 04D0 548          ASSUME  IDB$_ADP      EQ 20
04D0 549          .LONG  0                ; ADAPTER ADDRESS
04D4 550
04D4 551          ASSUME  IDB$_UCBLST   EQ 24
000002F4 04D4 552          .LONG  OPASUCBO    ; UNIT 0 UCB ADDRESS
00000000 04D8 553          .LONG  0                ; UNIT 1 UCB ADDRESS (FLOPPY)
00000000 04DC 554          .LONG  0                ; UNIT 1 INPUT UCB ADDRESS (FLOPPY)
00000000 04E0 555          .LONG  0                ; UNIT 3 USED BY VENUS ONLY
00000000 04E4 556          .LONG  0                ; UNIT 4 (RESERVED)
00000000 04E8 557          .LONG  0                ; UNIT 5 (RESERVED)
04EC 558 ID:
  
```

```
04EC 560 .SBTTL SYSTEM PERMANENT MAILBOX DATABASE
04EC 561
04EC 562 :
04EC 563 : MAILBOX DDB
04EC 564 :
04EC 565 DDB MBSGL_DDB,NLSGL_DDB,MBSGL_UCB1,MB$DDT,,0,<MBA>,<MBDRIVER>
0530 566 :
0530 567 : CLONE MAILBOX UCB
0530 568 :
0530 569 :
0530 570 : NOTE THAT THIS UCB IS NOT IN THE DDB'S UCB LIST
0530 571 :
0530 572 ORB MBSORBO
0588 573 STO_ORB L_OWNER, LONG, <^X010001>
0588 574 UCB MBSUCBO, 0, MBSORBO
0618 575 STO_UCB W_MB_SEED, WORD, 0
0618 576 STO_UCB B_FIPL, BYTE, IPL$_MAILBOX
0618 577 STO_UCB B_DIPL, BYTE, IPL$_MAILBOX
0618 578 STO_UCB W_MSGMAX, WORD, 20
0618 579 STO_UCB W_BUFQUO, WORD, -1
0618 580 STO_UCB L_CRB, LONG, SYS_CRB
0618 581 STO_UCB L_DDB, LONG, MBSGL_DDB
0618 582 STO_UCB L_LINK, LONG, MBSGL_UCB1
0618 583 STO_UCB L_DEVCHAR, LONG, <<DEVSM_REC!-
0618 584 DEVSM_AVL!-
0618 585 DEVSM_IDV!-
0618 586 DEVSM_MBX!-
0618 587 DEVSM_ODV!-
0618 588 DEVSM_SHR>>
0618 589 STO_UCB L_DEVCHAR2, LONG, <<DEVSM_NNM>>
0618 590 STO_UCB B_DEVCLASS, BYTE, DCS_MAILBOX
0618 591 STO_UCB B_DEVTYPE, BYTE, DTS_MBX
0618 592 STO_UCB W_DEVBUFSIZ, WORD, 256
0618 593 STO_UCB W_REFC, WORD, 1
0618 594 STO_UCB W_UNIT, WORD, 0
0618 595 STO_UCB W_STS, WORD, UCBSM_ONLINE
0618 596 STO_UCB W_DEVSTS, WORD, UCBSM_PRMMBX
0618 597 STO_UCB L_DDT, LONG, MB$DDT
00000090 0618 598 MBSMBO_END:
0618 599 S$SSC_MBXUCBSIZ == <MBSMBO_END - MBSUCBO>
0618 600 :
0618 601 :
0618 602 : SYSTEM JOB CONTROLLER MAILBOX
0618 603 :
31414240 0618 604 SYS$GL_JOBCTLMB::
0618 605 SYS$C_JOBCTLMB==^A/MBA1/
0618 606 UCB MBSGL_UCB1, 0, MBSGL_ORB1
06A8 607 STO_UCB L_FQFL, LONG, MBSGL_UCB1
06A8 608 STO_UCB L_FQFL+4, LONG, MBSGL_UCB1
06A8 609 STO_UCB B_FIPL, BYTE, IPL$_MAILBOX
06A8 610 STO_UCB B_DIPL, BYTE, IPL$_MAILBOX
06A8 611 STO_UCB W_MSGMAX, WORD, 60
06A8 612 STO_UCB W_BUFQUO, WORD, -1
06A8 613 STO_UCB L_CRB, LONG, SYS_CRB
06A8 614 STO_UCB L_DDB, LONG, MBSGL_DDB
06A8 615 STO_UCB L_LINK, LONG, MBSGL_UCB2
06A8 616 STO_UCB L_DEVCHAR, LONG, <<DEVSM_REC!-
```

```
06A8 617          DEVSM_AVL!-
06A8 618          DEVSM_MBX!-
06A8 619          DEVSM_IDV!-
06A8 620          DEVSM_ODV!-
06A8 621          DEVSM_SHR>>
06A8 622          STO_UCB L_DEVCHAR2, LONG, <<DEVSM_NNM>>
06A8 623          STO_UCB B_DEVCLASS, BYTE, DCS_MAILBOX
06A8 624          STO_UCB W_DEVBUFSIZ, WORD, 1024
06A8 625          STO_UCB W_REFC, WORD, 1
06A8 626          STO_UCB W_UNIT, WORD, 1
06A8 627          STO_UCB W_STS, WORD, UCBSM_ONLINE
06A8 628          STO_UCB W_DEVSTS, WORD, <UCBSM_PRMMBX+^X08000>
06A8 629          STO_UCB L_DDT, LONG, MB$DDT
06A8 630          ORB          MB$GL_ORB1
0700 631          STO_ORB L_OWNER, 'ONG, <^X010004>
0700 632          STO_ORB W_PROT, WORD, <^XOFFOF>
0700 633          :
0700 634          : SYSTEM OPERATOR MAILBOX
0700 635          :
3241424D 0700 636          SYSSGL_OPRMBX::
0700 637          SYSSC_OPRMBX==^A/MBA2/
0700 638          UCB          MB$GL_UCB2, 0, MB$GL_ORB2
0790 639          STO_UCB L_FQFL, LONG, MB$GL_UCB2
0790 640          STO_UCB L_FQFL+4, LONG, MB$GL_UCB2
0790 641          STO_UCB B_FIPL, BYTE, IPL$_MAILBOX
0790 642          STO_UCB B_DIPL, BYTE, IPL$_MAILBOX
0790 643          STO_UCB W_MSGMAX, WORD, 20
0790 644          STO_UCB W_BUFQUO, WORD, -1
0790 645          STO_UCB L_CRB, LONG, SYS_CRB
0790 646          STO_UCB L_DDB, LONG, MB$GL_DDB
0790 647          STO_UCB L_DEVCHAR, LONG, <?DEVSM_REC!-
0790 648          DEVSM_AVL!-
0790 649          DEVSM_MBX!-
0790 650          DEVSM_IDV!-
0790 651          DEVSM_ODV!-
0790 652          DEVSM_SHR>>
0790 653          STO_UCB L_DEVCHAR2, LONG, <<DEVSM_NNM>>
0790 654          STO_UCB B_DEVCLASS, BYTE, DCS_MAILBOX
0790 655          STO_UCB W_DEVBUFSIZ, WORD, 2560
0790 656          STO_UCB W_REFC, WORD, 1
0790 657          STO_UCB W_UNIT, WORD, 2
0790 658          STO_UCB W_STS, WORD, UCBSM_ONLINE
0790 659          STO_UCB W_DEVSTS, WORD, UCBSM_PRMMBX
0790 660          STO_UCB L_DDT, LONG, MB$DDT
0790 661          ORB          MB$GL_ORB2
07E8 662          STO_ORB L_OWNER, LONG, <^X010004>
07E8 663          STO_ORB W_PROT, WORD, <^XOFFOF>
```



```

07E8 665 .SBTTL NULL DEVICE (NLA) DATABASE
07E8 666 :
07E8 667 : NLA DDB
07E8 668 :
07E8 669 : DDB NLSGL_DDB,0,NLSGL_UCB0,NLSDDT,,0,<NLA>,<NLDRIVER>
082C 670
082C 671 :
082C 672 : NL UCB FOR UNIT 0
082C 673 :
082C 674 ORB NLSGL_ORB0
0884 675 STO_ORB L_OWNER, LONG, <^X010001>
0884 676 UCB NLSGL_UCB0, 0, NLSGL_ORB0
0914 677 STO_UCB B_FIPL, BYTE, 8
0914 678 STO_UCB B_DIPL, BYTE, 8
0914 679 STO_UCB L_CRB, LONG, SYS_CRB
0914 680 STO_UCB L_DDB, LONG, NLSGL_DDB
0914 681 STO_UCB L_DEVCHAR, LONG, <?DEVSM_REC!-
0914 682 DEVSM_AVL!-
0914 683 DEVSM_MBX!-
0914 684 DEVSM_IDV!-
0914 685 DEVSM_ODV!-
0914 686 DEVSM_SHR>>
0914 687 STO_UCB B_DEVCLASS, BYTE, DCS_MAILBOX
0914 688 STO_UCB B_DEVTYPE, BYTE, DTS_NULL
0914 689 STO_UCB W_DEVBUFSIZ, WORD, 512
0914 690 STO_UCB W_REFC, WORD, 1
0914 691 STO_UCB W_UNIT, WORD, 0
0914 692 STO_UCB W_STS, WORD, UCBSM_ONLINE
0914 693 STO_UCB L_DDT, LONG, NLSDDT
  
```

```

0914 695 .SBTTL NETWORK DEVICE DATABASE
0914 696 :
0914 697 : NETWORK DEVICE DATA BLOCK
0914 698 :
0914 699 :
0914 700 : NETWORK WINDOW CONTROL BLOCK - SHARED BY ALL UCB'S
0914 701 :
0914 702 NET$WCB::
00000000 0914 703 .LONG 0 ; WFL
00000000 0918 704 .LONG 0 ; WLBL
0030' 091C 705 .WORD 10$-NET$WCB ; SIZE
12 091E 706 .BYTE DYN$C_WCB ; CALL IT A WCB
091F 707
00 091F 708 ASSUME WCB$B_ACCESS EQ 11
091F 709 .BYTE 0 ; ACCESS BITS
0920 710
00000000 0920 711 ASSUME WCB$S_PID EQ 12
0920 712 .LONG 0 ; PID
0924 713
00000000 0924 714 ASSUME WCB$S_ORGUCB EQ 16
0924 715 .LONG 0 ; ORGUCB
0928 716
0928 717 ASSUME WCB$W_ACON EQ 20
0928 718 ASSUME WCB$W_NMAP EQ 22
00000000 0928 719 .LONG 0 ; ACON AND NMAP
092C 720
00000000 092C 721 ASSUME WCB$S_FCB EQ 24
092C 722 .LONG 0 ; FCB
0930 723
00000000 0930 724 ASSUME WCB$S_RVT EQ 28
0930 725 .LONG 0 ; RVT
0934 726
00000000 0934 727 ASSUME WCB$S_LINK EQ 32
0934 728 .LONG 0 ; LINK
0938 729
00000000 0938 730 ASSUME WCB$S_READS EQ 36
0938 731 .LONG 0 ; READS EXECUTED
093C 732
00000000 093C 733 ASSUME WCB$S_WRITES EQ 40
093C 734 .LONG 0 ; WRITES EXECUTED
0940 735
00000000 0940 736 ASSUME WCB$S_STVBN EQ 44
0940 737 .LONG 0 ; ACCESS LOCK ID
0944 738 ASSUME WCB$K_LENGTH EQ 48
0944 739 10$:
0944 740 :
0944 741 :
0944 742 : COMMON CRB FOR MAILBOX TYPE DEVICES
0944 743 :
0944 744 SYS_CRB:
00000000 00000000 0944 745 .LONG 0,0 ; CRB LIST HEAD
0048' 094C 746 .WORD 10$-SYS_CRB ; SIZE
05 094E 747 .BYTE DYN$C_CRB ; TYPE
00 094F 748 .BYTE 0 ; SPARE BYTE
00000000 0950 749 .LONG 0 ; REF COUNT
00000000 0954 750 ASSUME CRB$S_AUXSTRUC EQ 16
0954 751 .LONG 0 ; Auxiliary structure ptr.
    
```



DEVICEDAT  
Symbol table

\$\$\$	= 00000020	R	03	DPTSREINITAB	0000009F	R	03
\$\$OP	= 00000001			DPTSTAB	00000000	R	03
ATS_UBA	= 00000001			DTS_LA36	= 00000020		
CD	000004BC	R	02	DTS-MBX	= 00000001		
CON\$ABORT	*****	X	03	DTS-NULL	= 00000003		
CON\$DISCONNECT	*****	X	03	DYN\$C-CRB	= 00000005		
CON\$DS_SET	*****	X	03	DYN\$C-DDB	= 00000006		
CON\$INITIAL	*****	X	02	DYN\$C-DPT	= 0000001E		
CON\$INITLINE	*****	X	02	DYN\$C-IDB	= 00000009		
CON\$INTDISI	0000048C	RG	02	DYN\$C-ORB	= 00000049		
CON\$INTDISO	00000480	RG	02	DYN\$C-SCS	= 00000060		
CON\$INTINP	*****	X	02	DYN\$C-SCS-SB	= 00000007		
CON\$INTOUT	*****	X	02	DYN\$C-UCB	= 00000010		
CON\$NULL	*****	X	03	DYN\$C-WCB	= 00000012		
CON\$RESUME	*****	X	03	ID	000004EC	R	02
CON\$SET_LINE	*****	X	03	IDB\$B-COMBO_VECTOR_OFFSET	= 00000010		
CON\$SET_MODEM	*****	X	03	IDB\$B-ADP	= 00000014		
CON\$STARTIO	*****	X	03	IDB\$B-CSR	= 00000000		
CON\$STOP	*****	X	03	IDB\$B-OWNER	= 00000004		
CON\$STOP2	*****	X	03	IDB\$B-UCBLST	= 00000018		
CON\$XOFF	*****	X	03	IDB\$W-UNITS	= 0C00000C		
CON\$XON	*****	X	03	IOC\$GL-ADPLIST	00000000	RG	02
CRB\$B-AUXSTRUC	= 00000010			IOC\$GL-DEVLIST	00000078	RG	02
CRB\$B-DUETIME	= 00000018			IOC\$GL-DPTLIST	00000004	RG	02
CRB\$B-INTD	= 00000024			IPL\$MAILBOX	= 0000000B		
CRB\$B-INTD2	= 00000048			MBS\$DDT	*****	X	02
CRB\$B-LINK	= 00000020			MBS\$GL-DDB	000004EC	RG	02
CRB\$B-TIMELINK	= 00000014			MBS\$GL-ORB1	000006A8	RG	02
CRB\$B-TOUTROUT	= 0000001C			MBS\$GL-ORB2	00000790	RG	02
DCS_DISK	= 00000001			MBS\$GL-UCB1	00000618	RG	02
DCS_MAILBOX	= 0C0000A0			MBS\$GL-UCB2	00000700	RG	02
DCS_TERM	= 00000042			MBS\$MBO-END	00000618	R	02
DDB\$B-TYPE	= 0000000A			MBSORBO	00000530	RG	02
DDB\$C-LENGTH	= 00000044			MBSUCBO	00000588	RG	02
DDB\$B-ACPD	= 00000010			NET\$WCB	00000914	RG	02
DDB\$B-DDT	= 0000000C			NLS\$DDT	*****	X	02
DDB\$B-LINK	= 00000000			NLS\$GL-DDB	000007E8	RG	02
DDB\$B-SB	= 000C0034			NLS\$GL-ORBO	0000082C	RG	02
DDB\$B-UCB	= 00000004			NLS\$GL-UCBO	00000884	RG	02
DDB\$T-DRVNAME	= 00000024			NOS\$GL-DPT	00000010	RG	02
DDB\$W-SIZE	= 00000008			OP\$DPT	00000000	RG	03
DEV\$M-AVL	= 00040000			OPASCRB	00000468	RG	02
DEV\$M-CCL	= 00000002			OPASGL-DDB	000C0258	RG	02
DEV\$M-DIR	= 00000008			OPASIDB	0000048C	RG	02
DEV\$M-ELG	= 004C0000			OPASORBO	0000029C	RG	02
DEV\$M-FOD	= 00004000			OPASUCBO	000002F4	RG	02
DEV\$M-IDV	= 04000000			OPASVEC	000000A0	R	03
DEV\$M-MBX	= 00100000			OPASVECEND	000000D8	R	03
DEV\$M-NNM	= 00000200			OPASVECTOR	000000A0	RG	03
DEV\$M-ODV	= 08000000			OP-DPTEND	000000A0	R	03
DEV\$M-REC	= 00000001			ORB\$B-FLAGS	= 0000000B		
DEV\$M-RND	= 10000000			ORB\$K-LENGTH	= 00000058		
DEV\$M-SHR	= 00010000			ORB\$B-OWNER	= 00000000		
DEV\$M-TRM	= 0C000004			ORB\$M-PROT-16	= 00000001		
DPT\$C-LENGTH	= 00000038			ORB\$W-PROT	= 00000018		
DPT\$C-VERSION	= 00000004			ORBASE	= 0000C82C	R	02
DPT\$IRITAB	00000038	R	03	PORT_ABORT	= 00000020		

DEVICEDAT  
Symbol table

```

PORT_DISCONNECT = 00000004
PORT_DS_SET = 0000000C
PORT_LENGTH = 00000038
PORT_RESUME = 00000024
PORT_SET_LINE = 00000008
PORT_SET_MODEM = 00000028
PORT_STARTIO = 00000000
PORT_STOP = 00000018
PORT_STOP2 = 0000001C
PORT_XOFF = 00000014
PORT_XON = 00000010
SB$B_ENBMSK = 0000005A
SB$B_HWVERS = 00000038
SB$B_SYSTEMID = 00000018
SB$K_LENGTH = 00000060
SB$L_CSB = 0000005C
SB$L_DDB = 00000054
SB$L_PBCONN = 00000014
SB$L_PBF = 0000000C
SB$Q_SWINCARN = 0000002C
SB$S_ENBMSK = 00000002
SB$T_HWTYPE = 00000034
SB$T_NODENAME = 00000044
SB$T_SWTYPE = 00000024
SB$T_SWVERS = 00000028
SB$W_MAXDG = 00000020
SB$W_TIMEOUT = 00000058
SC$S$GA_LOCALSB = 00000024 RG 02
SC$S$GQ_CONFIG = ***** X 02
SYSSC_JOBCTLMB = 3141424D G
SYSSC_MBXUCBSIZ = 00000090 G
SYSSC_OPRMBX = 3241424D G
SYSSGL_BOOTDDB = 0000008C RG 02
SYSSGL_BOOTORB = 000000D0 RG 02
SYSSGL_BOOTUCB = 00000128 RG 02
SYSSGL_FALLBACK = 00000020 RG 02
SYSSGL_JOBCTLMB = 00000618 RG 02
SYSSGL_OPRMBX = 00000700 RG 02
SYSSGL_UIS = 00000018 RG 02
SYS_CRB = 00000944 R 02
TTS$BAUD_300 = 00000006
TTS$LOWER = 00000080
TTS$TTSYNC = 00000020
TTS$WRAP = 00000200
TTS$CA36 = 00000020
TTS$UNKNOWN = 00000000
TTY$GL_DEFCHAR ***** X 03
TTY$GL_DEFCHAR2 ***** X 03
TTY$GL_DPT = 0000000C RG 02
TTY$GL_JOBCTLMB = 00000014 RG 02
TTY$GW_PROT ***** X 03
UCB$B_DEVCLASS = 00000040
UCB$B_DEVTYPE = 00000041
UCB$B_DIPL = 0000005E
UCB$B_ERTCNT = 00000080
UCB$B_ERTMAX = 00000081
UCB$B_FIPL = 0000000B

```

```

UCB$B_TT_DETYPE = 000000F0
UCB$C_LENGTH = 00000090
UCB$C_TT_LENGTH = 00000134
UCB$K_LENGTH = 00000090
UCB$L_CRB = 00000024
UCB$L_DDB = 00000028
UCB$L_DDT = 00000088
UCB$L_DEVCHAR = 00000038
UCB$L_DEVCHAR2 = 0000003C
UCB$L_DEVDEPEND = 00000044
UCB$L_FQFL = 00000000
UCB$L_IOQFL = 0000004C
UCB$L_LINK = 00000030
UCB$L_ORB = 0000001C
UCB$L_TT_DECHA1 = 000000C8
UCB$L_TT_DECHAR = 000000C4
UCB$L_TT_DEVDP1 = 00000048
UCB$M_ONLINE = 00000010
UCB$M_PRRMBX = 00000001
UCB$W_BUFQUO = 00000018
UCB$W_DEVBUFFSIZ = 00000042
UCB$W_DEVSTS = 00000068
UCB$W_MB_SEED = 00000000
UCB$W_MSGMAX = 00000014
UCB$W_REFC = 0000005C
UCB$W_STS = 00000064
UCB$W_TT_DESIZE = 000000F1
UCB$W_TT_DESPEE = 000000E8
UCB$W_TT_SPEED = 000000F4
UCB$W_UNIT = 00000054
UCBASE = 00000884 R 02
UIS$GL_USB = 0000001C RG 02
VEC$B_DATAPATH = 00000013
VEC$B_NUMREG = 00000012
VEC$K_LENGTH = 00000024
VEC$L_ADP = 00000014
VEC$L_IDB = 0000000E
VEC$L_INITIAL = 0000000C
VEC$L_START = 0000001C
VEC$L_UNITDISC = 00000020
VEC$L_UNITINIT = 00000018
VEC$Q_DISPATCH = 00000000
VEC$W_MAPREG = 00000010
WCB$B_ACCESS = 0000000B
WCB$K_LENGTH = 00000030
WCB$L_FCB = 00000018
WCB$L_LINK = 00000020
WCB$L_ORGUCB = 00000010
WCB$L_PID = 0000000C
WCB$L_READS = 00000024
WCB$L_RVT = 0000001C
WCB$L_STVBN = 0000002C
WCB$L_WRIES = 00000028
WCB$W_ACON = 00000014
WCB$W_NMAP = 00000016
X = 00000914 R 02

```

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

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 ( 0.)	01 ( 1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
\$\$\$100	0000098C ( 2444.)	02 ( 2.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC QUAD
\$\$\$105_PROLOCUE	000000DC ( 220.)	03 ( 3.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

+-----+  
. Performance indicators !  
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.08	00:00:01.39
Command processing	131	00:00:00.54	00:00:06.21
Pass 1	524	00:00:23.29	00:01:13.29
Symbol table sort	0	00:00:02.98	00:00:09.25
Pass 2	147	00:00:04.20	00:00:14.25
Symbol table output	27	00:00:00.18	00:00:00.91
Psect synopsis output	2	00:00:00.03	00:00:00.10
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	869	00:00:31.31	00:01:45.59

The working set limit was 1800 pages.  
121898 bytes (239 pages) of virtual memory were used to buffer the intermediate code.  
There were 110 pages of symbol table space allocated to hold 1937 non-local and 25 local symbols.  
786 source lines were read in Pass 1, producing 24 object records in Pass 2.  
60 pages of virtual memory were used to define 56 macros.

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

Macro library name	Macros defined
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	23
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	7
TOTALS (all libraries)	30

2373 GETS were required to define 30 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:DEVICEDAT/OBJ=OBJ\$:DEVICEDAT MSRC\$:DEVICEDAT/UPDATE=(ENH\$:DEVICEDAT)+EXECMLS/LIB

