


```

SSSSSSSS YY YY SSSSSSS LL 000000 AAAAAA VV VV EEEEEEEEE CCCCCCC
SSSSSSSS YY YY SSSSSSS LL 000000 AAAAAA VV VV EEEEEEEEE CCCCCCC
SS SS YY YY SS SSSSSSS LL LL 00 00 AA AA VV VV EE EEEEEEE CC
SS SS YY YY SS SSSSSSS LL LL 00 00 AA AA VV VV EE EEEEEEE CC
SS SS YY YY SS SSSSSSS LL LL 00 00 AA AA VV VV EE EEEEEEE CC
SSSSSS YY YY SSSSSSS LL LL 00 00 AA AA VV VV EE EEEEEEE CC
SSSSSS YY YY SSSSSSS LL LL 00 00 AA AA VV VV EE EEEEEEE CC
SS SS YY YY SS SSSSSSS LL LL 00 00 AA AA VV VV EE EEEEEEE CC
SS SS YY YY SS SSSSSSS LL LL 00 00 AA AA VV VV EE EEEEEEE CC
SSSSSS YY YY SSSSSSS LL LL 00 00 AA AA VV VV EE EEEEEEE CC
SSSSSS YY YY SSSSSSS LL LL 00 00 AA AA VV VV EE EEEEEEE CC
SSSSSSSS YY YY SSSSSSS LLLLLLLLLL 000000 AAAAAA VV VV EEEEEEEEE CCCCCCC
SSSSSSSS YY YY SSSSSSS LLLLLLLLLL 000000 AAAAAA VV VV EEEEEEEEE CCCCCCC
.....
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LL LL IIIIII SSSSSSS
LL LL IIIIII SSSSSSS
LL LL II
LL LL II
LL LL II
LL LL II
LL LL II
LL LL II
LL LL II
LL LL II
LL LL II
LL LL II
LL LL II
LLLLLLLLLLLL IIIIII SSSSSSS
LLLLLLLLLLLL IIIIII SSSSSSS

```

```
0000 1      .IF      NDF,PRMSW      ;FOR LINKAGE WITH SYS.EXE,...
0000 2      .TITLE  SYSLOAVEC - SYSTEM VECTORS TO LOADABLE SUBROUTINES
0000 3
0000 4      .IFF
0000 5      .TITLE  LOAVEC - OFFSETS TO LOADABLE SUBROUTINES
0000 6      .ENDC
0000 7
0000 8      .IDENT  'V04-000'
0000 9
0000 10     :*****
0000 11     :*
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0000 29     :*
0000 30     :*
0000 31     :*****
0000 32     :
0000 33     :++
0000 34     :
0000 35     : FACILITY:
0000 36     :
0000 37     : EXECUTIVE, LOADABLE SUBROUTINES
0000 38     :
0000 39     : ABSTRACT:
0000 40     :
0000 41     : VECTORS, LOAD IMAGE SIZE, AND UNDEFINED VECTOR HANDLER FOR
0000 42     : LOADABLE SUBROUTINES.
0000 43     :
0000 44     : AUTHOR:
0000 45     :
0000 46     : N. KRONENBERG, MARCH 13, 1979.
0000 47     :
0000 48     : MODIFIED BY:
0000 49     :
0000 50     : V03-021 ROW0407      Ralph O. Weber      25-JUL-1984
0000 51     : Add EX$MNTVER_DVI_ASSIST, an escape transfer vector which
0000 52     : allows $GETDVI support for shadow sets to be shipped with
0000 53     : mount verification in SYSLOAxxx.
0000 54     :
0000 55     : V03-020 WHM0001      Bill Matthews      09-Jul-1984
0000 56     : Added vectors for routines CON$INIT_CTY, CON$GETCHAR and CON$PUTCHAR
0000 57     :
```

0000	58	:	V03-019	ROW0384	Ralph O. Weber	7-JUL-1984
0000	59	:		Add the following transfer or pointer vectors for Mount		
0000	60	:		Verification:		
0000	61	:		o EXESCLUTRANIO, VAXcluster state transition I/O block.		
0000	62	:		o EXESUPDGNERNUM, update shadow set generation number.		
0000	63	:		o EXESGL_MVMSLBA\$, MVMSL base address.		
0000	64	:				
0000	65	:	V03-018	TCM0003	Trudy C. Matthews	09-Apr-1984
0000	66	:		Add vector for routine CONSRELEASECTY.		
0000	67	:				
0000	68	:	V03-017	ROW0330	Ralph O. Weber	24-MAR-1984
0000	69	:		Add two spare mount verification transfer vectors for possible		
0000	70	:		use in volume shadowing.		
0000	71	:				
0000	72	:	V03-016	KPL0001	Peter Lieberwirth	4-Mar-1984
0000	73	:		Add some extra vectors (aligned and packed) for possible		
0000	74	:		use in 4.x.		
0000	75	:				
0000	76	:	V03-015	ROW0317	Ralph O. Weber	27-FEB-1984
0000	77	:		Correct patch area descriptor to have patch size in bytes not		
0000	78	:		in longwords.		
0000	79	:				
0000	80	:	V03-014	ROW0292	Ralph O. Weber	4-FEB-1984
0000	81	:		Add three vectors for mount verification, which is being moved		
0000	82	:		to SYSLOAxxx: EXESMOUNTVER the main entry point, EXESMNTVERSIO		
0000	83	:		entry to the start I/O routine for mount verification, and		
0000	84	:		EXESMNTVERSHDOL entry point to the bring shadow unit online		
0000	85	:		routine (which does not exist yet). EXESMNTVERSIO allows		
0000	86	:		in-driver mount verification routines to use a standard		
0000	87	:		interface to starting and completing an internal I/O request.		
0000	88	:		EXESMNTVERSHDOL is provided for MOUNT to use when it brings		
0000	89	:		the members of a shadow set online asynchronously.		
0000	90	:				
0000	91	:	V03-013	CWH8001	CW Hobbs	4-Dec-1983
0000	92	:		Add EXESREADP_TODR and EXESWRITEP_TODR routines, used to		
0000	93	:		force access of physical TODR on Nautilus CPU. On other		
0000	94	:		CPUs, these routines are second labels on EXESREAD_TODR and		
0000	95	:		EXESWRITE_TODR.		
0000	96	:				
0000	97	:	V03-012	KDM0062	Kathleen D. Morse	19-Jul-1983
0000	98	:		Add routine to initialize the time-wait macro data		
0000	99	:		cells, EXESINI_TIMWAIT.		
0000	100	:				
0000	101	:	V03-011	KTA0001	Kerbey T. Altmann	12-Jul-1983
0000	102	:		Add routine for console device data structure		
0000	103	:		initialization, INISCONSOLE.		
0000	104	:				
0000	105	:	V03-010	KDM0057	Kathleen D. Morse	12-Jul-1983
0000	106	:		Change the SYSINIT routine, SIP_SETTIME, to a loadable,		
0000	107	:		cpu-dependent routine, EXESINIT_TODR.		
0000	108	:				
0000	109	:	V03-009	KDM0048	Kathleen D. Morse	07-Jun-1983
0000	110	:		Add loadable routines for referencing TODR:		
0000	111	:		EXESREAD_TODR and EXESWRITE_TODR.		
0000	112	:				
0000	113	:	V03-008	WMC0001	Wayne Cardoza	09-Jun-1983
0000	114	:		Add loadable code system service dispatchers.		

0000	115	:	
0000	116	:	V03-007 JWH0203 Jeffrey W. Horn 22-Mar-1983
0000	117	:	Use SLVTAB macro to set up loadable-image header.
0000	118	:	
0000	119	:	V03-006 TCM0002 Trudy C. Matthews 16-Feb-1983
0000	120	:	Add CON\$OWNCTY vector.
0000	121	:	
0000	122	:	V03-005 TCM0001 Trudy C. Matthews 13-Jan-1983
0000	123	:	Add SYSL\$CLRSBIA entry point. Add an alternative default
0000	124	:	routine that RSBs harmlessly if called before code is
0000	125	:	loaded, instead of halting.
0000	126	:	
0000	127	:	V03-004 KTA3018 Kerbey T. Altmann 30-Oct-1982
0000	128	:	Redo to reflect changes in modules.
0000	129	:	
0000	130	:	V03-003 MSH0001 Maryann Hinden 24-Sep-1982
0000	131	:	Change entry EXE\$DW780_INT to EXE\$UBAERR_INT.
0000	132	:	
0000	133	:	V03-002 STJ3026 Steven T. Jeffreys 24-Sep-1982
0000	134	:	Moved LOADVEC macro to SYSMAR.
0000	135	:	
0000	136	:	V03-001 BLS0183 Benn Schreiber 16-Aug-1982
0000	137	:	Add new entry points for loadable console support
0000	138	:	
0000	139	:--	

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0000 141 :+
0000 142 : THIS MODULE MAY BE ASSEMBLED WITH EXECUTIVE MODULE PRMSW.MAR
0000 143 : WHICH DEFINES THE CONDITIONAL CONTROL VARIABLE PRMSW. IF PRMSW
0000 144 : IS NOT DEFINED, THEN SYSLOAVEC.MAR IS INTENDED TO LINK WITH SYS.EXE.
0000 145 : IF PRMSW IS DEFINED, SYSLOAVEC.MAR IS INTENDED FOR LINKAGE WITH
0000 146 : SYSLOAxxx.EXE. (xxx IS THE CPU DISIGNATOR, E.G., 780.)
0000 147 :
0000 148 : IF PRMSW IS NOT DEFINED (LINK WITH SYS.EXE), THE SOURCE CONTAINS
0000 149 : A LIST OF VECTORS TO BE CONNECTED TO THE SUBROUTINES AND DATA STRUCTURES
0000 150 : IN SYSLOAxxx.EXE.
0000 151 :
0000 152 : DATA VECTORS ARE LONGWORD POINTERS TO THE LOADED DATA STRUCTURES. BEFORE
0000 153 : LOADING, THE POINTERS CONTAIN A 0.
0000 154 :
0000 155 : SUBROUTINE VECTORS ARE OF THE FORM:
0000 156 :
0000 157 : ENTRY:: JMP @#EXES$LOAD_ERROR
0000 158 :
0000 159 : THERE ARE TWO TYPES OF ROUTINE ENTRIES. THE FIRST TYPE IS LONGWORD
0000 160 : ALIGNED ENTRIES FOR SCB VECTORS. THE SECOND TYPE IS PACKED
0000 161 : ENTRIES FOR ORDINARY ROUTINES.
0000 162 :
0000 163 : SYSLOAVEC ALSO CONTAINS THE LOAD ERROR HANDLER, EXES$LOAD_ERROR,
0000 164 : WHICH IS SIMPLY A HALT. IF ANY LOADABLE SUBROUTINE IS CALLED
0000 165 : PRIOR TO BEING LOADED, THE HALT WILL BE EXECUTED.
0000 166 :
0000 167 : IF PRMSW IS DEFINED (LINK WITH SYSLOAxxx.EXE), THE SOURCE
0000 168 : CONTAINS LONGWORD EXES$LOAD_SIZE, THE NUMBER OF BYTES IN SYSLOAxxx.EXE.
0000 169 : THE SOURCE ALSO CONTAINS A LIST OF THE SELF-RELATIVE OFFSETS TO
0000 170 : THE SUBROUTINES IN SYSLOAxxx.EXE. THE LIST OF OFFSETS IS USED
0000 171 : TO CONNECT THE SYS.EXE VECTORS TO THE LOADED SUBROUTINES.
0000 172 :-

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0000 174 :
0000 175 : MISC. LABELS AND DATA:
0000 176 :
0000 177 :
0000 178 .IF DF,PRMSW ;FOR LINKAGE WITH SYSLOAxxx.EXE,...
0000 179
0000 180 $DYNDEF
0000 181
0000 182 .PSECT __LOAD_END,QUAD ; Force label to be at the end of
0000 183 SYSL$END:: ; loadable code
0000 184
0000 185 .PSECT $$$000 ; Force return to start of loadable code
0000 186 SYSL$BEGIN::
0000 187 SLVTAB END = SYSL$END, -
0000 188 INITRTN = INI$IOMAP, -
0000 189 FACILITY= <SYSLOAVEC>
0000 190 :
0000 191 : NOTE: The modules, INIADPxxx, understand how to unload the vectors
0000 192 : for routines that are only called once during initialization
0000 193 : of the system. Therefore, if the format of these vectors
0000 194 : change, then the code in INIADPxxx must also change.
0000 195 :
0000 196 :
0000 197 :
0000 198 .IFF ; For linkage with SYS.EXE,...
00000000 199 .PSECT $$$500,LONG ;
0000 200 .ALIGN LONG ; Start vector list on longwd
0000 201 EXE$AL_LOAVEC:: ; Addr of start of vectors
0000 202 .ENDC
0000 203
0000 204
0000 205 :
0000 206 : VECTOR LIST:
0000 207 : Define longword-aligned routine vectors.
0000 208 :
0000 209 :
0000 210 LOADVEC EXE$MCHK,TYPE=2 ;MACHINE CHECK HANDLER
0006 211 LOADVEC EXE$INT54,TYPE=2 ;INTERRUPT, SCB VECTOR=^X54
000E 212 LOADVEC EXE$INT58,TYPE=2 ;INTERRUPT, SCB VECTOR=^X58
0016 213 LOADVEC EXE$INT5C,TYPE=2 ;INTERRUPT, SCB VECTOR=^X5C
001E 214 LOADVEC EXE$INT60,TYPE=2 ;INTERRUPT, SCB VECTOR=^X60
0026 215 LOADVEC UBA$UNEXINT,TYPE=2, - ;INTERRUPT, UNIBUS ITSELF
0026 216 SEC_LABEL=UBA_UNEXINT
002E 217 :
002E 218 : Extra aligned vectors. Current target of these vectors in SYSLOA is a
002E 219 : halt instruction in ERRSUB*.
002E 220 :
002E 221 LOADVEC EXE$EXTRA1,TYPE=2 ;EXTRA LABEL
0036 222 LOADVEC EXE$EXTRA2,TYPE=2 ;EXTRA LABEL
003E 223 LOADVEC EXE$EXTRA3,TYPE=2 ;EXTRA LABEL
0046 224 LOADVEC EXE$EXTRA4,TYPE=2 ;EXTRA LABEL
004E 225 LOADVEC EXE$EXTRAS,TYPE=2 ;EXTRA LABEL
0056 226 :
0056 227 : Define packed routine vectors.
0056 228 :
0056 229 :
0056 230 LOADVEC ECC$REENABLE ;MEMORY ERROR TIMERS

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005C	231	LOADVEC	EXESINIBOOTADP	;INIT BOOT DEVICE ADAPTER
0062	232	LOADVEC	EXESDUMPCPUREG	;DUMP CPU-SPECIFIC IPR'S INTO EMB
0068	233	LOADVEC	EXESREGRESTOR	;RESTORE CPU-SPECIFIC IPR'S
006E	234	LOADVEC	EXESREGSAVE	;SAVE CPU-SPECIFIC IPR'S
0074	235	LOADVEC	EXESINIPROCREG	;INIT PROCESSOR REGISTERS
007A	236	LOADVEC	EXESTEST_CSR	;TEST UB CSR FOR EXISTENCE
0080	237	LOADVEC	IOCSPURGDATAP	;PURGE DATAPATH
0086	238	LOADVEC	INISMPMADP	;INITIALIZE MULTIPOINT MEMORY
008C	239	LOADVEC	EXESSTARTUPADP	;Startup up any adapters
0092	240	LOADVEC	EXESSHUTDOWNADP	;Shutdown any (all) adapters
0098	241	LOADVEC	MASRAVAIL	;Multiport memory
009E	242	LOADVEC	MASREQUEST	;Multiport memory request
00A4	243	LOADVEC	MASINITIAL	;Multiport initialization
00AA	244	LOADVEC	CON\$STARTIO	;Console start I/O
00B0	245	LOADVEC	CON\$SET_LINE	;Set line
00B6	246	LOADVEC	CON\$SDS SET	;Data set
00BC	247	LOADVEC	CON\$XON	;XON to console
00C2	248	LOADVEC	CON\$XOFF	;XOFF to console
00C8	249	LOADVEC	CON\$STOP	;STOP output
00CE	250	LOADVEC	CON\$STOP2	;stop for 2 seconds
00D4	251	LOADVEC	CON\$ABORT	;Abort console I/O
00DA	252	LOADVEC	CON\$RESUME	;Resume output
00E0	253	LOADVEC	CON\$SET MODEM	;Set modem
00E6	254	LOADVEC	CON\$NULL	;Null routine
00EC	255	LOADVEC	CON\$DISCONNECT	;Console disconnect routine
00F2	256	LOADVEC	CON\$INITIAL	;Initialize console controller
00F8	257	LOADVEC	CON\$INITLINE	;Initialize console line
00FE	258	LOADVEC	CON\$INTINP	;Input interrupt
0104	259	LOADVEC	CON\$INTOUT	;Output interrupt
010A	260	LOADVEC	CON\$SENDCONSCMD	;Send cpu-dependent command to console
0110	261	LOADVEC	SYSL\$CLRSBIA, -	;Clear SBIA error bits
0110	262		DEF RTN=EXESLOAD_NOP	
0116	263	LOADVEC	CON\$OWNCTY	;Set up to talk directly to console tty
011C	264	LOADVEC	CON\$RELEASECTY	;Restore normal console cty interface
0122	265	LOADVEC	CON\$GETCHAR	;Get a character from the console cty
0128	266	LOADVEC	CON\$PUTCHAR	;Put a character out to the console cty
012E	267	LOADVEC	CON\$INIT_CTY	;Initialization routine for the console cty
0134	268	LOADVEC	EXESREAD_TODR	;Read Time-Of-Day Register
013A	269	LOADVEC	EXESWRITE_TODR	;Write Time-Of-Day Register
0140	270	LOADVEC	EXESINIT_TODR	;Initialize system time-of-day
0146	271	LOADVEC	INISCONSOLE	;Initialize console device data struc
014C	272	LOADVEC	EXESINI_TIMWAIT	;Initialize time-wait loop data cells
0152	273	LOADVEC	EXESREADP_TODR	;Read physical TODR register
0158	274	LOADVEC	EXESWRITEP_TODR	;Write physical TODR register
015E	275	LOADVEC	EXESMOUNTVER	;Mount verification main entry point
0164	276	LOADVEC	EXESMNTVERSIO	;Mount verification start I/O request
016A	277	LOADVEC	EXESMNTVERSHDOL	;Mount verification online shadow unit
0170	278	LOADVEC	EXESCLUTRANIO	;Mount verification VAXcluster state
0176	279		; transition block I/O	
0176	280	LOADVEC	EXESUPDGNERNUM	;Mount verification update shadow set
017C	281		; generation number	
017C	282	LOADVEC	EXESMNTVER_DVI_ASSIST	;Mount verification \$GETDVI escape
0182	283	LOADVEC	EXESMNTVERS_P1	;Mount verification spare xfer vector
0188	284	LOADVEC	EXESMNTVERS_P2	;Mount verification spare xfer vector
018E	285	LOADVEC	EXESGL_MVMSLBAS, 1.. -	;Mount verification MVMSL base address
018E	286		EXESAB_MVMSLBA\$	
0194	287		;	


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0194 288 : Extra packed vectors. Current target of these vectors in SYSLOA is a
0194 289 : halt instruction in ERRSUB*.
0194 290 :
0194 291 :     LOADVEC EXE$EXTRA6           ;EXTRA LABEL
019A 292 :     LOADVEC EXE$EXTRA7           ;EXTRA LABEL
01A0 293 :     LOADVEC EXE$EXTRA8           ;EXTRA LABEL
01A6 294 :     LOADVEC EXE$EXTRA9           ;EXTRA LABEL
01AC 295 :     LOADVEC EXE$EXTRA10          ;EXTRA LABEL
01B2 296 :
01B2 297 :
01B2 298 : Define pointers to data structures.
01B2 299 :
01B2 300 :
01B2 301 :     LOADVEC EXE$MCHK_ERRCNT,TYPE=1 ;Point to array of mchk error counters.
01B8 302 :
01B8 303 :     .IF      DF,PRMSW             ; For the loadable image
01B8 304 :     .LONG   -1                    ; put in a stopper signal
01B8 305 :     .ENDC
01B8 306 :
01B8 307 :
01B8 308 : IF LINKAGE WITH SYS.EXE, DEFINE A LOAD ERROR HANDLER AND A HANDLER THAT
01B8 309 : RSB'S HARMLESSLY (FOR A ROUTINE USED BY XDELTA THAT MAY BE CALLED BEFORE
01B8 310 : BEING LOADED).
01B8 311 :
01B8 312 :
01B8 313 :
01B8 314 :     .IF      NDF,PRMSW
00 01B8 315 EXE$LOAD_ERROR::           ;COME HERE IF CALL TO UNLOADED
01B8 316 HALT                          ; SUBROUTINE
05 01B9 317 EXE$LOAD_NOP::           ;COME HERE IF ROUTINE NOT LOADED
01B9 318 RSB                          ; BUT DON'T WANT TO ERROR HALT
01BA 319 .ENDC
01BA 320 :
01BA 321 :
01BA 322 : IF LINKAGE WITH SYS.EXE, DEFINE THE DISPATCH VECTOR FOR LOADABLE CODE
01BA 323 : SYSTEM SERVICE DISPATCHERS. THERE ARE SEPARATE VECTORS FOR EXEC AND
01BA 324 : KERNEL MODE WITH TWO SPARE ENTRIES IN EACH.
01BA 325 :
01BA 326 :
01BA 327 :     .IF      NDF,PRMSW
01BA 328 :
01BA 329 EXE$LOAD_KDISP::             ;Kernel mode dispatchers
01BA 330 EXE$LOAD_KCJF::
000001B9'9F 16 01BA 331 JSB @#EXE$LOAD_NOP           ;CJF
000001B9'9F 16 01C0 332 EXE$LOAD_KRUF::           ;RUF
01C0 333 JSB @#EXE$LOAD_NOP
000001B9'9F 16 01C6 334 EXE$LOAD_KSPR1::           ;First spare
01C6 335 JSB @#EXE$LOAD_NOP
000001B9'9F 16 01CC 336 EXE$LOAD_KSPR2::           ;Second spare
01CC 337 JSB @#EXE$LOAD_NOP
05 01D2 338 RSB
01D3 339 :
01D3 340 EXE$LOAD_EDISP::             ;Exec mode dispatchers
01D3 341 EXE$LOAD_ESPR1::
000001B9'9F 16 01D3 342 JSB @#EXE$LOAD_NOP           ;First spare
01D9 343 EXE$LOAD_ESPR2::
000001B9'9F 16 01D9 344 JSB @#EXE$LOAD_NOP           ;Second spare

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05 01DF 345 RSB
    01E0 346
    01E0 347 .ENDC
    01E0 348
    01E0 349
    01E0 350 : IF LINKAGE WITH SYSLOAxxx.EXE, DEFINE 15 LONGWORDS OF PATCH AREA:
    01E0 351 :
    01E0 352
    01E0 353 .IF DF,PRMSW
    01E0 354 .PSECT _PATCH
    01E0 355 PATCH_DESC::
    01E0 356 .LONG 15*4
    01E0 357 .LONG PATCH_AREA
    01E0 358 PATCH_AREA::
    01E0 359 .BLKL 15
    01E0 360 .ENDC
    01E0 361
    01E0 362 .END
```

SYSLOAVEC
Symbol table

N 9

- SYSTEM VECTORS TO LOADABLE SUBROUTINES 16-SEP-1984 01:22:14 VAX/VMS Macro V04-00
5-SEP-1984 03:55:12 [SYS.SRC]SYSLOAVEC.MAR;1

CONSABORT	000000D4	RG	01	EXESMNTVERSHDOL	0000016A	RG	01
CONSDISCONNECT	000000EC	RG	01	EXESMNTVERSIO	00000164	RG	01
CONSDS_SET	000000B6	RG	01	EXESMNTVERSIP1	00000182	RG	01
CONSGETCHAR	00000122	RG	01	EXESMNTVERSIP2	00000188	RG	01
CONSINITIAL	000000F2	RG	01	EXESMNTVER DVI_ASSIST	0000017C	RG	01
CONSINITLINE	000000F8	RG	01	EXESMOUNTVER	0000015E	RG	01
CONSINIT_CTY	0000012E	RG	01	EXESREADP TODR	00000152	RG	01
CONSINTIRP	000000FE	RG	01	EXESREAD TODR	00000134	RG	01
CONSINTOUT	00000104	RG	01	EXESREGRESTOR	00000068	RG	01
CONSNUL	000000E6	RG	01	EXESREGSAVE	0000006E	RG	01
CON\$OWNCTY	00000116	RG	01	EXES\$HUTDOWNADP	00000092	RG	01
CON\$PUTCHAR	00000128	RG	01	EXES\$STARTUPADP	0000008C	RG	01
CON\$RELEASECTY	0000011C	RG	01	EXESTEST_CSR	0000007A	RG	01
CON\$RESUME	000000DA	RG	01	EXESUPDGRERNUM	00000176	RG	01
CON\$SENDCONSCMD	0000010A	RG	01	EXESWRITEP TODR	00000158	RG	01
CON\$SET_LINE	000000B0	RG	01	EXESWRITE TODR	0000013A	RG	01
CON\$SET_MODEM	000000E0	RG	01	INISCONSOLE	00000146	RG	01
CON\$STARTIO	000000AA	RG	01	INISMPMADP	00000086	RG	01
CON\$STOP	000000C8	RG	01	IOCSPURGDATAP	00000080	RG	01
CON\$STOP2	000000CE	RG	01	MASINITIAL	000000A4	RG	01
CON\$XOFF	000000C2	RG	01	MASRAVAIL	00000098	RG	01
CON\$XON	000000BC	RG	01	MASREQUEST	0000009E	RG	01
ECC\$REENABLE	00000056	RG	01	SYSLSCLRSBIA	00000110	RG	01
EXESAL_LOAVEC	00000000	RG	01	UBASUNEXINT	00000028	RG	01
EXES\$CLOTRANIO	00000170	RG	01				
EXESDUMPCPUREG	00000062	RG	01				
EXESE\$EXTRA1	00000030	RG	01				
EXESE\$EXTRA10	000001AC	RG	01				
EXESE\$EXTRA2	00000038	RG	01				
EXESE\$EXTRA3	00000040	RG	01				
EXESE\$EXTRA4	00000048	RG	01				
EXESE\$EXTRA5	00000050	RG	01				
EXESE\$EXTRA6	00000194	RG	01				
EXESE\$EXTRA7	0000019A	RG	01				
EXESE\$EXTRA8	000001A0	RG	01				
EXESE\$EXTRA9	000001A6	RG	01				
EXESGL MVMSLBAS	00000190	RG	01				
EXESINIBOOTADP	0000005C	RG	01				
EXESINIPROCREG	00000074	RG	01				
EXESINIT TODR	00000140	RG	01				
EXESINI TIMWAIT	0000014C	RG	01				
EXESINT54	00000008	RG	01				
EXESINT58	00000010	RG	01				
EXESINT5C	00000018	RG	01				
EXESINT60	00000020	RG	01				
EXESLOAD_EDISP	000001D3	RG	01				
EXESLOAD_ERROR	000001B8	RG	01				
EXESLOAD_ESPR1	000001D3	RG	01				
EXESLOAD_ESPR2	000001D9	RG	01				
EXESLOAD_KCJF	000001BA	RG	01				
EXESLOAD_KDISP	000001BA	RG	01				
EXESLOAD_KRUF	000001C0	RG	01				
EXESLOAD_KSPR1	000001C6	RG	01				
EXESLOAD_KSPR2	000001CC	RG	01				
EXESLOAD_NOP	000001B9	RG	01				
EXESMCHK	00000000	RG	01				
EXESMCHK_ERRCNT	000001B4	RG	01				

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

PSECT name	Allocation	PSECT No.	Attributes														
. ABS	00000000 (0.)	00 (0.)	NOPIC USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE					
\$\$\$500	000001E0 (480.)	01 (1.)	NOPIC USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	LONG					

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.10	00:00:01.49
Command processing	125	00:00:00.57	00:00:05.31
Pass 1	153	00:00:05.26	00:00:16.05
Symbol table sort	0	00:00:00.06	00:00:00.06
Pass 2	83	00:00:01.57	00:00:05.18
Symbol table output	10	00:00:00.08	00:00:00.22
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	411	00:00:07.67	00:00:28.34

The working set limit was 1200 pages.
25770 bytes (51 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 81 non-local and 0 local symbols.
362 source lines were read in Pass 1, producing 15 object records in Pass 2.
2 pages of virtual memory were used to define 1 macro.

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

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

58 GETS were required to define 1 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SYSLOAVEC/OBJ=OBJ\$:SYSLOAVEC MSRCS\$:SYSLOAVEC/UPDATE=(ENHS\$:SYSLOAVEC)+EXECMLS/LIB

0386 AH-BT13A-SE
VAX/VMS V4.0

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This image displays a grid of 144 small terminal window screenshots, arranged in 12 rows and 12 columns. Each window shows a different system utility or command output, typical of a VAX/VMS environment. The windows are densely packed and contain various text-based data, including system status, configuration details, and command results. Some windows are clearly labeled with titles such as:

- SYSPARAM LIS
- SYSLOGNAM LIS
- SYSMTACC LIS
- SYSIMGSTA LIS
- SYSLNM LIS
- SYSLOADEC LIS
- SYSLKWSET LIS
- SYSMAILBX LIS

The overall appearance is that of a comprehensive manual or reference guide for system utilities, where each page represents a different tool or command used for system management.