

EY-0016E-ID-0001

VMS Internals

Source Listings

digital

VMS Internals

Source Listings

Prepared by Educational Services
of
Digital Equipment Corporation

Copyright © 1982, Digital Equipment Corporation.
All Rights Reserved.

The reproduction of this material, in part or whole, is strictly prohibited. For copy information, contact the Educational Services Department, Digital Equipment Corporation, Bedford, Massachusetts 01730.

Printed in U.S.A.

The information in this document is subject to change without notice and should not be construed as a commitment by Digital Equipment Corporation. Digital Equipment Corporation assumes no responsibility for any errors that may appear in this document.

The software described in this document is furnished under a license and may not be used or copied except in accordance with the terms of such license.

Digital Equipment Corporation assumes no responsibility for the use or reliability of its software on equipment that is not supplied by Digital.

The following are trademarks of Digital Equipment Corporation, Maynard, Massachusetts:

DIGITAL	DECsystem-10	MASSBUS
DEC	DECSYSTEM-20	OMNIBUS
PDP	DIBOL	OS/8
DECUS	EDUSYSTEM	RSTS
UNIBUS	VAX	RSX
	VMS	IAS

SOURCE LISTINGS

The following pages contain sample listing files from the VAX/VMS executive. These listings are used in conjunction with the course handouts for selected topics.

Filename	Description
1. ASTDEL.LIS	This file contains the AST delivery interrupt service routine and the routines that queue an AST to a process.
2. RSE.LIS	This file contains the routines that system events are reported to. The routines that change a process state to computable are found here.
3. SCHED.LIS	This file contains the rescheduling interrupt service routine.
4. SYSPCNTRL.LIS	This file contains the system services that control a process state (Hibernate, Wake, Suspend, Resume). Some executive utility routines are also included in this file.
5. SYSWAIT.LIS	This file contains the event flag system services and common code that puts a process into a wait state.
6. SYSCOMMON.LIS	This file contains listheads, vector addresses, etc. for one of the common data bases of the system.
7. SYSPARAM.MAR	This file contains the executive control parameters and certain key variables.
8. SYS.MAP	This file is the map of the executive image.

ASTDEL.LIS

ASTDEL

- AST ENQUEUE AND DELIVERY

27-APR-1982 01:08:27

VAX-11 Macro V03-00

Page 0

(1)	41	HISTORY	; DETAILED
(1)	66	DECLARATIONS	
(1)	90	SCH\$ASTDEL - AST DELIVERY INTERRUPT HAND	
(1)	147	KAST - SPECIAL KERNEL AST DISPATCHING	
(1)	178	ASTDEL EXITS	
(1)	224	NORM - NORMAL AST DELIVERY	
(1)	267	NORMAL KERNEL MODE AST	
(1)	344	NORMAL EXEC, SUPER AND USER MODE AST	
(1)	427	EXESIPAPBKAST - SPECIAL PIGGY BACK KAST	
(1)	455	SCH\$QAST - ENQUEUE AST CONTROL BLOCK FOR	
(1)	587	SCH\$NEWLVL - COMPUTE NEW AST LEVEL	
(1)	627	SCH\$SWAPACBS - SWAP AST CONTROL BLOCKS	
(1)	628	SCH\$REMOVACB - REMOVE AST CONTROL BLOCK	

```

1 .TITLE ASTDEL - AST ENQUEUE AND DELIVERY
2 .IDENT 'V03-000'
3
4 ;
5 ;*****
6 ;*
7 ;* COPYRIGHT (c) 1978, 1980, 1982 BY
8 ;* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
9 ;* ALL RIGHTS RESERVED.
10 ;*
11 ;* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
12 ;* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
13 ;* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
14 ;* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
15 ;* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
16 ;* TRANSFERRED.
17 ;*
18 ;* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
19 ;* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
20 ;* CORPORATION.
21 ;*
22 ;* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
23 ;* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
24 ;*
25 ;*
26 ;*****
27
28 ;++
29 ; FACILITY: EXECUTIVE, SCHEDULER
30 ;
31 ; ABSTRACT:
32 ; ASTDEL CONTAINS THE AST DELIVERY INTERRUPT SERVICE ROUTINE AND THE
33 ; ASSOCIATED SUBROUTINES SCH$QAST AND SCH$NEWLVL. THESE ROUTINES
34 ; IMPLEMENT THE PRIMITIVE AST QUEUEING AND DELIVERY MECHANISMS.
35 ;
36 ; ENVIRONMENT:
37 ; MODE = KERNEL
38 ;--
39 ;
40 ; .PAGE
41 ; .SBTTL HISTORY ; DETAILED
42 ;
43 ; AUTHOR: R. HUSTVEDT CREATION DATE: 1-SEP-76
44 ;
45 ; MODIFIED BY:
46 ;
47 ; V02-009 KTA0054 Kerbey T. Altmann 23-Dec-1918
48 ; Add new piggyback kast routine for IPAST.
49 ; Make EXE$ASTDEL a global symbol.
50 ;
51 ; V02-008 SRB0037 Steve Beckhardt 28-Oct-1981
52 ; Added entry point SCH$REMOVACB.
53 ;
54 ; V02-007 SRB0023 Steve Beckhardt 3-Jun-1981
55 ; Added routine SCH$SWAPACBS.
56 ;
57 ; V02-006 KDM0053 Kathleen D. Morse 15-May-1981

```

ASTDEL

- AST ENQUEUE AND DELIVERY

27-APR-1982 01:08:27 VAX-11 Macro V03-00

Page 2

58 ; Add entry points for loadable multi-processing code.
59 ; Fix a couple comments.
60 ;
61 ; V02-005 RIH0001 Richard I. Hustvedt 25-Aug-1980
62 ; General performance enhancement and re-organization.
63 ;
64


```
66      .SBTTL  DECLARATIONS
67
68 ;
69 ; INCLUDE FILES:
70 ;
71      $ACBDEF          ; AST CONTROL BLOCK DEFINITIONS
72      $IPLDEF         ; IPL DEFINITIONS
73      $PCBDEF         ; PCB DEFINITIONS
74      $PHDDEF         ; PHD DEFINITIONS
75      $PRDEF          ; PROCESSOR REGISTER DEFINITIONS
76      $PRIDEF         ; PRIORITY INCREMENT CLASS DEFS
77      $PSLDEF         ; PSL FIELD DEFINITIONS
78      $SSDEF          ; STATUS CODE DEFINITIONS
79
80 ;
81 ; EQUATED SYMBOLS:
82 ;
83 ASTEXIT=0           ; AST EXIT CHANGE MODE CODE
84 ;
85 ; OWN STORAGE:
86 ;
87      .PSECT  ASEXENONPAGED, LONG
88
```

```

90     .SBTTL  SCH$ASTDEL - AST DELIVERY INTERRUPT HANDLER
91
92 ;++
93 ; FUNCTIONAL DESCRIPTION:
94 ;   SCH$ASTDEL RECEIVES THE AST DELIVERY INTERRUPT (IPL - 2) WHICH
95 ;   IS INITIATED BY AN REI INSTRUCTION DETECTING ASTLVL LESS THAN
96 ;   OR EQUAL TO PSL<CURRENT_MODE>.  THE HEAD OF THE AST QUEUE
97 ;   FOR THE CURRENT PROCESS IS REMOVED AND PROCESSED.  SPECIAL
98 ;   KERNEL MODE ASTS ARE PROCESSED WITH IPL REMAINING AT IPL 2.
99 ;   NORMAL ASTS ARE DELIVERED BY PUSHING THE AST INFORMATION ON
100 ;   THE STACK OF THE MODE RECEIVING THE AST AND THE AST ACTIVE
101 ;   BIT FOR THAT MODE IS SET TO PREVENT SUBSEQUENT ASTS UNTIL THE
102 ;   CURRENT ONE FOR THAT MODE HAS BEEN PROCESSED.
103 ;   SPURIOUS AST INTERRUPTS WILL BE DETECTED AND IGNORED.
104 ;
105 ;   THIS ROUTINE CONTAINS TWO HOOKS FOR LOADABLE MULTI-PROCESSING
106 ;   CODE.  THE FIRST HOOK, MPH$ASTDELHK, IS REPLACED BY A BRANCH
107 ;   TO THE LOADABLE CODE, WHILE THE SECOND HOOK, MPH$ASTDELCONT, IS
108 ;   THE ENTRY POINT AT WHICH THE LOADABLE CODE REJOINS THE COMMON
109 ;   LINE OF EXECUTION.
110 ;
111 ;
112 ; CALLING SEQUENCE:
113 ;   IPL - 2  INTERRUPT
114 ;
115 ;
116 ; INPUT PARAMETERS:
117 ;   00(SP) = PC AT AST DELIVERY INTERRUPT
118 ;   04(SP) = PSL AT AST DELIVERY INTERRUPT
119 ;
120 ; IMPLICIT INPUTS:
121 ;   PCB OF CURRENT PROCESS LOCATED VIA SCH$GL_CURPCB
122 ;   AST CONTROL BLOCK AT HEAD OF AST QUEUE FOR PROCESS
123 ;
124 ; OUTPUT PARAMETERS:
125 ;   NONE
126 ;
127 ; COMPLETION CODES:
128 ;   NONE
129 ;--
130
131     .ALIGN  LONG                ; INTERRUPT ROUTINES ON LW BOUND
132 SCH$ASTDEL::                    ; AST DELIVERY INTERRUPT HANDLER
133     PUSHL  R5                    ; SAVE R0-R5
134     PUSHL  R4                    ; ONE REGISTER AT A TIME FOR
135     PUSHL  R3                    ; SPEED AT THE
136     PUSHL  R2                    ; EXPENSE OF SPACE AND
137     PUSHL  R1                    ; CLARITY
138     PUSHL  R0                    ; (PUSHLS ARE FASTER THAN MOVQ OR PUSHR)
139 GETNEXT:MOVL  W^SCH$GL_CURPCB,R4 ; GET POINTER TO CURRENT PCB
140     SETIPL #IPL$SYNCH            ; BLOCK SYSTEM EVENTS
141 MPH$ASTDELHK::                  ; MULTI-PROCESSING CHECK HOOKS HERE
142     REMQUE @PCBSL_LASTQFL(R4),R5 ; AND REMOVE HEAD OF QUEUE
143     BVS   QEMPTY                ; EXIT IF QUEUE EMPTY
144 MPH$ASTDELCONT::              ; MULTI-PROCESSING CHECK RETURNS TO HERE
145     BCCC  #ACBSV_KAST,ACBSB_RMOD(R5),NORM ; BR IF NORMAL AST

```

```
147     .SBTTL  KAST - SPECIAL KERNEL AST DISPATCHING
148 ;
149 ; AST LEVEL WILL BE LEFT AT 0 (KERNEL) WHILE PROCESSING THE SPECIAL KERNEL
150 ; AST.  IT WILL BE CORRECTED EVENTUALLY BEFORE IPL IS DROPPED BELOW
151 ; IPL$_ASTDEL BY REPEATED TRIPS TO GETNEXT.
152 ;
153 ; THE KERNEL AST ROUTINE IS ENTERED VIA A JSB TO THE SPECIFIED
154 ; ADDRESS WITH IPL=2 AND THE POINTER TO THE AST CONTROL BLOCK
155 ; IN R5.  IT IS THE RESPONSIBILITY OF THE KERNEL AST ROUTINE
156 ; TO PROPERLY RELEASE OR OTHERWISE DISPOSE OF THE AST CONTROL
157 ; BLOCK.  THE PCB BASE ADDRESS IS IN R4.
158 ;
159 ; REGISTERS R0-R5 HAVE BEEN PRESERVED AND ARE AVAILABLE FOR
160 ; USE BY THE AST ROUTINE.
161 ;
162 ;
163 ; SINCE KAST ROUTINES OFTEN QUEUE NORMAL ASTS, QIO FOR EXAMPLE, ATTEMPT
164 ; TO DELIVER FURTHER ASTS WITHOUT INCURRING REDUNDANT EXIT AND ENTRY COSTS
165 ;
166
167     PUSHAB  GETNEXT                ; SET RETURN ADDRESS TO CONTINUE WITH Q
168     SETIPL  #IPL$_ASTDEL           ; DROP IPL TO PERMIT SYSTEM EVENTS
169     JMP     @ACB$L_KAST(R5)         ; DO KERNEL MODE AST
170
171 ;
172 ; THIS UNUSUAL CALLING SEQUENCE IS TO MINIMIZE THE NUMBER OF TAKEN
173 ; BRANCHES AND IS EQUIVALENT TO:
174 ;   JSB     @ACB$L_KAST(R5)
175 ;   BRB     GETNEXT
176 ;
```

```

178 .SBTTL ASTDEL EXITS
179 ;
180 ; IF THE ASTMODE IS DISABLED OR ACTIVE, THEN SET ASTLVL TO PREVENT
181 ; FURTHER INTERRUPTS. THERE IS AN ASSUMPTION (AND HAS BEEN FOREVER)
182 ; THAT AN INNER ACCESS MODE WILL NOT EXIT TO AN OUTER ACCESS MODE
183 ; WITH EITHER AN ACTIVE AST OR LEAVING ASTS DISABLED.
184 ;
185
186 BLOCKED: ;
187
188 ;
189 ; THE AST DELIVERY INTERRUPT WAS SPURIOUS, A PENDING IPL-2 INTERRUPT LEFT
190 ; OVER FROM THE PREVIOUS PROCESS. THESE OCCUR INFREQUENTLY AND ARE
191 ; DETECTED BY COMPARING THE ACCESS MODE OF THE FIRST AST IN THE QUEUE
192 ; WITH THE CURRENT MODE OF THE INTERRUPTED PSL. SPURIOUS IPL-2 INTERRUPTS
193 ; ARE ALSO DETECTED BY THE REMQUE ABOVE FINDING AN EMPTY QUEUE.
194 ;
195
196 SPURIOUS: ;
197     INSQUE (R5),PCBSL_ASTQFL(R4) ; REQUEUE AT HEAD OF QUEUE
198     BRB     SETLVL                ; AND SET NEW ASTLEVEL
199
200 ;
201 ; THE AST QUEUE IS NOW EMPTY. EITHER THE AST DELIVERY INTERRUPT IS
202 ; SPURIOUS OR ALL OF THE QUEUED ASTS HAVE BEEN CANCELED BY SIMPLY REMOVING
203 ; THEM FROM THE QUEUE. INSURE THAT ASTLVL IS SET TO PREVENT FURTHER
204 ; INTERRUPTS.
205 ; R4 - PCB ADDRESS
206 ;
207 MPH$QEMPTYCONT: ; MULTI-PROCESSING CHECK RETURNS TO HERE
208 QEMPTY:
209     MOVL    #4,R1                ; SET NULL AST LEVEL
210 ;
211 ; SET AST LEVEL TO BEST ESTIMATE OF CORRECT ACCESS MODE.
212 ;
213 ; R1 - NEW ACCESS MODE TO SET IN ASTLVL
214 ;
215 SETLVL:     MOVL    PCBSL_PHD(R4),R0 ; GET PROCESS HEADER ADDRESS
216     MOVB    R1,PHDSB_ASTLVL(R0)    ; SET ASTLEVEL IN HW PCB
217     MTPR    R1,#PRS_ASTLVL        ; AND PROCESSOR REGISTER
218 ASTDEXIT:   ; AST DELIVERY EXIT
219     MOVQ    (SP)+,R0              ; RESTORE REGISTERS R0,R1
220     MOVQ    (SP)+,R2              ; RESTORE REGISTERS R2,R3
221     MOVQ    (SP)+,R4              ; RESTORE REGISTERS R4,R5
222     REI                                ; AND RETURN
  
```

```

224 .SBTTL NORM - NORMAL AST DELIVERY
225 ;
226 ; AT THIS POINT THE KERNEL STACK IS:
227 ; 00(SP) = SAVED R0
228 ; 04(SP) = SAVED R1
229 ; 08(SP) = SAVED R2
230 ; 12(SP) = SAVED R3
231 ; 16(SP) = SAVED R4
232 ; 20(SP) = SAVED R5
233 ; 24(SP) = SAVED PC
234 ; 28(SP) = SAVED PSL
235 ;
236 ; R0 - PHD ADDRESS
237 ; R1 - ACCESS MODE OF NEXT ACB OR NULL AST LEVEL
238 ; R4 - PCB ADDRESS
239 ; R5 - ACB ADDRESS
240 ;
241
242 NORM: ; NORMAL AST DELIVERY
243 ASSUME ACBSV_MODE EQ 0
244 ASSUME ACBSS_MODE EQ 2
245 CLR R1 ; BACKGROUND R3 WITH ZEROES
246 BICB3 #^C<3>,ACBSB_RMOD(R5),R1; EXTRACT ACCESS MODE FOR CURRENT AST
247 CMPZV #PSL$V_CURMOD,#PSL$S_CURMOD,28(SP),R1 ; IS CURRENT MODE LEGAL
248 BLSS SPURIOUS ; BR IF SPURIOUS
249 MOVAB (R1)+,R3 ; SET FOR NEXT ACCESS MODE
250 BBC R3,PCBSB_ASTEN(R4),BLOCKED ; BR IF AST DISABLED
251 BBSS R3,PCBSB_ASTACT(R4),BLOCKED ; SET AST ACTIVE
252 MTPR R1,#PR$ASTLVL ; SET AST LEVEL IN PROCESSOR REGISTER
253 MOVL PCB$L_PHD(R4),R0 ; GET PROCESS HEADER ADDRESS
254 MOV B R1,PHD$B_ASTLVL(R0) ; SET AST LEVEL IN HW PCB
255 BBC #ACBSV_QUOTA,ACBSB_RMOD(R5),30$ ; SKIP IF NO QUOTA ACCOUNTING
256 INCW PCB$W_ASTCNT(R4) ; UPDATE OUTSTANDING COUNT
257 30$ ; AND DELIVER AST
258 SETIPL #IPL$ASTDEL ; NOW DROP IPL TO PERMIT SYSTEM EVENTS
259 ;
260 ; A NEW VALUE FOR ASTLVL HAS NOW BEEN COMPUTED AND SET.
261 ; THE AST REPRESENTED BY THE AST CONTROL BLOCK LOCATED VIA
262 ; R5 CAN NOW BE DELIVERED.
263 ;
264 TSTL R3 ; CHECK FOR DELIVERY TO KERNEL
265 BNEQ NOTKMODE ; BR IF NOT KERNEL MODE

```

```

267 .SBTTL NORMAL KERNEL MODE AST
268 ;
269 ; DELIVER NORMAL AST TO KERNEL MODE
270 ;
271 KMODE: MOVQ (SP)+,R0 ; RESTORE R0,R1
272 CMPL 16(SP),#ASTEXIT_CHMK ; DELIVERY OCCUR DURING ASTEXIT REI?
273 BNEQ 40$ ; NO, JUST CONTINUE
274 BITB #<PSLsm_CURMOD- ; WAS INTERRUPTED MODE KERNEL?
275 @<-PSLsv_CURMOD>>,23(SP);
276 BEQL 50$ ; YES, PREVIOUS AST R0,R1,PC,PSL ALREADY ON STACK
277 ;
278 ; 00(SP) = R2, 04(SP) = R3, 08(SP) = R4, 12(SP) = R5,
279 ; 16(SP) = PC, 20(SP) = PSL
280 ;
281 40$:
282 MOVQ 8(SP),-(SP) ; SHUFFLE STACK
283 ;
284 ; 00(SP) = R4, 04(SP) = R5, 08(SP) = R2, 12(SP) = R3,
285 ; 16(SP) = R4, 20(SP) = R5, 24(SP) = PC, 28(SP) = PSL
286 ;
287 MOVQ 8(SP),-(SP) ; OPEN FOR AST ARG LIST
288 ;
289 ; 00(SP) = R2, 04(SP) = R3, 08(SP) = R4, 12(SP) = R5,
290 ; 16(SP) = R2, 20(SP) = R3, 24(SP) = R4, 28(SP) = R5,
291 ; 32(SP) = PC, 36(SP) = PSL
292 ;
293 MOVQ R0,24(SP) ; SET R0,R1 IN ARG LIST
294 50$: MOVL ACBSL_ASTPRM(R5),20(SP) ; SET AST PARAMETER IN ARG LIST
295 MOVL #5,16(SP) ; SET COUNT FOR ARGUMENT LIST
296 MOVL R5,R0 ; RELEASE AST CONTROL BLOCK
297 PUSHL ACBSL_AST(R5) ; SAVE AST ROUTINE ADDRESS
298 BBC #ACBSV_PKAST,ACBSB_RMOD(R5),60$ ; BR IF NO PIGGY-BACK KAST
299 ;
300 ; CALL PIGGY-BACK SPECIAL KERNEL AST ROUTINE.
301 ; R5 - ACB ADDRESS (MUST BE PRESERVED)
302 ; IPL = IPL$_ASTDEL (MUST NOT BE LOWERED)
303 ;
304 JSB @ACBSL_KAST(R5) ; CALL KAST ROUTINE
305 BRB 70$ ; NO DELETE FOR PKAST
306 60$: BBS #ACBSV_NODELETE,ACBSB_RMOD(R5),70$; BR IF NOT DELETEABL
307 BSBW EXESDEANONPAGED ; TO DYNAMIC POOL
308 70$: MOVQ (SP)+,R1 ; RESTORE R1,R2
309 MOVQ (SP)+,R3 ; RESTORE R3,R4
310 MOVL (SP)+,R5 ; RESTORE R5
311 SETIPL #0 ; DROP IPL TO ZERO
312 ; BRB EXESASTDEL ; FALL THROUGH TO CALL AST ROUTINE

```

```
314 ;
315 ; CALL AST ROUTINE WITH AST ARGUMENT LIST
316 ;
317 ; THE CALL IS EXECUTED AT THE MODE WHICH RECEIVED THE AST WITH
318 ; THE AST ARGUMENT LIST ON THE TOP OF THE STACK. WHEN THE
319 ; AST ROUTINE RETURNS FROM THE CALL, AN ASTEXIT CHANGE MODE
320 ; TO KERNEL INSTRUCTION WILL BE ISSUED. ASTEXIT WILL RESET
321 ; THE AST ACTIVE BIT FOR THE CURRENT MODE AND MAY CAUSE DELIVERY
322 ; OF ADDITIONAL ASTS.
323 ;
324 ; AST ARGUMENT LIST:
325 ; -----
326 ;
327 ; 00(SP) = NUMBER OF ARGUMENTS, =5
328 ; 04(SP) = AST PARAMETER
329 ; 08(SP) = SAVED R0
330 ; 12(SP) = SAVED R1
331 ; 16(SP) = SAVED PC
332 ; 20(SP) = SAVED PSL
333 ;
334 EXESASTDEL:: ; DELIVER AST CALL
335 CALLG (SP),(R1) ; CALL AST ROUTINE
336 EXESASTRET:: ; RETURN ADDRESS FOR AST CALL
337 ADDL #8,SP ; REMOVE ARG COUNT AND ASTPRM
338 CHMK S^#ASTEXIT ; AND EXIT FROM AST ROUTINE
339 ASTEXIT_CHMK: ; RETURN ADDRESS FOR AST EXIT CHMK
340 MOVQ (SP)+,R0 ; RESTORE R0,R1
341 REI ; EXECUTE REI IN MODE OF AST
342
```

```

344 .SBTTL NORMAL EXEC, SUPER AND USER MODE AST
345 ;
346 ; DELIVER NORMAL AST FOR EXEC, SUPER AND USER MODE
347 ;
348 ;
349 NOTKMODE: ; NOT AN AST FOR KERNEL MODE
350 ;
351 MFPR R3,R1 ; GET STACK POINTER
352 IFNOWRT #24,-24(R1),STACKERR,R3 ; ENOUGH STACK SPACE??
353 MOVQ 24(SP),-(R1) ; MOVE PC,PSL TO PROPER STACK
354 MOVQ (SP)+,-(R1) ; AND R0,R1 FROM KERNEL STACK
355 CMPL 16(SP),#ASTEXIT_CHMK ; DELIVERY OCCUR DURING ASTEXIT REI?
356 BEQL 50$ ; YES, CHECK FOR SAME MODE
357 10$: MOVL ACBSL_ASTPRM(R5),-(R1) ; SET AST PARAMETER IN ARG LIST
358 MOVL #5,-(R1) ; AND FINALLY, ARGUMENT COUNT OF 5
359 MTPR R1,R3 ; SAVE UPDATED STACK POINTER
360 PUSHL ACBSL_AST(R5) ; STACK AST ENTRY POINT
361 MOVL R5,R0 ; SET ADDRESS OF ACB FOR RELEASE
362 MOVAB EXESASTDEL,20(SP) ; SET PC TO AST DELIVERY CALL
363 MOVVAL (R3)[R3],R3 ; MODE=MODE*5, CURMOD=PRVMOD
364 ASSUME PSL$V_CURMOD EQ PSL$V_PRVMOD+2; FOR ABOVE MOVVAL
365 ASHL #PSL$V_PRVMOD,R3,24(SP) ; SYNTHESIZE PSL FOR PROPER MODE
366 BITB #<ACBSM_NODELETE!ACBSM_PKAST>,ACBSB_RMOD(R5) ; SPECIAL ACTIONS?
367 BNEQ 40$ ; BR IF SO AND DECODE
368 20$: BSBW EXESDEANONPAGED ; RELEASE AST CONTROL BLOCK
369 30$: MOVQ (SP)+,R1 ; RESTORE R1,R2
370 MOVQ (SP)+,R3 ; RESTORE R3,R4
371 MOVL (SP)+,R5 ; RESTORE R5
372 REI ; AND ENTER AST MODE
373 ; DROPS IPL TO ZERO
374 40$: BBC #ACBSV_PKAST,ACBSB_RMOD(R5),30$ ; BR IF NO PIGGY-BACK K
375 ;
376 ; CALL PIGGY-BACK SPECIAL KERNEL AST ROUTINE.
377 ; R5 - ACB ADDRESS (MUST BE PRESERVED)
378 ; IPL = IPL$_ASTDEL (MUST NOT BE LOWERED)
379 ;
380 JSB @ACBSL_KAST(R5) ; CALL KAST ROUTINE
381 BRB 30$ ; NO DELETE FOR PKAST
382 ;
383 ; SPECIAL CASE FOR AST DURING AST EXIT.
384 ;
385 50$: CMPZV #PSL$V_CURMOD,- ; WAS AST'S MODE THE ONE INTERRUPTED?
386 #PSL$S_CURMOD,20(SP),R3 ;
387 BNEQ 10$ ; NO, JUST CONTINUE
388 ADDL #16,R1 ; POP R0,R1,PC,PSL - ALREADY ON STACK
389 BRB 10$ ; CONTINUE
390 ;
391 ;
392 ; REFLECT STACK ERROR
393 ;
394 STACKERR: ; ERROR IN STACK MOVE
395 CMPL #PSL$C_USER,R3 ; IS THIS AST FOR USER MODE?
396 BNEQ 10$ ; NO, THEN WE CANT EXTEND THE STACK
397 PUSHR #*M<R1,R2,R3,R4,R5> ; SAVE NECESSARY REGISTERS
398 MOVAB -24(R1),R2 ; COMPUTE DESIRED STACK TOP ADDRESS
399 JSB EXE$EXPANDSTK ; EXPAND USER STACK TO DESIRED SIZE
400 POPR #*M<R1,R2,R3,R4,R5> ; RESTORE REGISTERS
    
```


ASTDEL

- AST ENQUEUE AND DELIVERY

27-APR-1982 01:08:27 VAX-11 Macro V03-00

Page 11

```
401      BLBS      R0,NOTKMODE          ; CONTINUE IF SPACE CREATED
402 10$:      BBCC      R3,PCBSB_ASTACT(R4),20$ ; CLEAR AST ACTIVE BIT
403 20$:      MOVQ      16(SP),-(SP)    ; CREATE SPACE ON STACK
404      MOVQ      16(SP),-(SP)    ; BY MOVING R2-R5 DOWN
405      MOVQ      40(SP),32(SP)    ; SAVE PC,PSL AT INTERRUPT
406      MOVL      ACBSL_AST(R5),40(SP) ; SET PC AT FAULT TO AST ADDRESS
407      MOVL      ACBSL_ASTPRM(R5),28(SP) ; SET ASTPRM IN ARGLIST
408      MOVL      R1,24(SP)        ; SAVE STACK VA AT FAULT
409      MULL      #1+<1@<PSL$V_CURMOD-PSL$V_PRVMOD>>,R3 ; CURRENT MODE = PREV
410      ROTL      #PSL$V_PRVMOD,R3,44(SP) ; SYNTHESIZE NEW PSL FOR FAULT
411      MOVL      R5,R0            ; SET ADDRESS FOR RELEASE OF ACB
412      BBC       #ACBSV_PKAST,ACBSB_RMOD(R5),30$ ; BR IF NO PIGGY-BACK KAST
413 ;
414 ; CALL PIGGY-BACK SPECIAL KERNEL AST ROUTINE.
415 ; R5 - ACB ADDRESS (MUST BE PRESERVED)
416 ; IPL = IPLS_ASTDEL (MUST NOT BE LOWERED)
417 ;
418      JSB       @ACBSL_KAST(R5)    ; CALL KAST ROUTINE
419      BRB       40$                ; NO DELETE FOR PKAST
420 30$:      BBS       #ACBSV_NODELETE,ACBSB_RMOD(R5),40$ ; BR IF NOT DELETEAB
421      BSBW      EXESDEANONPAGED    ; AND DEALLOCATE IT
422 40$:      POPR      #^M<R2,R3,R4,R5> ; RESTORE ALL REGISTERS
423      POPR      #^M<R0,R1>        ; FROM POINT OF INTERRUPT
424      SETIPL    #0                ; DROP IPL TO 0
425      BRW       EXESASTFLT        ; REFLECT EXCEPTION
```

```
427     .SBTTL  EXESIPAPBKAST - SPECIAL PIGGY BACK KAST FOR IPAST SERVICE
428 ;++
429 ; FUNCTIONAL DESCRIPTION:
430 ; THIS ROUTINE IS A SPECIAL PIGGY BACK KAST ROUTINE CALLED BY
431 ; ASTDEL DURING DELIVERY OF THE INTER-PROCESS AST. IT TAKES THE
432 ; IPAST INDEX RESIDING IN ACBSL_AST AND USES IT TO INDEX INTO THE
433 ; VECTOR OF AST ADDRESSES LOCATED IN THE VECTOR PAGE OF THE CONTROL
434 ; REGION. THIS ADDRESS REPLACES WHAT WAS ON THE STACK WHEN THIS
435 ; ROUTINE WAS ENTERED. ROUTINE IS INCLUDED HERE SINCE ITS HAS
436 ; KNOWLEDGE OF HOW STACK LOOKS WHEN PIGGYBACK AST IS CALLED.
437 ;
438 ; INPUTS:
439 ; 4(SP) --> AST ADDRESS
440 ; ACBSL_AST(R5) = INDEX OF IPASTS
441 ;
442 ; OUTPUTS:
443 ; 4(SP) --> NEW AST ADDRESS
444 ;
445 ;--
446
447 EXESIPAPBKAST::
448     MOVL    ACBSL_AST(R5),R2          ; Pick up index
449     MOVL    @#CTLSAL_IPASTVEC[R2],R0 ; Get IPAST address
450     BEQL    10$                      ; No longer in use
451     MOVL    R0,4(SP)                 ; Fixup AST delivery address
452 10$:     MOVL    R5,R0                ; Transfer address of packet
453     BRW     EXESDEANONPAGED          ; Get rid of it
```

```

455     .SBTTL  SCH$QAST - ENQUEUE AST CONTROL BLOCK FOR PROCESS
456 ;++
457 ; FUNCTIONAL DESCRIPTION:
458 ;   SCH$QAST INSERTS THE AST CONTROL BLOCK SUPPLIED IN THE PROPER
459 ;   POSITION BY ACCESS MODE IN THE AST QUEUE OF THE PROCESS SPECIFIED
460 ;   BY THE PID FIELD OF THE AST CONTROL BLOCK.  AN AST ARRIVAL EVENT
461 ;   IS THEN REPORTED FOR THE PROCESS TO REACTIVATE FROM A WAIT STATE
462 ;   IF APPROPRIATE.  THE AST CONTROL BLOCK WILL BE RELEASED IMMEDIATELY
463 ;   IF THE PID SPECIFIES A NON-EXISTENT PROCESS.
464 ;
465 ;   LOADABLE MULTI-PROCESSING CODE WILL REPLACE THIS ROUTINE WITH
466 ;   ENTIRELY NEW CODE, AT MPH$QAST.
467 ;
468 ; CALLING SEQUENCE:
469 ;   BSB/JSB SCH$QAST
470 ;
471 ; INPUT PARAMETERS:
472 ;   R2 - PRIORITY INCREMENT CLASS
473 ;   R5 - POINTER TO AST CONTROL BLOCK
474 ;
475 ; IMPLICIT INPUTS:
476 ;   PCB OF PROCESS IDENTIFIED BY PID FIELD
477 ;
478 ; OUTPUT PARAMETERS:
479 ;   R0 - COMPLETION STATUS CODE
480 ;   R4 - PCB ADDRESS OF PROCESS FOR WHICH AST WAS QUEUED
481 ;
482 ; SIDE EFFECTS:
483 ;   THE PROCESS IDENTIFIED BY THE PID IN THE AST CONTROL BLOCK
484 ;   WILL BE MADE EXECUTABLE IF NOT SUSPENDED.
485 ;
486 ; COMPLETION CODES:
487 ;   SSS_NORMAL - NORMAL SUCCESSFUL COMPLETION STATUS
488 ;   SSS_NONEXPR - NON-EXISTENT PROCESS
489 ;--
490     .ENABL  LSB
491 QNONEXPR:
492     MOVL    R5,R0                ; RELEASE AST CONTROL BLOCK
493     BSBW    EXE$DEANONPAGED     ; IF NO SUCH PROCESS
494     MOVZWL  #SSS_NONEXPR,R0     ; SET ERROR STATUS CODE
495     BRB     QEXIT                ; AND EXIT
496
497 MPH$QAST::
498 SCH$QAST::
499     MOVZWL  ACB$L_PID(R5),R0     ; GET PROCESS INDEX FOR AST TARGET
500     DSBINT  #IPLs_SYNCH        ; DISABLE SYSTEM EVENTS
501     MOVL    @W^SCH$GL_PCBVEC[R0],R4 ; LOOK UP PCB ADDRESS
502     CMLP    ACB$L_PID(R5),PCB$L_PID(R4) ; CHECK FOR MATCH IN PID
503     BNEQ    QNONEXPR            ; PID MISMATCHES
504     CLRL    R0                  ; ASSUME KERNEL MODE AND CLEAR HIGH BITS
505     INSQUE  (R5),PCB$L_ASTQFL(R4) ; ASSUME QUEUE IS EMPTY AND ATTEMPT INSER
506     BNEQ    50$                 ; BR IF IT WAS NOT EMPTY
507     TSTB    ACB$B_RMOD(R5)      ; CHECK FOR SPECIAL KERNEL AST
508     BLSS    10$                 ; BR IF YES
509     BICB3   #*C<3>,ACB$B_RMOD(R5),R0 ; GET AST MODE
510 ;
511 ; THE PROCESS HEADER ADDRESS IS ALWAYS A SYSTEM SPACE ADDRESS (NEGATIVE NU

```

```

512 ; WHILE THE PROCESS HEADER IS RESIDENT. DURING THE OUTSWAP TRANSITION IT
513 ; IS THE BALANCE SLOT INDEX, A SMALL POSITIVE NUMBER. FINALLY, AFTER
514 ; OUTSWAP IT IS SET TO ZERO. HENCE, THE FOLLOWING TEST COMBINES THE FETCH
515 ; OF THE PHD ADDRESS WITH THE TEST FOR PROCESS RESIDENCE.
516 ;
517 10$:      MOVL      PCB$L_PHD(R4),R1 ; POINT TO PROCESS HEADER
518          BGEQ      20$              ; DON'T SET ASTLVL IF NOT RESIDENT
519          MOV      R0,PHD$B_ASTLVL(R1) ; SET ASTLVL IN PROCESS HEADER
520 20$:      CMPL      W*SCH$GL_CURPCB,R4 ; IS PROCESS CURRENT PROCESS
521          BEQL      40$              ; YES,
522          RPTEVT    AST              ; REPORT AST ARRIVAL
523 30$:      MOVZWL    #SS$NORMAL,R0    ; SET SUCCESS STATUS CODE
524 QEXIT:    ENBINT   ; ENABLE INTERRUPTS
525          RSB      ; AND RETURN
526 ;
527 ; IF THE AST IS BEING ENQUEUED FOR THE CURRENT PROCESS, THEN THE REPORTING
528 ; OF THE AST EVENT CAN BE BYPASSED AND THE ASTLVL PROCESSOR REGISTER MUST
529 ; SET INSTEAD.
530 ;
531 40$:      MTPR      R0,#PR$ASTLVL ; ALSO SET ASTLVL REGISTER
532          BRB      30$              ;
533 ;
534 ; THE AST QUEUE WAS NOT EMPTY (ITS USUAL CONDITION) AND THE PROPER
535 ; POSITION FOR THE NEW AST MUST BE LOCATED. SINCE THE AST CONTROL
536 ; BLOCK HAS BEEN ERRONEOUSLY INSERTED ON THE QUEUE, IT MUST BE REMOVED
537 ; FIRST.
538 ;
539 50$:      REMQUE   (R5),R5          ; ELSE CORRECT MISTAKE
540          MOVAL    PCB$L_ASTQFL(R4),R1 ; POINT TO QUEUE HEADER
541          MOVL     (R1),R3          ; GET FIRST ENTRY ON QUEUE
542          TSTB    ACB$B_RMOD(R5)    ; CHECK FOR SPECIAL KERNEL AST
543          BGEQ    70$              ; BR IF NOT
544 ;
545 ; THE NEW AST IS A SPECIAL KERNEL AST. IT WILL GO AFTER ALL OTHER SPECIAL
546 ; KERNEL ASTS OR AT THE HEAD OF THE QUEUE IF THERE ARE NONE.
547 ;
548 60$:      CMPL     R1,R3          ; CHECK FOR END OF QUEUE
549          BEQL    110$            ; BR IF NOT
550          TSTB    ACB$B_RMOD(R3)   ; CHECK FOR SPECIAL KERNEL IN QUEUE
551          BGEQ    110$            ; BR IF NOT
552          MOVL    (R3),R3          ; FLINK ON TO NEXT ACB
553          BRB    60$              ;
554 ;
555 ; THE NEW AST IS A NORMAL AST. IT WILL GO AFTER ALL SPECIAL KERNEL ASTS
556 ; AND ASTS WITH LOWER ACCESS MODE.
557 ;
558 70$:      BICB3    #^C<3>,ACB$B_RMOD(R5),R0 ; GET AST MODE
559 80$:      CMPL     R1,R3          ; CHECK FOR END OF QUEUE
560          BEQL    110$            ; INSERT IF AT END
561          CMPZV    #ACB$V_MODE,#ACB$S_MODE,-
562          ACB$B_RMOD(R3),R0        ; COMPARE ACCESS MODES
563          BGTR    100$            ; IF GTR AT RIGHT PLACE
564 90$:      MOVL     (R3),R3          ; FLINK ON TO NEXT ACB
565          BRB      80$              ;
566 100$:     TSTB    ACB$B_RMOD(R3)   ; IS THIS ENTRY A SPECIAL KAST?
567          BLSS    90$              ; YES, MUST GO AFTER THIS
568 ;

```

ASTDEL

- AST ENQUEUE AND DELIVERY

27-APR-1982 01:08:27 VAX-11 Macro V03-00

Page 15

569 ; NOW THE CORRECT POSITION HAS BEEN LOCATED. INSERT THE AST CONTROL BLOCK

570 ; ON THE QUEUE AND COMPUTE THE NEW VALUE FOR ASTLVL BY INTERROGATING THE

571 ; MODE OF THE AST CONTROL BLOCK AT THE HEAD OF THE QUEUE.

572 ;

573 110\$: INSQUE (R5),@ACBSL_ASTQBL(R3) ; INSERT AFTER PREVIOUS

574 CLRL R0 ; ASSUME KERNEL MODE

575 MOVL PCBSL_ASTQFL(R4),R1 ; GET HEAD OF AST QUEUE

576 TSTB ACBSB_RMOD(R1) ; IS IT KAST?

577 BLSS 10\$; BR IF YES TO SET ASTLVL

578 BICB3 #^C<3>,ACBSB_RMOD(R1),R0 ; GET AST MODE FOR HEAD OF QUEUE

579 BRB 10\$; GO SET ASTLVL

580

581 .DSABL LSB

582 ASSUME ACBSV_MODE EQ 0

583 ASSUME ACBSS_MODE EQ 2

584 ASSUME ACBSV_KAST EQ 7

585


```
627 .SBTTL SCH$SWAPACBS - SWAP AST CONTROL BLOCKS
628 .SBTTL SCH$REMOVACB - REMOVE AST CONTROL BLOCK
629
630 ;++
631 ;
632 ; FUNTIONAL DESCRIPTION:
633 ;
634 ; SCH$SWAPACBS REMOVES AN ACB FROM AN AST QUEUE AND INSERTS ANOTHER
635 ; ACB IN ITS PLACE. I.E. IT SWAPS THE TWO ACBS. THIS IS NORMALLY
636 ; DONE BECAUSE THE ACB BEING REMOVED IS PART OF A LARGER STRUCTURE
637 ; THAT MUST BE FREED UP FOR ANOTHER PURPOSE. THE ACB BEING
638 ; INSERTED IS NORMALLY A COPY OF THE ONE BEING REMOVED EXCEPT THAT THE
639 ; ACB$M_NODELETE BIT IS NORMALLY CLEARED. I.E. THE ONE BEING
640 ; REMOVED WAS NOT DELETABLE BUT THE ONE BEING INSERTED IS.
641 ;
642 ;
643 ; SCH$REMOVACB IS AN ALTERNATE ENTRY POINT THAT SIMPLY REMOVES
644 ; AN ACB FROM AN AST QUEUE.
645 ;
646 ; CALLING SEQUENCE:
647 ;
648 ; BSB/JSB SCH$SWAPACBS
649 ; BSB/JSB SCH$REMOVACB
650 ; NOTE: THESE ROUTINES MUST BE CALLED AT IPL$_SYNCH
651 ;
652 ; INPUT PARAMETERS:
653 ;
654 ; R2 ADDRESS OF ACB TO INSERT (SCH$SWAPACBS ONLY)
655 ; R5 ADDRESS OF ACB TO REMOVE
656 ;
657 ; OUTPUT PARAMETERS:
658 ;
659 ; NONE
660 ;--
661
662 SCH$SWAPACBS::
663     INSQUE (R2),(R5) ; INSERT NEW ACB AFTER OLD ONE
664 SCH$REMOVACB::
665     REMQUE (R5),R5 ; REMOVE OLD ACB
666     RSB
667
668
669
670 .END
```

RSE.LIS

RSE

- REPORT SYSTEM EVENT

27-APR-1982 01:59:22

VAX-11 Macro V03-00

Page 0

(1)	40	HISTORY	; DETAILED
(1)	82	DECLARATIONS	
(1)	141	SCH\$RSE - REPORT SYSTEM EVENT	
(1)	274	SCH\$UNWAIT - DECREMENT COUNT IN WAIT QUE	
(1)	326	SITUATIONAL PRIORITY INCREMENT TABLE	
(1)	345	SCH\$CHSE - CHANGE STATE TO EXECUTABLE	
(1)	441	SWPO - SWAP OUT SIMPLE NON-EXECUTABLE	
(1)	459	SCH\$QEND - QUANTUM END ROUTINE	
(1)	611	SENDAST - Send AST to process	
(1)	658	SCH\$WAKE - WAKE PROCESS INTERNAL	
(1)	696	SCH\$SWPWAKE - WAKE SWAPPER PROCESS	

```
1 .TITLE RSE - REPORT SYSTEM EVENT
2 .IDENT 'V03-000'
3
4 ;
5 ;*****
6 ;*
7 ;* COPYRIGHT (c) 1978, 1980, 1982 BY *
8 ;* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *
9 ;* ALL RIGHTS RESERVED. *
10 ;*
11 ;* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
12 ;* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *
13 ;* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *
14 ;* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
15 ;* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *
16 ;* TRANSFERRED. *
17 ;*
18 ;* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *
19 ;* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *
20 ;* CORPORATION. *
21 ;*
22 ;* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
23 ;* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
24 ;*
25 ;*
26 ;*****
27
28 ;++
29 ; FACILITY: EXECUTIVE, SCHEDULER
30 ;
31 ; ABSTRACT:
32 ; THIS MODULE CONTAINS THE SYSTEM EVENT REPORTING ROUTINES AND
33 ; THEIR SUPPORTING SUBROUTINES.
34 ;
35 ; ENVIRONMENT:
36 ; MODE = KERNEL
37 ;--
38 ;
```

40 .SBTTL HISTORY ; DETAILED
41 ;
42 ; AUTHOR: R. HUSTVEDT CREATION DATE: 6-SEP-76
43 ;
44 ; V02-014 LJK0093 Lawrence J. Kenah 1-Dec-1981
45 ; Add global label to allow SENDAST mechanism to be available
46 ; as a general mechanism for delivering EXIT ASTs to a
47 ; process.
48 ;
49 ; V02-013 LJK0085 Lawrence J. Kenah 17-Nov-1981
50 ; Alter method in which process that has exceeded its CPU
51 ; time limit gets extra time for execution.
52 ; Do not deliver ASTs for automatic working set adjustment
53 ; or CPU time expiration if process is marked for delete.
54 ;
55 ; V02-012 HRJ0033 Herb Jacobs 08-Nov-1981
56 ; Remove use of AWSMAX limiting parameter.
57 ;
58 ; V02-011 HRJ0020 Herb Jacobs 17-Jul-1981
59 ; Account for WSEXTENT being index rather than size.
60 ;
61 ; V02-010 JLV0050 Jake VanNoy 2-Jul-1981
62 ; Changed PSECT names from ASE1, ASE2 to AES1, AES2 to
63 ; allow SYSBRDCST to grow with affecting the size of
64 ; this module.
65 ;
66 ; V02-009 HRJ0020 Herb Jacobs 20-Apr-1981
67 ; Added support to allow working sets to conditionally grow
68 ; to new quota WSEXTENT based on system wide BORROWLIM.
69 ;
70 ; V02-008 LJK0012 Lawrence J. Kenah 2-Mar-1981
71 ; Prevented enqueueing of multiple ASTs for automatic working set
72 ; adjustment by using input access mode parameter as flag.
73 ; Put this check into common code with enqueueing of ASTs for
74 ; CPU time limit expiration.
75 ;
76 ; V02-007 SRB0007 Steve Beckhardt 22-Oct-1980
77 ; Fixed bug in cpu time expiration AST handler by
78 ; clearing the AST.
79 ;
80

RSE - REPORT SYSTEM EVENT
27-APR-1982 01:59:22 VAX-11 Macro V03-00 Page 4

139 .PSECT AES1,BYTE

```

141 .SBTTL SCH$RSE - REPORT SYSTEM EVENT
142
143 ;++
144 ; FUNCTIONAL DESCRIPTION:
145 ; SCH$RSE RECEIVES SYSTEM EVENT REPORTS FROM VARIOUS SOURCES
146 ; AND PERFORMS THE APPROPRIATE ACTION FOR THE SPECIFIED PROCESS.
147 ; EVENT REPORTING MUST BE PERFORMED WITH IPL=IPL$_SYNCH.
148 ; AS A SIDE EFFECT OF AN EVENT REPORT, THE RESCHEDULING INTERRUPT
149 ; MAY BE TRIGGERED IF APPROPRIATE.
150 ;
151 ; CALLING SEQUENCE:
152 ; BSB/JSB SCH$RSE
153 ; .BYTE EVTS_EVENTNAME
154 ;
155 ; THIS CALLING SEQUENCE IS GENERATED BY THE RPTEVT SYSTEM MACRO
156 ;
157 ; REPEVT EVENTNAME
158 ;
159 ; INPUT PARAMETERS:
160 ; R2 - SITUATIONAL PRIORITY INCREMENT CLASS NUMBER
161 ; R4 - PCB ADDRESS OF PROCESS FOR WHICH EVENT IS REPORTED
162 ;
163 ; EVENT NUMBER CONTAINED IN BYTE LOCATED BY ADDRESS AT TOP
164 ; OF STACK. @(SP)
165 ;
166 ; IMPLICIT INPUTS:
167 ; SCHEDULER DATA BASE
168 ;
169 ; OUTPUT PARAMETERS:
170 ; NONE
171 ;
172 ; IMPLICIT OUTPUTS:
173 ; NONE
174 ;
175 ; COMPLETION CODES:
176 ; NONE
177 ;
178 ; SIDE EFFECTS:
179 ; A RESECHEDULING INTERRUPT MAY BE REQUESTED IF THE SPECIFIED
180 ; PROCESS IS HIGHER IN PRIORITY THAN THE CURRENT PROCESS.
181 ;
182 ;--
183
184 SCH$RSE:: ; REPORT SYSTEM EVENT
185 MOVZBL @(SP),R3 ; GET EVENT NUMBER
186 INCL (SP) ; UPDATE RETURN ADDRESS
187 MOVZWL PCB$W_STATE(R4),R1 ; GET CURRENT STATE NUMBER
188 10$: MOVL W^STET[R3],R0 ; GET STATE MASK FOR EVENT
189 BBS R1,R0,ACTION ; DO ACTION IF STATE BIT SET
190 INCL R3 ; CHECK NEXT ACTION
191 BLBS R0,10$ ; IF CONTINUATION
192 RSB ; OTHERWISE IGNORE EVENT
193
194 ACTION: CASEL R3,#0,S^#MAXEVT ; SWITCH ON EVENT NUMBER(UPDATED)
195 STACT: ; BASE OF ACTION TABLE
196 EVENT AST,- ; AST EVENT
197 CEF,- ; COMMON EVENT FLAG WAIT
  
```

RSE

- REPORT SYSTEM EVENT

27-APR-1982 01:59:22 VAX-11 Macro V03-00

Page 6

```
198          COLPG,-          ; COLLIDED PAGE WAIT
199          FPG,-            ; FREE PAGE WAIT
200          HIB,-            ; RESIDENT HIBERNATE
201          HIBO,-           ; NON-RESIDENT HIBERNATE
202          LEF,-            ; LOCAL EVENT FLAG WAIT
203          LEFO,-           ; LOCAL EVENT FLAG WAIT (NON-RES)
204          MWAIT,-          ; MUTEX WAIT
205          PFW,-            ; PAGE FAULT WAIT
206          >,EVENTE         ; AST EXECUTABLE STATE CHANGE
207 EVTS_COLPGA==EVTS_AST    ; USE SAME EVENT FOR COLLIDED PAGE AVAI
208
209
210  EVENT    EVENT,<LEF>,LEFEVT,CONT=1 ; EVENT FLAG SETTING
211  EVENT    ,<CEF>,CEFEVT,CONT=1     ; COMMON EVENT FLAG SET
212  EVENT    ,<LEFO>,EVENTE           ; NON-RESIDENT LOCAL EVENT
213
214  EVENT    FPGA,<-          ; FREE PAGE AVAILABLE
215          FPG,-            ; FREE PAGE WAIT STATE
216          >,EVENTF         ; EXECUTABLE STATE CHANGE
217  EVENT    WAKE,<-         ; WAKE EVENT
218          HIB,-            ; RESIDENT HIBERNATE
219          HIBO,-           ; NON-RESIDENT HIBERNATE
220          >,EVENTE         ;
221
222
223  EVENT    RESUME,<-       ; RESUME EVENT
224          SUSP,-           ; RESIDENT SUSPENDED
225          SUSPO,-         ; NON-RESIDENT SUSPENDED
226          >,FVENTE        ; EXECUTABLE
227
228
229  EVENT    PFCOM,<-       ; PAGE FAULT COMPLETE EVENT
230          PFW,-            ; PAGE FAULT WAIT
231          >,EVENTE        ; EXECUTABLE
232
233  EVENT    SETPRI,<-      ; SET PRIORITY EVENT
234          COM,-            ; RESIDENT COMPUTE
235          COMO,-          ; NON-RESIDENT COMPUTE
236          >,EVENTF         ; EXECUTABLE
237
238  EVENT    SWPOUT,<-      ; SWAP OUT EVENT
239          HIB,-            ; RESIDENT HIBERNATE
240          LEF,-            ; RESIDENT LOCAL EVENT FLAG WAIT
241          SUSP,-           ; RESIDENT SUSPENDED
242          >,SWPO,CONT=1    ; SIMPLE SWAP OUT
243  EVENT    ,<-           ; SWAP OUT EVENT CONINUATION
244          COM,-            ; RESIDENT COMPUTE
245          >,SWPOE         ; EXECUTABLE OUTSWAP
246
247 ;
248 ; IF CASE FALLS THROUGH, THEN BUGCHECK WITH ILLEGAL EVENT
249 ; NUMBER.
250 ;
251 MAXEVT=EVTCTR-1          ; MAXIMUM EVENT NUMBER
252 BUG_CHECK ILLEVTNUM,FATAL ; ILLEGAL EVENT NUMBER
253
```

```
255 ;  
256 ; COMMON EVENT FLAG SET  
257 ;  
258 CEF EVT: ;  
259 BLBC PCBSL_STS(R4),EVENTE ; BR IF NOT RESIDENT  
260 LEF EVT: ; LOCAL EVENT FLAG SET FOR RESIDENT PRO  
261 MOVL PCBSL_PHD(R4),R3 ; POINT TO PHD  
262 ADDL #4,PHDSL_PC(R3) ; SKIP PC OVER CHMK INSTRUCTION  
263 MOVZWL #SSS_NORMAL,PHDSL_RO(R3); SET NORMAL COMPLETION FOR WAIT  
264 ;  
265 ; EVENT EXECUTABLE ACTION ROUTINE  
266 ;  
267 ;  
268 EVENTE: ; EVENT EXECUTABLE STATE CHANGE  
269 EVENTF: ; ACTIVATE WITH NO WAIT TIME ACCOUNTING  
270 PUSHAB B^SCH$CHSE ; MAKE UNWAIT EXIT THROUGH CHSE  
271 ; BRB SCHSUNWAIT ; AND FALL INTO UNWAIT  
272
```



```

274 .SBTTL SCH$UNWAIT - DECREMENT COUNT IN WAIT QUEUE
275 ;++
276 ;
277 ; FUNCTIONAL DESCRIPTION:
278 ; SCH$UNWAIT DECREASES THE NUMBER OF PROCESSES IN THE WAIT
279 ; QUEUE SELECTED BY THE SPECIFIED PCB AND STATE VALUE.
280 ;
281 ; CALLING SEQUENCE:
282 ; BSB/JSB SCH$UNWAIT
283 ;
284 ; INPUT PARAMETERS:
285 ; R1 - STATE NUMBER (PRESERVED)
286 ; R2 - UNUSED (PRESERVED)
287 ; R4 - PCB ADDRESS (PRESERVED)
288 ;
289 ; IMPLICIT INPUTS:
290 ; PCB LOCATED BY ADDRESS IN R4
291 ;
292 ; IMPLICIT OUTPUTS:
293 ; COUNT IN WAIT QUEUE HEADER IS DECREMENTED IF STATE IS A WAIT
294 ; STATE.
295 ;
296 ;--
297
298 SCH$UNWAIT:: ; DECREMENT PROPER WAIT COUNT
299 BBC R1,B^WAITMSK,20$ ; SKIP OUT IF NOT WAIT STATE
300 CMPW #SCH$C_CEF,R1 ; CHECK FOR COMMON EVENT FLAG WAIT
301 BEQL 30$ ; CEF WAIT
302 MULL #WQH$C_LENGTH,R1 ; COMPUTE BYTE INDEX TO WQ HDR
303 MOVAB W^SCH$AQ_WQH$HDR[R1],R0 ; COMPUTE ADDRESS OF WAIT Q HEADER
304 10$: DECW WQH$W_WQCNT(R0) ; DECREMENT WAIT QUEUE COUNT
305 20$: RSB ; RETURN
306
307 30$: MOVZBL PCB$B_WEFC(R4),R0 ; WAIT CLUSTER NUMBER
308 MOVL PCB$L_EFCS(R4)[R0],R0 ; GET CLUSTER ADDRESS
309 ADDL #CEB$SL_WQFL,R0 ; POINT TO WAIT QUEUE HEADER
310 BRB 10$ ; GO DECREMENT WAIT COUNT
311
312 GMASK CEF ; COMMON EVENT FLAG
313 GMASK LEF ; LOCAL EVENT FLAG WAIT
314 GMASK LEFO ; LOCAL EVENT FLAG WAIT
315 GMASK HIB ; HIBERNAT WAIT
316 GMASK HIBO ; HIBERNATE WAIT
317 GMASK FPG ; FREE PAGE WAIT
318 GMASK COLPG ; COLLISION PAGE WAIT
319 GMASK PFW ; PAGE FAULT WAIT
320 GMASK SUSP ; SUSPENDED WAIT
321 GMASK SUSPO ; SUSPENDED WAIT
322 GMASK M$WAIT ; MUTEX WAIT
323 WAITMSK:.LONG WAITST ; MASK OF WAIT STATES
324

```

```
326 .SBTTL SITUATIONAL PRIORITY INCREMENT TABLE
327 ;
328 ; FIXED DATA:
329 ; SITUATIONAL PRIORITY INCREMENT TABLE
330 ; (INDEXED BY PRIORITY INCREMENT CLASS)
331 ;
332
333 B_PINC: ;
334 .BYTE 0 ; CLASS 0 - NONE
335 .BYTE 2 ; CLASS 1 - I/O COMPLETE
336 .BYTE 3 ; CLASS 2 - RESOURCE AVAIL
337 .BYTE 4 ; CLASS 3 - TERM OUTPUT COMP
338 .BYTE 6 ; CLASS 4 - TERM INPUT COMP
339
340
341 EXESTATE: ; EXECUTABLE STATE MASK
342 .LONG <1@SCH$C_COM>!<1@SCH$C_COM0>
343
```

```

345      .SBTTL  SCH$SCHSE - CHANGE STATE TO EXECUTABLE
346 ;++
347 ; FUNCTIONAL DESCRIPTION:
348 ;   SCH$SCHSE CHANGES THE STATE OF A PROCESS, AS REPRESENTED BY
349 ;   ITS PCB, TO AN EXECUTABLE STATE.  THE RESCHEDULING INTERRUPT
350 ;   WILL BE TRIGGERED IF THE PROCESS IS RESIDENT AND HAS A PRIORITY
351 ;   GREATER THAN THAT OF THE CURRENTLY EXECUTING PROCESS.  A
352 ;   PRIORITY INCREMENT CLASS NUMBER SUPPLIED AS A REGISTER CONTAINED
353 ;   ARGUMENT IS USED TO COMPUTE THE NEW PROCESS PRIORITY FROM ITS
354 ;   BASE PRIORITY.
355 ;
356 ; CALLING SEQUENCE:
357 ;   BSB/JSB SCH$SCHSE
358 ;
359 ; INPUT PARAMETERS:
360 ;   R0 - NEW PRIORITY          (SCH$SCHSEP ONLY)
361 ;   R2 - PRIORITY INCREMENT CLASS NUMBER  (SCH$SCHSE ONLY)
362 ;       0 => NO INCREMENT (PAGEFAULT I/O COMPLETION)
363 ;       1 => NON-TERMINAL I/O COMPLETION
364 ;       2 => RESOURCE AVAILABILITY
365 ;       3 => TERMINAL OUTPUT COMPLETION
366 ;       4 => TERMINAL INPUT COMPLETION
367 ;   R4 - PCB ADDRESS
368 ;
369 ; IMPLICIT INPUTS:
370 ;   SCH$AQ_COMT - COMPUTE QUEUE HEADERS FOR COM,COMO STATES
371 ;   SCH$GB_PRI  - CURRENT PROCESS PRIORITY.
372 ;
373 ;
374 ; OUTPUT PARAMETERS:
375 ;   R2 - R2 , PRIORITY INCREMENT CLASS NUMBER IF SCH$SCHSE. (PRESERVED)
376 ;   R3 - R3 (PRESERVED)
377 ;
378 ; IMPLICIT OUTPUTS:
379 ;   SCH$AQ_COMH - VECTOR OF COMPUTE QUEUE HEADERS.
380 ;   SCH$GL_COMQS - COMPUTE QUEUE SUMMARY BIT VECTOR.
381 ;
382 ; COMPLETION CODES:
383 ;   NONE
384 ;
385 ; SIDE EFFECTS:
386 ;   THE PCB SPECIFIED IS REMOVED FROM ITS PRESENT STATE QUEUE
387 ;   AND INSERTED IN THE APPROPRIATE COMPUTE QUEUE, COM OR COMO,
388 ;   AT THE PRIORITY COMPUTED FOR THE SPECIFIED SITUATION CLASS.
389 ;   THE SUMMARY BIT FOR THE DESTINATION STATE QUEUE IS SET TO
390 ;   NOTE THAT IT IS OCCUPIED.
391 ;   IF THE NEW PRIORITY FOR THE PROCESS IS GREATER THAN THAT OF
392 ;   CURRENT PROCESS AND IT IS RESIDENT, THE RESCHEDULING INTERRUPT
393 ;   WILL BE TRIGGERED.
394 ;
395 ;--
396 SCH$SCHSE::                                ;CHANGE TO EXECUTABLE STATE
397   CLRRL  R0                                  ; CLEAR HIGH SUM BITS FOR ADDB
398   SUBB3  B_PINC[R2],PCBSB_Prib(R4),R0 ; ADD PRIORITY INCR
399   CMPB   R0,PCBSB_PRI(R4)                  ; CHECK FOR > CURRENT PRI
400   BLEQ   10s                               ; NO
401   MOVB   PCBSB_PRI(R4),R0                  ; KEEP CURRENT PRIORITY INSTEAD

```

```

402 10$:      CMPB      R0,#16          ; CHECK FOR RESULT >15
403      BGEQ      SCH$CHSEP          ; YES, USE COMPUTED VALUE
404      MOVB      PCB$B_Prib(R4),R0   ; KEEP AT BASE IF LESS
405
406 ;
407 ;      SCH$CHSEP - SUB-ENTRY POINT WITH PRIORITY PRECOMPUTED IN R0
408 ;
409
410 SCH$CHSEP::          ; ENTRY WITH PRIO IN R0
411      MFPR      #PR$ _IPL,R1        ; GET IPL
412      CMPL      R1,#IPL$ _SYNCH     ; MUST BE AT SYNCH OR GREATER
413      BLSS      BADIPL              ; NO, FATAL ERROR
414      REMQUE    (R4),R1             ; REMOVE FROM CURREN QUEUE
415      BNEQ      10$                 ; CONTINUE IF QUEUE NOTEMPTY
416      MOVZWL    PCB$W _STATE(R4),R1  ; GET OLD STATE
417      BBC       R1,EXESTATE,10$     ; NO SUMMARY BITS
418      MOVZBL    PCB$B _PRI(R4),R1   ; GET CURRENT PRI
419      BLBC      PCB$W _STATE(R4),5$ ; SKIP IF RESIDENT
420      ADDL      #32,R1              ; MAKE NONRES PRIO
421 5$: BCC       R1,W^SCH$GL _COMQS,10$ ; CLEAR PRESENCE BIT FOR STATE
422 10$: MOVB      R0,PCB$B _PRI(R4) ; SAVE NEW PRIO
423      MOVL      #SCH$C _COM,R1      ; ASSUME COM STATE
424      BLBS      PCB$L _STS(R4),20$  ; CHECK FOR RESIDENCE
425      INCL      R1                  ; COMO=COM+1
426      ADDL2     #32,R0              ; COMO HEADERS FOLLOW COM
427      BSBW      SCH$SWPWAKE         ; WAKE SWAPPER
428      BRB       30$                ; COMPLETE STATE CHANGE
429 20$: CMPB      W^SCH$GB _PRI,R0    ; IS PRIO GREATER THAN CURRENT PROCESS
430      BLSS      30$                 ; NO, DONT RESCHEDULE
431      SOFTINT   #IPL$ _SCHED        ; TRIGGER RESCHEDULE INTERRUPT
432 30$: MOVW      R1,PCB$W _STATE(R4) ; SET NEW STATE
433      MOVAQ     W^SCH$AQ _COMT[R0],R1 ; COMPUTE HDR ADDR
434      BBSS      R0,W^SCH$GL _COMQS,40$ ; SET SUMMARY BIT FOR NEW QUEUE
435 40$: INSQUE    (R4),@(R1)+         ; INSERT IN NEW QUEUE
436      RSB                          ; RETURN
437
438 BADIPL:      BUG_CHECK BADRSEIPL,FATAL ; BAD IPL AT ENTRANCE TO RSE
439

```

```
441 .SBTTL SWPO - SWAP OUT SIMPLE NON-EXECUTABLE
442 ;
443 ; SWPO - SWAP OUT ACTION ROUTINE FOR SIMPLE NON-EXECUTABLE STATES
444 ;
445 SWPO:
446 BSBW SCH$UNWAIT ; NON-EXECUTABLE OUTSWAP
447 INCW PCB$W_STATE(R4) ; REMOVE FROM WAIT QUEUE
448 REMQUE (R4),R1 ; UPDATE STATE NUMBER
449 INSQUE (R4),@WQH$L_WQBL+WQHSC_LENGTH(R0) ; REMOVE FROM WAIT QUEUE
450 INCW WQH$W_WQCNT+WQHSC_LENGTH(R0) ; INSERT AT TAIL OF QUEUE
451 RSB ; NOTE COUNT IN WAIT QUEUE
452 ; EXIT
453 ;
454 ; SWPOE - SWAP OUT EXECUTABLE ACTION ROUTINE
455 ;
456 SWPOE: MOVZBL PCB$B_PRI(R4),R0 ; GET PRIORITY
457 BRW SCH$SCHSEP ; AND CHANGE TO COMO
```

```

459 .SBTTL SCH$QEND - QUANTUM END ROUTINE
460
461 ;++
462 ;
463 ; FUNCTIONAL DESCRIPTION:
464 ; SCH$QEND IS CALLED BY THE TIMER WHEN THE QUANTUM FOR THE CURRENT
465 ; PROCESS HAS BEEN EXHAUSTED. A NEW QUANTUM IS INITIALIZED
466 ; THE PROCESS PLACED AT ITS BASE PRIORITY AND THE RESCHEDULING
467 ; INTERRUPT TRIGGERED. A CHECK IS MADE FOR CPU TIME LIMIT EXPIRATION
468 ; AND APPROPRIATE EXIT ASTS GENERATED WHEN THE LIMIT IS REACHED.
469 ; THE AUTOMATIC WORKING SET SIZE LOGIC IS INVOKED IF ENABLED TO
470 ; TRADEOFF WORKING SET SIZE AGAINST PAGEFAULT RATE.
471 ;
472 ; CALLING SEQUENCE:
473 ; BSB/JSB SCH$QEND
474 ;
475 ; INPUT PARAMETERS:
476 ; R4 - PCB ADDRESS OF CURRENT PROCESS
477 ; R5 - PROCESS HEADER ADDRESS
478 ;
479 ; IMPLICIT INPUTS:
480 ; PCB OF CURRENT PROCESS
481 ; PROCESS HEADER OF CURRENT PROCESS
482 ;
483 ; IMPLICIT OUTPUTS:
484 ; PHD$W_QUANT - INITIALIZED TO A NEW QUANTUM
485 ; PCB$V_INQUAN - INITIAL QUANTUM FLAG CLEARED
486 ;
487 ;--
488
489 SCH$QEND:: ; QUANTUM END ROUTINE
490 BCCC #PCB$V_INQUAN,PCB$S_STS(R4),10$ ; CLEAR INITIAL QUAN FLAG
491 10$: MOVW SCH$GW_QUAN,PHD$W_QUANT(R5) ; SET NEW QUANTUM
492 CMPB PCB$B_PRI(R4),#16 ; CHECK FOR REAL-TIME
493 BLSS 50$ ; YES
494 BSBW SCH$SWP_WAKE ; AND FORCE SWAP SCHEDULE
495 ;
496 ;
497 ; CHECK FOR CPU TIME LIMIT EXPIRATION
498 ;
499 TSTL PHD$S_CPU_LIM(R5) ; IS THERE ANY LIMIT?
500 BNEQ 60$ ; YES, GO CHECK IT OUT
501 40$: BBS #PCB$V_DISAWS,PCB$S_STS(R4),45$ ; BRANCH IF ADJUSTMENT
502 MOVL W^SCH$GL_WSINC,R3 ; ASSUME INCREMENT
503 BEQL 45$ ; BR IF NO AUTO WS ADJUSTMENT
504 BSBW WSADJUST ; ELSE GO DO IT
505 45$: TSTL W^SCH$GL_COMOQS ; IS THERE ANY INSWAP PENDING?
506 BEQL 47$ ; NO
507 MOVW PCB$B_PRI(R4),PCB$B_PRI(R4) ; YES, FORCE TO BASE PRIORITY
508 BSBW SCH$SWP_WAKE ; AND WAKE SWAPPER
509 47$: SOFTINT #IPL$S_SCHED ; TRIGGER RESCHEDULING INT
510 50$: RSB ; AND RETURN
511
512 ;
513 ; A non-zero limit exists, check for processor time expiration
514 ;
515 ; If CPU time limit is exceeded then an additional amount of time will

```

RSE

- REPORT SYSTEM EVENT

27-APR-1982 01:59:22 VAX-11 Macro V03-00

Page 14

```
516 ; be allowed for each access mode. An AST will be issued to cause an
517 ; exit for each of the access modes. The additional time allowance will
518 ; be provided for each access mode.
519 ;
520
521 60$:      SUBL3      PHD$$_CPULIM(R5),PHD$$_CPUTIM(R5),R0 ; HAS LIMIT BEEN R
522          BLSSU      40$                               ; NO, CONTINUE NORMALLY
523 ;
524 ; CPU LIMIT HAS EXPIRED, AN AST WILL BE SENT TO NOTIFY THE PROCESS
525 ;
526          ADDL2      W^SGN$GL_EXTRACPU,R0                ; COMPUTE TOTAL AMOUNT OF EXTRA TIME
527          ADDL2      R0,PHD$$_CPULIM(R5)                ; GIVE EXTRA TIME FOR CLEANUP
528          ADDL2      R0,PHD$$_EXTRACPU(R5)              ; AND RECORD AMOUNT OF EXTRA TIME
529          MOVAB      PHD$$_CPUMODE(R5),R0                ; GET ADDRESS OF AST ACCESS MODE
530          PUSHAB     40$                                  ; SET RETURN ADDRESS
531          MOVZWL     #SS$_EXCPUTIM,R3                    ; PASS EXIT STATUS TO SENDAST
532 SCH$FORCEDEXIT::
533          BSBW       SENDAST                             ; SEND AST TO PROCESS
534 ;
535 ; CPU TIME EXPIRATION AST HANDLER
536 ;
537 CPUABRT:.WORD      0                                  ; NULL ENTRY MASK
538          CHMK       S^#ASTEXIT                          ; EXIT FROM AST ROUTINE (CLEAR AST)
539 10$:      $EXIT_S 4(AP)                                ; EXIT TO INVOKE EXIT HANDLERS
540          BRB        10$                                  ; JUST IN CASE
541
542 ;
543 ; Adjust working set size automatically to achieve desired tradeoff
544 ; between page fault rate and working set size. There are two page
545 ; fault rate thresholds: SCH$GL_PFRATL, the lower threshold and
546 ; SCH$GL_PFRATH, the higher threshold. Each time SCH$QEND is invoked,
547 ; the page fault rate is computed and compared with these thresholds.
548 ; If it is above the high threshold the working set size is increased
549 ; by SCH$GW_WSINC and if the rate is below the lower threshold, the
550 ; working set size is decreased by SCH$GW_WSDEC. The actual adjustment
551 ; is performed by a normal kernel mode AST.
552 ;
553 ; Automatic adjustment of working set size is constrained by the values:
554 ; SCH$GW_AWSMIN and WSEXTENT per process that establish upper and lower
555 ; values for automatic working set size adjustment. Working set size
556 ; adjustment is further constrained by the process quota.
557 ;
558 ;
559 ; R3 - Working set increment
560 ;
561 WSADJUST:
562          SUBL3      PHD$$_TIMREF(R5),-                  ; AUTO-ADJUST WORKING SET SIZE
563          PHD$$_CPUTIM(R5),R0                            ; COMPUTE DELTA-T
564          BNEQ      10$                                    ; BR IF NON-ZERO
565          INCL      R0                                    ; ELSE FORCE TO ONE FOR DIVIDE
566 10$:
567          CMPL      R0,W^SCH$GL_AWSTIME                   ; IS THIS A MEANINGFUL INTERVAL?
568          BLSS      NOADJUST                              ; NO, TRY AGAIN LATER
569          SUBL3      PHD$$_PFLREF(R5),-                  ; COMPUTE DELTA-PGFLT
570          PHD$$_PAGEFLTS(R5),R1                          ;
571          MOVL      PHD$$_PAGEFLTS(R5),PHD$$_PFLREF(R5) ; SAVE NEW PAGE FAULT REF
572          MOVL      PHD$$_CPUTIM(R5),PHD$$_TIMREF(R5)   ; AND SAVE CPUTIME REF
```

RSE

- REPORT SYSTEM EVENT

27-APR-1982 01:59:22 VAX-11 Macro V03-00

Page 15

```
573 MULL #1000,R1 ; MULTIPLY BY SCALE FACTOR
574 DIVL R0,R1 ; AND COMPUTE PAGEFLTS/10SEC
575 MOVL R1,PHD$GL_PFLTRATE(R5) ; SAVE CURRENT RATE
576 CML R1,W^SCH$GL_PFRATH ; ARE WE ABOVE HIGH THRESHOLD?
577 BGEQ ADJUSTUP ; YES,
578 MNEGL W^SCH$GL_WSDEC,R3 ; NO, GET DECREMENT VALUE
579 CML R1,W^SCH$GL_PFRATL ; ARE WE BELOW LOW THRESHOLD?
580 BGEQ NOADJUST ; NO, IN DEAD BAND -- NOTHING TO DO
581 CMPW PCBSW_PPGCNT(R4),W^SCH$GW_AWSMIN ; ARE WE AT LOWER WS LIMIT?
582 BLEQU NOADJUST ; YES, NOTHING TO DO
583 BRB ADJUST ;
584 NOADJUST: ;
585 RSB ;
586 ADJUSTUP: ;
587 SUBW3 PHD$W_WSLIST(R5),PHD$W_WSQUOTA(R5),R1
588 ; ASSUME HIGH LIMIT WILL BE QUOTA
589 MOVZWL PHD$W_WSSIZE(R5),R0 ; GET CURRENT WORKING SET SIZE
590 CMPW W^SCH$GL_BORROWLIM,W^SCH$GL_FREECNT ; ARE THERE LOTS OF FREE PA
591 BGTR 10$ ; BRANCH IF MEMORY IS AT A PREMIUM
592 SUBW3 PHD$W_WSLIST(R5),PHD$W_WSEXTENT(R5),R1
593 ; ALLOW LARGER GROWTH SIZE
594 10$: CMPW R0,R1 ; ARE WE AT MAXIMUM SIZE?
595 BGTRU NOADJUST ; YES, CAN'T GO ANY LARGER
596 SUBW PCBSW_GPGCNT(R4),R0 ; DETERMINE IF WS IS FULL
597 SUBW PCBSW_PPGCNT(R4),R0 ; BY SUBTRACTING CURRENT PHYSICAL SIZE
598 BGTRU NOADJUST ; BR SPACE LEFT
599 BLSSU WSERR ; BRANCH IF WS SMALLER THAN PAGES IN US
600 ADJUST: MOVAB PHD$B_AWSMODE(R5),R0 ; GET ADDRESS OF AST ACCESS MODE
601 BSBB SENDAST ; SEND AST TO PROCESS
602
603 ADJWS: .WORD 0 ;
604 MOVL @#CTL$GL_PHD,R1 ; GET PHD ADDRESS SO
605 CLRB PHD$B_AWSMODE(R1) ; ACCESS MODE FLAG CAN BE RESET
606 $ADJWSL_S 4(AP) ; ADJUST BY PARAMETER IN AST ARGLIST
607 RET ; AND RETURN
608
609 WSERR: BUG_CHECK WSSIZEERR,FATAL ; WORKING SET SIZE CALC IN ERROR
```



```

611      .SBTTL SENDAST - Send AST to process
612 ;++
613 ; FUNCTIONAL DESCRIPTION: SENDAST IS CALLED BY SCH$QEND TO SEND ASTS TO
614 ; THE PROCESS THAT INVOKE FUNCTIONS UNAVAILABLE TO THE ENVIRONMENT OF
615 ; SCH$QEND. THESE INCLUDE ADJUSTING THE WORKING SET AND EXITTING.
616 ;
617 ; INPUT PARAMETERS:
618 ;
619 ; R0      - ADDRESS OF ACCESS MODE FOR AST
620 ;          (NEGATIVE CONTENTS PREVENT SENDING AST)
621 ; R3      - AST PARAMETER
622 ; R4      - PCB ADDRESS
623 ; (SP)    - AST ADDRESS
624 ; 4(SP)   - RETURN ADDRESS FOR THIS SUBROUTINE
625 ;--
626 SENDAST:
627     PUSHL R0          ; SAVE ADDRESS OF ACCESS MODE
628     PUSHL R3          ; AND AST PARAMETER
629     TSTB (R0)         ; CHECK VALUE OF ACCESS MODE
630     BLSS 10$          ; DO NOT QUEUE AST IF NEGATIVE
631     BBS #PCBSV_DELPEN,PCBSL_STS(R4),10$ ; NOR IF MARKED FOR DELETE
632     MOVZWL #ACB$C_LENGTH,R1 ; SET SIZE REQUIRED
633     BSBW EXESALONONPAGED ; ALLOCATE A BLOCK
634     BLBC R0,10$      ; NONE, TRY LATER
635     MOVB #DYN$C_ACB,ACB$B_TYPE(R2); SET TYPE OF STRUCTURE
636     MOVW R1,ACB$W_SIZE(R2) ; AND SIZE OF STRUCTURE
637     MOVL (SP)+,ACB$L_ASTPRM(R2) ; AND AST PARAMETER VALUE
638     MOVB @(SP),ACB$B_RMOD(R2) ; SET ACCESS MODE FOR AST
639     DECB @(SP)+      ; INDICATE SUCCESS FOR THIS ACCESS MODE
640     MOVL (SP)+,ACB$L_AST(R2) ; SET AST ADDRESS
641     MOVL PCBSL_PID(R4),ACB$L_PID(R2) ; SET PID FOR AST
642     PUSHR #^M<R4,R5> ; SAVE REGS FOR QAST
643     MOVL R2,R5      ; SET ADDRESS OF ACB
644     CLRL R2         ; NULL PRIORITY INCREMENT
645     BSBW SCH$QAST   ; QUEUE AST FOR PROCESS
646     POPR #^M<R4,R5> ; RESTORE PCB,PHD ADDRESSES
647     RSB           ; EXIT
648
649 ; Error path if nonpaged pool allocation fails or if AST access mode is
650 ; negative, indicating either an AST in progress (for automatic working
651 ; set adjustment) or all access modes are done (for CPU time limit expira
652
653 10$:      ADDL #12,SP ; CLEAN PARAMETERS FROM STACK
654     RSB ; AND EXIT
655

```

```
657
658 .SBTTL SCH$WAKE - WAKE PROCESS INTERNAL
659 ;++
660 ; FUNCTIONAL DESCRIPTION:
661 ; SCH$WAKE WAKES THE PROCESS SPECIFIED BY THE PID SUPPLIED.
662 ;
663 ; CALLING SEQUENCE:
664 ; BSB/JSB SCH$WAKE
665 ;
666 ; INPUT PARAMETERS:
667 ; R1 - PID OF PROCESS TO WAKE
668 ;
669 ; OUTPUT PARAMETERS:
670 ; R0 - COMPLETION STATUS CODE
671 ; R4 - PCB ADDRESS OF PROCESS AWAKENED
672 ;
673 ; COMPLETION CODES:
674 ; SSS_NORMAL - NORMAL SUCCESSFUL COMPLETION STATUS
675 ; SSS_NONEXPR - NONEXISTENT PROCESS (INVALID PID)
676 ;
677 ; ENVIRONMENT:
678 ; IPL = IPL$_SYNCH
679 ;
680 ;--
681 SCH$WAKE:: ; WAKE PROCESS INTERNAL
682 MOVZWL R1,R4 ; GET PROCESS INDEX (PIX)
683 MOVL @W^SCH$GL_PCBVEC[R4],R4 ; LOOK UP PCB ADDRESS
684 CML R1,PCBSL_PID(R4) ; VERIFY PID
685 BNEQ 30$ ; REPORT ERROR
686 BBSS #PCBSV_WAKEPEN,PCBSL_STS(R4),10$ ; SET WAKE PENDING
687 10$: ;
688 MOVZBL #PRIS_RESAVL,R2 ; SET PRIORITY INCREMENT CLASS
689 RPTEVT WAKE ; REPORT WAKE EVENT
690 MOVZWL #SS$_NORMAL,R0 ; SET SUCCESS CODE
691 20$: RSB ; RETURN
692
693 30$: MOVZWL #SS$_NONEXPR,R0 ; SET NONEXISTENT PROCESS STATUS
694 RSB ;
```

```

696 .SBTTL SCH$SWPWAKE - WAKE SWAPPER PROCESS
697 ;++
698 ; FUNCTIONAL DESCRIPTION:
699 ; SCH$SWPWAKE AWAKENS THE SWAPPER PROCESS TO PERFORM SOME OPERATION.
700 ;
701 ; CALLING SEQUENCE:
702 ; BSB/JSB SCH$SWPWAKE
703 ;
704 ; INPUT PARAMETERS:
705 ; NONE
706 ;
707 ; OUTPUT PARAMETERS:
708 ; R0-R4 PRESERVED
709 ;
710 ; SIDE EFFECTS:
711 ; A WAKE EVENT IS GENERATED FOR THE SWAPPER PROCESS WHICH CAN
712 ; CAUSE THE PROCESSOR TO BE RESCHEDULED.
713 ;
714 ;--
715
716 SCH$SWPWAKE::
717 TSTL W^SCH$GL_COMOQS ; WAKE SWAPPER PROCESS
718 BNEQ 10$ ; ANY IN$WAP CANDIDATES?
719 CMPL W^SCH$GL_MFYCNT,W^SCH$GL_MFYLIM ; ARE THERE MODIFIED PAGES TO W
720 BGEQ 10$ ; YES, MUST WAKE SWAPPER THEN
721 CMPL W^SCH$GL_FREECNT,W^SCH$GL_FREELIM ; DO WE NEED FREE PAGES?
722 BLSS 10$ ; YES, MUST WAKE SWAPPER THEN
723 TSTW W^SCH$GW_DELPHDCT ; ARE THERE DELETED HEADERS TO PURGE?
724 BNEQ 10$ ; YES, MUST WAKE SWAPPER THEN
725 TSTL W^EXE$GL_P$FATIM ; WAS THERE A POWER FAIL RECOVERY?
726 BEQL 20$ ; BR IF NONE
727 10$: TSTB W^SCH$GB_SIP ; SWAPPER ALREADY BUSY?
728 BNEQ 20$ ; BR IF YES
729 PUSHR #^M<R0,R1,R2,R3,R4> ; SAVE R0-R4
730 MOVL W^SCH$GL_SWPPID,R1 ; GET PID OF SWAPPER
731 B$BB SCH$WAKE ; AND AWAKEN IT
732 POPR #^M<R0,R1,R2,R3,R4> ; RESTORE R0-R4
733 20$: RSB ; AND RETURN TO CALLER
734
735 .END
  
```


SCHED.LIS

```

1 .TITLE SCHED RESCHEDULING INTERRUPT HANDLER
2 .IDENT 'V03-001'
3 ;*****
4 ;*
5 ;* COPYRIGHT (c) 1978, 1980, 1982 BY *
6 ;* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *
7 ;* ALL RIGHTS RESERVED. *
8 ;*
9 ;* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
10 ;* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *
11 ;* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *
12 ;* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
13 ;* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *
14 ;* TRANSFERRED. *
15 ;*
16 ;* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *
17 ;* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *
18 ;* CORPORATION. *
19 ;*
20 ;* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
21 ;* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
22 ;*
23 ;*
24 ;*****
25 ;
26 ; MODIFIED BY:
27 ;
28 ; V03-001 KDM0083 Kathleen D. Morse 31-Mar-1982
29 ; Add multi-processing hooks for replacement scheduling routines.
30 ;
31 ;

```

33 ; INCLUDE FILES:

34

35	\$DYNDEF	;STRUCTURE TYPE CODE DEFINITIONS
36	\$IPLDEF	;INTERRUPT PRIORITY LEVEL DEFINITIONS
37	\$PCBDEF	;PCB DEFINITIONS
38	\$PHDDEF	;PHD DEFINITIONS
39	\$PRDEF	;PROCESSOR REGISTER DEFINITIONS
40	\$STATEDEF	;STATE DEFINITIONS
41	.PSECT AEXENONPAGED, LONG	; NONPAGED EXEC

```

43 .SBTTL SCH$RESCHED RESCHEDULING INTERRUPT HANDLER
44 ;++
45 ; SCH$RESCHED - RESCHEDULING INTERRUPT HANDLER
46 ;
47 ; THIS ROUTINE IS ENTERED VIA THE IPL 3 RESCHEDULING INTERRUPT.
48 ; THE VECTOR FOR THIS INTERRUPT IS CODED TO CAUSE EXECUTION
49 ; ON THE KERNEL STACK.
50 ;
51 ; ENVIRONMENT:
52 ; IPL=3 MODE=KERNEL IS=0
53 ; INPUT:
54 ; 00(SP)=PC AT RESCHEDULE INTERRUPT
55 ; 04(SP)=PSL AT INTERRUPT.
56 ;--
57 .ALIGN LONG
58 MPH$RESCHED:: ;MULTI-PROCESSING CODE HOOKS IN HERE
59 SCH$RESCHED:: ;RESCHEDULE INTERRUPT HANDLER
60 SETIPL #IPL$_SYNCH ;SYNCHRONIZE SCHEDULER WITH EVENT REPOR
61 SVPCTX ;SAVE CONTEXT OF PROCESS
62 MOVL W^SCH$GL_CURPCB,R1 ;GET ADDRESS OF CURRENT PCB
63 MOVZBL PCBSB_PRI(R1),R2 ;CURRENT PRIORITY
64 BBSS R2,W^SCH$GL_COMQS,10$ ;MARK QUEUE NON-EMPTY
65 10$: MOVW #SCH$C_COM,PCBSW_STATE(R1) ;SET STATE TO RES COMPUTE
66 MOVAQ W^SCH$AQ_COMT[R2],R3 ;COMPUTE ADDRESS OF QUEUE
67 INSQUE (R1),@(R3)+ ;INSERT AT TAIL OF QUEUE
68
69 ;+
70 ; SCH$$SCHED - SCHEDULE NEW PROCESS FOR EXECUTION
71 ;
72 ; THIS ROUTINE SELECTS THE HIGHEST PRIORITY EXECUTABLE PROCESS
73 ; AND PLACES IT IN EXECUTION.
74 ;-
75 MPH$$SCHED:: ;MULTI-PROCESSING CODE HOOKS IN HERE
76 SCH$$SCHED:: ;SCHEDULE FOR EXECUTION
77 SETIPL #IPL$_SYNCH ;SYNCHRONIZE SCHEDULER WITH EVENT REPOR
78 FFS #0,#32,W^SCH$GL_COMQS,R2 ;FIND FIRST FULL STATE
79 BEQL SCH$IDLE ;NO EXECUTABLE PROCESS??
80 MOVAQ W^SCH$AQ_COMH[R2],R3 ;COMPUTE QUEUE HEAD ADDRESS
81 REMQUE @(R3)+,R4 ;GET HEAD OF QUEUE
82 BVS QEMPTY ;BR IF QUEUE WAS EMPTY (BUG CHECK)
83 BNEQ 20$ ;QUEUE NOT EMPTY
84 BBCC R2,W^SCH$GL_COMQS,20$ ;SET QUEUE EMPTY
85 20$: ;
86 CMPB #DYN$C_PCB,PCBSB_TYPE(R4) ;MUST BE A PROCESS CONTROL BLOCK
87 BNEQ QEMPTY ;OTHERWISE FATAL ERROR
88 MOVW #SCH$C_CUR,PCBSW_STATE(R4) ;SET STATE TO CURRENT
89 MOVL R4,W^SCH$GL_CURPCB ;NOTE CURRENT PCB LOC
90 CMPB PCBSB_PRI(R4),PCBSB_PRI(R4) ;CHECK FOR BASE
91 ;PRIORITY=CURRENT
92 BEQL 30$ ;YES, DONT FLOAT PRIORITY
93 BBC #4,PCBSB_PRI(R4),30$ ;DONT FLOAT REAL TIME PRIORITY
94 INCB PCBSB_PRI(R4) ;MOVE TOWARD BASE PRIO
95 30$: MOVB PCBSB_PRI(R4),W^SCH$GB_PRI ;SET GLOBAL PRIORITY
96 MTPR PCBSL_PHYPCB(R4),#PR$_PCBB ;SET PCB BASE PHYS ADDR
97 LDPCTX ;RESTORE CONTEXT
98 REI ;NORMAL RETURN
99

```



```
100 SCH$IDLE: ;NO ACTIVE, EXECUTABLE PROCESS
101 SETIPL #IPL$ _SCHED ;DROP IPL TO SCHEDULING LEVEL
102 MOVB #32,W^SCH$GB _PRI ;SET PRIORITY TO -1(32) TO SIGNAL IDLE
103 BRB SCH$SCHED ;AND TRY AGAIN
104
105 QEMPTY: BUG_CHECK QUEUEEMPTY,FATAL ;SCHEDULING QUEUE EMPTY
106
107 .END
```

SYSPCNTRL.LIS

(1)	54	DECLARATIONS
(1)	78	EXE\$SUSPND - SUSPEND SYSTEM SERVICE
(1)	179	EXE\$RESUME - RESUME SYSTEM SERVICE
(1)	224	EXE\$HIBER - HIBERNATE SYSTEM SERVICE
(1)	274	EXE\$WAKE - WAKE SYSTEM SERVICE
(1)	335	EXE\$NAMPID - CONVERT PROCESS NAME TO PID
(1)	458	EXE\$SETPRN - SET PROCESS NAME

```
1 .TITLE SYSPCNTRL PROCESS CONTROL SERVICES
2 .IDENT 'V03-001'
3
4 ;
5 ;*****
6 ;*
7 ;* COPYRIGHT (c) 1978, 1980, 1982 BY
8 ;* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
9 ;* ALL RIGHTS RESERVED.
10 ;*
11 ;* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
12 ;* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
13 ;* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
14 ;* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
15 ;* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
16 ;* TRANSFERRED.
17 ;*
18 ;* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
19 ;* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
20 ;* CORPORATION.
21 ;*
22 ;* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
23 ;* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
24 ;*
25 ;*
26 ;*****
27
28 ;++
29 ; FACILITY: EXECUTIVE, PROCESS CONTROL SYSTEM SERVICES
30 ;
31 ; ABSTRACT:
32 ; THIS MODULE CONTAINS THE ROUTINES WHICH IMPLEMENT THE PROCESS
33 ; CONTROL SERVICES, SUSPEND, RESUME, HIBERNATE AND WAKE.
34 ;
35 ; AUTHOR:
36 ; R. HUSTVEDT
37 ;
38 ; MODIFIED BY:
39 ;
40 ; V03-001 LJK0152 Lawrence J. Kenah 24-Mar-1982
41 ; Store PID at IPL 2 instead of at IPL 7 to prevent possible
42 ; page faults at elevated IPL.
43 ;
44 ; V02-002 TMH0002 Tim Halvorsen 23-Jan-1982
45 ; Allow access to other processes in the same job,
46 ; instead of the current check which allows access only
47 ; to direct subprocesses. This allows you to "see" and
48 ; re-ATTACH to a parent process without privileges.
49 ;
50 ; V02-001 TCM0001 Trudy C. Matthews 16-Mar-1981
51 ; Have EXE$NAMPID return success if process id's are identical.
52 ;---
53 ;
```

```
54      .SBTTL  DECLARATIONS
55
56 ;
57 ; INCLUDE FILES:
58 ;
59
60      $ACBDEF          ; DEFINE AST CONTROL BLOCK
61      $IPLDEF         ; IPL DEFINITIONS
62      $PCBDEF         ; PCB OFFSET DEFINITIONS
63      $PRDEF          ; PROCESSOR REGISTER DEFS
64      $PRIDEF         ; PRIORITY INCREMENT DEFINITIONS
65      $PRVDEF         ; PRIVILEGE BIT DEFINITIONS
66      $RSNDEF         ; RESOURCE NUMBER DEFINITIONS
67      $SSDEF          ; STATUS DEFINITIONS
68      $STATEDEF      ; SCHEDULER STATE DEFINITIONS
69 ;
70 ; EQUATED SYMBOLS:
71 ;
72 PID=4                ; DISPLACEMENT TO PID ARGUMENT
73 PRCNAM=8             ; DISPLACEMENT TO PROCESS NAME
74
75      .PSECT  AEXENONPAGED,BYTE ; NONPAGED EXEC
76
```

```

78      .SBTTL  EXE$SUSPND - SUSPEND SYSTEM SERVICE
79 ;++
80 ;    EXE$SUSPND - SUSPEND SYSTEM SERVICE
81 ;
82 ; FUNCTIONAL DESCRIPTION:
83 ;    EXE$SUSPND IMPLEMENTS THE SUSPEND PROCESS SYSTEM SERVICE.
84 ;    THIS SERVICE CAUSES THE SPECIFIED PROCESS TO BE SUSPENDED
85 ;    BY INITIATING A KERNEL MODE AST IF NOT THE CURRENT PROCESS.
86 ;    A SUSPENDED PROCESS CANNOT RECEIVE ASTS AND WILL ONLY BE
87 ;    RESUMED AS A RESULT OF THE RESUME SYSTEM SERVICE OR A
88 ;    DELETE PROCESS REQUEST.
89 ;
90 ;
91 ; CALLING SEQUENCE:
92 ;    CALLG  ARGLIST,EXE$SUSPND
93 ;
94 ;
95 ; INPUT PARAMETERS:
96 ;    04(AP) - PROCESS IDENTIFICATION POINTER (PID)
97 ;    08(AP) - PROCESS NAME DESCRIPTOR POINTER
98 ;    R4 - PCB ADDRESS OF CURRENT PROCESS
99 ;
100 ; IMPLICIT INPUTS:
101 ;    PCB OF CURRENT PROCESS
102 ;    PCB OF TARGET PROCESS
103 ;
104 ;
105 ; OUTPUT PARAMETERS:
106 ;    R0 - COMPLETION STATUS
107 ;    @PID(AP) - PROCESS IDENTIFICATION OF TARGET PROCESS
108 ;
109 ; COMPLETION CODES:
110 ;    $$$_NORMAL - NORMAL SUCCESSFUL COMPLETION
111 ;    $$$_NOPRIV - INSUFFICIENT PRIVILEGE FOR REQUESTED OPERATION
112 ;    $$$_NONEXPR - NON-EXISTENT PROCESS
113 ;    $$$_ACCVID - ACCESS VIOLATION ON WRITE DESTINATION
114 ;    $$$_INSMEM - INSUFFICIENT DYNAMIC MEMORY FOR REQUEST
115 ;                  ( ONLY RETURNED IF NO RESOURCE WAIT ENABLE )
116 ;
117 ; SIDE EFFECTS:
118 ;    NONE
119 ;
120 ;--
121
122 EXE$SUSPND::                                ; SUSPEND SYSTEM SERVICE
123      .WORD  ^M<R2,R3,R4,R5>                ; REGISTER SAVE MASK FOR R2-R5
124      BSBW   EXE$NAMPID                      ; TRANSLATE AND VERIFY ARGS
125      SETIPL #0                              ; ENABLE
126      PUSHL  R1                              ; SAVE PID
127      BLBC   R0,20$                          ; CONTINUE IF NO ERROR
128      BBSSI  #PCB$V_SUSPEN,PCB$L_STS(R4),10$ ; EXIT IF ALREADY SUSPENDED
129      BSBW   EXE$ALLOCI$R                    ; ALLOCATE I/O PACKET FOR AST
130      BLBC   R0,20$                          ; IF LBC THEN NO PACKET ALLOCATED
131      MOVL   R2,R5                            ; SETUP POINTER TO AST CONTROL BLK
132      MOVAL  B^SUSPND,ACB$L_KAST(R5)         ; SET FOR KERNEL AST ON PROCESS
133      MOVBL  #^X80,ACB$B_RMOD(R5)          ; SET ACCESS MODE FOR AST
134      MOVL   (SP)+,ACB$L_PID(R5)            ; SET PID FOR AST

```

SYSPCNTRL

PROCESS CONTROL SERVICES

27-APR-1982 02:43:14 VAX-11 Macro V03-00

Page 4

```
135      CLRL      R2                ; SET NULL PRIORITY INCREMENT
136      BSBW      SCH$QAST          ; QUEUE KERNEL AST
137 10$:      BRB      EXITN         ; EXIT WITH NORMAL STATUS
138 20$:      RET                ; ERROR RETURN
139
```



```

179      .SBTTL  EXESRESUME - RESUME SYSTEM SERVICE
180 ;++
181 ;   EXESRESUME - RESUME SYSTEM SERVICE
182 ;
183 ; FUNCTIONAL DESCRIPTION:
184 ;   EXESRESUME IMPLEMENTS THE RESUME SYSTEM SERVICE WHICH RESTARTS
185 ;   A SUSPENDED PROCESS.
186 ;
187 ; INPUT PARAMETERS:
188 ;   04(AP) - PROCESS IDENTIFICATION POINTER (PID)
189 ;   08(AP) - PROCESS NAME DESCRIPTOR POINTER
190 ;   R4 - PCB ADDRESS OF CURRENT PROCESS
191 ;
192 ; IMPLICIT INPUTS:
193 ;   PCB OF CURRENT PROCESS
194 ;   PCB OF TARGET PROCESS
195 ;   PROCESS HEADER OF CURRENT PROCESS
196 ;
197 ; OUTPUT PARAMETERS:
198 ;   R0 - COMPLETION STATUS
199 ;   @PID - PROCESS IDENTIFICATION OF TARGET PROCESS
200 ;
201 ; IMPLICIT OUTPUTS:
202 ;   NONE
203 ;
204 ; COMPLETION CODES:
205 ;   SSS_NORMAL - NORMAL SUCCESSFUL COMPLETION
206 ;   SSS_NOPRIV - INSUFFICIENT PRIVILEGE FOR REQUESTED OPERATION
207 ;   SSS_NONEXPR - NON-EXISTENT PROCESS
208 ;   SSS_ACCVIO - ACCESS VIOLATION ON WRITE DESTINATION
209 ;
210 ; SIDE EFFECTS:
211 ;   NONE
212 ;--
213
214 EXESRESUME::
215     .WORD    ^M<R2,R3,R4>          ; RESUME SYSTEM SERVICE
216     BSBB     EXESNAMPID            ; REGISTER SAVE MASK FOR R2-R4
217     BLBC     R0,EXIT               ; CONVERT AND VALIDATE
218     MOVZBL   #PRI$_RESAVL,R2      ; EXIT IF ERROR OCCURRED
219     BBSSI    #PCB$_RESPEN,PCB$_STS(R4),10$ ;;; SET PRIORITY INCREMENT CLASS
220 10$:      RPTEVT RESUME            ;;; SET RESUME PENDING
221     BRB     EXITN                  ;;; REPORT RESUME EVENT
222     ;;; AND TAKE NORMAL EXIT

```

```

224      .SBTTL  EXESHIBER - HIBERNATE SYSTEM SERVICE
225 ;++
226 ;   EXESHIBER - HIBERNATE SYSTEM SERVICE
227 ;
228 ; FUNCTIONAL DESCRIPTION:
229 ;   EXESHIBER IMPLEMENTS THE HIBERNATE SYSTEM SERVICE WHICH
230 ;   PLACES THE PROCESS IN A WAIT STATE, HIB , UNTIL IT
231 ;   IS RE-AWAKENED BY A WAKE SYSTEM SERVICE.  ASTS MAY BE DELIVERED
232 ;   WHILE THE PROCESS IS IN A HIBERNATE STATE.
233 ;
234 ;
235 ;
236 ; CALLING SEQUENCE:
237 ;   CALLG  ARGLIST,EXESHIBER
238 ;
239 ;
240 ; INPUT PARAMETERS:
241 ;   R4 - PCB ADDRESS OF CURRENT PROCESS
242 ;
243 ; IMPLICIT INPUTS:
244 ;   PROCESS CONTROL BLOCK(PCB) OF THE PROCESS ISSUING THE HIBERNATE
245 ;   SYSTEM SERVICE.
246 ;
247 ;
248 ; OUTPUT PARAMETERS:
249 ;   R0 - COMPLETION STATUS CODE
250 ;
251 ; IMPLICIT OUTPUTS:
252 ;   NONE
253 ;
254 ; COMPLETION CODES:
255 ;   SSS_NORMAL - NORMAL SUCCESSFUL COMPLETION
256 ;
257 ; SIDE EFFECTS:
258 ;   THE PROCESS WILL BE PLACED IN A WAIT STATE UNTIL EITHER
259 ;   AN AST IS DELIVERED OR A WAKE REQUEST IS MADE.
260 ;
261 ;--
262
263
264 EXESHIBER::      ; HIBERNATE SYSTEM SERVICE
265     .WORD  ^M<R2,R3,R4>      ; REGISTER SAVE MASK FOR R2-R4
266     SETIPL #IPLS_SYNCH      ;;; BLOCK SCHEDULING EVENTS
267     BBCCI  #PCBSV_WAKEPEN,PCBSL_STS(R4),10$ ;;; CHECK FOR PENDING WAKE
268     BRB    EXITN            ;;; AND RETURN TO CALLER
269
270 10$:      ;;; MUST HIBERNATE
271     MOVAL  W^SCHSGQ_HIBWQ,R2 ;;; SET ADDRESS OF WAIT QUEUE HDR
272     BRW    SCH$WAIT         ;;; AND WAIT

```

```

274     .SBTTL  EXESWAKE - WAKE SYSTEM SERVICE
275 ;++
276 ;   EXESWAKE - WAKE SYSTEM SERVICE
277 ;
278 ; FUNCTIONAL DESCRIPTION:
279 ;   THE WAKE SYSTEM SERVICE CAUSES A PROCESS IN A HIBERNATE STATE
280 ;   TO BE CHANGED TO AN EXECUTABLE STATE AND RE-EXECUTED.
281 ;   IF THE TARGET OF A WAKE SERVICE IS NOT CURRENTLY HIBERNATING,
282 ;   THEN A BIT IS POSTED WHICH WILL CAUSE A SUBSEQUENT HIBERNATE
283 ;   CALL BY THAT PROCESS TO RETURN IMMEDIATELY.
284 ;
285 ; CALLING SEQUENCE:
286 ;   CALLG  ARGLIST,EXESWAKE
287 ;
288 ; INPUT PARAMETERS:
289 ;   04(AP) = PROCESS IDENTIFICATION (PID) OF PROCESS TO WAKE
290 ;   08(AP) = ADDRESS OF PROCESS NAME DESCRIPTOR
291 ;   R4 - PCB ADDRESS
292 ;
293 ; IMPLICIT INPUTS:
294 ;   PCB OF CURRENT PROCESS
295 ;   ALL PCBs LOCATED BY THE VECTOR @SCH$GL_PCBVEC
296 ;
297 ; OUTPUT PARAMETERS:
298 ;   R0 - COMPLETION STATUS CODE
299 ;   @PID(AP) - PROCESS IDENTIFICATION (PID) OF PROCESS AWAKENED
300 ;
301 ; IMPLICIT OUTPUTS:
302 ;   PCB$V_WAKEPEN BIT IN PCB$L_STS OF TARGET PROCESS WILL BE
303 ;   SET IF PROCESS IS NOT HIBERNATING.
304 ;
305 ; COMPLETION CODES:
306 ;   $$$_NORMAL - NORMAL SUCCESSFUL COMPLETION
307 ;   $$$_NONEXPR - NON-EXISTENT PROCESS
308 ;   $$$_NOPRIV - NO PRIVILEGE FOR ATTEMPTED OPERATION
309 ;   $$$_ACCVIO - ACCESS VIOLATION ON WRITE DESTINATION
310 ;
311 ; SIDE EFFECTS:
312 ;   THE TARGET PROCESS WILL BE CHANGED TO AN EXECUTABLE STATE,
313 ;   COM OR COMO, IF IT IS IN A HIBERNATE STATE AND
314 ;   RESCHEDULING WILL BE INITIATED IF NECESSARY.
315 ;
316 ;--
317 EXESWAKE::                                ; WAKE SYSTEM SERVICE
318     .WORD  ^M<R2,R3,R4>                    ; SAVE MASK FOR R2-R4
319     BSBW  EXES$NAMPID                       ; CONVERT NAME TO PID
320 ;
321 ;   R0 - SUCCESS INDICATOR
322 ;   R1 - PID CORRESPONDING TO NAME STRING
323 ;   R4 - PCB ADDRESS IF NAME WAS FOUND
324 ;
325     BLBC  R0,EXIT                           ; CONTINUE IF PROCESS LOCATED
326     BSBW  SCH$WAKE                           ;;; WAKE PROCESS BY PID
327 EXITN:                                       ; EXIT HIBERNATE SERVICE
328     MOVZWL #$$$_NORMAL,R0                   ; SET NORMAL COMPLETION
329 EXIT:                                       ; RETURN WITH R0 SET
330     SETIPL #0                               ; ENABLE

```

SYSCTRL

PROCESS CONTROL SERVICES

27-APR-1982 02:43:14

VAX-11 Macro V03-00

Page 9

331 RET
332
333

; AND RETURN TO CALLER

```

335 .SBTTL EXESNAMPID - CONVERT PROCESS NAME TO PID
336 ;++
337 ; EXESNAMPID - CONVERT PROCESS NAME TO PID
338 ;
339 ; FUNCTIONAL DESCRIPTION:
340 ; EXESNAMPID OBTAINS THE PROPER PID AND PCB ADDRESS FOR A
341 ; STANDARD PROCESS CONTROL SERVICE ARGUMENT LIST CONSISTING
342 ; OF A PID/PROCESS-NAME PAIR. THE ABSENCE OF BOTH SELECTS THE
343 ; CURRENT PROCESS. AFTER ANY NECESSARY NAME TRANSLATION AND
344 ; PID VALIDATION, GROUP AND WORLD PROCESS CONTROL PRIVILEGES
345 ; ARE CHECKED.
346 ;
347 ;
348 ; CALLING SEQUENCE:
349 ; JSB/BSB EXESNAMPID
350 ;
351 ; INPUT PARAMETERS:
352 ; PID(AP) - ADDRESS OF PID SOURCE/DESTINATION
353 ; PRCNAM(AP) - POINTER TO PROCESS DESCRIPTOR TO CONVERT TO PID
354 ; R4 - PCB ADDRESS
355 ;
356 ; IMPLICIT INPUTS:
357 ; @SCH$GL_PCBVEC - VECTOR OF PCB ADDRESSES
358 ; PHD$L_PRIV - PRIVILEGE BIT VECTOR IN PROCESS HEADER
359 ;
360 ; OUTPUT PARAMETERS:
361 ; R0 - COMPLETION STATUS
362 ; R1 - PROCESS IDENTIFICATION (PID) OF NAMED PROCESS.
363 ; ZERO IF NO MATCH IS FOUND.
364 ; R4 - PCB ADDRESS OF PROCESS IF MATCH IS FOUND.
365 ; @PID(AP) - PROCESS IDENTIFICATION (PID) OF SELECTED PROCESS
366 ; IPL - IPL$_SYNCH (IPL UNCHANGED IF S$$_ACCVIO OR S$$_IVLOGNAM)
367 ;
368 ; COMPLETION CODES:
369 ; S$$_NORMAL - NORMAL SUCCESSFUL COMPLETION
370 ; S$$_IVLOGNAM - INVALID LOGICAL NAME STRING
371 ; S$$_NONEXPR - NONEXISTENT PROCESS OR INVALID PID
372 ; S$$_NOPRIV - NO PRIVILEGE FOR SPECIFIED OPERATION.
373 ; S$$_ACCVIO - ACCESS VIOLATION FOR WRITE DESTINATION
374 ;
375 ; SIDE EFFECTS:
376 ; NONE
377 ;
378 ;--
379 EXESNAMPID::
380     MOVL    PID(AP),R0           ; TRANSLATE PNAME TO PID
381     BEQL    10$,                ; GET PID ADDRESS
382     IFNOWRT #4,(R0),ACCVIO      ; NO PID ADDRESS
383     MOVL    (R0),R1             ; ERROR IF ACCESS VIOLATION
384     BNEQ    GOTPID              ; NOW FETCH PID
385     10$:   MOVL    PCB$L_PID(R4),R1 ; YES,
386     MOVL    PRCNAM(AP),R3       ; ASSUME CALLERS PID
387     BNEQ    20$,                ; GET PNAME ADDRESS IF SPECIFIED
388     BRW     RETN                ; WAS SPECIFIED
389     20$:   ; NONE SPECIFIED, RETURN
390     IFNORD  #8,(R3),ACCVIO      ; MUST LOOK UP PROCESS NAME
391     MOVQ    (R3),R2             ; CHECK DESCRIPTOR FOR READABILITY
                                   ; GET DESCRIPTOR

```

```

392     TSTW     R2                ; AND CHECK FOR ZERO LENGTH
393     BEQL     IVLNAM            ; NOT A VALID NAME STRING
394     CMPW     #15,R2           ; CHECK FOR MAXIMUM LENGTH
395     BLSSU    IVLNAM            ; NOT A VALID NAME STRING
396     IFNORD   R2,(R3),ACCVIO   ; ACCESS VIOLATION IF STRING NOT READAB
397     PUSHL    R0                ; SAVE PID ADDRESS
398     MOVL     SCH$GL_MAXPIX,R0  ; INITIALIZE PROCESS INDEX
399     PIXLOOP:                ; LOOP FOR EACH PROCESS INDEX
400     MOVL     @W^SCH$GL_PCBVEC[R0],R1 ; GET PCB ADDRESS FROM VECTOR
401     CMPW     PCB$W_GRP(R1),PCB$W_GRP(R4) ; COMPARE GROUP NUMBERS
402     BNEQ     NEXTPIX           ; NOT SAME GROUP, NEXT PIX
403     CMPB     R2,PCB$T_LNAME(R1) ; COMPARE NAME LENGTH
404     BNEQ     NEXTPIX           ; DIFFERENT LENGTH
405     PUSHR    #^M<R0,R1,R2,R3> ; SAVE REGISTERS FOR CMPC3
406     CMPC3    R2,(R3),PCB$T_LNAME+1(R1) ; COMPARE TEXT OF NAME
407     POPR     #^M<R0,R1,R2,R3> ; RESTORE REGISTERS
408     BEQL     GOTNAM            ; FOUND A MATCHING PROCESS NAME
409     NEXTPIX:                ; STEP TO NEXT PROCESS
410     SOBGEQ   R0,PIXLOOP        ; UPDATE INDEX AND TRYA AGAIN
411     TSTL     (SP)+             ; CLEAN PID ADDRESS FROM STACK
412     BRB      NONEX            ; EXIT WITH NONEXISTENT PROCESS STATUS
413
414     ACCVIO:                ; ACCESS VIOLATION
415     MOVZWL   #SS$_ACCVIO,R0    ; SET ERROR CODE
416     RSB
417
418     IVLNAM:                ; INVALID NAME
419     MOVZWL   #SS$_IVLOGNAM,R0  ; SET ERROR CODE
420     RSB
421
422     GOTNAM:    MOVL     PCB$L_PID(R1),R1 ; GET FULL PID FOR NAME
423     POPL     R0                ; RESTORE PID ADDRESS
424     GOTPID:                ; VERIFY PID AND CHECK PRIV
425     SETIPL   #IPL$_SYNCH       ; BLOCK SYSTEM EVENTS
426     MOVZWL   R1,R2            ; EXTRACT PROCESS INDEX
427     CML     R2,SCH$GL_MAXPIX   ; TEST AGAINST MAXIMUM VALUE
428     BGTRU    NONEX            ; NONEXISTENT IF GTRU THAN MAXPIX
429     MOVL     @W^SCH$GL_PCBVEC[R2],R2 ; GET PCB ADDRESS
430     CML     R1,PCB$L_PID(R2)   ; CHECK FOR VALID PID
431     BEQL     VALPID           ; YES,
432     NONEX:                ; PROCESS NON-EXISTENT
433     MOVZWL   #SS$_NONEXPR,R0   ; SET ERROR STATUS
434     RSB
435     VALPID:                ; PID IS VALID, CHECK PRIV
436     CML     PCB$L_JIB(R2),PCB$L_JIB(R4) ; IS IT IN OUR JOB (TREE)?
437     BEQL     RETURN           ; IF SO, ALLOW IT WITHOUT PRIVILEGES
438     IFPRIV   WORLD,RETURN,R4  ; SUCCESS IF WORLD PRIVILEGE
439     CMPW     PCB$W_GRP(R2),PCB$W_GRP(R4) ; ARE GROUP NUMBERS EQUAL
440     BNEQ     NOPRIV           ; IF NOT, NO PRIVILEGE
441     IFNPRIV  GROUP,NOPRIV,R4  ; ERROR IF NOT GROUP PRIV
442     RETURN:                ; SUCCESSFUL EXIT
443     MOVL     R2,R4            ; MOVE PCB ADDRESS OF TARGET
444     RETN:                ; NORMAL STATUS EXIT
445     TSTL     R0                ; WAS PID ADDRESS SPECIFIED
446     BEQL     10$             ; NO, SKIP STORE OF PID
447     SETIPL   #IPL$_ASTDEL      ; ALLOW PAGE FAULTS
448     MOVL     R1,(R0)          ; STORE PID IN DESTINATION

```

SYSPCNTL

PROCESS CONTROL SERVICES

27-APR-1982 02:43:14 VAX-11 Macro V03-00

Page 12

```
449      CLRL      R0                ; DO NOT WRITE PID A SECOND TIME
450      BRB       GOTPID            ; MAKE SURE THAT PID IS STILL VALID
451
452 10$:      MOVZWL #SS$ _NORMAL,R0 ; SET SUCCESS STATUS
453          RSB                    ; AND RETURN TO CALLER
454 NOPRIV:   MOVZWL #SS$ _NOPRIV,R0 ; SET ERROR STATUS
455          RSB                    ; AND RETURN TO CALLER
456
```



```
515     CMPW     PCB$W_GRP(R4),PCB$W_GRP(R7) ; CHECK FOR SAME GROUP
516     BNEQ     40$ ; NO, SKIP IT
517     CMPB     (SP),PCB$T_LNAME(R7) ; COMPARE LENGTHS
518     BNEQ     40$ ; NOT EQUAL, TRY ANOTHER
519     CMPC3    (SP),@4(SP),PCB$T_LNAME+1(R7) ; COMPARE NAMES WITH COUNTS
520     BEQL     50$ ; MATCH
521 40$: SOBGEQ   R6,30$ ; CONTINUE FOR ALL PCBS
522     BRB      60$ ; NOT FOUND
523 50$: CMPL     R4,R7 ; SAME PROCESS?
524     BNEQ     70$ ; DUPLICATE NAME ERROR
525 60$: MOVB     (SP),PCB$T_LNAME(R4) ; SAVE NAME LENGTH
526     MOVC3    (SP),@4(SP),PCB$T_LNAME+1(R4) ; MOVE NAME TO PCB
527 65$: MOVZWL   #SS$_NORMAL,R0 ; SUCCESSFUL STATUS
528     RET      ; AND RETURN
529 70$: MOVZWL   #SS$_DUPLNAM,R0 ; DUPLICATE NAME WITHIN GROUP
530     RET      ; AND RETURN
531
532 80$: MOVZWL   #SS$_ACCVIO,R0 ; ACCESS VIOLATION
533     RET      ; RETURN WITH ERROR STATUS
534     .END
```


SYSWAIT.LIS

SYSWAIT

EVENT FLAG WAIT SERVICES

27-APR-1982 02:55:01

VAX-11 Macro V03-00

Page 0

(1)	64	DECLARATIONS
(1)	89	EXESWFLAND - WAIT FOR LOGICAL AND OF EVE
(1)	128	EXESWFLOR - WAIT FOR LOGICAL OR OF EVENT
(1)	167	EXESWAITFR - WAIT FOR SINGLE EVENT
(1)	207	EXESWAIT - WAIT COMMON CODE
(1)	272	SCHSWAIT - PLACE PROCESS IN SELECTED WAI


```

128      .SBTTL  EXESWFLOR - WAIT FOR LOGICAL OR OF EVENTS
129 ;++
130 ;   EXESWFLOR - WAIT FOR LOGICAL OR OF EVENTS
131 ;
132 ; FUNCTIONAL DESCRIPTION:
133 ;   EXESWFLOR RETURNS TO THE CALLER WHEN ANY OF THE
134 ;   EVENTS SELECTED BY THE MASK WITHIN THE SPECIFIED CLUSTER
135 ;   ARE SET AND RETURNS THE STATE OF ALL 32 EVENT FLAGS IN THE
136 ;   CLUSTER.
137 ;
138 ; CALLING SEQUENCE:
139 ;   CALLG   ARGLIST,EXESWFLOR
140 ;
141 ; INPUT PARAMETERS:
142 ;   04(AP) - EVENT FLAG NUMBER TO SELECT CLUSTER
143 ;   08(AP) - MASK SELECTING DESIRED COMBINATION OF EVENTS
144 ;   R4 - PCB ADDRESS OF CURRENT PROCESS
145 ;
146 ; OUTPUT PARAMETERS:
147 ;   R0 - COMPLETION STATUS CODE
148 ;       IS SATISFIED.
149 ;
150 ;
151 ; COMPLETION CODES:
152 ;   SSS_NORMAL - NORMAL SUCCESSFUL COMPLETION
153 ;   SSS_ILLEFC - ILLEGAL EVENT FLAG NUMBER NOT IN THE RANGE 0-127.
154 ;   SSS_UNASEFC - UNASSIGNED EVENT FLAG CLUSTER.
155 ;
156 ; SIDE EFFECTS:
157 ;   THE PROCESS ISSUING THE SERVICE CALL IS BE PLACED IN A
158 ;   WAIT STATE IF NONE OF THE SPECIFIED EVENTS ARE SET.
159 ;
160 ;--
161 EXESWFLOR::                                ;WAIT FOR LOGICAL OR
162      .WORD  ^M<R2,R3,R4,R5>                ;REGISTER SAVE MASK FOR R2-R5
163      CLRL   R1                               ;SET MODE TO WAIT ANY
164 WFR1:     MOVL   MASK(AP),R0                 ;GET WAIT MASK
165      BRB    EXESWAIT                          ;MERGE WITH COMMON CODE

```

```

167      .SBTTL  EXESWAITFR - WAIT FOR SINGLE EVENT
168 ;++
169 ;   EXESWAITFR - WAIT FOR SINGLE EVENT
170 ;
171 ;
172 ; FUNCTIONAL DESCRIPTION:
173 ;   EXESWAITFR RETURNS TO THE CALLER WHEN THE SPECIFIED SINGLE
174 ;   EVENT FLAG IS SET.  UPON RETURN THE STATE OF ALL 32 EVENT FLAGS
175 ;   WITHIN THE CLUSTER CONTAINING THE SPECIFIED EVENT ARE RETURN.
176 ;
177 ; CALLING SEQUENCE:
178 ;   CALLG  ARGLIST,EXESWAITFR
179 ;
180 ; INPUT PARAMETERS:
181 ;   04(AP)=EVENT FLAG NUMBER
182 ;   R4 - PCB ADDRESS OF CURRENT PROCESS
183 ;
184 ; OUTPUT PARAMETERS:
185 ;   R0 - COMPLETION STATUS CODE
186 ;       SATISFIED.
187 ;
188 ; SIDE EFFECTS:
189 ;   IF THE SPECIFIED EVENT FLAG IS NOT SET, THE PROCESS ISSUING THE
190 ;   WAIT SYSTEM SERVICE WILL BE PLACED IN THE APPROPRIATE WAIT
191 ;   STATE.
192 ;
193 ; COMPLETION CODES:
194 ;   SSS_NORMAL - NORMAL SUCCESSFUL COMPLETION
195 ;   SSS_ILLEFC - ILLEGAL EVENT FLAG NUMBER NOT IN THE RANGE 0-127.
196 ;   SSS_UNASEFC - UNASSIGNED EVENT FLAG CLUSTER.
197 ;
198 ; ENVIRONMENT:
199 ;   MODE=KERNEL
200 ;--
201 EXESWAITFR::
202     .WORD    ^M<R2,R3,R4,R5>      ;WAIT FOR SINGLE EVENT
203     CLRL    R1                    ;SAVE REGISTERS R2,R3,R4,R5
204     ROTL    EFN(AP),#1,R0        ;SET MODE
205 ;     BRB    EXESWAIT            ;INIT MASK
205 ;     BRB    EXESWAIT            ;AND MERGE WITH COMMON CODE

```

```

207      .SBTTL  EXESWAIT - WAIT COMMON CODE
208 ;++
209 ;   EXESWAIT - WAIT COMMON CODE
210 ;
211 ; INPUT:
212 ;   04(AP) = EVENT FLAG NUMBER
213 ;   R0 = MASK SELECTING EVENTS OF INTEREST
214 ;   R1 = ANY/ALL MODE SELECTOR
215 ;           0 => ANY
216 ;           1 => ALL
217 ;   R4 = PCB ADDRESS OF CURRENT PROCESS
218 ;
219 ; IMPLICIT INPUTS:
220 ;   CEB IF NON-LOCAL CLUSTER.
221 ;
222 ; OUTPUT:
223 ;   R0 - COMPLETION STATUS CODE
224 ;       SATISFIED.
225 ;--
226 EXESWAIT:                                ;WAIT COMMON CODE
227     CVTBL     EFN(AP),R2                    ;GET CLUSTER NUMBER
228     BLSS     10$                               ;ILLEGAL IF NOT (0,1,2,3)
229     ASHL     #-5,R2,R2                        ;RIGHT ALIGN CLUSTER NUMBER
230     MOVAL    PCB$$_EFC$(R4)[R2],R3          ;POINTER TO PCB EVENT CLUSTER
231     MOVB     R2,PCB$$_WEFC(R4)              ;SAVE WAIT CLUSTER NUMBER
232     SOBGTR   R2,30$                           ;BR IF COMMON CLUSTER R2 = (2,3)
233     MOVAQ    SCH$GQ_LEFWQ,R2                ;SET WAIT QUEUE POINTER
234     BRB     WAITCK                            ;
235 10$:      MOVZWL  #SS$_ILLEFC,R0            ;SET ERROR CODE FOR ILLEGAL CLUSTER
236     RET                                           ;AND EXIT
237 20$:      MOVZWL  #SS$_UNASEFC,R0          ;SET ERROR CODE FOR UNASSIGNED
238     RET                                           ;AND EXIT
239 30$:      ADDL3   #CEB$$_EFC,(R3),R2        ;GET CEB ADDRESS FOR EVENT FLAGS
240     BGEQ     20$                               ;CEB ASSIGNED (SYSTEM SPACE ADDRESS)
241     CMPB     #DYN$C_SLAVCEB,<CEB$$_TYPE-CEB$$_EFC>(R2) ;IS THIS IN SH MEM?
242     BNEQ     40$                               ;BR IF IN LOCAL MEMORY
243     MOVL    <CEB$$_MASTER-CEB$$_EFC>(R2),R3 ;GET ADR OF MASTER CEB
244     MOVL    CEB$$_EFC(R3),(R2)              ;COPY EFC FROM MASTER TO SLAVE CEB
245     ASSUME   <CEB$$_EFC+4> EQ CEB$$_WQFL
246 40$:      MOVAL   (R2)+,R3                  ;GET EVENT POINTER AND WAIT QUEUE ADDR
247                                           ; R3=CEB$$_EFC, R2=CEB$$_WQFL
248 ;
249 ;   R0 - MASK SELECTING EVENTS OF INTEREST
250 ;   R1 - ANY/ALL MODE SELECTOR
251 ;   R2 - ADDRESS OF WAIT QUEUE HEADER
252 ;   R3 - ADDRESS OF EVENT FLAG VECTOR
253 ;   R4 - PCB ADDRESS
254 ;
255 WAITCK:                                ;CHECK FOR WAIT SATISFIED
256     SETIPL   #IPL$$_SYNCH                    ;BLOCK SCHEDULING ACTIVITY
257     BITL     (R3),R0                          ;WAIT FOR LOGICAL OR MAY BE SATISFIED
258     BEQL    WAIT                               ;NO, MUST WAIT
259     BLBS    R1,WAITALL                         ; 1 => WAIT FOR ALL IN MASK
260 NOWAIT:                                ;
261     MOVL    #SS$_NORMAL,R0                    ;RETURN SUCCESS CODE
262     MOVL    12(FP),FP                          ;GET SAVED FRAME POINTER
263     ADDL    S^#EXESC_CMSTKSZ,SP              ;CLEAN STACK TO PC,PSL

```

```
264      REI                                ;RETURN TO CALLER
266 WAITALL:                               ; WAIT FOR ALL SELECTED EVENTS
267      BICL2      (R3),R0                 ; CLEAR BITS FOR ALREADY SET FLAGS
268      BEQL      NOWAIT                   ;YES, DONT WAIT
269 WAIT:      INSV      R1,#PCBSV_WALL,#1,PCBSL_STS(R4) ;SET WAIT ALL FLAG
270      MCOML     R0,PCBSL_EFWM(R4)        ;SAVE INVERTED WAIT MASK
```

```

272     .SBTTL  SCH$WAIT - PLACE PROCESS IN SELECTED WAIT QUEUE
273 ;++
274 ;   SCH$WAIT - PLACE PROCESS IN SELECTED WAIT QUEUE
275 ;
276 ; FUNCTIONAL DESCRIPTION:
277 ;   SCH$WAIT PLACES THE CURRENT PROCESS IN A WAIT QUEUE
278 ;   SELECTED BY A WAIT QUEUE HEADER ADDRESS SUPPLIED IN A REGISTER
279 ;   A NEW PROCESS IS THEN SELECTED FOR EXECUTION.
280 ;
281 ; CALLING SEQUENCE:
282 ;   JMP/BR  SCH$WAIT
283 ;
284 ; INPUT PARAMETERS:
285 ;   R2 - WAIT QUEUE HEADER ADDRESS
286 ;   R4 - PCB ADDRESS
287 ;   00(SP) - PC AT WHICH TO RESTART PROCESS
288 ;   04(SP) - PSL WITH WHICH TO RESTART PROCESS
289 ;
290 ; IMPLICIT INPUTS:
291 ;   NONE
292 ;
293 ; SIDE EFFECTS:
294 ;   THE PROCESS SPECIFIED BY THE PCB ADDRESS IN R4 IS PLACED
295 ;   IN THE WAIT QUEUE LOCATED BY R2, ITS CONTEXT SAVED,
296 ;   AND A NEW PROCESS SCHEDULED.
297 ;
298 ;
299 ;--
300
301 SCH$WAIT::                                ;PLACE PROCESS IN WAIT STATE
302     CMPW   PCB$W_DIOCNT(R4),PCB$W_DIOLM(R4) ; CHECK FOR DIRECT I/O
303     BNEQ   10$                               ;YES, DONT TRIGGER SWAPPER
304     CMPW   PCB$W_BIOCNT(R4),PCB$W_BIOLM(R4) ;CHECK FOR BUFFERED I/O
305     BEQL   10$                               ;NO, NOT A LONG WAIT
306     BSBW   SCH$$SWPWAKE                       ;WAKE SWAPPER
307 10$:
308     MOVL   12(SP),FP                          ;RESTORE FP
309     ADDL2  S^#EXESC_CMSTKSZ,SP                 ;CLEAN UP KERNEL STACK
310     SUBL2  #4,(SP)                             ;BACK UP SAVED PC
311 SCH$WAITK::                                ;WAIT WITH STACK ALREADY CLEAN
312     INCW   WQH$W_WQCNT(R2)                     ;INCREMENT COUNT FOR QUEUE
313     INSQUE (R4),WQH$W_WQFL(R2)                 ;INSERT IN QUEUE
314     MOVW   WQH$W_WQSTATE(R2),PCB$W_STATE(R4) ;SET STATE FOR PROCESS
315 ;
316 ;
317 ;
318 ;
319 SCH$WAITL::                                ;WAIT WITH STATE SET, STACK CLEANED
320     SVPCTX                                     ;SAVE PROCESS CONTEXT
321 SCH$WAITM::                                ;ENTRY FOR MEMORY MANAGEMENT WAIT CODE
322     MOVL   PCB$W_PHD(R4),R5                    ;GET PROCESS HEADER ADDRESS
323     ADDW   SCH$GW_IOTA,PHD$W_QUANT(R5) ;CHARGE QUOTA FOR VOLUNTARY WAIT
324     MOVW   EXESGQ_SYSTIME+2,PHD$W_WAITIME(R5) ;RECORD TIME AT WAIT START
325     CMPB   #4,PHD$W_ASTLVL(R5)                ;NULL ASTLVL?
326     BNEQ   20$                               ;NO, DO LONG CHECK
327 10$:    BRW      W^SCH$SCHED                   ;GO SCHEDULE NEXT PROCESS
328

```

SYSWAIT

EVENT FLAG WAIT SERVICES

27-APR-1982 02:55:01 VAX-11 Macro V03-00

Page 10

```
329 20$:      MOVZBL  PHD$B_ASTLVL(R5),R0 ;FETCH AND ZERO EXTEND PENDING ASTL
330      CMPZV   #PSL$V_CURMOD,#PSL$S_CURMOD,PHD$L_PSL(R5),R0 ;COMPARE WITH WAIT
331                                     ;ACCESS MODE
332      BLSS    10$                                     ;BRANCH IF AST NOT DELIVERABLE
333
334 ;
335 ; Test for assumptions that are being made about the layout of the
336 ; PSL that enables the next instruction to work correctly.
337 ;
338 ; o IPL field begins on a byte boundary
339 ; o IPL field fits into a single byte
340
341
342      ASSUME   <<<PSL$V_IPL/8>*8> - PSL$V_IPL> EQ 0 ; IPL must be byte aligned
343      ASSUME   PSL$S_IPL LE 8                       ; IPL field must fit into byte
344
345      BITB    #<PSL$M_IPL@-PSL$V_IPL>,-
346            <PSL$V_IPL/8>+PHD$L_PSL(R5) ;MUST BE AT IPL 0 FOR DELIVERY
347      BNEQ    10$                                     ;BRANCH IF AST NOT DELIVERABLE
348      CLRL    R2                                     ;SET NULL PRIORITY INCREMENT
349      RPTEVT  AST                                     ;REPORT AST EVENT
350      BRB     10$                                     ;GO SCHEDULE NEXT PROCESS
351
352      .END
```


SYSCOMMON.LIS


```
1 .TITLE SYSCOMMON DATA BASES
2 .IDENT 'V03-003'
3 ;
4 ;*****
5 ;*
6 ;* COPYRIGHT (c) 1978, 1980, 1982 BY *
7 ;* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *
8 ;* ALL RIGHTS RESERVED. *
9 ;*
10 ;* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
11 ;* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *
12 ;* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *
13 ;* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
14 ;* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *
15 ;* TRANSFERRED. *
16 ;*
17 ;* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *
18 ;* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *
19 ;* CORPORATION. *
20 ;*
21 ;* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
22 ;* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
23 ;*
24 ;*
25 ;*****
26 ;
27 ;++
28 ; SYSTEM COMMON DATA BASES
29 ;--
30 ;
31 ;
32 ; AUTHOR: R. HEINEN 9-AUG-76
33 ;
34 ; MODIFICATION HISTORY:
35 ;
36 ; V03-003 PHL0042 Peter H. Lipman 02-Apr-1982
37 ; Add EXESGQ_BOOTCB_D cell in front of EXESGL_BOOTCB
38 ; forming a descriptor for the portion of the Boot Control
39 ; Block to be checksummed.
40 ;
41 ; V03-002 ROW0074 Ralph O. weber 26-MAR-1982
42 ; Enhance the infinite-due-time TQE, already used to mark the
43 ; end of the TQE queue, to be a canonical TQE with the repeat
44 ; bit off (TEQSV_REPEAT). Give this enhanced block a global
45 ; name, EXESAL_TQENOREPT, which routines not desiring to repeat
46 ; a timer call can use to place the address of the canonical TQE
47 ; in R5 before returning EXESSWTIMINT thus ensuring no repeating
48 ; of the timer call.
49 ;
50 ; V03-001 PHL0040 Peter H. Lipman 21-Mar-1982
51 ; Add EXESGL_SAVEDUMP to record the number of blocks
52 ; of dump file saved in the page file. This is the
53 ; number of blocks to be released to the page file
54 ; when the dump has been saved/analyzed.
55 ;
56 ; V02-043 RIH0090 Richard I. Hustvedt 16-Feb-1982
57 ; Add cell for TIMESCHDL process priority boost scan.
```

58 ;
59 ; V02-042 RIH0089 Richard I. Hustvedt 15-Feb-1982
60 ; Add fork block for pool expansion code. Remove memory
61 ; allocation histogram.
62 ;
63 ; V02-041 HRJ0050 Herb Jacobs 27-Jan-1982
64 ; Add global cells for machine check and memory error counts.
65 ;
66 ; V02-040 RIH0084 Richard I. Hustvedt 18-Jan-1982
67 ; Add small request packet data base.
68 ;
69 ; V02-039 JLV0143 Jake VanNoy 2-Jan-1982
70 ; Remove the EXE\$V_xxx definitions and move them to
71 ; SYSPARAM.
72 ;
73 ; V02-038 RIH0083 Richard I. Hustvedt 1-Jan-1982
74 ; Add cells to support non-paged pool extension.
75 ;
76 ; V02-037 KTA0059 Kerbey T. Altmann 31-Dec-1981
77 ; Add flag TBCHK to EXE\$GL_FLAGS. Set if there is
78 ; a TBCHK processor register.
79 ;
80 ; V02-036 DJD0001 Darrell Duffy 29-Dec-1981
81 ; Added IOC\$GL_IRPMIN for minimum size of structure
82 ; to take from IRP lookaside list.
83 ; *TEMP* added memory alc instrumentation histogram
84 ;
85 ; V02-035 HRJ0040 Herb Jacobs 20-Dec-1981
86 ; Added flags for knowing whether page file problem messages
87 ; have been issued.
88 ;
89 ; V02-034 SRB0042 Steve Beckhardt 30-Nov-1981
90 ; Added LCK\$GB_MAXDEPTH (contains maximum allowed depth
91 ; of resource names).
92 ;
93 ; V02-033 HRJ0031 Herb Jacobs 2-Nov-1981
94 ; Add system wide flags for operator override of day type
95 ; as either primary or secondary.
96 ;
97 ; V02-032 PHL0023 Peter H. Lipman 1-Nov-1981
98 ; Change SYSS\$SYSDISK to SYSS\$SYSDEVICE
99 ; Change 16 char name EXE\$V_BLK\$HOL\$BUSY to EXE\$V_BLK\$HOL\$BSY
100 ;
101 ; V02-031 SPF0041 Steve Forgey 28-Sep-1981
102 ; Initially enable all accounting except image.
103 ;
104 ; V02-030 PHL0017 Peter H. Lipman 21-Sep-1981
105 ; Reuse the RMS Paging flag from V02-021, it wasn't needed.
106 ; New flag allows for disabling the use of concealed devices.
107 ;
108 ; V02-029 SRB0031 Steve Beckhardt 19-Aug-1981
109 ; Added several more cells for lock manager use
110 ;
111 ; V02-028 SPF0017 Steve Forgey 17-Aug-1981
112 ; Add accounting manager flag field.
113 ;
114 ; V02-027 KTA0026 Kerbey T. Altmann 21-Jul-1981

115 ; Add indirection on LOGSAL_LOGTBL, and allow for
116 ; table sizes on each table.
117 ;
118 ; V02-026 KTA0023 Kerbey T. Altmann 17-Jun-1981
119 ; Remove group/system name table listheads; add cells
120 ; for use in hash table support of these names.
121 ;
122 ; V02-025 STJ0050 Steven T. Jeffreys 13-Jun-1981
123 ; Addes support for mount verification. This includes
124 ; the longwords EXE\$GL_SYSFLAGS and EXE\$GL_SVAPTE, and
125 ; the blakhole page wait queue list head, EXE\$GQ_BLKHOLWQ.
126 ;
127 ; V02-024 KTA0022 Kerbey T. Altmann 14-Jun-1981
128 ; Add new flag to EXE\$GL_FLAGS, SSINHIBIT. If set then
129 ; system services can be inhibited on a per-process basis.
130 ;
131 ; V02-023 PHL0010 Peter H. Lipman 05-Jun-1981
132 ; Remove quad word descriptors for SYS.EXE, SYSDUMP.DMP
133 ; and SWAPFILE.SYS. Remove the system WCB. This is
134 ; now built by INIT. SYS.EXE and SYSDUMP.DMP may now
135 ; be non-contiguous. The swapfile descriptor was obsolete
136 ; some time ago.
137 ;
138 ; V02-022 KTA0020 Kerbey T. Altmann 02-Jun-1981
139 ; Added IOCSGL_CRBTMOU, list of CRB's to check for timeout.
140 ;
141 ; V02-021 PHL0009 Peter H. Lipman 30-Apr-1981
142 ; Added EXE\$GL_BOOTCB which points at data and code
143 ; allowing BUGCHECK to do bootdriver style virtual
144 ; block I/O from SYS.EXE and to SYSDUMP.DMP.
145 ;
146 ; Added new flag to EXE\$GL_FLAGS for RMS paging. When RMS
147 ; paging is shut off, RMS is loaded into non-paged pool.
148 ;
149 ; V02-020 SRB0019 Steve Beckhardt 23-Apr -1981
150 ; Added system variables for lock manager
151 ;
152 ; V02-019 PHL0007 Peter H. Lipman 2-Apr-1981
153 ; Change default device name from SYS\$DISK to SYS\$SYSDISK
154 ;
155 ; V02-018 PHL0007 Peter H. Lipman 27-Mar-1981
156 ; Add top level directory string passed from VMB to
157 ; SYSBOOT to INIT. This is the directory all the system
158 ; directories are found in. If null, then the system
159 ; directories are in the MFD usual.
160 ;
161 ; V02-017 KDM0048 Kathleen D. Morse 27-Mar-1981
162 ; Add pointer to MP code that is loaded in pool.
163 ;
164 ; V02-016 PHL0007 Peter H. Lipman 26-Mar-1981
165 ; Add descriptor for FIL\$OPENFILE cache.
166 ;
167 ; V02-015 KTA0001 Kerbey T. Altmann 15-Dec-1981
168 ; Add cell for system-wide user rundown service
169 ; (EXE\$GL_USRUNDWN).
170 ;
171 ; V0214 CAS0002 C. A. Samuelson 12-Dec-1980

```
172 ;           Add cells for counting unexpected SCB interrupts and for
173 ;           wait loop iteration counter.
174 ;
175 ;   V0213   SPF0001           Steve Forgey           02-Oct-1980
176 ;           Add large request packet (LRP) data base.
177 ;
178 ;
179 ;
180 ; MACRO LIBRARY CALLS
181 ;
182   $ACMDEF           ; DEFINE ACCOUNTING MANAGER OFFSETS
183   $CADEF            ; DEFINE CONDITIONAL ASSEMBLY PARAMETER
184   $DYNDEF          ; DEFINE DATA STRUCTURE CODES
185   $FKBDEF          ; DEFINE FORK BLOCK OFFSETS
186   $IPLDEF          ; DEFINE INTERRUPT PRIORITIES
187   $IRPDEF          ; DEFINE IO REQUEST PACKET STRUCTURE
188   $LOGDEF          ; DEFINE LOG OFFSETS
189   $SGNDEF          ; DEFINE SYSGEN VALUES
190   $TQDEF           ; DEFINE TQE OFFSETS
191   $WCBDEF          ; DEFINE WCB OFFSETS
192
193 ;
194 ; MACRO DEFINITIONS:
195 ;
196
197   .MACRO   TIME
198   .LONG   0
199   .LONG   ^X859034
200   .ENDM   TIME
201
```

```

203     .SBTTL  SYSCOMMON
204
205     .PSECT  $$$260,QUAD,WRT
206 ;+
207 ; SYSTEM COMMON DATA BASES
208 ;
209 ; SYSTEM FLAGS LONG WORD
210 ;
211 ; NOTE: THE ACTUAL DEFAULT SETTING FOR EXESGL_FLAGS IS IN SYSPARAM IN
212 ; CELL EXESGL_DEFFLAGS AND IS COPIED INTO THE WORKING LOCATION,
213 ; EXESGL_FLAGS BY INIT.
214 ;
215 EXESGL_FLAGS::
216     .LONG  0                ; SYSTEM CONTROL FLAGS
217
218 ;
219 ; ERROR LOG MAILBOX CONTROL
220 ;
221 EXESGQ_ERLMBX::                ;
222     .WORD  0                ; UNIT NUMBER (0 => NONE)
223     .WORD  0                ; RESERVED
224     .LONG  0                ; PID OF ASSIGNER
225
226
227 ;
228 ; VECTORS TO USER SUPPLIED CHANGE MODE HANDLERS
229 ;
230 EXESGL_USRCHMK::                ; VECTOR TO USER SUPPLIED CHANGE MODE
231     .LONG  0                ; TO KERNEL HANDLER
232 EXESGL_USRCHME::                ; VECTOR TO USER SUPPLIED CHANGE MODE
233     .LONG  0                ; TO EXECUTIVE HANDLER
234
235 ;
236 ; FORK QUEUE LISTHEADS
237 ;
238
239     .ALIGN  QUAD
240 SWISGL_FQFL::                ; FORWARD LINK
241 A: .LONG  A                ; IPL-6 LISTHEAD
242 SWISGL_FQBL::                ; BACKWARD LINK
243     .LONG  A                ;
244 2$: .LONG  2$,2$            ; IPL-7 LISTHEAD
245 3$: .LONG  3$,3$            ; IPL-8 LISTHEAD
246 4$: .LONG  4$,4$            ; IPL-9 LISTHEAD
247 5$: .LONG  5$,5$            ; IPL-10 LISTHEAD
248 6$: .LONG  6$,6$            ; IPL-11 LISTHEAD
249
250 ;
251 ; LOGICAL NAME TABLE ADDRESS TABLE
252 ;
253 ; NOTE: THE INDIRECTION ON THE SYSTEM/GROUP LEVEL IS NECESSARY SO
254 ; THAT THE CODE THAT ACCESS ANY TABLE CAN BE SYMMETRICAL AND
255 ; SIMPLE. THE INDIRECTION ON THE PROCESS LEVEL IS DICATATED
256 ; BY THE FACT THAT THE ADDRESS MAY BE DIFFERENT IN EACH PROCESS
257 ; P1 SPACE.
258 ;
259

```



```

260 LOG$AL_LOGTBL::                ; FIRST TWO SET UP NOW IN INIT
261   .LONG    10$                 ; SYSTEM NAME TABLE
262   .LONG    20$                 ; GROUP NAME TABLE
263   .LONG    CTL$GL_LOGTBL      ; PROCESS NAME TABLE
264
265 10$:      .LONG    0           ; ADDR FILLED IN BY SWAPPER INIT
266 20$:      .LONG    0           ; ADDR FILLED IN BY SWAPPER INIT
267
268 ;
269 ; LOGICAL NAME TABLE VARIABLE(S)
270 ;
271
272 LOG$AB_HTBLCNT::                ; NUMBER OF ENTRIES IN HASH TABLE
273   .BYTE    0,0,0,0            ; (EXPRESSED AS A POWER OF TWO)
274
275 ;
276 ; LOGICAL NAME TABLE MUTEX TABLE
277 ;
278
279 LOG$AL_MUTEX::                  ;
280   .WORD    -1,0               ; SYSTEM NAME TABLE
281   .WORD    -1,0               ; GROUP NAME TABLE
282
283 ;
284 ; ADDRESS OF SYSTEM BOOT DEVICE UCB AND DEFAULT DEVICE
285 ;
286
287 EXE$GL_SYSUCB::                 ; SYSTEM DEVICE UCB ADDRESS
288   .LONG    0                  ;
289 FIL$GT_DDDEV::                  ; FILE READ DEFAULT DEVICE STRING
290   .ASCIC   /SYSS$SYSDEVICE/   ; LOGICAL NAME STRING

291 FIL$GT_TOPSYS::                 ; ASCIC TOP LEVEL DIR STRING
292   .BLKB    10                 ; FILLED IN BY INIT WITH STRING
293                                   ; FROM VMB AND SYSBOOT
294   .ALIGN   LONG
295 FIL$GQ_CACHE::                  ; FILE READ CACHE DESCRIPTOR
296   .BLKQ    1                  ;
297 EXE$GQ_BOOTCB_D::              ; DESCRIPTOR FOR BOOT CONTROL BLOCK
298   .BLKQ    1                  ; BYTE COUNT TO BE CHECKSUMMED
299 EXE$GL_BOOTCB == EXE$GQ_BOOTCB_D+4 ; ADDRESS OF BOOT CONTROL BLOCK
300
301 EXE$GL_SAVEDUMP::              ; BLOCK COUNT TO RELEASE TO PAGE FILE
302   .BLKL    1                  ; WHEN DUMP IN PAGE FILE IS COPIED
303
304 ;
305 ; I/O DONE PACKET QUEUE
306 ;
307
308   .ALIGN   QUAD
309 IOC$GL_PSFL::                   ;
310 B:   .LONG   B                 ; FORWARD LINK
311 IOC$GL_PSBL::                   ;
312   .LONG   B                   ; BACKWARD LINK
313
314 ;

```

```
315 ; I/O PACKET LOOK ASIDE LISTHEAD
316 ;
317
318 IOC$GL_IRPFL:: ;
319 .LONG IOC$GL_IRPFL ;
320 IOC$GL_IRPBL:: ;
321 .LONG IOC$GL_IRPFL ;
322 IOC$GL_IRPREM:: ;
323 .LONG 0 ; Address of partial packet
324 IOC$GL_IRPCNT:: ;
325 .LONG 0 ; Current count of allocated packets
326 IOC$GL_IRPMIN:: ; Minimum size to take from list
327 .LONG <<IRP$C_LENGTH*2>/3>
328
329
330
331 ;
332 ; SMALL REQUEST PACKET LOOK ASIDE LISTHEAD AND DATA BASE
333 ;
334
335 IOC$GL_SRPFL:: ;
336 .LONG IOC$GL_SRPFL ;
337 IOC$GL_SRPBL:: ;
338 .LONG IOC$GL_SRPFL ;
339 IOC$GL_SRP$SIZE:: ;
340 .LONG 0 ;
341 IOC$GL_SRP$MIN:: ;
342 .LONG 0 ;
343 IOC$GL_SRP$SPLIT:: ;
344 .LONG 0 ;
345 IOC$GL_SRP$PREM:: ;
346 .LONG 0 ; Address of packet remainder
347 IOC$GL_SRP$CNT:: ;
348 .LONG 0 ; Current count of allocated packets
349
350 ;
351 ; LARGE REQUEST PACKET LOOK ASIDE LISTHEAD AND DATA BASE
352 ;
353
354 IOC$GL_LRPFL:: ;
355 .LONG IOC$GL_LRPFL ;
356 IOC$GL_LRPBL:: ;
357 .LONG IOC$GL_LRPFL ;
358 IOC$GL_LRP$SIZE:: ;
359 .LONG 0 ;
360 IOC$GL_LRP$MIN:: ;
361 .LONG 0 ;
362 IOC$GL_LRP$SPLIT:: ;
363 .LONG 0 ;
364 IOC$GL_LRP$PREM:: ;
365 .LONG 0 ; Address of packet remainder
366 IOC$GL_LRP$CNT:: ;
367 .LONG 0 ; Current count of allocated packets
368 ;
369 ; FORK BLOCK TO USE FOR POOL EXPANSION
370 ;
371 IOC$GL_POOLFKB::
```

```
372      .LONG      0,0          ; Flink, Blink
373      .WORD      FKB$C_LENGTH ; Size
374      .BYTE      DYN$C_FRK     ; Type
375      .BYTE      IPL$ _QUEUEAST ; Fork IPL (6)
376      .LONG      0            ; Fork PC
377      .LONG      0            ; Fork R3
378      .LONG      0            ; Fork R4
379      IOC$GL_PFKBINT::        ;
380      .LONG      0            ; Fork block interlock 0 => free
381 ;
382 ;
383 ; SYSTEM AQB LISTHEAD
384 ;
385      IOC$GL_AQLIST::
386      .LONG      0            ; SINGLE LINK, EMPTY
387 ;
388 ; SYSTEM-WIDE MOUNTED VOLUME LIST
389 ;
390      IOC$GQ_MOUNTLST::
391      .LONG      .
392      .LONG      .-4
393 ;
394 ; TERMINAL BROADCAST MESSAGE LIST HEAD
395 ;
396      IOC$GQ_BRDCST::          ;
397      1$: .LONG      1$,1$      ; EMPTY
398
399 ;
400 ; SINGLY LINKED LIST OF CRB'S TO SCAN FOR TIMEOUTS
401 ;
402      IOC$GL_CRBTMOU::
403      .LONG      0            ; EMPTY
404 ;
405 ; GROUP GLOBAL SECTION DESCRIPTOR LIST HEAD
406 ;
407
408      EXE$GL_GSDGRPFL::        ; FORWARD LINK
409      .LONG      .
410      EXE$GL_GSDGRPBL::        ; BACKWARD LINK
411      .LONG      .-4
412
413 ;
414 ; SYSTEM GLOBAL SECTION DESCRIPTOR LIST HEAD
415 ;
416
417      EXE$GL_GSDSYSFL::        ; FORWARD LINK
418      .LONG      .
419      EXE$GL_GSDSYSBL::        ; BACKWARD LINK
420      .LONG      .-4
421
422 ;
423 ; GLOBAL SECTION DESCRIPTOR BLOCK LOOK ASIDE LIST HEAD
424 ;
425
426      EXE$GL_GSDFREFL::        ; FORWARD LINK
427      .LONG      .
428      EXE$GL_GSDFREBL::        ; BACKWARD LINK
```

```
429     .LONG     .-4
430 ;
431 ; GLOBAL SECTION DESCRIPTOR DELETE PENDING LIST
432 ;
433
434 EXESGL_GSDDELFL::                ; FORWARD LINK
435     .LONG     .
436 EXESGL_GSDDELBL::                ; BACKWARD LINK
437     .LONG     .-4
438
439 ;
440 ; WINDOW CONTROL BLOCK DELETE QUEUE - GLOBAL SECTION WINDOWS ARE
441 ;   PLACED HERE WHEN THE SECTION IS DELETED. THEY ARE THEN
442 ;   REMOVED FROM THIS QUEUE AND DEACCESSED.
443 ;
444
445 EXESGL_WCBDELFL::                ; FORWARD LINK
446     .LONG     .
447 EXESGL_WCBDELBL::                ; BACKWARD LINK
448     .LONG     .-4
449
450 ;
451 ; SYSTEM WINDOW CONTROL BLOCK LIST - ALL WINDOWS CRAFTED BY MMGSINIWCB
452 ;   AND INIT ARE PLACED HERE.
453 ;
454
455 EXESGL_SYSWCBFL::                ; FORWARD LINK
456     .LONG     .
457 EXESGL_SYSWCBL::                ; BACKWARD LINK
458     .LONG     .-4
459
460 ;
461 ; TIMER PERFORMANCE STATISTICS
462 ;
463
464     .IF NE CAS_MEASURE                ; CHECK FOR MEASUREMENT ENABLED
465
466     .ALIGN LONG
467 PMSSGL_KERNEL::                ; TIME IN KERNEL MODE
468     .LONG     0
469 PMSSGL_EXEC:                    ; TIME IN EXECUTIVE MOVE
470     .LONG     0
471 PMSSGL_SUPER:                  ; TIME IN SUPERVISOR MODE
472     .LONG     0
473 PMSSGL_USER:                   ; TIME IN USER MODE
474     .LONG     0
475 PMSSGL_INTER:                  ; TIME ON INTERRUPT STACK
476     .LONG     0
477 PMSSGL_COMPAT::                ; TIME IN COMPATIBILITY MODE
478     .LONG     0
479
480     .ENDC
481
482 ;
483 ; SYSTEM ABSOLUTE TIME IN SECONDS
484 ;
485
```

```

486      .ALIGN  LONG
487 EXESGL_ABSTIM::      ; ABSOLUTE TIME IN SECONDS
488      .LONG    0      ;
489
490 ;
491 ; SYSTEM ABSOLUTE TIME IN NANoseconds
492 ;
493
494      .ALIGN  QUAD
495 EXESGQ_SYSTIME::      ; SYSTEM ABSOLUTE TIME IN NANoseconds
496      TIME          ; QUAD WORD OF INITIAL TIME
497
498 EXESGL_PFAILTIM::      ; TODR AT POWER FAIL
499      .LONG    0      ;
500 EXESGL_PFATIM::      ; DURATION OF LAST POWER FAILURE
501      .LONG    0      ; IN .01 SECOND UNITS FOR POWER FAIL
502      ; AST.
503
504 ;
505 ; TIME DEPENDENT SCHEDULER REQUEST QUEUE
506 ;
507
508      .ALIGN  QUAD
509 EXESGL_TQFL::          ; FORWARD LINK OF TIME QUEUE LISTHEAD
510      .LONG    DEVICETIM ; LINK TO DEVICE TIME OUT ENTRY
511 EXESGL_TQBL:          ; BACK LINK OF TIME QUEUE LISTHEAD
512      .LONG    PERMENTRY ; LINK TO PERMENENT ENTRY
513
514 ;
515 ; DEVICE TIME OUT TIME QUEUE ENTRY
516 ;
517
518      .ALIGN  QUAD
519 DEVICETIM:            ; DEVICE TIME OUT TIME QUEUE ENTRY
520      .LONG    PERMENTRY ; FORWARD LINK TO PERMANENT ENTRY
521      .LONG    EXESGL_TQFL ; BACK LINK TO LISTHEAD
522      .WORD    0          ; SIZE OF ENTRY
523      .BYTE    DYN$C_TQE  ; TYPE OF DATA STRUCTURE
524      .BYTE    TQESC_SSREPT ; REQUEST TYPE OF ENTRY
525      .LONG    EXESTIMEOUT ; PC OF SYSTEM SUBROUTINE
526      .LONG    IOC$GL_DEVLIST ; ADDRESS OF I/O DATA BASE LISTHEAD
527      .BLKL   1          ; ONE UNUSED LONGWORD
528      TIME          ; QUAD WORD OF EXPIRATION TIME
529      .LONG    100000*100 ; DELTA REPEAT TIME OF 1 SECOND
530      .LONG    0          ;
531
532 ;
533 ; PERMANENT TIME QUEUE ENTRY
534 ;
535
536      .ALIGN  QUAD
537 EXESAL_TQENOREPT::      ; Global name of canonical, no repeat,
538      ; timer queue entry
539 PERMENTRY:            ; PERMENENT TIME QUEUE ENTRY
540      .LONG    EXESGL_TQFL ; FORWARD LINK TO LISTHEAD
541      .LONG    DEVICETIM  ; BACK LINK TO DEVICE TIME OUT ENTRY
542      .WORD    0          ; SIZE OF ENTRY

```

```

543      .BYTE    DYN$C_TQE                ; TYPE OF DATA STRUCTURE
544                                          ; This TQE cannot repeat.
545      .BYTE    TQESC_TMSNGL & <^CTQESM_REPEAT> ; REQUEST TYPE OF ENTRY
546      .BLKL    3                        ; THREE UNUSED LONGWORDS
547      .LONG    ^XOFFFFFFFFF             ; INFINITY EXPIRATION TIME
548      .LONG    ^XOFFFFFFFFF             ;
549
550
551 ;
552 ; IOC DATA BASE MUTEX
553 ;
554
555 IOC$GL_MUTEX::                          ; MUTEX FOR IOC DATA BASE
556      .WORD    -1                        ; INITIAL COUNT OF -1
557      .WORD    0                          ; ALL FLAGS CLEARED
558
559
560 ;
561 ; COMMON EVENT LIST MUTEX
562 ;
563
564 EXE$GL_CEBMTX::                          ; MUTEX FOR COMMON EVENT CLUSTER LIST
565      .WORD    -1                        ; INITIAL COUNT OF -1
566      .WORD    0                          ; ALL FLAGS CLEARED
567
568 ;
569 ; DYNAMIC PAGED MEMORY MUTEX
570 ;
571
572 EXE$GL_PGDYNMTX::                        ; PAGED DYNAMIC MEMORY MUTEX
573      .WORD    -1                        ; INITIAL COUNT OF -1
574      .WORD    0                          ; ALL FLAGS CLEAR
575 ;
576 ; GLOBAL SECTION DESCRIPTOR TABLE MUTEX
577 ;
578
579 EXE$GL_GSDMTX::                          ; GLOBAL SECTION DESCRIPTOR MUTEX
580      .WORD    -1                        ; INITIAL COUNT OF -1
581      .WORD    0                          ; ALL FLAGS CLEAR
582
583 ;
584 ; SHARED MEMORY GLOBAL SECTION DESCRIPTOR TABLE MUTEX
585 ;
586
587 EXE$GL_SHMGSMTX::                        ; SHARED MEMORY GLOBAL SECTION DSC MUTE
588
589      .WORD    -1                        ; INITIAL COUNT OF -1
590      .WORD    0                          ; ALL FLAGS CLEAR
591
592 ;
593 ; SHARED MEMORY MAILBOX TABLE MUTEX
594 ;
595
596 EXE$GL_SHMMBMTX::                        ; SHARED MEMORY MAILBOX TABLE MUTEX
597
598      .WORD    -1                        ; INITIAL COUNT OF -1
599      .WORD    0                          ; ALL FLAGS CLEAR

```

```
600
601 ;
602 ; ENQUEUE/DEQUEUE TABLES MUTEX
603 ;
604
605 EXESGL_ENQMTX::                ; ENQUEUE/DEQUEUE TABLES MUTEX
606     .WORD    -1                ; INITIAL COUNT OF -1
607     .WORD    0                ; ALL FLAGS CLEAR
608
609 ;
610 ; KNOWN FILE TABLE DATA
611 ;
612
613 EXESGL_KFIMTX::                ; KNOWN FILE TABLE MUTEX
614     .WORD    -1                ; INITIAL COUNT OF -1
615     .WORD    0                ; ALL FLAGS CLEAR
616 EXESGL_KNOWNFIL::              ; ADDRESS OF KNOWN FILE LIST VECTOR
617     .LONG    0                ; EACH ENTRY OF WHICH POINTS TO
618                                ; A LIST HEAD FOR THAT KNOWN FILE LIST
619 KFI$GL_F11ACF::                ; ADDRESS OF KNOWN FILE ENTRY FOR
620     .LONG    0                ; SYSTEM DISK ACP IF SHARING ACP
621
622 ;
623 ; GLOBAL PAGE TABLE
624 ;
625
626 EXESGL_GPT::                    ; ADDRESS OF FIRST FREE GLOBAL PTE
627     .LONG    0                ; SETUP BY INIT
628                                ; NO BYTES IN BLOCK
629     .LONG    0
630
631 ;
632 ; SYSTEM VERSION NUMBER
633 ;
634 SYSS$GQ_VERSION::              ;
635     .LONG    SYSS$K_VERSION
636     .ASCII   / /
637
638     .ALIGN   LONG
639
640 ;
641 ; JOB CONTROLLER DATA CELLS
642 ;
643 SYSS$GW_IJOBcnt::              .WORD    0                ; CURRENT COUNT OF INTERACTIVE LOGINS
644 SYSS$GW_NJOBcnt::              .WORD    0                ; CURRENT COUNT OF NETWORK LOGINS
645 SYSS$GW_BJOBcnt::              .WORD    0                ; CURRENT COUNT OF BATCH LOGINS
646
647 ;
648 ; PROCESS INDEX OF NEXT PROCESS TO CHECK FOR PRIORITY BOOST
649 ;
650 EXES$GW_SCANPIX::              .WORD    2                ; START AFTER SWAPPER AND NULL
651     .ALIGN   LONG
652
653 ;
654 ; ADDRESS OF SYSTEM-WIDE MESSAGE SECTION
655 ;
656 EXESGL_SYSMMSG::                .LONG    0                ; ADDRESS OF SYSTEM-WIDE MESSAG
```

```
657
658 ;
659 ; ADDRESS OF SYSTEM-WIDE USER RUNDOWN SERVICE VECTOR
660 ;
661 EXESGL_USRUNDWN::
662     .LONG    0                ; VECTOR FOR SYSTEM-WIDE RUNDOWN
663
664     .ALIGN   QUAD
665 ;
666 ; DYNAMIC STORAGE REGION - NONPAGED
667 ;
668
669     .PSECT   $$$260,QUAD,WRT
670 EXESGL_NONPAGED::
671     .LONG    11                ;
672     .LONG    0                ; DISABLE ALL FORK INTERRUPTS
673     .LONG    0                ; ADDRESS OF FIRST FREE BLOCK
674 EXESGL_SPLITADR::
675     .LONG    0                ; NO BYTES IN BLOCK
676                                ; LOOKASIDE I/O PACKET LIST SPLIT ADDRE
677                                ; ADDRESS OF FIRST FREE BLOCK
678 ;
679 ; DYNAMIC STORAGE REGION - PAGED
680 ;
681
682     .PSECT   $$$260,QUAD,WRT
683 EXESGL_PAGED::
684     .LONG    0                ;
685     .LONG    0                ; ADDRESS OF FIRST FREE BLOCK
686                                ; NO BYTES IN BLOCK
687
688 ;
689 ; POINTER TO RMS SHARED FILE DATA BASE
690 ;
691 RMSSGL_SFDBASE::
692     .LONG    0                ; POINTER TO SHARED FILE DATA BASE
693                                ; INITIALLY EMPTY
694 ;
695 ; SHARED MEMORY CONTROL BLOCK LISTHEAD
696 ;
697 EXESGL_SHBLIST::
698     .LONG    0                ; SHARED MEMORY CONTROL BLOCKS
699
700 ;
701 ; Address of the realtime control block that describes and contains the
702 ; bit map of SPTs used in connect to interrupt requests.
703 ;
704
705 EXESGL_RTBITMAP::
706     .LONG    0                ; Realtime SPT bit map.
707
708 ;
709 ; Cells for Machine Check recovery block
710 ;
711
712     .PSECT   $$$260,QUAD,WRT
713
```



```
714 MCHK$GL_MASK::
715     .LONG 0 ; Function mask for current recovery bl
716 MCHK$GL_SP::
717     .LONG 0 ; Saved SP for return at end of block
718 ; ; 0 (zero) if no current recovery block
719 ;
720 ; CPU error counts
721 ;
722 EXE$GL_MCHKERRS::
723     .LONG 0 ; Count of machine checks since boot
724 EXE$GL_MEMERRS::
725     .LONG 0 ; Count of memory errors since boot
726
727 ;
728 ; Cell to count unexpected DW780 Unibus Adapter interrupts through vector
729 ;
730 IO$GL_UBA_INT0::
731     .LONG 0 ; Counter for UBA interrups thru vector
732 ;
733 ; PFN of page used to remap virtual address of powerfailed adapters to
734 ;
735 EXE$GL_BLAHOLE::
736     .LONG 0 ; Page to use for anything you don't ca
737
738 ;
739 ; Cell for counting unexpected interrupts through SCB NEXUS vector 0 and
740 ; through SCB vector 0.
741 ;
742 IO$GL_SCB_INT0::
743     .LONG 0 ; Counter for unexpected SCB interrupts
744 ;
745 ; Cell for initial value for wait loop counter, replacing use of hardware
746 ; interval timer in device drivers. Used by system macro $TIMEWAIT.
747 ;
748 EXE$GL_TENUSEC::
749     .LONG 0 ; No. of times loop executes in 10 u-se
750 ;
751 ; Pointer to MP code, that is loaded into pool.
752 ;
753 EXE$GL_MP::
754     .LONG 0 ; Pointer to MP code
755 ;
756 ; Site specific cell that can be used by users to contain the address of
757 ; allocated regions of pool or anything else they need.
758 ;
759 EXE$GL_SITESPEC::
760     .LONG 0 ; Site specific longword
761 ;
762 ; Address of top of interrupt stack (i.e. limit of stack)
763 ;
764 EXE$GL_INTSTKLM::
765     .LONG 0 ; Top of interrupt stack
766 ;
767 ; Lock manager variables
768 ;
769 LCK$GL_IDTBL::
770     .LONG 0 ; Address of lock id table
```

```

771 LCK$GL_NXTID::                ; Next lock id to use
772     .LONG 0
773 LCK$GL_MAXID::                ; Max. lock id
774     .LONG 0
775 LCK$GL_HASHTBL::              ; Address of resource hash table
776     .LONG 0
777 LCK$GL_HTBLCNT::              ; Number of entries in hash table
778     .LONG 0
779 LCK$GL_TIMEOUTQ::             ; (expressed as a power of two)
780     .LONG LCK$GL_TIMEOUTQ      ; Lock timeout queue header
781     .LONG LCK$GL_TIMEOUTQ      ; (used for deadlock detection)
782 LCK$GL_PRCMAP::                ; Address of process bitmap
783     .LONG 0                    ; (one bit for each process)
784 LCK$GB_MAXDEPTH::              ; Maximum depth of resource names
785     .BYTE 0
786
787     .ALIGN LONG
788
789
790 ;
791 ; DEFINE THE FLAG BITS IN EXE$GL_SYSFLAGS.
792 ;
793     $GBLINI GLOBAL
794     $VIELD EXE,0,<-
795             BLKHOLBSY,-        ; THE BLAKHOLE PAGE IS BUSY
796             >
797
798 ;
799 ; DEFINE A GLOBAL LONGWORD FOR SYSTEM-WIDE STATUS FLAGS.
800 ;
801 EXE$GL_SYSFLAGS::                ; SYSTEM-WIDE STATUS FLAGS
802     .LONG 0
803
804 ;
805 ; DEFINE A LONGWORD THAT CONTAINS THE ACCOUNTING MANAGER CONTROL FLAGS
806 ;
807 EXE$GL_ACMFLAGS::                ; ACCOUNTING MANAGER CONTROL FLAGS
808     .LONG ^C<1@ACM$V_IMAGE>     ; ACCOUNTING ENABLED EXCEPT IMAGE
809
810 ;
811 ; DEFINE A LONGWORD THAT CONTAINS THE SYSTEM VIRTUAL ADDRESS OF A PTE
812 ; (IN THE SPT) THAT MAPS THE BLAKHOLE PAGE INTO SYSTEM SPACE.
813 ;
814 EXE$GL_SVAPTE::                  ; SVAPTE FOR PTE THAT MAPS BLAKHOLE PAG
815     .LONG 0
816
817 ;
818 ; DEFINE A QUADWORD A FUNCTION AS THE WAIT QUEUE LIST HEAD FOR THE BLAKHOL
819 ; PAGE. DEVICES THAT WISH TO USE THE BLAKHOLE PAGE FOR MOUNT VERIFICATION
820 ; WILL BE PLACED IN THE WAIT QUEUE LIST IF THE BLAKHOLE PAGE IS BUSY.
821 ;
822 EXE$GQ_BLKHWQ::                  ; BLAKHOLE PAGE WAIT QUEUE LIST HEAD
823     .LONG EXE$GQ_BLKHWQ         ; SET FLINK
824     .LONG EXE$GQ_BLKHWQ         ; SET BLINK
825
826
827     .END

```


SYSPARAM.MAR


```
.IF      NDF,PRMSW      ;
.TITLE  SYSPARAM - SYSTEM PARAMETERS
.IFF    ;
.TITLE  PARAMETER - PARAMETER DESCRIPTORS FOR SYSPARAM
.ENDC
.IDENT  'V03-009'
```

```
*****
;*
;*  COPYRIGHT (c) 1978, 1980, 1982 BY
;*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
;*  ALL RIGHTS RESERVED.
;*
;*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
;*  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
;*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
;*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
;*  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
;*  TRANSFERRED.
;*
;*  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
;*  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
;*  CORPORATION.
;*
;*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
;*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
;*
*****
```

```
;++
; FACILITY: EXECUTIVE DATA BASE
;
; ABSTRACT:
;   SYSPARAM CONTAINS THE EXECUTIVE CONTROL PARAMETERS AND CERTAIN
;   KEY VARIABLES.
;
; ENVIRONMENT:
;
; AUTHOR: R. I. HUSTVEDT, CREATION DATE: 09-OCT-1977
;
; MODIFIED BY:
;
;   V03-009 HRJ0064      Herb Jacobs      21-Apr-1982
;   Fix default values of RMS_DFMBC, RMS_EXTEND, MPW_LOLIMIT.
;
;   V03-008 JLV0208      Jake Vannoy      15-Apr-1982
;   Fix default values for TTY_SILOTIME, WSINC, WSDEC.
;
;   V03-007 JLV0207      Jake VanNoy      5-APR-1982
;   Add some smarts to PARAMETER macro to ignore dynamic
;   bits if they are not in EXESGL_DEFFLAGS. This prevents
;   the dynamic bits in STJ0249 from being included in
;   PRMSM_DYNFLAGS.
;
;   V03-006 STJ0249      Steven T. Jeffreys 01-Apr-1982
;   Add global longword for system message flags. Define
;   EXESV_MOUNTMSG and EXESV_DISMOUMSG to control operator
;   notification of mounts and dismounts, respectively.
```

By default, both are disabled.

V03-005 MLJ0085 Martin L. Jack 01-Apr-1982
Add EXESV_JOBQUEUES, EXESV_REINITQUE to control initialization
of JBCSYSQUE by job controller.

V03-004 PHL0041 Peter H. Lipman 01-Apr-1982
Default setting for SAVEDUMP must be off.

V03-003 HRJ0061 Herb Jacobs 28-Mar-1982
Fix categories for /MAJOR, /SYS, /SYSGEN, correct
some default values, and change global name of SWPFILCNT.

V03-002 PHL0040 Peter H. Lipman 22-Mar-1982
Add EXESV_PAGFILDMP, EXESV_SAVEDUMP, EXESGW_PGFL_FID
to support the dump file in the page file.

V03-001 JLV0193 Jake VanNoy 15-MAR-1982
Add TTY_SILOTIME. Change defaults for TTY_OWNER and TTY_PROT
and PQL_ENQLM. Change names of TTYSKANDELTA to TTY_SKANDELTA
and DIALTYPE to TTY_DIALTYPE.

V02-081 RIH0095 Richard I. Hustvedt 2-Mar-1982
Add FREEGOAL parameter and adjust selected default values.

V02-080 JLV0189 Jake VanNoy 23-FEB-1982
Make Full duplex and No modem the defaults in TTY_DEFCHAR.

V02-079 HRJ0055 Herb Jacobs 23-Feb-1982
Add GROWLIM sysgen parameter and fix several more default
values.

V02-078 RIH0090 Richard I. Hustvedt 16-Feb-1982
Add process count of processes to scan.

V02-077 HRJ0053 Herb Jacobs 14-Feb-1982
Adjust more V3 default sysgen values.

V02-076 RLRUDA2 Robert L. Rappaport 12-Feb-1982
Another spelling correct for UDABURSTRATE.

V02-075 RIH0086 Richard I. Hustvedt 11-Feb-1982
Refine user parameter definitions and adjust selected
default values.

V02-074 RLRUDA1 Robert L. Rappaport 09-Feb-1982
Correct spelling of SCS\$GB_UDABURST.

V02-073 HRJ0052 Herb Jacobs 08-Feb-1982
Add reserved user and VMS sysgen parameters.

V02-072 RLRUDAB Robert L. Rappaport 08-Feb-1982
Added UDABURSTRATE parameter to allow for setting the
UDA50 burst rate.

V02-071 STJ0198 Steven T. Jeffreys, 05-Feb-1982
Added MVTIMEOUT parameter to set an upper limit on
the time a device will languish in mount verification.

V02-070 NPK2014 N. Kronenberg 31-Jan-1982
Tuned SCS min/max/default values and added parameter

```

;
;
;       PAPOOLINTERVAL.
;
; V02-069 HRJ0049      Herb Jacobs      25-Jan-1982
;       Set default value for TBSKIPwSL.
;
; V02-068 RIH0086      Richard I. Hustvedt  25-Jan-1982
;       Make IRP,LRP,SRP names consistent. Set proper minimum
;       value for SRPSIZE. Fix name inconsistencies for MPW
;       parameters.
;
; V02-067 JLV0167      Jake VanNoy      25-Jan-1982
;       Make TTY_DMASIZE dynamic.
;
; V02-066 RIH0085      Richard I. Hustvedt  23-Jan-1982
;       Adjust pool parameter defaults. Add LRPMIN, SRPMIN
;
; V02-065 HRJ0048      Herb Jacobs      18-Jan-1982
;       Reset default values for V3 to make SYSGEN USE DEFAULT useful.
;
; V02-064 RIH0084      Richard I. Hustvedt  18-Jan-1982
;       Add parameters for the small request packet list.
;       Change LRP parameters to normal. Adjust defaults for
;       virtual pool parameters.
;
; V02-063 LJA0003      Laurie Anderson    8-Jan-1982
;       Removed RMS constants no longer in use because
;       SET RMS /COMPAT went away.
;
; V02-062 JLV0142      Jake VanNoy      2-Jan-1981
;       Remove global definition of PRMSM_DYNFLAGS from
;       SYSPARAM, leaving it in PARAMETER only.
;
; V02-061 JLV0142      Jake VanNoy      2-Jan-1981
;       Add to PARAMETER macro to create symbol PRMSM_DYNFLAGS.
;       Move EXESV_xxx symbols from SYSCOMMON to this module.
;       Change DIALTYPE to be a bit mask. Correct spelling
;       error in RMS_DFMBFIDX parameter name.
;
; V02-060 RIH0083      Richard I. Hustvedt  31-Dec-1981
;       Add parameters for virtual non-paged pool allocation.
;
; V02-059 ACG0251      Andrew C. Goldstein, 29-Dec-1981  21:24
;       Add RMS_FILEPROT (default file protection)
;
; V02-058 HRJ0040      Herb Jacobs      28-Dec-1981
;       Remove MPW_MINCLUSTER parameter, raise minimum value of
;       FREELIM to 2 times shell size to prevent swapper FPG wait.
;
; V02-057 MIR0058      Michael I Rosenblum  9-Dec-1981
;       Add to the defaults to TTY_DEVDEPEND, TTSM_MODEM.
;
; V02-056 LJK0096      Lawrence J. Kenah   3-Dec-1981
;       Change default and maximum values for KFILSTCNT.
;
; V02-055 LJK0095      Lawrence J. Kenah   3-Dec-1981
;       Add cell that contains address of boundary between
;       nonpaged and pageable exec routines. This cell is
;       used by INIT and SYSBOOT.
;
; V02-054 HRJ0036      Herb Jacobs      29-Nov-1981
;       Remove AWSMAX parameter.
;

```



```

;
;   more parameters.
;   2) Added several terminal characteristics for the new
;   terminal driver support.
;
V02-038 KTA0028      Kerbey T. Altmann      30-Jul-1981
;   1) Add 4 longwords to record CPU hardware/ucode revs.
;   2) Add size parameter for each log name table.
;   3) Add SCS parameters.
;
V02-037 JLV0052      Jake VanNoy           29-Jul-1981
;   Add TTY type to parameters so a SHOW/TTY can be done
;   from SYSGEN. Change MAXPRINTSYMB from 255 to 32.
;
V02-036 HRJ0023      Herb Jacobs           06-Jul-1981
;   Set better defaults for some of the paging/swapping
;   parameters.
;
V02-035 HRJ0023      Herb Jacobs           19-Jun-1981
;   Added swap allocation unit and MPW_MINCLUSTER.
;
V02-034 KTA0023      Kerbey T. Altmann     16-Jun-1981
;   Add parameter for logical name hash table size.
;
V02-033 JLV0028      Jake VanNoy           15-Jun-1981
;   Add TTYSGB_HANGUP, which defines whether LOGOUT hangs
;   up a dialup line or not.
;
V02-032 KTA0022      Kerbey T. Altmann     14-Jun-1981
;   Add new flag SSINHIBIT to EXE$GL_FLAGS. If set, then
;   code in INIT will reset vectors for CHMK, CHME to
;   special entry points that may inhibit system services.
;
V02-031 LJK0030      Lawrence J. Kenah      27-May-1981
;   Add global name MMG$GW_BIGPFN to upper word in cell
;   MMG$GL_MAXPFN. Change names of BLINK, FLINK, SHRCNT,
;   and WSLX from PFN$AW_name to PFN$Ax_name.
;
;   Add temporary synonyms for old names so that SYSBOOT
;   and XDELTA still work.
;
V02-030 HRJ0020      Herb Jacobs           4-May-1981
;   Added SCH$GW_LONGWAIT and SGN$GW_DZROCL.
;
V02-029 KTA0017      Kerbey T. Altmann     24-Apr-1981
;   Added new sysgen parameters for SCS services:
;   BUFFCOUNT, CONNCOUNT, RESPCOUNT.
;
V02-028 HRJ0020      Herb Jacobs           20-Apr-1981
;   Added new sysgen parameters for BORROWLIM, SWPPGCNT,
;   and new PQL entry for WSEXTENT.
;
V02-027 SRB0013      Steve Beckhardt       25-Mar-1981
;   Added new sysgen parameters for lock manager.
;   Also added PQL parameters for enqueue quota.
;
V02-026 KTA0002      Kerbey T. Altmann     14-Jan-1981
;   Change system date to 1981.
;
V02-025 RIH0003      Richard I. Hustvedt   3-Dec-1980
;   Raise maximum allowable numebr of processes to 8192.
;   Change SGN$GW_MAXGPGCT to a longword, SGN$GL_MAXGPGCT.

```

```

;
; V02-024 SPF0001 Steve Forgey 02-Oct-1980
; Added large request packet (LRP) parameters, LRPCNT
; and LRPSIZE.
;
; V02-023 SRB0004 Steve Beckhardt 4-Sep-1980
; Removed DYNAMIC qualifier from DUMPCBUG
;
;--
.PAGE
.SBTTL DECLARATIONS
;
; INCLUDE FILES:
;
$PQLDEF ; DEFINE QUOTA LIST CODES
$PRMDEF ; DEFINE PARAMETER DESCRIPTOR
$TTDEF ; DEFINE TERMINAL CHARACTERISTICS
$TT2DEF ; DEFINE MORE TERMINAL DEFINITIONS
;
; MACRO TO GENERATE PARAMETER DESCRIPTOR IF PRMSW IS TRUE OTHERWISE
; SIMPLY DEFINE PARAMETERS
;
;
; MACROS:
;
.MACRO PFNALC SIZ,SYMLST
.IRP SYM,<SYMLST>
DEFINE PFN$A'SIZ'_'SYM
.ENDR
.ALIGN LONG
.LONG 0
.ENDM PFNALC

.MACRO PARAMETER,ADDRESS,NAME,TYPE=STATIC,DEFAULT=0,MIN=-1,MAX=-1,-
UNIT,SIZE=LONG,BIT ;
.PRMSAV...=. ; DO IF CREATING PARAMETER DESCRIPTOR
.PSECT $$$918,LONG ; SAVE LOC COUNTER
BAS...=. ; SET BASE FOR THIS DESCRIPTOR
.BLKB PRMSC_LENGTH ; GENERATE SPACE
SAV...=. ;
PRM L_ADDR ;
.LONG ADDRESS ;
PRM L_DEFAULT ;
.LONG DEFAULT ;
PRM L_MIN ;
.LONG MIN ;
PRM L_MAX ;
.LONG MAX ;
.IF GREATER <%LENGTH(NAME)-PRMSC_MAXNAMLEN>
.ERROR ; The parameter called NAME has too many characters
.ENDC
PRM T_NAME ;
.ASCIC %'NAME'% ;
.IF GREATER <%LENGTH(UNIT)-PRMSC_MAXUNILEN>
.ERROR ; The quantity called UNIT has too many characters
.ENDC
PRM T_UNIT ;
.ASCIC %'UNIT'% ;

```

```

PRM      B_SIZE                                ; SET FIELD SIZE
.IF      B,BIT                                ;
.BYTE    PRM$C_'SIZE                          ;
.IFF                                           ;
.BYTE    1                                    ;
PRM      B_POS                                ;
.BYTE    BIT                                  ;
.ENDC                                         ;
PRM      L_FLAGS                              ;
TYP...=0                                     ;
.IRP     TYPNAM,<TYPE>                         ;
TYP...=TYP...!PRM$M_'TYPNAM                 ;

.IF NB BIT                                    ; DEFINE PRM$M_DYNFLAGS
.IF EQ PRM$M_'TYPNAM-PRM$M_DYNAMIC
.IF IDN ADDRESS,EXESGL_DEFFLAGS
PRM$M_DYNFLAGS == PRM$M_DYNFLAGS!<1@BIT>
.ENDC
.ENDC
.ENDC

.ENDR                                         ;
.LONG    TYP...                               ;
.=SAV...                                     ; REPOSITION LOCATION COUNTER
.PSECT   $$$917A,PAGE                        ; BACK TO NORMAL PSECT
.=PRMSAV...                                 ; RESTORE LOCATION COUNTER
.IFF                                           ;
.IF      B,BIT                                ;
.ALIGN   'SIZE'                              ;
ADDRESS'::                                  ; DEFINE GLOBAL VALUE
.ENDC                                         ;
.ENDC                                         ;
.IF      B,BIT                                ;
.ALIGN   'SIZE'                              ;
.'SIZE'  DEFAULT                             ; GENERATE DEFAULT VALUE
.ENDC                                         ;
.ENDM    PARAMETER                           ;

.MACRO   PRM,OFFSET                          ;
.=BAS...+PRM$'OFFSET                        ;
.ENDM    PRM                                 ;

;
; MACRO TO CONDITIONALLY DEFINE LABELS
;
.MACRO   DEFINE,LABEL                        ;
.IF      NDF,PRMSW                          ;
LABEL'::                                  ;
.IFF                                           ;
;
.ENDC                                         ;
.ENDM    DEFINE                              ;
;
; MACRO TO GENERATE PROCESS QUOTA LIST TABLES
;
;
PQL      QUOTA_NAME,DEFAULT,MIN,FLAG,UNIT,DYNAMIC_STATE

.MACRO   PQL Q,DEFLT=0,MINIM=0,FLAG=0,UNT,DYNAMIC_FLAG=DYNAMIC
.IF      NDF,PRMSW                          ;
.PSECT   $$$917,PAGE                        ;
.IFF                                           ;

```

```

.PSECT $$$917A,PAGE ;
.ENDC ;
PQLSAV...=. ; SAVE LOCATION COUNTER
.=PQL$AL_DEFAULT+<4*PQL$_'Q> ; POINT INTO DEFAULT TABLE
PARAMETER ADDRESS=PQL$GD'Q,- ;
          DEFAULT=DEFLT,- ;
          NAME=PQL_D'Q,- ;
          SIZE=LONG,- ;
          TYPE=<PQL,SYSGEN,DYNAMIC_FLAG>,- ;
          UNIT=UNT ;

.IF NDF,PRMSW ;
.PSECT $$$917,PAGE ;
.IFF ;
.PSECT $$$917A,PAGE ;
.ENDC ;

PQLSAV...=. ; POINT INTO MINIMUM VALUE TABLE
.=PQL$AL_MIN+<4*PQL$_'Q> ;
PARAMETER ADDRESS=PQL$GM'Q,- ;
          DEFAULT=MINIM,- ;
          NAME=PQL_M'Q,- ;
          SIZE=LONG,- ;
          TYPE=<PQL,SYSGEN,DYNAMIC_FLAG>,- ;
          UNIT=UNT ;

.IF NDF,PRMSW ;
.PSECT $$$917,PAGE ;
.IFF ;
.PSECT $$$917A,PAGE ;
.ENDC ;

PQLSAV...=. ; POINT INTO FLAG BYTE FOR QUOTA
.=PQL$AB_FLAG+PQL$_'Q ; AND FILL IN FLAG
.BYTE FLAG ; RESTORE LOCATION COUNTER
.=PQLSAV... ;
.ENDM PQL ;

;
; EQUATED SYMBOLS:
;
PQL_V_DEDUCT=0 ; DEDUCTIBLE QUOTA FLAG

PQL_M_DEDUCT=1 ; FLAG VALUE FOR DEDUCTIBLE QUOTA
DEDUCTIBLE=PQL_M_DEDUCT ; NAME FOR READIBILITY

.IF DF,PRMSW ; DO IF PARAMETER
PRM$M_DYNFLAGS == 0
.ENDC

;
; DEFINE THE CONTROL BITS IN EXE$GL_FLAGS
;
$GBLINI GLOBAL
SVIELD EXE,0,<-
        SYSWRTABL,- ; LEAVE SYSTEM READ ONLY CODE WRITABLE
        NOAUTOCNF,- ; NO AUTOMATIC CONFIGURATION OF UBA
        SYSPAGING,- ; ENABLE SYSTEM PAGING
        POOLPGING,- ; ENABLE DYNAMIC POOL PAGING
        SIMULATOR,- ; RUNNING ON SIMULATOR
        NOCLOCK,- ; DO NOT TURN ON CLOCK
        CRDENABL,- ; ENABLE CRD ERROR DETECTION
        SBIERR,- ; ENABLE SBI ERROR INTERRUPT
        INIT,- ; RMS AND FILE SYSTEM INITIALIZED
        SETTIME,- ; FORCE SOLICITATION OF TIME

```

```

        FATAL_BUG,-          ; FORCE ALL BUG CHECKS FATAL
        MULTACP,-           ; USE MULTIPLE FILE ACP'S
        NOCLUSTER,-        ; TURN OFF PAGE FAULT CLUSTERING
        BUGREBOOT,-        ; AUTO REBOOT ON BUGCHECK
        SYSUAFALT,-        ; ALTERNATE LOGICAL NAME FOR SYSUAF
        SHRF11ACP,-        ; MAKE F11ACP SHARABLE AT BOOT TIME
        BUGDUMP,-          ; TAKE SYSTEM DUMP ON BUGCHECK
        RESALLOC,-         ; ENABLE RESOURCE ALLOCATION CHECKS
        CONCEALED,-        ; ENABLE USE OF CONCEALED DEVICES
        SSINHIBIT,-        ; INHIBIT SYSTEM SERVICES PER-PROCESS
        EXPLICITP,-        ; IF SET TODAY IS CONSIDERED PRIMARY
        EXPLICITS,-        ; IF SET TODAY IS CONSIDERED SECONDARY
        PGFLFRAG,-         ; SET IF PAGE FILE FRAGMENTED MSG ISSUED
        PGFLCRIT,-         ; SET IF PAGE FILE FULL MSG ISSUED
        TBCHK,-            ; SET IF PROCESSOR REGISTER TBCHK PRESENT
        PAGFILDMP,-        ; SET IF DUMP IS IN PAGE FILE
        SAVEDUMP,-         ; SET TO SAVE DUMP UNTIL ANALYZED
        JOBQUEUES,-        ; Set if JOBCTL to enable queues
        REINITQUE,-        ; Set if JOBCTL to reinitialize JBCSYSQUI
    >
;
; OWN STORAGE:
;
        .IF      NDF,PRMSW          ;
        .PSECT   $$$917,PAGE        ; PAGE ALIGNED
        .IFF
        .PSECT   $$$917A,PAGE
        .ENDC
        DEFINE   EXE$A_SYSPARAM    ; SYSTEM PARAMETER BASE
        .IF      DF,PRMSW          ;
BOO$A_SYSPARAM::
        .PSECT   $$$918, LONG      ; BASE OF DEFAULTS
BOO$A_PRMBLK::
        .ENDC
        .IF      NDF,PRMSW          ;
        .PSECT   $$$917,PAGE        ;
        .IFF
        .PSECT   $$$917A,PAGE
        .ENDC

        .PAGE
        .SBTTL   SYSTEM TIME VARIABLES
;
;           SYSTEM TIME VARIABLES
;
        DEFINE   EXE$GQ_TODCBASE   ; TIME OF DAY CLOCK BASE (BOOT TIME)
        .QUAD    ^X008A099474798000 ; 01-JAN-1982 00:00:00.00
;
        DEFINE   EXE$GL_TODR       ; TIME OF DAY REGISTER VALUE CORRESPONDING
        .LONG    1@28              ; TO EXE$GQ_TODCBASE; IT'S NOT ZERO
; BECAUSE ANYTHING LESS THAN 1@28
; IS USED TO INDICATE CLOCK LOST POWER

        .PAGE
        .SBTTL   SYSGEN PARAMETERS
;
; SYSGEN PARAMETERS
;
;
;
;
; DEFAULT PAGE FAULT CLUSTER SIZE - SPECIFIES THE MAXIMUM NUMBER OF

```

;
; PAGES WHICH WILL BE READ FROM SECTIONS NOT SPECIFYING A CLUSTER FACTOR.
; THIS ALSO APPLIES TO PAGE FILE PAGES.
;

PARAMETER ADDRESS=SGN\$GW_DFPFC,- ;
DEFAULT=32,- ;
MIN=0,- ;
MAX=127,- ;
NAME=PFCDEFAULT,- ;
SIZE=WORD,- ;
TYPE=<DYNAMIC,SYS,MAJOR>,- ;
UNIT=Pages

;
; DEFAULT PAGE TABLE PAGE FAULT CLUSTER SIZE - SPECIFIES THE MAXIMUM NUMBER OF
; OF PAGE TABLES TO ATTEMPT TO READ TO SATISFY A FAULT FOR A NON-RESIDENT
; PAGE TABLE.
;

PARAMETER ADDRESS=SGN\$GB_PGTBPFC,- ;
DEFAULT=2,- ;
MIN=0,- ;
MAX=127,- ;
NAME=PAGTBLPFC,- ;
SIZE=BYTE,- ;
TYPE=<DYNAMIC,SPECIAL>,- ;
UNIT=Pages

;
; PAGE FAULT CLUSTER FOR SYSTEM PAGING
;

PARAMETER ADDRESS=SGN\$GB_SYSPFC,- ;
DEFAULT=1,- ;
MIN=0,- ;
MAX=127,- ;
NAME=SYSPFC,- ;
SIZE=BYTE,- ;
TYPE=<SPECIAL>,- ;
UNIT=Pages

;
; NUMBER OF KNOWN FILE LISTS - ESTABLISHES THE MAXIMUM NUMBER OF KNOWN
; FILE LISTS THAT CAN BE MADE KNOWN TO THE SYSTEM.
;

PARAMETER ADDRESS=SGN\$GB_KFILSTCT,- ;
DEFAULT=4,- ;
MIN=2,- ;
MAX=255,- ;
NAME=KFILSTCNT,- ;
SIZE=BYTE,- ;
TYPE=<SYSGEN,SYS>,- ;
UNIT=Slots

.ALIGN WORD ;

;
; GLOBAL SECTION COUNT - DETERMINES THE MAXIMUM NUMBER OF GLOBAL SECTIONS
; WHICH CAN BE MADE KNOWN TO THE SYSTEM BY ALLOCATING THE NECESSARY
; STORAGE FOR THE GST ENTRIES.
;

PARAMETER ADDRESS=SGN\$GW_GBLSECNT,- ;
DEFAULT=80,- ;
MIN=20,- ;
NAME=GBLSECTIONS,- ;
SIZE=WORD,- ;
TYPE=<SYSGEN,SYS,MAJOR>,- ;
UNIT=Sections

```
;  
; GLOBAL PAGE COUNT - ESTABLISHES THE SIZE OF THE GLOBAL PAGE TABLE AND THE  
; LIMIT FOR THE TOTAL NUMBER OF GLOBAL PAGES THAT CAN BE CREATED.  
;
```

```
PARAMETER      ADDRESS=SGN$GL_MAXGPGCT,-      ;  
                DEFAULT=3072,-              ;  
                MIN=512,-                    ;  
                NAME=GBLPAGES,-              ;  
                SIZE=LONG,-                  ;  
                TYPE=<SYSGEN,SYS,MAJOR>,-    ;  
                UNIT=Pages                   ;
```

```
;  
; GLOBAL PAGE PAGE FILE PAGE LIMIT - ESTABLISHES THE MAXIMUM NUMBER OF GLOBAL  
; PAGES WITH PAGE FILE BACKING STORE THAT CAN BE CREATED.  
;
```

```
PARAMETER      ADDRESS=SGN$GL_GBLPAGFIL,-    ;  
                DEFAULT=1024,-              ;  
                MIN=128,-                    ;  
                NAME=GBLPAGFIL,-            ;  
                SIZE=LONG,-                  ;  
                TYPE=<SYS>,-                 ;  
                UNIT=Pages                   ;
```

```
;  
; MAXIMUM PROCESS COUNT - DETERMINES THE MAXIMUM NUMBER OF PROCESSES  
;
```

```
PARAMETER      ADDRESS=SGN$GW_MAXPRCCT,-    ;  
                DEFAULT=72,-                ;  
                MIN=12,-                    ;  
                MAX=8192,-                  ;  
                NAME=MAXPROCESSCNT,-        ;  
                SIZE=WORD,-                 ;  
                TYPE=<SYSGEN,SYS,MAJOR>,-    ;  
                UNIT=Processes               ;
```

```
;  
; PROCESS SCAN COUNT - DETERMINES THE MAXIMUM NUMBER OF PROCESSES TO SCAN  
; FOR PRIORITY BOOSTING.  
;
```

```
PARAMETER      ADDRESS=SGN$GW_PIXSCAN,-     ;  
                DEFAULT=1,-                 ;  
                MIN=0,-                     ;  
                MAX=8192,-                  ;  
                NAME=PIXSCAN,-              ;  
                SIZE=WORD,-                 ;  
                TYPE=<SPECIAL,DYNAMIC>,-    ;  
                UNIT=Processes              ;
```

```
;  
; PROCESS SECTION COUNT - GUARANTEED NUMBER OF PROCESS SECTIONS THAT CAN  
; BE CREATED. DEPENDING ON SIZE OF WORKING SET, THE ACTUAL NUMBER  
; OF SECTIONS CAN ACTUALLY BE GREATER.  
;
```

```
PARAMETER      ADDRESS=SGN$GW_MAXPSTCT,-    ;  
                DEFAULT=32,-                ;  
                MIN=5,-                      ;  
                MAX=1024,-                  ;  
                NAME=PROCSECTCNT,-          ;  
                SIZE=WORD,-                 ;  
                TYPE=<SYSGEN,SYS>,-         ;
```


UNIT=Sections

;
; MINIMUM WORKING SET SIZE - ESTABLISHES THE SMALLEST SIZE THAT ADJWSL WILL
; SET A PROCESS' WORKING SET.
;

PARAMETER ADDRESS=SGN\$GW_MINWSCNT,- ;
DEFAULT=20,- ;
MIN=10,- ;
NAME=MINWSCNT,- ;
SIZE=WORD,- ;
TYPE=<STATIC,SYSGEN,SYS>,- ;
UNIT=Pages

;
; NUMBER OF PAGING FILES - DETERMINES THE MAXIMUM NUMBER OF PAGING FILES
; THAT CAN BE MADE KNOWN TO THE SYSTEM.
;

PARAMETER ADDRESS=SGN\$GW_PAGFILCT,- ;
DEFAULT=2,- ;
MIN=1,- ;
MAX=63,- ;
NAME=PAGFILCNT,- ;
SIZE=WORD,- ;
TYPE=<SYS,SYSGEN>,- ;
UNIT=Files

;
; NUMBER OF SWAP FILES - ESTABLISHES THE MAXIMUM NUMBER OF SWAPFILES THAT
; CAN BE MADE KNOWN TO THE SYSTEM.
;

PARAMETER ADDRESS=SGN\$GW_SWPFILES,- ;
DEFAULT=2,- ;
MIN=0,- ;
MAX=63,- ;
NAME=SWPFILCNT,- ;
SIZE=WORD,- ;
TYPE=<SYS,SYSGEN>,- ;
UNIT=Files

;
; SYSTEM WORKING SET COUNT - ESTABLISHES THE NUMBER OF PAGES FOR THE WORKING
; SET CONTAINING THE CURRENTLY RESIDENT PAGES OF PAGABLE SYSTEM SPACE.
;

PARAMETER ADDRESS=SGN\$GW_SYSDWSCT,- ;
DEFAULT=160,- ;
MIN=20,- ;
MAX=16384,- ;
NAME=SYSMWCNT,- ;
SIZE=WORD,- ;
TYPE=<SYSGEN,SYS,MAJOR>,- ;
UNIT=Pages

;
; INTERRUPT STACK SIZE - ESTABLISHES THE SIZE OF THE INTERRUPT STACK IN PAGES
;

PARAMETER ADDRESS=SGN\$GW_ISPPGCT,- ;
DEFAULT=2,- ;

```

        MIN=1,- ;
        NAME=INTSTKPAGE,- ;
        SIZE=WORD,- ;
        TYPE=<SYS,SYSGEN>,- ;
        UNIT=Pages ;
;
; AMOUNT OF EXTRA INTERRUPT STACK TO LEAVE WHEN DOING DEADLOCK SEARCH
;
    PARAMETER      ADDRESS=LCK$GL_EXTRASTK,- ;
                   DEFAULT=512,- ;
                   MIN=256,- ;
                   NAME=DLCKEXTRASTK,- ;
                   SIZE=LONG,- ;
                   TYPE=<SPECIAL>,- ;
                   UNIT=Bytes ;
;
; BALANCE SET COUNT - DETERMINES THE MAXIMUM NUMBER OF PROCESS THAT CAN BE
; BE CONCURRENTLY RESIDENT.
;
    PARAMETER      ADDRESS=SGN$GL_BALSETCT,- ;
                   DEFAULT=36,- ;
                   MIN=4,- ;
                   MAX=1024,- ;
                   NAME=BALSETCNT,- ;
                   SIZE=LONG,- ;
                   TYPE=<SYSGEN,SYS,MAJOR>,- ;
                   UNIT=Slots ;
;
; COUNT OF PRE-ALLOCATED I/O PACKETS - DETERMINES THE NUMBER OF I/O PACKETS
; TO BE PRE-ALLOCATED AND LINKED TOGETHER FOR FAST ALLOCATION AND
; DEALLOCATION.
;
    PARAMETER      ADDRESS=SGN$GL_IRPCNT,- ;
                   DEFAULT=60,- ;
                   MIN=0,- ;
                   MAX=32768,- ;
                   NAME=IRPCOUNT,- ;
                   SIZE=LONG,- ;
                   TYPE=<SYSGEN,MAJOR,SYS>,- ;
                   UNIT=Packets ;
;
; NUMBER OF PACKETS TO WHICH THE IRPLIST MAY BE EXTENDED.
;
    PARAMETER      ADDRESS=SGN$GL_IRPCNTV,- ;
                   DEFAULT=1000,- ;
                   MIN=0,- ;
                   MAX=32768,- ;
                   NAME=IRPCOUNTV,- ;
                   SIZE=LONG,- ;
                   TYPE=<SYSGEN,SYS>,- ;
                   UNIT=Packets ;
;
; MAXIMUM SIZE OF PROCESS WORKING SET. DETERMINES THE SYSTEM WIDE MAXIMUM
; SIZE OF A PROCESS WORKING SET REGARDLESS OF PROCESS QUOTA.
;
    PARAMETER      ADDRESS=SGN$GL_MAXWSCNT,- ;
                   DEFAULT=1024,- ;
                   MIN=60,- ;
                   MAX=16384,- ;
                   NAME=WSMAX,- ;

```

```
SIZE=LONG,- ;
TYPE=<SYSGEN,SYS,MAJOR>,- ;
UNIT=Pages
```

```
;  
; NON-PAGED DYNAMIC POOL - DETERMINES THE NUMBER OF BYTES TO ALLOCATE FOR  
; THE NON-PAGED DYNAMIC POOL.  
;
```

```
PARAMETER ADDRESS=SGN$GL_NPAGEDYN,- ;  
DEFAULT=64000,- ;  
MIN=16384,- ;  
NAME=NPAGEDYN,- ;  
SIZE=LONG,- ;  
TYPE=<SYSGEN,SYS,MAJOR>,- ;  
UNIT=Bytes
```

```
;  
; NON-PAGED DYNAMIC POOL - DETERMINES THE NUMBER OF BYTES TO WHICH  
; THE NON-PAGED DYNAMIC POOL MAY BE EXTENDED. THIS PARAMETER  
; IS USED TO ALLOCATE THE NECESSARY PAGE TABLE ENTRIES.  
;
```

```
PARAMETER ADDRESS=SGN$GL_NPAGEVIR,- ;  
DEFAULT=400000,- ;  
MIN=16384,- ;  
NAME=NPAGEVIR,- ;  
SIZE=LONG,- ;  
TYPE=<SYSGEN,SYS>,- ;  
UNIT=Bytes
```

```
;  
; PAGED DYNAMIC POOL - DETERMINES THE NUMBER OF BYTES TO ALLOCATE FOR THE  
; PAGED DYNAMIC POOL.  
;
```

```
PARAMETER ADDRESS=SGN$GL_PAGEDYN,- ;  
DEFAULT=80000,- ;  
MIN=8192,- ;  
NAME=PAGEDYN,- ;  
SIZE=LONG,- ;  
TYPE=<SYSGEN,SYS,MAJOR>,- ;  
UNIT=Bytes
```

```
;  
; MAXIMUM VIRTUAL PAGE COUNT - DETERMINES THE TOTAL NUMBER OF PAGES THAT  
; CAN BE MAPPED FOR A PROCESS, WHICH CAN BE DIVIDED IN ANY FASHION  
; BETWEEN P0 AND P1 SPACE.  
;
```

```
PARAMETER ADDRESS=SGN$GL_MAXVPGCT,- ;  
DEFAULT=8192,- ;  
MIN=512,- ;  
MAX=262144,- ; 128 MEGABYTES  
NAME=VIRTUALPAGECNT,- ;  
SIZE=LONG,- ;  
TYPE=<SYSGEN,SYS,MAJOR>,- ;  
UNIT=Pages
```

```
;  
; REQUESTED SPT EXTENSION - NUMBER OF ADDITIONAL SPT SLOT TO ALLOW  
;
```

```
PARAMETER ADDRESS=SGN$GL_SPTREQ,- ;  
DEFAULT=720,- ;  
NAME=SPTREQ,- ;  
SIZE=LONG,- ;  
TYPE=<SYS,SYSGEN>,- ;
```

```

UNIT=Pages
;
; EXTRA USER STACK AUTOMATICALLY PROVIDED BY THE IMAGE ACTIVATOR
; SO THAT THE OPERATING SYSTEM CAN RECOVER FROM A STACK OVERFLOW.
;
PARAMETER ADDRESS=SGN$GL_EXUSRSTK,- ;
          DEFAULT=<2*512>,- ;
          MIN=<2*512>,- ;
          NAME=EXUSRSTK,- ;
          SIZE=LONG,- ;
          TYPE=<SPECIAL>,- ;
          UNIT=<Pages*512> ;
;
; NUMBER OF LARGE REQUEST PACKETS TO ALLOCATE TO THE LRP LOOK ASIDE LIST
;
PARAMETER ADDRESS=SGN$GL_LRPCNT,- ;
          DEFAULT=4,- ;
          MIN=0,- ;
          MAX=4096,- ;
          NAME=LRPCOUNT,- ;
          SIZE=LONG,- ;
          TYPE=<SYS,SYSGEN,MAJOR>,- ;
          UNIT=<Packets> ;
;
; NUMBER OF LARGE REQUEST PACKETS TO WHICH THE LRP LOOK ASIDE LIST
; MAY BE EXTENDED. USED TO ALLOCATE THE APPROPRIATE VIRTUAL SPACE.
;
PARAMETER ADDRESS=SGN$GL_LRPCNTV,-;
          DEFAULT=80,- ;
          MIN=0,- ;
          MAX=4096,- ;
          NAME=LRPCOUNTV,- ;
          SIZE=LONG,- ;
          TYPE=<SYS,SYSGEN>,- ;
          UNIT=<Packets> ;
;
; SIZE OF LARGE REQUEST PACKETS (BYTES)
;
PARAMETER ADDRESS=SGN$GL_LRPSIZE,-;
          DEFAULT=576,- ;
          MIN=256,- ;
          MAX=16384,- ;
          NAME=LRPSIZE,- ;
          SIZE=LONG,- ;
          TYPE=<SYS,SYSGEN>,- ;
          UNIT=<Bytes> ;
;
; MINIMUM ALLOCATION REQUEST FOR LARGE REQUEST PACKETS (BYTES)
;
PARAMETER ADDRESS=SGN$GL_LRPMIN,-;
          DEFAULT=480,- ;
          MIN=256,- ;
          MAX=16384,- ;
          NAME=LRPMIN,- ;
          SIZE=LONG,- ;
          TYPE=<SPECIAL>,- ;
          UNIT=<Bytes> ;
;
; NUMBER OF SMALL REQUEST PACKETS TO ALLOCATE TO THE SRP LOOK ASIDE LIST
;
PARAMETER ADDRESS=SGN$GL_SRPCNT,-;

```

```
        DEFAULT=120,-          ;
        MIN=0,-                ;
        MAX=4096,-             ;
        NAME=SRPCOUNT,-        ;
        SIZE=LONG,-            ;
        TYPE=<SYS,SYSGEN,MAJOR>,-      ;
        UNIT=<Packets>         ;
```

```
;
; NUMBER OF SMALL REQUEST PACKETS TO WHICH THE SRP LOOK ASIDE LIST
; MAY BE EXTENDED. USED TO ALLOCATE THE APPROPRIATE VIRTUAL SPACE.
;
```

```
PARAMETER      ADDRESS=SGN$GL_SRPCNTV,-;
                DEFAULT=1000,-          ;
                MIN=0,-                 ;
                MAX=131072,-            ;
                NAME=SRPCOUNTV,-        ;
                SIZE=LONG,-             ;
                TYPE=<SYS,SYSGEN>,-      ;
                UNIT=<Packets>          ;
```

```
;
; SIZE OF SMALL REQUEST PACKETS (BYTES)
;
```

```
PARAMETER      ADDRESS=SGN$GL_SRPSIZE,-;
                DEFAULT=96,-            ;
                MIN=96,-                 ;
                MAX=144,-                ;
                NAME=SRPSIZE,-           ;
                SIZE=LONG,-              ;
                TYPE=<SPECIAL>,-         ;
                UNIT=<Bytes>             ;
```

```
;
; MINIMUM ALLOCATION REQUEST FOR SMALL REQUEST PACKETS (BYTES)
;
```

```
PARAMETER      ADDRESS=SGN$GL_SRPMIN,-;
                DEFAULT=32,-            ;
                MIN=0,-                  ;
                MAX=144,-                ;
                NAME=SRPMIN,-            ;
                SIZE=LONG,-              ;
                TYPE=<SPECIAL>,-         ;
                UNIT=<Bytes>             ;
```

```
;
; PERMANENT I/O CHANNEL COUNT - SPECIFES THE NUMBER OF PERMANENT I/O
; CHANNELS TO PROVIDE.
;
```

```
PARAMETER      ADDRESS=SGN$GW_PCHANCNT,-      ;
                DEFAULT=127,-                 ;
                MIN=31,-                       ;
                MAX=2047,-                     ;
                NAME=CHANNELCNT,-              ;
                SIZE=WORD,-                    ;
                TYPE=<SPECIAL>,-               ;
                UNIT=Channels                  ;
```

```
;
; DEFAULT NUMBER OF PAGES OF IMAGE I/O ADDRESS SPACE USED BY
; THE IMAGE ACTIVATOR IF NOT SPECIFIED AT PROGRAM LINK TIME.
;
```

```
PARAMETER      ADDRESS=SGN$GW_IMGIOCNT,-      ;
                DEFAULT=32,-                 ;
                MIN=32,-                       ;
                NAME=IMGIOCNT,-               ;
```

```

                SIZE=WORD,-
                TYPE=<DYNAMIC,SPECIAL>,-
                UNIT=Pages
.PAGE
.SBTTL CONTROL PARAMETERS

.ALIGN WORD

;
;
;
GENERAL SYSTEM CONTROL PARAMETERS

PARAMETER ADDRESS=Sch$GW_QUAN,- ; PROCESS QUANTUM
           DEFAULT=-20,- ; NEGATED
           MIN=2,- ;
           MAX=32767,- ;
           NAME=QUANTUM,- ;
           SIZE=WORD,- ;
           TYPE=<DYNAMIC,SYS,NEG,MAJOR>,- ;
           UNIT=10ms ;

;
;
;
MODIFIED PAGE WRITER CONTROL PARAMETERS

DEFINE MPWSAW_INITVAL

;
;
;
PAGE WRITE CLUSTER FACTOR - SPECIFIES THE NUMBER OF PAGES TO ATTEMPT
TO WRITE AS A SINGLE I/O TRANSFER TO CONTIGUOUS DISK.

PARAMETER ADDRESS=MPWSGW_MPWPFC,- ;
           DEFAULT=96,- ;
           MIN=16,- ;
           MAX=120,- ;
           NAME=MPW_WRTCLUSTER,- ;
           SIZE=WORD,- ;
           TYPE=<SYSGEN,SYS>,- ;
           UNIT=Pages

;
;
;
MODIFIED PAGE LIST HIGH LIMIT - THRESHOLD AT WHICH TO BEGIN WRITING
MODIFIED PAGES.

PARAMETER ADDRESS=MPWSGW_HILIM,- ;
           DEFAULT=500,- ;
           MIN=0,- ;
           MAX=16384,- ;
           NAME=MPW_HILIMIT,- ;
           SIZE=WORD,- ;
           TYPE=<SYSGEN,SYS>,- ;
           UNIT=Pages

;
;
;
MODIFIED PAGE LIST LOW LIMIT - THRESHOLD AT WHICH MODIFIED PAGE WRITING
WILL NORMALLY STOP. WRITING STARTED AT THE HIGH LIMIT AND PAGES
ARE WRITTEN IN CHUNKS CONTROLLED BY THE CLUSTER FACTOR. WHEN THE
LENGTH OF THE MODIFIED PAGE LIST HAS BEEN REDUCED BELOW THE LOW LIMIT,
WRITING CEASES UNTIL ENOUGH PAGES HAVE BEEN ADDED TO EXCEED THE
HIGH LIMIT.

PARAMETER ADDRESS=MPWSGW_LOLIM,- ;
           DEFAULT=32,- ;
           MIN=0,- ;
           MAX=16384,- ;
           NAME=MPW_LOLIMIT,- ;
           SIZE=WORD,- ;

```

```
TYPE=<SYSGEN, SYS>,- ;
UNIT=Pages
```

```
;  
; MODIFIED PAGE WRITER I/O PRIORITY. THIS PARAMETER SETS THE PRIORITY OF  
; I/O TRANSFERS INITIATED BY THE MODIFIED PAGE WRITER.  
;
```

```
PARAMETER ADDRESS=MPW$GB_PRIO,- ;  
DEFAULT=4,- ;  
MIN=0,- ;  
MAX=31,- ;  
NAME=MPW_PRIO,- ;  
SIZE=BYTE,- ;  
TYPE=<SPECIAL, DYNAMIC> ;
```

```
;  
; SWAPPER I/O PRIORITY. THIS PARAMETER SETS THE PRIORITY OF  
; I/O TRANSFERS INITIATED BY THE SWAPPER.  
;
```

```
PARAMETER ADDRESS=SWP$GB_PRIO,- ;  
DEFAULT=4,- ;  
MIN=0,- ;  
MAX=31,- ;  
NAME=SWP_PRIO,- ;  
SIZE=BYTE,- ;  
TYPE=<SPECIAL, DYNAMIC> ;
```

```
;  
; MODIFIED PAGE WRITER LOWER LIMIT THRESHOLD STOPPING USE OF MODIFIED PAGE  
; WRITER FROM BEING USED AS PRIMARY MECHANISM TO RECOVER MEMORY.  
;
```

```
PARAMETER ADDRESS=MPW$GL_THRESH,- ;  
DEFAULT=200,- ;  
MIN=0,- ;  
MAX=16384,- ;  
NAME=MPW_THRESH,- ;  
SIZE=LONG,- ;  
TYPE=<SYS, DYNAMIC> ;
```

```
;  
; MODIFIED PAGE WRITER BUSY WAIT LIMIT. THIS IS USED AS A THRESHOLD OF  
; WHEN TO PUT A PROCESS INTO RESOURCE WAIT IF IT IS GENERATING A MODIFIED  
; PAGE AND THE SIZE OF THE MODIFIED LIST IS GREATER THAN THIS PARAMETER.  
;
```

```
PARAMETER ADDRESS=MPW$GL_WAITLIM,- ;  
DEFAULT=500,- ;  
MIN=0,- ;  
MAX=16384,- ;  
NAME=MPW_WAITLIMIT,- ;  
SIZE=LONG,- ;  
TYPE=<SYS, DYNAMIC> ;
```

```
;  
; MAXIMUM NUMBER OF WORKING SET LIST ENTRIES THAT MAY BE SKIPPED WHILE  
; SCANNING FOR A "GOOD" ENTRY TO DISCARD. SET TO 0 TO DISABLE SKIPPING.  
;
```

```
PARAMETER ADDRESS=SGN$GW_WSLMXSKP,- ;  
DEFAULT=8,- ;  
MIN=0,- ;  
MAX=512,- ;  
NAME=TBSKIPWSL,- ;  
SIZE=WORD,- ;  
TYPE=<DYNAMIC, SPECIAL>,- ;  
UNIT=Pages
```

; Maximum number of physical pages to be used - permits testing of smaller
; memory configurations without actually removing memory boards.

```
PARAMETER      ADDRESS=MMG$GL_PHYPGCNT,-      ;  
                DEFAULT=16384,-      ;  
                MIN=256,-      ;  
                MAX=16384,-      ;  
                NAME=PHYSICALPAGES,-      ;  
                SIZE=LONG,-      ;  
                TYPE=<SPECIAL>,-      ;  
                UNIT=Pages
```

; Page fault rate lower threshold. This parameter sets the lower page fault rate
; threshold for automatic working set size adjustment.

```
PARAMETER      ADDRESS=SCH$GL_PFRATL,-      ;  
                DEFAULT=1,-      ;  
                MIN=0,-      ;  
                NAME=PFRATL,-      ;  
                SIZE=LONG,-      ;  
                TYPE=<SYS,DYNAMIC,MAJOR>,-      ;  
                UNIT=Flts/10Sec
```

; Page fault rate high threshold. This parameter sets the upper page fault
; rate threshold for automatic working set adjustment.

```
PARAMETER      ADDRESS=SCH$GL_PFRATH,-      ;  
                DEFAULT=120,-      ;  
                MIN=0,-      ;  
                NAME=PFRATH,-      ;  
                SIZE=LONG,-      ;  
                TYPE=<SYS,DYNAMIC,MAJOR>,-      ;  
                UNIT=Flts/10Sec
```

; Page fault rate system threshold. This parameter sets the target system page
; fault threshold.

```
PARAMETER      ADDRESS=SCH$GL_PFRATS,-      ;  
                DEFAULT=0,-      ;  
                MIN=0,-      ;  
                NAME=PFRATS,-      ;  
                SIZE=LONG,-      ;  
                TYPE=<SPECIAL,DYNAMIC>,-      ;  
                UNIT=Flts/10Sec
```

; Working set increment. This parameter sets the number of pages to increase the
; working set size to compensate for a high page fault rate.

```
PARAMETER      ADDRESS=SCH$GL_WSINC,-      ;  
                DEFAULT=150,-      ;  
                MIN=0,-      ;  
                NAME=WSINC,-      ;  
                SIZE=LONG,-      ;  
                TYPE=<SYS,DYNAMIC,MAJOR>,-      ;  
                UNIT=Pages
```

; Working set decrement. This parameter sets the number of pages to decrease
; the working set to compensate for a page fault rate below the lower threshold.

```
PARAMETER      ADDRESS=SCH$GL_WSDEC,-      ;  
                DEFAULT=35,-      ;
```



```

        MIN=0,- ;
        NAME=WSDEC,- ;
        SIZE=LONG,- ;
        TYPE=<SYS,DYNAMIC,MAJOR>,- ;
        UNIT=Pages ;
;
; Working set minimum. Sets the minimum working set size to ever be set
; by the automatic adjustment logic.
;
        PARAMETER      ADDRESS=SCH$GW_AWSMIN,- ;
                        DEFAULT=50,- ;
                        MIN=0,- ;
                        NAME=AWSMIN,- ;
                        SIZE=WORD,- ;
                        TYPE=<SYS,DYNAMIC>,-;
                        UNIT=Pages ;
;
; Working set measurement interval. Sets the minimum interval of compute
; time for the measurement of page fault rate.
;
        PARAMETER      ADDRESS=SCH$GL_AWSTIME,- ;
                        DEFAULT=20,- ;
                        MIN=1,- ;
                        NAME=AWSTIME,- ;
                        SIZE=LONG,- ;
                        TYPE=<SYS,DYNAMIC>,-;
                        UNIT=10ms ;
;
; Swap rate control. This parameter sets the swapping rate and serves to limit
; the consumption of disk bandwidth by swapping.
;
        PARAMETER      ADDRESS=SCH$GL_SWPRATE,- ;
                        DEFAULT=500,- ;
                        MIN=0,- ;
                        NAME=SWPRATE,- ;
                        SIZE=LONG,- ;
                        TYPE=<SPECIAL,DYNAMIC>,- ;
                        UNIT=10ms/Swap ;
;
; Desired process page count for an outswap swap. This parameter sets the
; number of pages to attempt to reduce a working set to before starting the
; outswap.
;
        PARAMETER      ADDRESS=SWP$GL_SWPPGCNT,- ;
                        DEFAULT=60,- ;
                        MIN=0,- ;
                        NAME=SWPOUTPGCNT,- ;
                        SIZE=LONG,- ;
                        TYPE=<SYS,DYNAMIC>,- ;
                        UNIT=Pages ;
;
; Swap file allocation increment value. The size in blocks to use to backup
; swap file space allocation in the swap or page file. Space in the file will
; be allocated multiples of this unit up to wsquota to guarantee swap space.
;
        PARAMETER      ADDRESS=SWP$GW_SWPINC,- ;
                        DEFAULT=96,- ;
                        MIN=16,- ;
                        NAME=SWPALLOCINC,- ;
                        SIZE=WORD,- ;
                        TYPE=<SPECIAL>,- ;

```

```

UNIT=Blocks ;
;
; I/O time allowance. This parameter sets the number of 10 millisecond
; units to charge the current residence quantum for each voluntary wait.
; The correct value approximates the cost of a disk I/O neglecting wait time.
;
PARAMETER ADDRESS=SCH$GW_IOTA,- ;
          DEFAULT=2,- ;
          MIN=0,- ;
          MAX=32767,- ;
          NAME=IOTA,- ;
          SIZE=WORD,- ;
          TYPE=<SPECIAL,DYNAMIC>,- ;
          UNIT=10Ms ;
;
; Elapsed realtime to cause a HIB or LEF process look like it is in
; longwait. This parameter sets the number of 10 millisecond
; units that need to have elapsed. Longwait processes are the most
; eligible to attempt to recover pages from when a shortage is detected.
;
PARAMETER ADDRESS=SCH$GW_LONGWAIT,- ;
          DEFAULT=700,- ;
          MIN=40,- ;
          MAX=32767,- ;
          NAME=LONGWAIT,- ;
          SIZE=WORD,- ;
          TYPE=<SYS,DYNAMIC>,- ;
          UNIT=6.6Ms ;
;
; Swap fail count. This parameter sets the number of consecutive swap
; schedule failures to occur before the swap schedule algorithm changes
; to ignore the swap quantum protection.
;
PARAMETER ADDRESS=SCH$GW_SWPFAIL,- ;
          DEFAULT=20,- ;
          MIN=0,- ;
          MAX=32767,- ;
          NAME=SWPFAIL,- ;
          SIZE=WORD,- ;
          TYPE=<SPECIAL,DYNAMIC> ;
;
;
; These are reserved parameters for undefined use by either Digital
; or user written system services.
;
;
; This is the start of the Digital reserved parameters.
;
PARAMETER ADDRESS=SGN$GL_VMSD1,- ;
          DEFAULT=0,- ;
          MIN=0,- ;
          NAME=VMSD1,- ;
          SIZE=LONG,- ;
          TYPE=<SPECIAL,DYNAMIC> ;
;
PARAMETER ADDRESS=SGN$GL_VMSD2,- ;
          DEFAULT=0,- ;
          MIN=0,- ;
          NAME=VMSD2,- ;
          SIZE=LONG,- ;

```

```
TYPE=<SPECIAL,DYNAMIC> ;
;
PARAMETER ADDRESS=SGN$GL_VMSD3,- ;
          DEFAULT=0,- ;
          MIN=0,- ;
          NAME=VMSD3,- ;
          SIZE=LONG,- ;
          TYPE=<SPECIAL,DYNAMIC> ;
;
PARAMETER ADDRESS=SGN$GL_VMSD4,- ;
          DEFAULT=0,- ;
          MIN=0,- ;
          NAME=VMSD4,- ;
          SIZE=LONG,- ;
          TYPE=<SPECIAL,DYNAMIC> ;
;
PARAMETER ADDRESS=SGN$GL_VMS5,- ;
          DEFAULT=0,- ;
          MIN=0,- ;
          NAME=VMS5,- ;
          SIZE=LONG,- ;
          TYPE=<SPECIAL> ;
;
PARAMETER ADDRESS=SGN$GL_VMS6,- ;
          DEFAULT=0,- ;
          MIN=0,- ;
          NAME=VMS6,- ;
          SIZE=LONG,- ;
          TYPE=<SPECIAL> ;
;
PARAMETER ADDRESS=SGN$GL_VMS7,- ;
          DEFAULT=0,- ;
          MIN=0,- ;
          NAME=VMS7,- ;
          SIZE=LONG,- ;
          TYPE=<SPECIAL> ;
;
PARAMETER ADDRESS=SGN$GL_VMS8,- ;
          DEFAULT=0,- ;
          MIN=0,- ;
          NAME=VMS8,- ;
          SIZE=LONG,- ;
          TYPE=<SPECIAL> ;
;
;
;
This is the start of the user reserved sysgen parameters.
;
PARAMETER ADDRESS=SGN$GL_USERD1,- ;
          DEFAULT=0,- ;
          MIN=0,- ;
          NAME=USERD1,- ;
          SIZE=LONG,- ;
          TYPE=<DYNAMIC> ;
;
PARAMETER ADDRESS=SGN$GL_USERD2,- ;
          DEFAULT=0,- ;
          MIN=0,- ;
          NAME=USERD2,- ;
          SIZE=LONG,- ;
          TYPE=<DYNAMIC> ;
;
```

```

PARAMETER      ADDRESS=SGN$GL_USER3,- ;
                DEFAULT=0,-          ;
                MIN=0,-              ;
                NAME=USER3,-         ;
                SIZE=LONG,-          ;
                TYPE=<>               ;
;
PARAMETER      ADDRESS=SGN$GL_USER4,- ;
                DEFAULT=0,-          ;
                MIN=0,-              ;
                NAME=USER4,-         ;
                SIZE=LONG,-          ;
                TYPE=<>               ;
;
; Extra CPU time. This parameter sets the number of 10 millisecond
; units to be allowed as an extension when CPU time expires. One
; extension is allowed for each access mode.
;
PARAMETER      ADDRESS=SGN$GL_EXTRACPU,- ;
                DEFAULT=1000,-        ; 10 Seconds
                MIN=0,-              ;
                NAME=EXTRACPU,-       ;
                SIZE=LONG,-          ;
                TYPE=<SYS,DYNAMIC>,-  ;
                UNIT=10Ms            ;
;
; Maximum group code for system UIC
;
PARAMETER      ADDRESS=EXESGL_SYSUIC,- ;
                DEFAULT=8,-          ;
                MIN=1,-              ;
                MAX=32768,-          ;
                NAME=MAXSYSGROUP,-   ;
                SIZE=LONG,-          ;
                TYPE=<SYS,DYNAMIC>,-  ;
                UNIT=<UIC Group>     ;
;
; Maximum time for a device to languish in mount verification before giving up.
;
PARAMETER      ADDRESS=IOC$GW_MVTIMEOUT,-
                DEFAULT=600,-        ; 10 minute default
                MIN=1,-              ;
                MAX=64000,-          ;
                NAME=MVTIMEOUT,-     ;
                SIZE=WORD,-          ;
                TYPE=<SYS,DYNAMIC>,-  ;
                UNIT=Seconds         ;
;
; Maximum allowable buffered I/O request size
;
PARAMETER      ADDRESS=IOC$GW_MAXBUF,- ;
                DEFAULT=1056,-       ;
                MIN=512,-            ;
                MAX=64000,-          ;
                NAME=MAXBUF,-        ;
                SIZE=WORD,-          ;
                TYPE=<SYS,DYNAMIC>,-  ;
                UNIT=Bytes           ;
;

```

; Default buffer quota for Mailbox creation

```
;
PARAMETER      ADDRESS=IOC$GW_MBXBFQUO,-      ;
                DEFAULT=1056,-      ;
                MIN=256,-      ;
                MAX=64000,-      ;
                NAME=DEFMBXBUFQUO,-      ;
                SIZE=WORD,-      ;
                TYPE=<SYS,DYNAMIC>,-      ;
                UNIT=Bytes
```

; Default maximum message size for Mailbox creation

```
;
PARAMETER      ADDRESS=IOC$GW_MBXMXMSG,-      ;
                DEFAULT=256,-      ;
                MIN=64,-      ;
                MAX=64000,-      ;
                NAME=DEFMBXMXMSG,-      ;
                SIZE=WORD,-      ;
                TYPE=<SYS,DYNAMIC>,-      ;
                UNIT=Bytes
```

; Default number of messages for Mailbox creation

```
;
PARAMETER      ADDRESS=IOC$GW_MBXNMMSG,-      ;
                DEFAULT=16,-      ;
                MIN=1,-      ;
                NAME=DEFMBXNUMMSG,-      ;
                SIZE=WORD,-      ;
                TYPE=<SYS,DYNAMIC>,-      ;
                UNIT=Messages
```

;
; DESIRED FREE LIST LENGTH - SPECIFIES THE NUMBER OF FREE PAGES TO
; BE MAINTAINED AVAILABLE BY THE SWAPPER.

```
;
PARAMETER      ADDRESS=SGN$GL_FREELIM,-      ;
                DEFAULT=32,-      ;
                MIN=16,-      ;
                NAME=FREELIM,-      ;
                SIZE=LONG,-      ;
                TYPE=<SYS,SYSGEN,MAJOR>,-      ;
                UNIT=Pages
```

;
; Target free list length - specifies the number of free pages
; that the swapper will attempt to make available
; when correcting for free list < FREELIM.

```
;
PARAMETER      ADDRESS=SGN$GL_FREEGOAL,-      ;
                DEFAULT=200,-      ;
                MIN=16,-      ;
                NAME=FREEGOAL,-      ;
                SIZE=LONG,-      ;
                TYPE=<SYS,MAJOR>,-      ;
                UNIT=Pages
```

;
; DESIRED FREE LIST LENGTH THAT MUST EXIST TO ALLOW PROCESSES
; TO GROW PAST WSQUOTA.

```
;
PARAMETER      ADDRESS=SCH$GL_GROWLIM,-      ;
                DEFAULT=63,-      ;
                MIN=0,-      ;
```

```

        NAME=GROWLIM,-          ;
        SIZE=LONG,-            ;
        TYPE=<SYS,DYNAMIC,MAJOR>,- ;
        UNIT=Pages
;
; DESIRED FREE LIST LENGTH THAT MUST EXIST TO ALLOW PROCESSES
; TO GROW PAST WSQUOTA.
;
PARAMETER ADDRESS=SCH$GL_BORROWLIM,- ;
          DEFAULT=300,-              ;
          MIN=0,-                    ;
          NAME=BORROWLIM,-          ;
          SIZE=LONG,-               ;
          TYPE=<SYS,DYNAMIC,MAJOR>,- ;
          UNIT=Pages
;
; NUMBER OF RETRIES TO PERFORM WHEN TRYING TO LOCK A MULTI-PROCESSOR
; DATA STRUCTURE
;
PARAMETER ADDRESS=EXE$GL_LOCKRTRY,- ;
          DEFAULT=100000,-          ;
          MIN=1,-                   ;
          NAME=LOCKRETRY,-          ;
          SIZE=LONG,-               ;
          TYPE=<SPECIAL,DYNAMIC>,- ;
          UNIT=Retries
;
; Maximum DR32 data rate
;
PARAMETER ADDRESS=IOC$GW_XFMXRATE,- ;
          DEFAULT=236,-             ;
          MIN=0,-                   ;
          MAX=255,-                 ;
          NAME=XFMAXRATE,-          ;
          SIZE=WORD,-               ;
          TYPE=<SYS,DYNAMIC>,-      ;
          UNIT=Special
;
; Number of Unibus map registers to preallocate for LPA11
;
PARAMETER ADDRESS=IOC$GW_LAMAPREG,- ;
          DEFAULT=0,-               ;
          MIN=0,-                   ;
          MAX=255,-                 ;
          NAME=LAMAPREGS,-          ;
          SIZE=WORD,-               ;
          TYPE=<SYS,SYSGEN>,-       ;
          UNIT=Mapregs
;
; Number of SPT entries to preallocate for use by real time processes
; connecting to devices via the connect to interrupt driver.
;
PARAMETER ADDRESS=EXE$GL_RTICESPT,- ;
          DEFAULT=0,-               ;
          MIN=0,-                   ;
          NAME=REALTIME_SPTS,-      ;
          SIZE=LONG,-               ;
          TYPE=<SYS,SYSGEN>,-       ;
          UNIT=Pages

```

```
;  
; Number of pages created for command interpreter symbol table.  
;
```

```
PARAMETER ADDRESS=EXES$GL_CLITABL,-  
          DEFAULT=40,-  
          MIN=10,-  
          MAX=128,-  
          NAME=CLISYMTBL,-  
          SIZE=LONG,-  
          TYPE=<SYS,SYSGEN,DYNAMIC>,-  
          UNIT=Pages
```

```
;  
; Size of lock id table.  
;
```

```
PARAMETER ADDRESS=LCK$GL_IDTBLSIZ,-  
          DEFAULT=128,-  
          MIN=16,-  
          MAX=16000,-  
          NAME=LOCKIDTBL,-  
          SIZE=LONG,-  
          TYPE=<SYS,SYSGEN,MAJOR>,-  
          UNIT=Entries
```

```
;  
; Size of resource hash table.  
;
```

```
PARAMETER ADDRESS=LCK$GL_HTBLSIZ,-  
          DEFAULT=32,-  
          MIN=1,-  
          MAX=8192,-  
          NAME=RESHASHTBL,-  
          SIZE=LONG,-  
          TYPE=<SYS,SYSGEN,MAJOR>,-  
          UNIT=Entries
```

```
;  
; Deadlock detection timeout period  
;
```

```
PARAMETER ADDRESS=LCK$GL_WAITTIME,-  
          DEFAULT=10,-  
          MIN=0,-  
          NAME=DEADLOCK_WAIT,-  
          SIZE=LONG,-  
          TYPE=<SYS,DYNAMIC>,-  
          UNIT=Seconds
```

```
;  
; SCS allocation counts - Buffer Descriptor Table entries  
;
```

```
PARAMETER ADDRESS=SCS$GW_BDTCNT,-  
          DEFAULT=10,-  
          MIN=0,-  
          MAX=32767,-  
          NAME=SCSBUFFCNT,-  
          SIZE=WORD,-
```

```

                                TYPE=<SYSGEN,SCS>,-
                                UNIT=Entries
;
; SCS allocation counts - Connect Descriptor Table entries
;
    PARAMETER          ADDRESS=SCS$GW_CDTCNT,-
                        DEFAULT=18,-
                        MIN=2,-
                        MAX=32767,-
                        NAME=SCSCONNCNT,-
                        SIZE=WORD,-
                        TYPE=<SYSGEN,SCS>,-
                        UNIT=Entries
;
; SCS allocation counts - Response Descriptor Table entries
;
    PARAMETER          ADDRESS=SCS$GW_RDTCNT,-
                        DEFAULT=20,-
                        MIN=0,-
                        MAX=32767,-
                        NAME=SCSRESPCNT,-
                        SIZE=WORD,-
                        TYPE=<SYSGEN,SCS>,-
                        UNIT=Entries
;
; SCS maximum datagram size
;
    PARAMETER          ADDRESS=SCS$GW_MAXDG,-
                        DEFAULT=576,-
                        MIN=28,-
                        MAX=985,-
                        NAME=SCSMAXDG,-
                        SIZE=WORD,-
                        TYPE=<SYSGEN,SCS>,-
                        UNIT=Bytes
;
; SCS maximum sequenced message size
;
    PARAMETER          ADDRESS=SCS$GW_MAXMSG,-
                        DEFAULT=96,-
                        MIN=52,-
                        MAX=985,-
                        NAME=SCSMAXMSG,-
                        SIZE=WORD,-
                        TYPE=<SYSGEN,SCS>,-
                        UNIT=Bytes
;
; SCS flow control cushion
;
    PARAMETER          ADDRESS=SCS$GW_FLOWCUSH,-
                        DEFAULT=0,-
                        MIN=0,-
                        MAX=16,-

```



```
NAME=SCSFLOWCUSH,-  
SIZE=WORD,-  
TYPE=<SCS,DYNAMIC>,-  
UNIT=Credits
```

```
;  
; SCS system id (unique 48 bit number per system)  
;
```

```
PARAMETER ADDRESS=SCS$GB_SYSTEMID,-  
DEFAULT=1,-  
MIN=1,-  
MAX=255,-  
NAME=SCSSYSTEMID,-  
SIZE=BYTE,-  
TYPE=<SYSGEN,SCS>,-  
UNIT=Pure-number  
.BYTE 0,0,0,0,0,0,0 ; *** TEMP ***
```

```
;  
; CI port - number of times to try START handshake  
;
```

```
PARAMETER ADDRESS=SCS$GW_PASTRTRY,-  
DEFAULT=4,-  
MIN=0,-  
MAX=32767,-  
NAME=PASTRETRY,-  
SIZE=WORD,-  
TYPE=<SCS,DYNAMIC>,-  
UNIT=Retries
```

```
;  
; CI port - timeout for START/STACK sequence, also basic driver wakeup interval  
;
```

```
PARAMETER ADDRESS=SCS$GW_PASTMOUT,-  
DEFAULT=5,-  
MIN=2,-  
MAX=100,-  
NAME=PASTIMOUT,-  
SIZE=WORD,-  
TYPE=<SCS,DYNAMIC>,-  
UNIT=Seconds
```

```
;  
; CI port - number of DG buffers to queue for START handshake  
;
```

```
PARAMETER ADDRESS=SCS$GW_PAPPDDG,-  
DEFAULT=4,-  
MIN=1,-  
MAX=16,-  
NAME=PASTDGBUF,-  
SIZE=WORD,-  
TYPE=<SCS>,-  
UNIT=Buffers
```

```
;  
; CI port - number of ports to poll each interval (for future expansion)  
;
```

```
PARAMETER      ADDRESS=SCS$GB_PANPOLL,-
                DEFAULT=16,-
                MIN=1,-
                MAX=244,-
                NAME=PANUMPOLL,-
                SIZE=BYTE,-
                TYPE=<SPECIAL>,-
                UNIT=Ports
```

```
;  
; CI port - time between poll initiates  
;
```

```
PARAMETER      ADDRESS=SCS$GW_PAPOLINT,-
                DEFAULT=15,-
                MIN=2,-
                MAX=32767,-
                NAME=PAPOLLINTERVAL,-
                SIZE=WORD,-
                TYPE=<SCS,DYNAMIC>,-
                UNIT=Seconds
```

```
;  
; CI port - time between check for SYSAP's waiting for pool  
;
```

```
PARAMETER      ADDRESS=SCS$GW_PAPOLIN,-
                DEFAULT=15,-
                MIN=2,-
                MAX=32767,-
                NAME=PAPOLINTERVAL,-
                SIZE=WORD,-
                TYPE=<SCS,DYNAMIC>,-
                UNIT=Seconds
```

```
;  
; Time prompt timeout - this parameter sets the amount of time to wait  
; for the time of day to be entered when booting. The default value  
; of -1 gives the behavior of V2 and earlier.  
;
```

```
PARAMETER      ADDRESS=SGN$GW_TPWAIT,-
                DEFAULT=-1,-
                MIN=0,-
                NAME=TIMEPROMPTWAIT,-
                SIZE=WORD,-
                TYPE=<SYS>,-
                UNIT=uFortnights           ; Close enough to seconds
```

```
;  
; UDA port - UDABURSTRATE is one less than the maximum number of longwords  
; the host is willing to allow per NPR transfer. Zero implies  
; the port should use its own default. Both the port's  
; default and the maximum the port will accept are Controller  
; dependent.  
;
```

```
PARAMETER      ADDRESS=SCS$GB_UDABURS1,-
                DEFAULT=0,-
                MIN=0,-
                MAX=31,-
```

```
NAME=UDABURSTRATE,-
SIZE=BYTE,-
TYPE=<SYSGEN,SCS>,-
UNIT=Longwords
```

```
;
; NOTE: The following three entries must be contiguous and in order!!!!
;
; Size of SYSTEM logical name hash table.
;
```

```
PARAMETER ADDRESS=LOG$GL_HTBLSIZ,-
           DEFAULT=128,-
           MIN=1,-
           MAX=16383,-
           NAME=LOGSHASHTBL,-
           SIZE=LONG,-
           TYPE=<SYS,SYSGEN>,-
           UNIT=Entries
```

```
;
; Size of GROUP logical name hash table.
;
```

```
PARAMETER ADDRESS=LOG$GL_HTBLSIZG,-
           DEFAULT=32,-
           MIN=1,-
           MAX=16383,-
           NAME=LOGGHASHTBL,-
           SIZE=LONG,-
           TYPE=<SYS,SYSGEN>,-
           UNIT=Entries
```

```
;
; Size of PROCESS logical name hash table.
;
```

```
PARAMETER ADDRESS=LOG$GL_HTBLSIZP,-
           DEFAULT=128,-
           MIN=1,-
           MAX=16383,-
           NAME=LOGPHASHTBL,-
           SIZE=LONG,-
           TYPE=<SYS,SYSGEN>,-
           UNIT=Entries
```

```
;
; PERMANENT DEFAULT SYSTEM FLAGS
;
```

```
.ALIGN LONG ;
.IF NDF,PRMSW ;
EXES$GL_DEFFLAGS:: ;
.ENDC ;
.LONG <1@EXESV_SYSPAGING>- ; ENABLE SYSTEM CODE PAGING
      !<1@EXESV_POOLPGING>- ; ENABLE SYSTEM POOL PAGING
      !<1@EXESV_SBIERR>- ; SBI ERROR DETECTION
      !<1@EXESV_BUGREBOOT>- ; AUTOMATIC REBOOT ON BUGCHECK
      !<1@EXESV_CRDENABL>- ; ENABLE CRD ERROR DETECTION
      !<1@EXESV_BUGDUMP>- ; SYSTEM DUMP ON BUGCHECK
      !<1@EXESV_CONCEALED>- ; ENABLE USE OF CONCEALED DEVICES
      !<1@EXESV_JOBQUEUES>- ; Enable job controller queues
```


;
;
; AUTO CONFIGURATION INHIBIT - INHIBITS THE AUTOMATIC CONFIGURATION
; OF DEVICES.
;

PARAMETER ADDRESS=EXESGL_DEFFLAGS,-;
DEFAULT=0,- ;
MAX=1,- ;
MIN=0,- ;
NAME=NOAUTOCONFIG,-
BIT=EXESV_NOAUTOCNF,- ;
TYPE=<SPECIAL,DYNAMIC>,-;
UNIT=Boolean

;
;
; NO CLOCK - INHIBITS THE STARTING OF THE INTERVAL TIMER FOR DEBUGGING
; PURPOSES.
;

PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;
DEFAULT=0,- ;
MAX=1,- ;
MIN=0,- ;
NAME=NOCLOCK,- ;
BIT=EXESV_NOCLOCK,- ;
TYPE=<SPECIAL>,- ;
UNIT=Boolean

;
;
; CLUSTERING INHIBIT - INHIBITS ALL PAGE READ CLUSTERING
;

PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;
DEFAULT=0,- ;
MAX=1,- ;
MIN=0,- ;
NAME=NOCLUSTER,- ;
BIT=EXESV_NOCLUSTER,- ;
TYPE=<SPECIAL>,- ;
UNIT=Boolean

;
;
; ENABLE PAGING OF PAGED DYNAMIC POOL
;

PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;
DEFAULT=1,- ;
MAX=1,- ;
MIN=0,- ;
NAME=POOLPAGING,- ;
BIT=EXESV_POOLPAGING,- ;
TYPE=<SPECIAL>,-;
UNIT=Boolean

;
;
; SBI ERROR DETECTION ENABLE
;

PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;
DEFAULT=1,- ;
MAX=1,- ;
MIN=0,- ;
NAME=SBIERRENABLE,- ;
BIT=EXESV_SBIERR,- ;
TYPE=<SPECIAL>,- ;
UNIT=Boolean

;
;
; FORCE ENTRY OF TIME AT SYSTEM BOOT
;

PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;


```
NAME=RESALLOC,- ;
BIT=EXESV_RESALLOC,- ;
TYPE=<SPECIAL>,- ;
UNIT=Boolean
```

```
;  
;  
SET TO INHIBIT SYSTEM SERVICES ON A PER PROCESS BASIS  
;
```

```
PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;  
DEFAULT=0,- ;  
MAX=1,- ;  
MIN=0,- ;  
NAME=SSINHIBIT,- ;  
BIT=EXESV_SINHIBIT,- ;  
TYPE=<SPECIAL>,- ;  
UNIT=Boolean
```

```
;  
;  
RESET TO DISABLE THE USE OF CONCEALED DEVICES  
;
```

```
PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;  
DEFAULT=1,- ;  
MAX=1,- ;  
MIN=0,- ;  
NAME=CONCEAL_DEVICES,- ;  
BIT=EXESV_CONCEALED,- ;  
TYPE=<SPECIAL>,- ;  
UNIT=Boolean
```

```
;  
;  
SAVEDUMP - IF THE DUMP IS IN THE PAGE FILE, SAVE IT UNTIL IT IS  
ANALYZED AND COPIED.  
;
```

```
PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;  
DEFAULT=0,- ;  
MAX=1,- ;  
MIN=0,- ;  
NAME=SAVEDUMP,- ;  
BIT=EXESV_SAVEDUMP,- ;  
TYPE=<SPECIAL>,- ;  
UNIT=Boolean
```

```
;  
;  
JOBQUEUES - Enable initialization of the job controller queues.  
;
```

```
PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;  
DEFAULT=1,- ;  
MAX=1,- ;  
MIN=0,- ;  
NAME=JOBQUEUES,- ;  
BIT=EXESV_JOBQUEUES,- ;  
TYPE=<JBC,DYNAMIC>,- ;  
UNIT=Boolean
```

```
;  
;  
REINITQUE - Force recreation of the JBCSYSQUE.EXE file. An existing  
JBCSYSQUE.EXE file is ignored.  
;
```

```
PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;  
DEFAULT=0,- ;  
MAX=1,- ;  
MIN=0,- ;  
NAME=REINITQUE,- ;  
BIT=EXESV_REINITQUE,- ;
```

```

                                TYPE=<JBC,DYNAMIC>,- ;
                                UNIT=Boolean
.PAGE
.SBTTL  SYSTEM MESSAGE PARAMETERS
;
; DEFINE THE CONTROL BITS IN EXE$GL_MSGFLAGS
;
$GBLINI GLOBAL
$VIELD  EXE,0,<-
        MOUNTMSG,-           ; ENABLE MOUNT NOTIFICATION
        DISMOUMSG,-         ; ENABLE DISMOUNT NOTIFICATION
>

;
; DEFINE THE EXE$GL_MSGFLAGS LONGWORD AND ITS INITIAL VALUE.
;
.ALIGN  LONG                    ;
.IF     NDF,PRMSW                ;
EXE$GL_MSGFLAGS::                ;
.ENDC                                ;
.LONG   0

;
; MOUNTMSG - CONTROLS OPERATOR NOTIFICATION OF VOLUME MOUNTING
;
PARAMETER      ADDRESS=EXE$GL_MSGFLAGS,- ;
                DEFAULT=0,-             ;
                MAX=1,-                 ;
                MIN=0,-                 ;
                NAME=MOUNTMSG,-         ;
                BIT=EXE$V_MOUNTMSG,-    ;
                TYPE=<SYS,DYNAMIC>,-    ;
                UNIT=Boolean

;
; DISMOUMSG - Controls operator notification of volume dismounting
;
PARAMETER      ADDRESS=EXE$GL_MSGFLAGS,- ;
                DEFAULT=0,-             ;
                MAX=1,-                 ;
                MIN=0,-                 ;
                NAME=DISMOUMSG,-        ;
                BIT=EXE$V_DISMOUMSG,-   ;
                TYPE=<SYS,DYNAMIC>,-    ;
                UNIT=Boolean

.PAGE
.SBTTL  TERMINAL DRIVER SYSTEM PARAMETERS
;
; DIALUP SUPPORT CONTROL PARAMETERS
;
; DELTA TIME FOR DIALUP TIMER SCAN
;
PARAMETER      ADDRESS=TTY$GL_DELTA,- ;
                DEFAULT=<100000*100>,- ;
                MIN=100000,-          ;
                NAME=TTY_SCANDelta,-   ;
                SIZE=LONG,-            ;
                TYPE=<TTY>,-           ;
                UNIT=100Ns             ;

;
; FLAGS FOR DIALUP
;

```



```

; BIT 0 is 0 => NORMAL, 1 => UNITED KINGDOM
; BIT 1 SPECIFIES ALTERNATE MODEM PROTOCOL
;
PARAMETER ADDRESS=TTY$GB_DIALTYP,- ;
          DEFAULT=0,- ;
          MIN=0,- ;
          MAX=<^XOFF>,- ;
          NAME=TTY_DIALTYPE,- ;
          TYPE=<TTY>,- ;
          SIZE=BYTE,- ;
          UNIT=Bit-Encoded ;
;
; NOTE ALIGNMENT!
;
; TERMINAL CANONICAL CHARACTERISTICS
;
;
; DEFAULT SPEED FOR TERMINALS
;
PARAMETER ADDRESS=TTY$GB_DEFSPEED,-; DEFAULT SPEED FOR TERMINALS AI
          DEFAULT=TT$C_BAUD_9600,-; 9600 BAUD - NO PARITY
          MIN=1,- ;
          MAX=16,- ;
          NAME=TTY_SPEED,- ;
          SIZE=BYTE,- ;
          TYPE=<TTY>,- ;
          UNIT=Special ; TT$C_BAUD VALUES
;
;
; DEFAULT RECEIVE SPEED
;
PARAMETER ADDRESS=TTY$GB_RSPEED,- ;THE RECEIVE SPEED FOR A TERMINAI
          DEFAULT=0,- ;USE THE DEFAULT SPEED
          MIN=0,- ;
          MAX=16,- ;
          NAME=TTY_RSPEED,- ;
          SIZE=BYTE,- ;
          TYPE=<TTY>,- ;
          UNIT=Special ; TT$C_BAUD VALUES AND 0
;
;
; DEFAULT PARITY
;
PARAMETER ADDRESS=TTY$GB_PARITY,- ;THE PARITY OF THE TERMINALS
          DEFAULT=24,- ;NO PARITY EIGHT BITS.
          MIN=0,- ;
          NAME=TTY_PARITY,- ;
          SIZE=BYTE,- ;
          TYPE=<TTY>,- ;
          UNIT=Special ;
;
;
; DEFAULT TERMINAL LINE WIDTH
;
PARAMETER ADDRESS=TTY$GW_DEFBUF,- ; DEFAULT BUFFER SIZE
          DEFAULT=80,- ;
          MIN=0,- ;
          MAX=65535,- ;
          NAME=TTY_BUF,- ;
          SIZE=WORD,- ;
          TYPE=<TTY>,- ;
          UNIT=Characters
;
;
; DEFAULT TERMINAL CHARACTERISTICS

```

```

;
PARAMETER      ADDRESS=TTY$GL_DEFCHAR,-; DEFAULT CHARACTERISTICS
DEFAULT=<<24@TT$V_PAGE>+TT$M_TTSYNC+TT$M_WRAP+TT$M_LOWER+TT$M_SCOPE>,-
              MIN=0,-
              NAME=TTY_DEFCHAR,-
              SIZE=LONG,-
              TYPE=<TTY>,-
              UNIT=Bit-Encoded
;
; Device characteristics second word.
;
PARAMETER      ADDRESS=TTY$GL_DEFCHAR2,-;
DEFAULT=TT2$M_AUTOBAUD,-; SET AUTOBAUD FOR DEFAULT
MIN=0,-
NAME=TTY_DEFCHAR2,-
SIZE=LONG,-
TYPE=<TTY>,-
UNIT=Bit-Encoded
;
; SIZE OF TYPEAHEAD BUFFER
;
PARAMETER      ADDRESS=TTY$GW_TYPAHDSZ,-
DEFAULT=78,-
MIN=0,-
NAME=TTY_TYPAHDSZ,-
SIZE=WORD,-
TYPE=<TTY>,-
UNIT=Bytes
;
; Alternate Typeahead size.
;
PARAMETER      ADDRESS=TTY$GW_ALTYPAHD,-
DEFAULT=200,-
MIN=0,-
NAME=TTY_ALTYPAHD,-
SIZE=WORD,-
TYPE=<TTY>,-
UNIT=Bytes
;
; Alternate Typeahead buffer alarm size.
;
PARAMETER      ADDRESS=TTY$GW_ALTALARM,-
DEFAULT=64,-
MIN=0,-
NAME=TTY_ALTALARM,-
SIZE=WORD,-
TYPE=<TTY>,-
UNIT=Bytes
;
; DMA size
;
PARAMETER      ADDRESS=TTY$GW_DMASIZE,-
DEFAULT=64,-
MIN=0,-
NAME=TTY_DMASIZE,-
SIZE=WORD,-
TYPE=<TTY,DYNAMIC>,-
UNIT=Bytes
;

```

; DEFAULT TERMINAL ALLOCATION PROTECTION

```
;
PARAMETER      ADDRESS=TTY$GW_PROT,-          ; PROTECTION CLASSES
                DEFAULT=<^X0FFF0>,-          ; SYSTEM ONLY
                MIN=0,-                       ;
                NAME=TTY_PROT,-               ;
                SIZE=WORD,-                   ;
                TYPE=<TTY>,-                   ;
                UNIT=Protection               ;
```

```
PARAMETER      ADDRESS=TTY$GL_OWNUIC,-        ; OWNER UIC
                DEFAULT=<^X00010004>,-        ; SYSTEM OWNER
                MIN=0,-                       ;
                NAME=TTY_OWNER,-              ;
                SIZE=LONG,-                   ;
                TYPE=<TTY>-                    ;
                UNIT=UIC                       ;
```

;
;
; DEFAULT TERMINAL CLASS NAME PREFIX

```
PARAMETER      ADDRESS=TTY$GW_CLASSNAM,-      ;
                DEFAULT=<^A/TT/>,-            ;
                MIN=<^A/AA/>,-                 ;
                MAX=<^A/ZZ/>,-                 ;
                NAME=TTY_CLASSNAME,-          ;
                SIZE=WORD,-                   ;
                TYPE=<TTY>,-                   ;
                UNIT=Ascii                     ;
```

;
;
; DEFAULT SILO TIMEOUT VALUE FOR DMF32

```
PARAMETER      ADDRESS=TTY$GB_SILOTIME,-      ;
                DEFAULT=8,-                   ;
                MIN=0,-                       ;
                MAX=255,-                     ;
                NAME=TTY_SILOTIME,-           ;
                SIZE=BYTE,-                   ;
                TYPE=<TTY>,-                   ;
                UNIT=Ms                       ;
```

;
; END OF TERMINAL SYSTEM PARAMETERS

```
;
; .PAGE
; .SBTTL RMS DEFAULT PARAMETERS
```

;
; RMS DEFAULT PARAMETERS

```
PARAMETER      ADDRESS=SYS$GB_DFMBC,-        ;
                DEFAULT=16,-                 ; DEFAULT MULTI-BLOCK COUNT
                MIN=1,-                       ;
                MAX=127,-                     ;
                NAME=RMS_DFMBC,-             ;
                SIZE=BYTE,-                   ;
                TYPE=<RMS,DYNAMIC>,-         ;
                UNIT=Blocks                   ;
```

;
; DEFAULT MULTI-BUFFER COUNT FOR SEQUENTIAL . DISK

```
;
PARAMETER      ADDRESS=SYS$GB_DFMBFSKD,-      ;
```

```

        DEFAULT=0,-          ;
        MIN=0,-             ;
        MAX=127,-          ;
        NAME=RMS_DFMBFSDK,- ;
        SIZE=BYTE,-        ;
        TYPE=<RMS,DYNAMIC>,- ;
        UNIT=Blocks
;
; DEFAULT MULTI-BUFFER COUNT FOR MAGTAPE
;
    PARAMETER      ADDRESS=SYSS$GB_DFMBFSMT,-      ;
                   DEFAULT=0,-                    ;
                   MIN=0,-                         ;
                   MAX=127,-                      ;
                   NAME=RMS_DFMBFSMT,-            ;
                   SIZE=BYTE,-                    ;
                   TYPE=<RMS,DYNAMIC>,-           ;
                   UNIT=Blocks
;
; DEFAULT MULTI-BUFFER COUNT FOR UNIT RECORD DEVICES.
;
    PARAMETER      ADDRESS=SYSS$GB_DFMBFSUR,-      ;
                   DEFAULT=0,-                    ;
                   MIN=0,-                         ;
                   MAX=127,-                      ;
                   NAME=RMS_DFMBFSUR,-            ;
                   SIZE=BYTE,-                    ;
                   TYPE=<RMS,DYNAMIC>,-           ;
                   UNIT=Buffers
;
; DEFAULT MULTI-BUFFER COUNT FOR RELATIVE FILES
;
    PARAMETER      ADDRESS=SYSS$GB_DFMBFREL,-      ;
                   DEFAULT=0,-                    ;
                   MIN=0,-                         ;
                   MAX=127,-                      ;
                   NAME=RMS_DFMBFREL,-            ;
                   SIZE=BYTE,-                    ;
                   TYPE=<RMS,DYNAMIC>,-           ;
                   UNIT=Buffers
;
; DEFAULT MULTI-BUFFER COUNT INDEXED FILES
;
    PARAMETER      ADDRESS=SYSS$GB_DFMBFIDX,-      ;
                   DEFAULT=0,-                    ;
                   MIN=0,-                         ;
                   MAX=127,-                      ;
                   NAME=RMS_DFMBFIDX,-            ;
                   SIZE=BYTE,-                    ;
                   TYPE=<RMS,DYNAMIC>,-           ;
                   UNIT=Buffers
;
; DEFAULT MULTI-BUFFER COUNT HASHED
;
    PARAMETER      ADDRESS=SYSS$GB_DFMBFHSH,-      ;
                   DEFAULT=0,-                    ;
                   MIN=0,-                         ;
                   MAX=127,-                      ;
                   NAME=RMS_DFMBFHSH,-            ;
                   SIZE=BYTE,-                    ;
                   TYPE=<RMS,DYNAMIC>,-           ;

```

UNIT=Buffers

;
; Default rms Prologue
;

```
PARAMETER      ADDRESS = SYSSGB_RMSPROLOG,-  
                DEFAULT = 0,-           ; 0, 2 and 3 are valid, only  
                MIN = 0,-  
                MAX = 3,-  
                NAME = RMS_PROLOGUE,-  
                SIZE = BYTE,-  
                TYPE = <RMS,DYNAMIC>,-  
                UNIT = Prolog=Lvl
```

;
; Default file extend quantity
;

```
PARAMETER      ADDRESS = SYSSGW_RMSEXTEND,-  
                DEFAULT = 80,-  
                MIN = 0,-  
                MAX = 65535,-  
                NAME = RMS_EXTEND_SIZE,-  
                SIZE = WORD,-  
                TYPE = <RMS,DYNAMIC>,-  
                UNIT = Blocks
```

;
; Default file protection
;

```
PARAMETER      ADDRESS = SYSSGW_FILEPROT,-  
                DEFAULT = <^XFA00>,-  
                MIN = 0,-  
                MAX = <^XFFFF>,-  
                NAME = RMS_FILEPROT,-  
                SIZE = WORD,-  
                TYPE = RMS,-  
                UNIT = Prot-mask
```

.ALIGN LONG

;
; END OF RMS DEFAULT PARAMETERS
;

```
.PAGE  
.SBTTL  PROCESS QUOTA DEFAULTS AND MINIMA  
.=-4  
DEFINE  PQLSAL_DEFAULT      ;  
.=.+4  
.BLKL  PQLS_LENGTH        ;  
.=-4  
DEFINE  PQLSAL_MIN         ;  
.=.+4  
.BLKL  PQLS_LENGTH        ;  
.=-1  
DEFINE  PQLSAB_FLAG        ;  
.=.+1  
.BLKB  PQLS_LENGTH        ;
```

;
; DEFINE PROCESS QUOTA DEFAULTS AND MINIMA
;

```

PQL    ASTLM,-                ; AST LIMIT
        DEFLT=6,-            ;
        MINIM=2,-           ;
        UNT=Ast              ;

PQL    BIOLM,-                ; BUFFERED I/O LIMIT
        DEFLT=6,-            ;
        MINIM=2,-           ;
        UNT=I/O              ;

PQL    BYTLM,-                ; BUFFERED I/O BYTE COUNT LIMIT
        DEFLT=8192,-         ;
        FLAG=DEDUCTIBLE,-   ;
        MINIM=1024,-        ;
        UNT=Bytes            ;

PQL    CPULM,-                ; CPU TIME LIMIT
        DEFLT=0,-            ;
        FLAG=DEDUCTIBLE,-   ;
        MINIM=0,-           ;
        UNT=10Ms             ;

PQL    DIOLM,-                ; DIRECT I/O LIMIT
        DEFLT=6,-            ;
        MINIM=2,-           ;
        UNT=I/O              ;

PQL    FILLM,-                ; OPEN FILE LIMIT
        DEFLT=16,-          ;
        FLAG=DEDUCTIBLE,-   ;
        MINIM=2,-           ;
        UNT=Files            ;

PQL    PGFLQUOTA,-            ; PAGING FILE QUOTA
        DEFLT=2048,-         ;
        FLAG=DEDUCTIBLE,-   ;
        MINIM=256,-         ;
        UNT=Pages            ;

PQL    PRCLM,-                ; SUB-PROCESS LIMIT
        DEFLT=8,-            ;
        FLAG=DEDUCTIBLE,-   ;
        MINIM=0,-           ;
        UNT=Processes        ;

PQL    TQELM,-                ; TIMER QUEUE ENTRY LIMIT
        DEFLT=8,-            ;
        FLAG=DEDUCTIBLE,-   ;
        MINIM=0,-           ;
        UNT=Timers           ;

PQL    WSDEFAULT,-            ; WORKING SET DEFAULT SIZE
        DEFLT=100,-          ;
        MINIM=10,-          ;
        UNT=Pages,-         ;
        DYNAMIC_FLAG=STATIC ;

```

```

;
; DEFAULT WORKING SET SIZE - SIZE OF SHELL WORKING SET
;

```

```

    .IF    NDF,PRMSW          ;

```

```

SGN$GW_DFWSCNT==PQL$GDWSDEFAULT      ; SYNONYM
.ENDC                                  ;
PQL      WSQUOTA,-                     ; WORKING SET QUOTA
        DEFLT=200,-                   ;
        MINIM=10,-                     ;
        UNT=Pages                       ;

PQL      WSEXTENT,-                    ; WORKING SET EXTENT
        DEFLT=200,-                     ;
        MINIM=10,-                       ;
        UNT=Pages                         ;

PQL      ENQLM,-                        ; ENQUEUE LIMIT
        DEFLT=20,-                       ;
        FLAG=DEDUCTIBLE,-                 ;
        MINIM=2,-                         ;
        UNT=Locks                          ;

```

```

.PAGE
.SBTTL FILE ACP CONFIGURATION DATA

```

```

;+
;
; File ACP configuration data. These parameters are used whenever an ACP is
; started up (or, in the case of per volume data, when a volume is mounted).
;
;-

```

```

;
; Number of blocks in bitmap cache.
;

```

```

PARAMETER      ADDRESS=ACPSGW_MAPCACHE,-      ;
                DEFAULT=8,-                    ;
                MIN=1,-                         ;
                NAME=ACP_MAPCACHE,-            ;
                SIZE=WORD,-                     ;
                TYPE=<ACP,DYNAMIC>,-           ;
                UNIT=Pages                       ;

```

```

;
; Number of blocks in file header cache.
;

```

```

PARAMETER      ADDRESS=ACPSGW_HDRCACHE,-      ;
                DEFAULT=128,-                  ;
                MIN=2,-                         ;
                NAME=ACP_HDRCACHE,-            ;
                SIZE=WORD,-                     ;
                TYPE=<ACP,DYNAMIC>,-           ;
                UNIT=Pages                       ;

```

```

;
; Number of blocks in file directory cache.
;

```

```

PARAMETER      ADDRESS=ACPSGW_DIRCACHE,-      ;
                DEFAULT=80,-                    ;
                MIN=2,-                         ;
                NAME=ACP_DIRCACHE,-            ;
                SIZE=WORD,-                     ;
                TYPE=<ACP,DYNAMIC>,-           ;
                UNIT=Pages                       ;

```

```

;
; ACP working set in pages (0 means maximal)
;

```

```

PARAMETER      ADDRESS=ACPSGW_WORKSET,-      ;
                DEFAULT=0,-      ;
                MIN=0,-      ;
                NAME=ACP_WORKSET,-      ;
                SIZE=WORD,-      ;
                TYPE=<ACP,DYNAMIC>,-      ;
                UNIT=Pages      ;
;
; The following parameters are applied on a per volume basis.
;
;
; Number of cached index file slots
;
PARAMETER      ADDRESS=ACPSGW_FIDCACHE,-      ;
                DEFAULT=64,-      ;
                MIN=0,-      ;
                NAME=ACP_FIDCACHE,-      ;
                SIZE=WORD,-      ;
                TYPE=<ACP,DYNAMIC>,-      ;
                UNIT=File-Ids      ;
;
; Number of cached disk extents
;
PARAMETER      ADDRESS=ACPSGW_EXTCACHE,-      ;
                DEFAULT=64,-      ;
                MIN=0,-      ;
                NAME=ACP_EXTCACHE,-      ;
                SIZE=WORD,-      ;
                TYPE=<ACP,DYNAMIC>,-      ;
                UNIT=Extents      ;
;
; Maximum fraction of disk to cache in tenths of percent
;
PARAMETER      ADDRESS=ACPSGW_EXTLIMIT,-      ;
                DEFAULT=300,-      ;
                MIN=0,-      ;
                MAX=1000,-      ;
                NAME=ACP_EXTLIMIT,-      ;
                SIZE=WORD,-      ;
                TYPE=<ACP,DYNAMIC>,-      ;
                UNIT=<Percent/10>      ;
;
; Number of quota file entries to cache
;
PARAMETER      ADDRESS=ACPSGW_QUOCACHE,-      ;
                DEFAULT=64,-      ;
                MIN=0,-      ;
                MAX=-1,-      ;
                NAME=ACP_QUOCACHE,-      ;
                SIZE=WORD,-      ;
                TYPE=<ACP,DYNAMIC>,-      ;
                UNIT=Users      ;
;
; Default access for system volumes
;
PARAMETER      ADDRESS=ACPSGW_SYSACC,-      ;
                DEFAULT=8,-      ;
                MIN=0,-      ;
                NAME=ACP_SYSACC,-      ;
                SIZE=WORD,-      ;

```



```

        TYPE=<ACP,DYNAMIC>,-      ;
        UNIT=Directories
;
; Maximum number of blocks to read at once for directories.
;
        PARAMETER      ADDRESS=ACP$GB_MAXREAD,-      ;
                        DEFAULT=32,-                ;
                        MIN=1,-                      ;
                        MAX=64,-                    ;
                        NAME=ACP_MAXREAD,-          ;
                        SIZE=BYTE,-                 ;
                        TYPE=<ACP,DYNAMIC>,-        ;
                        UNIT=Blocks                 ;
;
; Default window size for system volumes.
;
        PARAMETER      ADDRESS=ACP$GB_WINDOW,-      ;
                        DEFAULT=7,-                ;
                        MIN=1,-                      ;
                        NAME=ACP_WINDOW,-          ;
                        SIZE=BYTE,-                 ;
                        TYPE=<ACP,DYNAMIC>,-        ;
                        UNIT=Pointers               ;
;
; Deferred cache writeback enable.
;
        PARAMETER      ADDRESS=ACP$GB_WRITBACK,-    ;
                        DEFAULT=1,-                ;
                        MIN=0,-                      ;
                        MAX=1,-                      ;
                        NAME=ACP_WRITEBACK,-        ;
                        SIZE=BYTE,-                 ;
                        TYPE=<ACP,DYNAMIC>,-        ;
                        UNIT=Boolean                ;
;
; ACP datacheck enable flags.
;
        PARAMETER      ADDRESS=ACP$GB_DATACHK,-     ;
                        DEFAULT=2,-                ;
                        MIN=0,-                      ;
                        MAX=3,-                      ;
                        NAME=ACP_DATACHECK,-        ;
                        SIZE=BYTE,-                 ;
                        TYPE=<ACP,DYNAMIC>,-        ;
                        UNIT=Boolean                ;
;
; Containing the following flags:
;
        .IF      NDF,PRMSW                ; Only for exec version of sysparam
        $GBLINI GLOBAL
        $VIELD  ACP,0,<-
                <READCHK>-                ; do datachecks on reads
                <WRITECHK>-              ; do datachecks on writes
                >
        .ENDC                               ;
;
; The following parameters apply per ACP.
;
;
; ACP base priority
;

```

```

PARAMETER      ADDRESS=ACP$GB_BASEPRIO,-      ;
                DEFAULT=8,-                    ;
                MIN=4,-                        ;
                MAX=31,-                      ;
                NAME=ACP_BASEPRIO,-          ;
                SIZE=BYTE,-                  ;
                TYPE=<ACP,DYNAMIC>,-        ;
                UNIT=Priority
;
; ACP Swap flags
;
PARAMETER      ADDRESS=ACP$GB_SWAPFLGS,-      ;
                DEFAULT=<^B1111>,-          ;.
                MIN=0,-                      ;
                MAX=15,-                    ;
                NAME=ACP_SWAPFLGS,-        ;
                SIZE=BYTE,-                ;
                TYPE=<ACP,DYNAMIC>-        ;
                UNIT=Boolean
; swappable, as follows:
; Only for exec version of sysparam
.IF      NDF,PRMSW
$GBLINI  GLOBAL
$VIELD   ACP,0,<-
                <SWAPSYS>-                ; /SYSTEM
                <SWAPGRP>-                ; /GROUP
                <SWAPPRV>-                ; other (private mount)
                <SWAPMAG>-                ; magtape
                >
.ENDC
;
.ALIGN   LONG
.PAGE
.SBTTL   Job Controller Parameters
;
; Maximum number of print symbionts
;
PARAMETER      ADDRESS=SYSS$GB_MXPRTSYM,-      ;
                DEFAULT=3,-                    ;
                MIN=1,-                        ;
                MAX=32,-                      ;
                NAME=MAXPRINTSYMB,-          ;
                SIZE=BYTE,-                  ;
                TYPE=<JBC,DYNAMIC>,-        ;
                UNIT=Processes
;
; Default Priority for Job Initiations
;
PARAMETER      SYSS$GB_DEFPRI,-      ;
                DEFAULT=4,-                    ;
                MIN=1,-                        ;
                MAX=31,-                      ;
                NAME=DEFPRI,-              ;
                SIZE=BYTE,-                ;
                TYPE=<SYS,JBC,DYNAMIC>,-    ;
                UNIT=Priority
;
; Limit for interactive Jobs
;
PARAMETER      ADDRESS=SYSS$GW_IJOBLIM,-      ;
                DEFAULT=64,-                    ;

```

```
MIN=1,- ;
MAX=1024,- ;
NAME=IJOBLIM,- ;
SIZE=WORD,- ;
TYPE=<JBC,DYNAMIC>,- ;
UNIT=Jobs
```

```
;  
; Limit for batch Jobs  
;
```

```
PARAMETER ADDRESS=SYSS$GW_BJOBLIM,- ;  
DEFAULT=16,- ;  
MIN=0,- ;  
MAX=1024,- ;  
NAME=BJOBLIM,- ;  
SIZE=WORD,- ;  
TYPE=<JBC,DYNAMIC>,- ;  
UNIT=Jobs
```

```
;  
; Limit for network Jobs  
;
```

```
PARAMETER ADDRESS=SYSS$GW_NJOBLIM,- ;  
DEFAULT=16,- ;  
MIN=0,- ;  
MAX=1024,- ;  
NAME=NJOBLIM,- ;  
SIZE=WORD,- ;  
TYPE=<JBC,DYNAMIC>,- ;  
UNIT=Jobs
```

```
;  
; Limit for Remote Terminal Jobs  
;
```

```
PARAMETER ADDRESS=SYSS$GW_RJOBLIM,- ;  
DEFAULT=16,- ;  
MIN=0,- ;  
MAX=254,- ;  
NAME=RJOBLIM,- ;  
SIZE=WORD,- ;  
TYPE=<JBC,DYNAMIC>,- ;  
UNIT=Jobs
```

```
.PAGE  
.SBTTL COMPUTED VALUES  
.ALIGN LONG ;  
DEFINE SWP$GL_SHELLSIZ ; PAGES REQUIRED FOR SHELL  
.LONG 0 ;  
  
DEFINE SWP$GW_BAKPTE ; PHD PAGES FOR BAK+W$SLX+LCK+VAL  
.WORD 0 ;  
  
DEFINE SWP$GW_EMPTYPTE ; EMPTY PHDPAGES  
.WORD 0 ;  
  
DEFINE SWP$GW_W$SLPTE ; PHD PAGES FOR FIXED+W$SL+P$ST  
.WORD 0 ;  
  
DEFINE SWP$GB_SHLP1PT ; P1 PAGE TABLES REQUIRED FOR SHELL  
.BYTE 0 ;  
  
.BYTE 0 ; SPARE
```

```

DEFINE SWP$GL_BSLLOTSZ      ; SIZE OF BALANCE SLOT
.LONG 0                      ;

DEFINE SWP$GL_MAP           ; SWAPPER MAP POINTER
.LONG 0                      ;

DEFINE SWP$GL_PHDBASVA     ; BASE ADDRESS OF PHD WINDOW
.LONG 0                      ;

DEFINE SGN$GL_PHDAPCNT     ; TOTAL SHELL HEADER PAGES
.LONG 0                      ;

DEFINE SGN$GL_PHDLWCNT     ; COUNT OF LONGWORDS IN PHD
.LONG 0                      ;

DEFINE SGN$GL_P1LWCNT      ; COUNT OF LW TO END OF P1 PAGETABLE
.LONG 0                      ;

DEFINE SGN$GL_PHDPAGCT     ; TOTAL PHD PAGES LESS PAGE TABLES
.LONG 0                      ;

DEFINE SGN$GL_PTPAGCNT     ; TOTAL PAGE TABLE COUNT
.LONG 0                      ;

DEFINE MMG$GL_CTLBASVA     ; BASE ADDRESS IN CONTROL REGION
.LONG 0                      ;

```

```

;
;
;

```

THE FOLLOWING TWO CELLS MUST BE ADJACENT

```

DEFINE EXESAL_STACKS      ; ARRAY OF KERNEL MODE SYSTEM SPACE STACI
.LONG SWP$A_KSTK          ; SWAPPER STACK (ADJACENT TO NULL STACK)
DEFINE EXESGL_INTSTK      ; BASE OF INTERRUPT STACK
.LONG 0                   ;

```

```

;
;
;

```

THE PRECEDING TWO LONG WORDS MUST BE ADJACENT.

```

DEFINE MMG$GL_GPTBASE     ; GLOBAL PAGE TABLE BASE ADDRESS
.LONG 0                   ;

DEFINE MMG$GL_GPTE        ; BASE ADDRESS OF SPT PTES FOR GPT
.LONG 0                   ; PAGES

DEFINE MMG$GL_MAXGPTE     ; HIGHEST GPTE ADDRESS
.LONG 0                   ;

DEFINE MMG$GL_MAXSYSVA    ; HIGHEST SYSTEM VA (+1)
DEFINE MMG$GL_FRESVA      ; SYNONYM
.LONG 0                   ;

DEFINE MMG$GL_SPTBASE     ; BASE ADDRESS OF SPT (VIRTUAL)
.LONG 0                   ;

DEFINE MMG$GL_SPTLEN      ; LENGTH OF SYSTEM PAGE TABLE
.LONG 0                   ;

DEFINE MMG$GL_SYSPHD      ; VA OF SYSTEM PHD
.LONG 0                   ;

DEFINE MMG$GL_SYSPHDLN    ; SIZE OF SYSTEM PHD IN BYTES

```

```

.LONG 0 ;
DEFINE SWP$GL_BALBASE ; BASE VA OF BALANCE SLOTS FOR
.LONG 0 ; PROCESS HEADERS
DEFINE SWP$GL_BALSPT ; BASE VA IN SPT FOR MAPPING BALANCE
.LONG 0 ; SLOTS
DEFINE MMG$GL_SBR ; SYSTEM BASE REGISTER
.LONG 0 ;
DEFINE MMG$GL_NPAGEDYN ; VA OF NON-PAGED POOL
.LONG 0 ;
DEFINE MMG$GL_NPAGNEXT ; NEXT VA FOR NON-PAGED POOL EXTENSION
.LONG 0 ;
DEFINE MMG$GL_IRPNEXT ; NEXT VA FOR IRP LIST EXTENSION
.LONG 0 ;
DEFINE MMG$GL_LRPNEXT ; NEXT VA FOR LRP LIST EXTENSION
.LONG 0 ;
DEFINE MMG$GL_SRPNEXT ; NEXT VA FOR SRP LIST EXTENSION
.LONG 0 ;
DEFINE MMG$GL_PAGEDYN ; VA OF PAGED POOL
.LONG 0 ;
DEFINE MMG$GL_MAXPFN ; MAXIMUM PFN FOR SYSTEM
.LONG 0 ;
.IF NDF,PRMSW ; SIZE OF PFN DATA BASE IN BYTES
MMG$GW_BIGPFN == MMG$GL_MAXPFN + 2 ; NONZERO IN UPPER WORD INDICATES
; LONGWORD BLINK AND FLINK ARRAYS
.ENDC ;
DEFINE MMG$GL_MINPFN ; MINIMUM PFN IN PFN DATABASE
.LONG 0 ;
DEFINE EXE$GL_RPB ; VIRTUAL ADDRESS OF RESTART PARAMETER BI
.LONG 0 ;
DEFINE BOO$GL_SPTFREL ; LOWER VPN OF SPT FREE AREA
.LONG 0 ;
DEFINE BOO$GL_SPTFRELH ; HIGHER VPN OF SPT FREE AREA
.LONG 0 ;
DEFINE EXE$GL_SCB ; VIRTUAL ADDRESS OF SCB
.LONG 0 ;
DEFINE EXE$GB_CPUDATA ; 16 BYTES OF DATA ABOUT THE CPU
.LONG 0,0,0,0 ; 4 BYTES FOR SID, REST CPU SPECIFIC
DEFINE EXE$GB_CPUTYPE ; CPU TYPE READ FROM SID
.BYTE 0 ;
.IF NDF,PRMSW ; SIZE OF PFN DATA BASE IN BYTES
PFN$C_WORD_LEN == 18 ; ... with word length FLINK and BLINK
PFN$C_LONG_LEN == 22 ; ... with longword length FLINK and BL

```

```

.ENDC ;

DEFINE PFNSGB_LENGTH ; Number of bytes per page in PFN data b.
.BYTE PFNSC_WORD_LEN ; Defaults to word length FLINK and BLINK

DEFINE EXESGW_PGFL_FID ; FILE ID OF PAGEFILE.SYS
.WORD 0,0,0 ; IF FILE IS IN PAGE FILE

.ALIGN LONG ; LONGWORD ALIGN POINTERS
DEFINE PFNSA_BASE ; BASE OF PFN POINTERS
PFNALC L,PTE ; ADDRESS OF PAGE TABLE ENTRY
PFNALC L,BAK ; BACKING STORE ADDRESS
PFNALC W,REFCNT ; REFERENCE COUNT
PFNALC x,<FLINK,-SHRCNT> ; FORWARD LINK
PFNALC x,<BLINK,-WSLX> ; ALSO USED AS GLOBAL SHARE COUNT
PFNALC x,<BLINK,-WSLX> ; BACK LINK
PFNALC W,SWPVBN ; SWAP IMAGE VIRTUAL BLOCK OFFSET
PFNALC B,STATE ; STATE OF PAGE
PFNALC B,TYPE ; TYPE OF PAGE

DEFINE EXESGT_STARTUP ; NAME OF STARTUP COMMAND FILE
.ASCIC /SYS$$SYSTEM:STARTUP.COM/ ; DEFAULT VALUE
.BLKB <32-<,-EXESGT_STARTUP>> ; ALLOW FOR 31 BYTES + COUNT
.IF NDF,PRMSW ; IF EXEC VERSION
EXESC_SYSPARSZ==.-EXESA_SYSPARAM ; SIZE OF SYSTEM PARAMETERS
.IFF ;
.PSECT $$$918, LONG ;
.LONG 0 ; FLAG TO MARK END
.ENDC ;

.PAGE
.SUBTITLE MMG$GL_PGDCOD Boundary of pageable exec
;-
; The cells in this module between the definition of EXESC_SYSPARSZ and
; the definition of BOO$C_SYSPARSZ are used for communication between
; SYSBOOT and SYS.EXE without interference from the SYSGEN USE and WRITE
; commands. SYSBOOT uses BOO$C_SYSPARSZ as the size of the parameter area.
; SYSGEN uses EXESC_SYSPARSZ as its size constant and so SYSGEN commands
; do not affect the contents of cells that follow the definition of
; EXESC_SYSPARSZ.
;
; The cell called MMG$GL_PGDCOD contains the address of the boundary
; between the nonpaged and pageable exec routines. This cell is used by
; both INIT and SYSBOOT. It is initialized in this module to point to the
; beginning of the second page of patch area that lies between nonpaged
; and pageable exec routines. If it is necessary to add another page of
; nonpaged patch space, then this cell and the first longword of the
; descriptor for the nonpaged read-only patch area must have 512 added to
; their contents.
;-

.IF NDF,PRMSW
.PSECT $$$917
.IFF
.PSECT $$$917A
.ENDC

DEFINE MMG$GL_PGDCOD ; CELL THAT CONTAINS BOUNDARY
DEFINE PAT$GL_EXP_NPG2 ; (SYNONYM)

```

```
.IF      NDF,PRMSW
.ADDRESS      MMGSAL_PGDCOD

BOO$C_SYSPARSZ==.-EXE$A_SYSPARAM      ; SIZE OF PARAMETER AREA READ BY SYSBOOT

;
; Bound pagable exec code to page boundary and define
; starting virtual address of this region.
;

.PSECT  Y$$$BEGIN_PAGEDCODE,PAGE
MMGSAL_PGDCOD:

.IFF
.LONG  0      ; PRESERVE ALIGNMENT
.ENDC

.END      ;
```

SYS.MAP


```

+-----+
| Object Module Synopsais |
+-----+

```

Module Name	Ident	Bytes	File	Creation Date	Creator
MDAT	V03-001	3616	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:39	VAX-11 Macro V03-00
PDAT	V03-000	2000	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:52	VAX-11 Macro V03-00
PMSDAT	V03-000	557	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:54	VAX-11 Macro V03-00
SHELL	V03-001	4100	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:01	VAX-11 Macro V03-00
SDAT	V03-001	729	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:01	VAX-11 Macro V03-00
SYSCOMMON	V03-003	672	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:08	VAX-11 Macro V03-00
SYSLOAVEC	V03-000	149	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:08	VAX-11 Macro V03-00
SCSVEC	V03-001	144	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:08	VAX-11 Macro V03-00
ACCOUNT	V03-000	608	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:07	VAX-11 Macro V03-00
ALLOCPFN	V03-001	730	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:07	VAX-11 Macro V03-00
ASTDEL	V03-000	661	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:08	VAX-11 Macro V03-00
BOOPARAM	V03-000	96	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:09	VAX-11 Macro V03-00
BUFFERCTL	V03-000	129	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:09	VAX-11 Macro V03-00
BUGCHECK	V03-001	1743	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:55	VAX-11 Macro V03-00
BUGCHKMSG	V03-001	8700	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:56	VAX-11 Macro V03-00
IOPERFORM	V03-000	333	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:30	VAX-11 Macro V03-00
CONSOLIO	V03-000	168	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:10	VAX-11 Macro V03-00
CMODSSDSP	V03-001	30880	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:11	VAX-11 Macro V03-00
CVT_ATB	V03-000	122	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:13	VAX-11 Macro V03-00
CVTFILNAM	V03-000	211	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:14	VAX-11 Macro V03-00
DEADLOCK	V03-000	532	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:14	VAX-11 Macro V03-00
DISMOUNT	V03-002	417	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:16	VAX-11 Macro V03-00
ERRORLOG	V03-001	1967	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:17	VAX-11 Macro V03-00
EXCEPTION	V03-000	1700	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:19	VAX-11 Macro V03-00
EXCEPTMSG	V03-000	607	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:20	VAX-11 Macro V03-00
EXSUBROUT	V03-001	584	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:21	VAX-11 Macro V03-00
FILEREAD	V03-000	2171	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:21	VAX-11 Macro V03-00
FILERWIO	V03-000	49	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:23	VAX-11 Macro V03-00
FORKCNTRL	V03-000	124	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:23	VAX-11 Macro V03-00
GLOBALS	V03-000	0	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:24	VAX-11 Macro V03-00
IMGACTSUB	V03-000	635	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:24	VAX-11 Macro V03-00
INIT	V03-003	4428	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:25	VAX-11 Macro V03-00
INITVEC	V03-000	6	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:27	VAX-11 Macro V03-00
RELOCDRV	V03-000	234	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:57	VAX-11 Macro V03-00
IOCIOPST	V03-001	1616	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:27	VAX-11 Macro V03-00
IOLOCK	V03-001	631	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:29	VAX-11 Macro V03-00
IOSUBNPAG	V03-000	1763	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:30	VAX-11 Macro V03-00
IOSUBPAGD	V03-000	769	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:32	VAX-11 Macro V03-00
IOSUBRAMS	V03-000	413	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:33	VAX-11 Macro V03-00
LOADMREG	V03-000	400	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:35	VAX-11 Macro V03-00
LOGNAMSUB	V03-000	500	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:36	VAX-11 Macro V03-00
MEMORYALC	V03-001	1107	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:40	VAX-11 Macro V03-00
MOUNTVER	V03-001	1099	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:41	VAX-11 Macro V03-00
IPCONTROL	V03-002	626	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:34	VAX-11 Macro V03-00
MUTEX	V03-000	204	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:43	VAX-11 Macro V03-00
NULLPROC	V03-000	2	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:44	VAX-11 Macro V03-00
OSWPSCHED	V03-002	527	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:44	VAX-11 Macro V03-00
PAGEFAULT	V03-003	3161	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:46	VAX-11 Macro V03-00
PAGEFILE	V03-002	814	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:48	VAX-11 Macro V03-00

Module Name	Ident	Bytes	File	Creation Date	Creator
-----	-----	-----	-----	-----	-----
PHDUTL	V03-001	1007	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 01:52	VAX-11 Macro V03-00
POSTEF	V03-001	355	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 01:54	VAX-11 Macro V03-00
POWERFAIL	V03-001	777	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 01:55	VAX-11 Macro V03-00
PROCSTRT	V03-001	1242	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 01:56	VAX-11 Macro V03-00
RMSRESET	V03-000	65	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 01:57	VAX-11 Macro V03-00
RSE	V03-000	746	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 01:59	VAX-11 Macro V03-00
SCHED	V03-001	119	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:00	VAX-11 Macro V03-00
SVAPTE	V03-000	112	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:06	VAX-11 Macro V03-00
SWAPPER	V03-003	3173	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:06	VAX-11 Macro V03-00
SYSPARAM	V03-009	820	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:08	VAX-11 Macro V03-00
TIMESCHDL	V03-001	605	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:11	VAX-11 Macro V03-00
WRTMFYPAG	V03-000	1072	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:12	VAX-11 Macro V03-00
XDELTA	V03-002	2664	└DRA7:[SYS,OBJ]DELTA,OLB;1	26-APR-1982 18:04	VAX-11 Macro V03-00
LIBSINS_DECODE	V03-000	1719	└DRA7:[SYS,OBJ]SDA,OLB;1	26-APR-1982 23:45	VAX-11 Bliss-32 V3-713
LIBVAX_INST	V03-000	4096	└DRA7:[SYS,OBJ]SDA,OLB;1	26-APR-1982 23:47	VAX-11 Bliss-32 V3-713
SYSADJWSL	V03-001	416	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:14	VAX-11 Macro V03-00
SYSADJSTK	V03-000	107	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:14	VAX-11 Macro V03-00
SYSACPFDT	V03-000	986	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:13	VAX-11 Macro V03-00
SYSASCEFC	V03-000	1383	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:15	VAX-11 Macro V03-00
SYSASSIGN	V03-000	577	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:16	VAX-11 Macro V03-00
SYSASTCON	V03-000	96	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:17	VAX-11 Macro V03-00
SYSBRDCST	V03-001	996	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:18	VAX-11 Macro V03-00
SYSCANCEL	V03-000	303	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:19	VAX-11 Macro V03-00
SYSCANMVT	V03-000	61	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:20	VAX-11 Macro V03-00
SYSCHGMOD	V03-000	49	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:20	VAX-11 Macro V03-00
SYS CREDEL	V03-001	1871	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:21	VAX-11 Macro V03-00
SYS CREPRC	V03-001	1462	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:22	VAX-11 Macro V03-00
SYS CRMPSC	V03-001	2892	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:23	VAX-11 Macro V03-00
SYS CRTIM	V03-001	1100	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:25	VAX-11 Macro V03-00
SYS DASSGN	V03-000	272	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:25	VAX-11 Macro V03-00
SYS DCLCMH	V03-000	67	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:26	VAX-11 Macro V03-00
SYS DCLLEXH	V03-000	116	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:26	VAX-11 Macro V03-00
SYS DELPRC	V03-001	1163	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:27	VAX-11 Macro V03-00
SYS DERLMB	V03-000	58	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:28	VAX-11 Macro V03-00
SYS DEVALC	V03-001	454	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:28	VAX-11 Macro V03-00
SYS DGBLSC	V03-001	936	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:29	VAX-11 Macro V03-00
SYS ENQDEQ	V03-002	2549	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:30	VAX-11 Macro V03-00
SYS EVTSRV	V03-000	159	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:31	VAX-11 Macro V03-00
SYS EXIT	V03-000	116	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:32	VAX-11 Macro V03-00
SYS FAO	V03-000	921	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:32	VAX-11 Macro V03-00
SYS FORCEX	V03-000	69	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:33	VAX-11 Macro V03-00
SYS GETDEV	V03-000	1210	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:33	VAX-11 Macro V03-00
SYS GETMSG	V03-004	814	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:34	VAX-11 Macro V03-00
SYS GETJPI	V03-005	1882	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:35	VAX-11 Macro V03-00
SYS GETPTI	V03-000	218	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:36	VAX-11 Macro V03-00
SYS GETSYI	V03-006	327	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:37	VAX-11 Macro V03-00
SYS GETTIM	V03-001	45	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:37	VAX-11 Macro V03-00
SYS IMGACT	V03-006	5934	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:37	VAX-11 Macro V03-00
SYS IMGSTA	V03-000	439	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:40	VAX-11 Macro V03-00
SYS LKHWSET	V03-001	675	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:40	VAX-11 Macro V03-00
SYS LOGNAM	V03-000	485	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:41	VAX-11 Macro V03-00
SYS MAILBX	V03-002	1124	└DRA7:[SYS,OBJ]SYS,OLB;1	27-APR-1982 02:42	VAX-11 Macro V03-00

Module Name	Ident	Bytes	File	Creation Date	Creator
-----	-----	-----	-----	-----	-----
SYSPCCTRL	V03-001	461	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:43	VAX-11 Macro V03-00
SYSPURGWS	V03-000	264	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:43	VAX-11 Macro V03-00
SYSPUTMSG	V03-000	596	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:44	VAX-11 Macro V03-00
OPENMSG	V03-000	562	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:44	VAX-11 Macro V03-00
SYSQIOFDT	V03-001	607	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:44	VAX-11 Macro V03-00
SYSRUNDWN	V03-003	571	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:46	VAX-11 Macro V03-00
SYSSCHEVT	V03-000	358	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:47	VAX-11 Macro V03-00
SYSQIOREQ	V03-000	920	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:45	VAX-11 Macro V03-00
SYSSETEXV	V03-000	67	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:48	VAX-11 Macro V03-00
SYSSETMOD	V03-000	53	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:49	VAX-11 Macro V03-00
SYSSETPFM	V03-000	784	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:48	VAX-11 Macro V03-00
SYSSETPRA	V03-000	165	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:49	VAX-11 Macro V03-00
SYSSETPRI	V03-000	130	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:50	VAX-11 Macro V03-00
SYSSETPRT	V03-000	338	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:51	VAX-11 Macro V03-00
SYSSETPRV	V03-000	222	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:51	VAX-11 Macro V03-00
SYSSETSSF	V03-000	29	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:52	VAX-11 Macro V03-00
SYSSETSTK	V03-000	82	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:52	VAX-11 Macro V03-00
SYSNDMSG	V03-001	613	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:52	VAX-11 Macro V03-00
SYSUNWIND	V03-000	322	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:53	VAX-11 Macro V03-00
SYSUPDSEC	V03-000	1235	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:53	VAX-11 Macro V03-00
SYSWAIT	V03-000	228	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:55	VAX-11 Macro V03-00
SYSSETIME	V03-002	668	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:48	VAX-11 Macro V03-00
SMMGSDRTN	V03-002	2476	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:04	VAX-11 Macro V03-00
DRINTHAND	V03-000	29	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:17	VAX-11 Macro V03-00
MBAINTDSP	V03-000	168	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:37	VAX-11 Macro V03-00
MBDRIVER	V03-001	1088	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:38	VAX-11 Macro V03-00
NLDRIVER	V03-000	153	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:43	VAX-11 Macro V03-00
MTFDT	V03-000	33	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:42	VAX-11 Macro V03-00
CONINTDSP	V03-001	731	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:09	VAX-11 Macro V03-00
COMDRVSUB	V03-001	753	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:12	VAX-11 Macro V03-00
MAHANDLER	V03-001	799	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:36	VAX-11 Macro V03-00
XDSTRING	V03-000	496	△DRA7:[SYS.OBJ]DELTA.OLB;1	26-APR-1982 18:06	VAX-11 Macro V03-00
VERSION	X1JY	47	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:12	VAX-11 Macro V03-00
DEVICEDAT	V03-000	1564	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:15	VAX-11 Macro V03-00
HDATA_END	V03-000	108	△DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:39	VAX-11 Macro V03-00
SYSSTODEF	V03-000	0	△DRA7:[SYSLIB]STARLET.OLB;2	27-APR-1982 01:28	VAX-11 Macro V03-00
LIBMSGDEF	1-003	0	△DRA7:[SYSLIB]STARLET.OLB;2	26-APR-1982 19:34	VAX-11 Macro V03-00
SYSRDEF	V03-000	0	△DRA7:[SYSLIB]STARLET.OLB;2	27-APR-1982 01:55	VAX-11 Macro V03-00
RMSGGLOBALS	V03-001	0	△DRA7:[SYSLIB]STARLET.OLB;2	26-APR-1982 22:23	VAX-11 Macro V03-00
SYSRSSDEF	V03-000	0	△DRA7:[SYSLIB]STARLET.OLB;2	27-APR-1982 02:05	VAX-11 Macro V03-00
SYSRSP1_VECTOR	V03-001	0	△DRA7:[SYSLIB]STARLET.OLB;2	27-APR-1982 01:45	VAX-11 Macro V03-00

```

+-----+
| Image Section Synopsis |
+-----+

```

Cluster	Type	Pages	Base Addr	Disk VBN	PFC	Protection and Paging	Global Sec. Name	Match	MajorId	MinorId
-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----
DEFAULT_CLUSTER	0	245	80000000	2	0	READ ONLY				

Key for special characters above:

```

+-----+
| R = Relocatable |
| P = Protected   |
+-----+

```

┌-----┐
 | Program Section Synopsis |
 └-----┘

Psect Name	Module Name	Base	End	Length	Align	Attributes
333000	CMOD8SDSP	80000000 80000000	800007FF 800007FF	00000800 () 00000800 ()	2048.) QUAD 3 2048.) QUAD 3	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
333000ENDVEC	MDAT	80000800 80000800	80000800 80000800	00000000 () 00000000 ()	0.) PAGE 9 0.) PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
333000PH8	PMSDAT	80000800 80000800	8000094B 8000094B	0000014C () 0000014C ()	332.) PAGE 9 332.) PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
333000_STACKS	PDAT	80000950 80000950	80000C4F 80000C4F	00000300 () 00000300 ()	768.) QUAD 3 768.) QUAD 3	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
333025	BUGCHECK	80000C50 80000C50	80000C57 80000C57	00000008 () 00000008 ()	8.) BYTE 0 8.) BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
333100	DEVICEDAT	80000C58 80000C58	80001273 80001273	0000061C () 0000061C ()	1564.) QUAD 3 1564.) QUAD 3	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
333105_PROLOGUE	MBDRIVER NLDRIVER CONINTDSP	80001274 80001274 800012AD 800012E6	8000131E 800012AC 800012E5 8000131E	000000AB () 00000039 () 00000039 () 00000039 ()	171.) BYTE 0 57.) BYTE 0 57.) BYTE 0 57.) BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
333110_BEGDRIVE	MDAT	80001320 80001320	80001320 80001320	00000000 () 00000000 ()	0.) LONG 2 0.) LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
333115_DRIVER	DRINTHAND MBAINTDSP MBDRIVER NLDRIVER CONINTDSP MAHANDLER	80001320 80001320 8000133D 800013E8 800017F0 80001850 80001AB6	80001DD4 8000133C 800013E4 800017EE 8000184F 80001AB5 80001DD4	000000AB5 () 0000001D () 000000A8 () 00000407 () 00000060 () 00000266 () 0000031F ()	2741.) LONG 2 29.) BYTE 0 168.) BYTE 0 1031.) LONG 2 96.) LONG 2 614.) LONG 2 799.) BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
333120_ENDDRIVE	MDAT	80001DD8 80001DD8	80001DD8 80001DD8	00000000 () 00000000 ()	0.) LONG 2 0.) LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
333210	ALLOCPFN PAGEFAULT WRTMFYPAG SYSINGACT SYSLKWSET	80001DD8 80001DD8 80001E20 80001E60 80001E6C 80001E70	80001E73 80001E1F 80001E5F 80001E6B 80001E6F 80001E73	0000009C () 00000048 () 00000040 () 0000000C () 00000004 () 00000004 ()	156.) LONG 2 72.) LONG 2 64.) LONG 2 12.) LONG 2 4.) LONG 2 4.) LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
333215	SYSSETPFM	80001E74 80001E74	80001E7F 80001E7F	0000000C () 0000000C ()	12.) LONG 2 12.) LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
333220		80001E80	800021B3	00000334 ()	820.) LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC

Paect Name	Module Name	Base	End	Length	Align	Attributes			
-----	-----	---	---	----	----	-----			
SSS220		80001E80	80002183	00000334 (	820.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	SDAT	80001E80	80002158	000002D9 (	729.)	LONG 2			
	OSWPSCHED	8000215C	8000215F	00000004 (	4.)	LONG 2			
	PAGEFILE	80002160	80002180	0000002E (	46.)	LONG 2			
	POWERFAIL	80002190	80002197	00000008 (	8.)	LONG 2			
	SWAPPER	80002198	80002183	0000001C (	28.)	LONG 2			
SSS222		800021B4	800021D3	00000020 (	32.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	MDAT	800021B4	800021D3	00000020 (	32.)	LONG 2			
SSS230		800021D8	800026AF	000004D8 (	1240.)	QUAD 3	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	PDAT	800021D8	800026AF	000004D8 (	1240.)	QUAD 3			
SSS250		800026B0	800026EB	0000003C (	60.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	CONINTDSP	800026B0	800026EB	0000003C (	60.)	LONG 2			
SSS260		800026F0	80002DA3	000006B4 (	1716.)	QUAD 3	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	SYSCOMMON	800026F0	8000298F	000002A0 (	672.)	QUAD 3			
	ERRORLOG	80002990	80002DA3	00000414 (	1044.)	QUAD 3			
SSS270NP		80002DA4	80002E84	000000E1 (	225.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	PMSDAT	80002DA4	80002E84	000000E1 (	225.)	LONG 2			
SSS500		80002E88	80002FAF	00000128 (	296.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	SYSLOAVEC	80002E88	80002F1C	00000095 (	149.)	LONG 2			
	SCSVEC	80002F20	80002FAF	00000090 (	144.)	LONG 2			
SSS890_PATCH_NONPGD_DATA		80002FB0	800031AF	00000200 (	512.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	MDAT	80002FB0	800031AF	00000200 (	512.)	LONG 2			
SSS900		80003200	80003200	00000000 (	0.)	PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	MDAT	80003200	80003200	00000000 (	0.)	PAGE 9			
SSS917		80003200	80003533	00000334 (	820.)	PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	SYSPARAM	80003200	80003533	00000334 (	820.)	PAGE 9			
SSS999		80003600	80003600	00000000 (	0.)	PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	MDAT	80003600	80003600	00000000 (	0.)	PAGE 9			
SAAEXENONPAGED		80003600	80003890	00000291 (	657.)	PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	POWERFAIL	80003600	80003890	00000291 (	657.)	PAGE 9			
SAEXENONPAGED		80003894	80005007	00001774 (	6004.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	BUGCHECK	80003894	80003A26	00000193 (	403.)	BYTE 0			
	IOPERFORM	80003A27	80003B73	0000014D (	333.)	BYTE 0			
	CONSOLIO	80003B74	80003B83	00000010 (	16.)	BYTE 0			
	ERRORLOG	80003B84	80003C42	000000BF (	191.)	LONG 2			
	EXCEPTION	80003C44	80003E67	00000224 (	548.)	LONG 2			
	INIT	80003E68	80003E6E	00000007 (	7.)	LONG 2			
	IOCIPOST	80003E70	800044BF	00000650 (	1616.)	LONG 2			
	POWERFAIL	800044C0	8000452F	00000070 (	112.)	LONG 2			
	SWAPPER	80004530	80005007	00000AD8 (	2776.)	BYTE 0			

Psect Name	Module Name	Base	End	Length	Align	Attributes	
-----	-----	----	---	-----	----	-----	
SMMGSCOD	PAGEFAULT	80005008	800058EA	00000BE3 (3043.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80005008	800058EA	00000BE3 (	3043.)	LONG 2
SMMGCOD	ALLOCPFN	800058EB	80007861	00001C77 (7287.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	IOLOCK	800058EB	80005E34	0000024A (	586.)	BYTE 0
	PAGEFILE	80005E35	800060AB	00000277 (	631.)	BYTE 0
	PHDUTL	800060AC	80006377	000002CC (	716.)	BYTE 0
	SVAPTE	80006378	800064E6	0000016F (	367.)	BYTE 0
	WRTMFYPAG	800064E7	80006556	00000070 (	112.)	BYTE 0
	SYSADJWSL	80006557	80006968	00000412 (	1042.)	BYTE 0
	SYSCREDEL	80006969	80006A29	000000C1 (	193.)	BYTE 0
	SYSDGBLSC	80006A2A	80006D96	0000036D (	877.)	BYTE 0
	SYSGETPTI	80006D97	80006E75	000000DF (	223.)	BYTE 0
	SYSIMGACT	80006E76	80006F2F	000000BA (	186.)	BYTE 0
	SYSLKWSET	80006F30	80006FE3	000000B4 (	180.)	BYTE 0
	SYSSETPR	80006FE4	800071D7	000001F4 (	500.)	BYTE 0
	SYSUPDSEC	800071D8	8000729F	000000C8 (	200.)	BYTE 0
	SMMGSDRTN	800072A0	800073B0	00000111 (	273.)	BYTE 0
		800073B1	80007711	00000361 (	865.)	BYTE 0
		80007712	80007861	00000150 (	336.)	BYTE 0
SOSWPSCHED	OSWPSCHED	80007862	80007A6C	00000208 (523.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80007862	80007A6C	00000208 (	523.)	BYTE 0
SZBUGFATAL	BUGCHECK	80007A6E	80007A6E	00000000 (0.)	WORD 1	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80007A6E	80007A6E	00000000 (	0.)	WORD 1
. BLANK .	MDAT	80007A6E	80008A2B	00000FBE (4030.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	PDAT	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	PMSDAT	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	SHELL	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	SDAT	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	SYSCOMMON	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	SYSLOAVEC	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	SCSVEC	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	ACCOUNT	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	ALLOCPFN	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	ASTDEL	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	BOOPARAM	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	BUFFERCTL	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	BUGCHECK	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	BUGCHKMSG	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	IOPERFORM	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	CONSOLIO	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	CMODSSDSP	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	CVT_ATB	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	CVTFILNAM	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	DEADLOCK	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	DISMOUNT	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	ERRORLOG	80007A6E	80007A6E	00000000 (	0.)	BYTE 0

Psect Name	Module Name	Base	End	Length	Align	Attributes
-----	-----	----	---	-----	-----	-----
. BLANK .		80007A6E	80008A2B	00000FBE (	4030.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	EXCEPTION	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	EXCEPTMSG	80007A6E	80007A6E	00000000 (	0.)	BYTE 0
	EXSUBROUT	80007A6E	80007B05	00000098 (	152.)	BYTE 0
	FILEREAD	80007B06	80007B06	00000000 (	0.)	BYTE 0
	FILERWIO	80007B06	80007B06	00000000 (	0.)	BYTE 0
	FORKCNTRL	80007B06	80007B06	00000000 (	0.)	BYTE 0
	GLOBALS	80007B06	80007B06	00000000 (	0.)	BYTE 0
	IMGACTSUB	80007B06	80007B06	00000000 (	0.)	BYTE 0
	INIT	80007B06	80007B06	00000000 (	0.)	BYTE 0
	INITVEC	80007B06	80007B06	00000000 (	0.)	BYTE 0
	RELOCDRV	80007B06	80007B06	00000000 (	0.)	BYTE 0
	IOCIOPST	80007B06	80007B06	00000000 (	0.)	BYTE 0
	IOLOCK	80007B06	80007B06	00000000 (	0.)	BYTE 0
	IOSUBNPAG	80007B06	80007B06	00000000 (	0.)	BYTE 0
	IOSUBPAGD	80007B06	80007B06	00000000 (	0.)	BYTE 0
	IOSUBRAMS	80007B06	80007B06	00000000 (	0.)	BYTE 0
	LOADMREG	80007B06	80007B06	00000000 (	0.)	BYTE 0
	LOGNAMSUB	80007B06	80007B06	00000000 (	0.)	BYTE 0
	MEMORYALC	80007B06	80007B06	00000000 (	0.)	BYTE 0
	MOUNTVER	80007B06	80007B06	00000000 (	0.)	BYTE 0
	IPCONTROL	80007B06	80007B06	00000000 (	0.)	BYTE 0
	MUTEX	80007B06	80007B06	00000000 (	0.)	BYTE 0
	NULLPROC	80007B06	80007B07	00000002 (	2.)	BYTE 0
	OSWPSCHED	80007B08	80007B08	00000000 (	0.)	BYTE 0
	PAGEFAULT	80007B08	80007B08	00000000 (	0.)	BYTE 0
	PAGEFILE	80007B08	80007B08	00000000 (	0.)	BYTE 0
	PHOUTL	80007B08	80007B08	00000000 (	0.)	BYTE 0
	POSTEF	80007B08	80007B08	00000000 (	0.)	BYTE 0
	POWERFAIL	80007B08	80007B08	00000000 (	0.)	BYTE 0
	PROCSTRT	80007B08	80007B08	00000000 (	0.)	BYTE 0
	RMSRESET	80007B08	80007B08	00000000 (	0.)	BYTE 0
	RSE	80007B08	80007B08	00000000 (	0.)	BYTE 0
	SCHED	80007B08	80007B08	00000000 (	0.)	BYTE 0
	SVAPTE	80007B08	80007B08	00000000 (	0.)	BYTE 0
	SWAPPER	80007B08	80007B08	00000000 (	0.)	BYTE 0
	SYSPARAM	80007B08	80007B08	00000000 (	0.)	BYTE 0
	TIMESCHDL	80007B08	80007B08	00000000 (	0.)	BYTE 0
	WRMFPYAG	80007B08	80007B08	00000000 (	0.)	BYTE 0
	XDELTA	80007B08	80007B08	00000000 (	0.)	BYTE 0
	SYSADJWSL	80007B08	80007B08	00000000 (	0.)	BYTE 0
	SYSADJSTK	80007B08	80007B08	00000000 (	0.)	BYTE 0
	SYSACPFDT	80007B08	80007EE1	000003DA (	986.)	BYTE 0
	SYSASCFC	80007EE2	80007EFF	0000001E (	30.)	BYTE 0
	SYSASSIGN	80007F00	80007F00	00000000 (	0.)	BYTE 0
	SYSASTCON	80007F00	80007F00	00000000 (	0.)	BYTE 0
	SYSBRDCST	80007F00	80007F00	00000000 (	0.)	BYTE 0
	SYSANCEL	80007F00	8000802E	0000012F (	303.)	BYTE 0
	SYSANCEVT	8000802F	8000806A	0000003D (	61.)	BYTE 0
	SYSCHGMOD	8000806C	8000809C	00000031 (	49.)	BYTE 0
	SYSCREDEL	8000809D	8000809D	00000000 (	0.)	BYTE 0
	SYSCREPRC	8000809D	8000809D	00000000 (	0.)	BYTE 0

Psect Name	Module Name	Base	End	Length	Align	Attributes
-----	-----	----	---	-----	-----	-----
. BLANK .						
	SYSCRMPS	80007A6E	80008A2B	00000FBE (	4030.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	SYSCVRTIM	8000809D	8000809D	00000000 (	0.)	BYTE 0
	SYSDASSGN	8000809D	800081AC	00000110 (	272.)	BYTE 0
	SYSDCLCMH	800081AD	800081AD	00000000 (	0.)	BYTE 0
	SYSDCLEXH	800081AD	800081AD	00000000 (	0.)	BYTE 0
	SYSDELPRC	800081AD	800081AD	00000000 (	0.)	BYTE 0
	SYSDELRMB	800081AD	800081E6	0000003A (	50.)	BYTE 0
	SYSDEVALC	800081E7	800081E7	00000000 (	0.)	BYTE 0
	SYSDGBL3C	800081E7	800081E7	00000000 (	0.)	BYTE 0
	SYSENGDEQ	800081E7	800081E7	00000000 (	0.)	BYTE 0
	SYSSEVTSRV	800081E7	800081E7	00000000 (	0.)	BYTE 0
	SYSEXIT	800081E7	800081E7	00000000 (	0.)	BYTE 0
	SYSFAO	800081E7	800081E7	00000000 (	0.)	BYTE 0
	SYSFORCEX	800081E7	8000822B	00000045 (	69.)	BYTE 0
	SYSGETDEV	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSGETMSG	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSGETJPI	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSGETPTI	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSGETSYI	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSGETTIM	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSIMGACT	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSIMGSTA	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSLKWSET	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSLOGNAM	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSMAILBX	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSPCNTRL	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSPURGWS	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSPUTMSG	8000822C	8000822C	00000000 (	0.)	BYTE 0
	OPENMSG	8000822C	8000822C	00000000 (	0.)	BYTE 0
	SYSQIOFDT	8000822C	8000848A	0000025F (	607.)	BYTE 0
	SYSRUNDWN	8000848B	8000848B	00000000 (	0.)	BYTE 0
	SYSSCHEVT	8000848B	800085F0	00000166 (	358.)	BYTE 0
	SYSQIOREQ	800085F1	80008988	00000398 (	920.)	BYTE 0
	SYSSETEXV	80008989	80008989	00000000 (	0.)	BYTE 0
	SYSSETMOD	80008989	80008989	00000000 (	0.)	BYTE 0
	SYSSETPFM	80008989	80008989	00000000 (	0.)	BYTE 0
	SYSSETPRA	80008989	80008989	00000000 (	0.)	BYTE 0
	SYSSETPRI	80008989	80008A0A	00000082 (	130.)	BYTE 0
	SYSSETPRT	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	SYSSETPRV	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	SYSSETSSF	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	SYSSETSTK	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	SYSNDMSG	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	SYSUNWIND	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	SYSUPDSEC	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	SYSWAIT	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	SYSSETIME	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	SHMGSDRTN	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	DRINTHAND	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	MBAINTDSP	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	MBDRIVER	80008A0B	80008A0B	00000000 (	0.)	BYTE 0

Paect Name	Module Name	Base	End	Length	Align	Attributes
-----	-----	----	----	-----	----	-----
. BLANK .		80007A6E	80008A2B	00000FBE (	4030.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	NLDRIVER	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	MTFDT	80008A0B	80008A2B	00000021 (	33.)	BYTE 0
	CONINTDSP	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	COMDRVSUB	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	MAHANDLER	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	XDSTRNG	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	VERSION	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	DEVICEDAT	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	MDAT_END	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	SYS\$IODEF	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	LIB\$MSGDEF	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	SYS\$PRDEF	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	RMS\$GLOBALS	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	SYS\$S\$DEF	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	SYS\$P1_VECTOR	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
ASEXENONPAGED		80008A2C	80008F9C	00000571 (	1393.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	ASTDEL	80008A2C	80008CC0	00000295 (	661.)	LONG 2
	FORKCNTRL	80008CC4	80008D3F	0000007C (	124.)	LONG 2
	TIMESCHDL	80008D40	80008F9C	0000025D (	605.)	LONG 2
AE81		80008F9D	8000925A	000002BE (	702.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	RSE	80008F9D	8000925A	000002BE (	702.)	BYTE 0
AE82		8000925B	80009286	0000002C (	44.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	RSE	8000925B	80009286	0000002C (	44.)	BYTE 0
AEXENONPAGED		80009288	8000A32A	000010A3 (	4259.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	SHELL	80009288	80009288	00000004 (	4.)	BYTE 0
	EXSUBROUT	8000928C	8000936D	000000E2 (	226.)	BYTE 0
	MEMORYALC	8000936E	800097C0	00000453 (	1107.)	BYTE 0
	MUTEX	800097C1	800098DC	0000011C (	284.)	BYTE 0
	POSTEF	800098DD	80009A3F	00000163 (	355.)	BYTE 0
	PROCSTRT	80009A40	80009A50	00000011 (	17.)	BYTE 0
	SCHED	80009A54	80009ACA	00000077 (	119.)	LONG 2
	SYSASCEFC	80009ACB	80009B17	0000004D (	77.)	BYTE 0
	SYSBRDCST	80009B18	80009EFB	000003E4 (	996.)	BYTE 0
	SYSDELPRC	80009EFC	80009F49	0000004E (	78.)	BYTE 0
	SYSEVTSRV	80009F4A	80009FE8	0000009F (	159.)	BYTE 0
	SYSGETJPI	80009FE9	80009FEF	00000007 (	7.)	BYTE 0
	SYSPCNTRL	80009FF0	8000A1BC	000001CD (	461.)	BYTE 0
	SYSSETPFM	8000A1C0	8000A246	00000087 (	135.)	LONG 2
	SYSWAIT	8000A247	8000A32A	000000E4 (	228.)	BYTE 0
LOCKMGR		8000A32C	8000AC96	0000096B (	2411.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	DEADLOCK	8000A32C	8000A53F	00000214 (	532.)	BYTE 0
	SYSENGDEG	8000A540	8000AC96	00000757 (	1879.)	LONG 2
WIONONPAGED		8000AC98	8000C2A9	00001612 (	5650.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	BUFFERCTL	8000AC98	8000AD18	00000081 (	129.)	BYTE 0
	ERRORLOG	8000AD19	8000AFF4	000002DC (	732.)	BYTE 0

Paect Name	Module Name	Base	End	Length	Align	Attributes
-----	-----	----	---	-----	----	-----
WIONONPAGED		8000AC98	8000C2A9	00001612 (	5650.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	IOSUBNPAG	8000AFF5	8000B6D7	000006E3 (	1763.)	BYTE 0
	IOSUBRAMS	8000B6D8	8000B874	0000019D (	413.)	BYTE 0
	LOADMREG	8000B875	8000BA04	00000190 (	400.)	BYTE 0
	MOUNTVER	8000BA05	8000BD6E	0000036A (	874.)	BYTE 0
	IPCONTROL	8000BD70	8000BF70	00000201 (	513.)	LONG 2
	SYSDEVALC	8000BF71	8000BFB8	00000048 (	72.)	BYTE 0
	COMDRVSUB	8000BFB9	8000C2A9	000002F1 (	753.)	BYTE 0
WMOUNTVERMSG		8000C2AA	8000C3FB	00000152 (	338.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	MOUNTVER	8000C2AA	8000C38A	000000E1 (	225.)	BYTE 0
	IPCONTROL	8000C38B	8000C3FB	00000071 (	113.)	BYTE 0
XDELTA		8000C3FC	8000C451	00000056 (	86.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	INIT	8000C3FC	8000C451	00000056 (	86.)	BYTE 0
X_PATCH_NONPGD_CODE		8000C452	8000C651	00000200 (	512.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	MDAT	8000C452	8000C651	00000200 (	512.)	BYTE 0
YSSSBEGIN_PAGEDCODE		8000C800	8000C800	00000000 (	0.)	PAGE 9 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	SYSPARAM	8000C800	8000C800	00000000 (	0.)	PAGE 9
YSSSPATCH_EXTEND_CODE		8000C800	8000CFFF	00000600 (	1536.)	PAGE 9 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	MDAT	8000C800	8000CFFF	00000600 (	1536.)	PAGE 9
YSCMODE		8000CE00	8000CEF8	000000F9 (	249.)	QUAD 3 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	CMODSSDSP	8000CE00	8000CEF8	000000F9 (	249.)	QUAD 3
YSCMODEN		8000CEF9	8000CF20	00000028 (	40.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	CMODSSDSP	8000CEF9	8000CF20	00000028 (	40.)	BYTE 0
YSCMODEX		8000CF21	8000CF48	00000028 (	40.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	CMODSSDSP	8000CF21	8000CF48	00000028 (	40.)	BYTE 0
YSCMODK		8000CF50	8000D167	00000218 (	536.)	QUAD 3 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	CMODSSDSP	8000CF50	8000D167	00000218 (	536.)	QUAD 3
YSCMODKN		8000D168	8000D18A	00000053 (	83.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	CMODSSDSP	8000D168	8000D18A	00000053 (	83.)	BYTE 0
YSCMODKX		8000D18B	8000D20E	00000054 (	84.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	CMODSSDSP	8000D18B	8000D20E	00000054 (	84.)	BYTE 0
YSDISMOUNT		8000D20F	8000D3AF	000001A1 (	417.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	DISMOUNT	8000D20F	8000D3AF	000001A1 (	417.)	BYTE 0
YSEXEPAGED		8000D3B0	80011979	000045CA (	17866.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	EXSUBROUT	8000D3B0	8000D47D	000000CE (	206.)	BYTE 0
	IMGACTSUB	8000D47E	8000D4AC	0000002F (	47.)	BYTE 0
	IOSUBPAGD	8000D4AD	8000D7AD	00000301 (	769.)	BYTE 0
	LOGNAMSUB	8000D7AE	8000D9A1	000001F4 (	500.)	BYTE 0
	PHOUTL	8000D9A2	8000DC18	0000027A (	634.)	BYTE 0

Object Name	Module Name	Base	End	Length	Align	Attributes
-----	-----	----	---	-----	----	-----
YSEXEPAGED	RMSRESET	8000D3B0	80011979	000045CA (	17866.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	SYSADJWSL	8000DC1C	8000DC5C	00000041 (	65.)	BYTE 0
	SYSADJSTK	8000DD3C	8000DDA6	0000006B (	107.)	BYTE 0
	SYSASCEFC	8000DDA7	8000E2A2	000004FC (	1276.)	BYTE 0
	SYSASSIGN	8000E2A3	8000E4E3	00000241 (	577.)	BYTE 0
	SYSASTCON	8000E4E4	8000E543	00000060 (	96.)	BYTE 0
	SYSCREDEL	8000E544	8000E913	000003D0 (	976.)	BYTE 0
	SYSREPRC	8000E914	8000EEC9	000005B6 (	1462.)	BYTE 0
	SYSRCMPSC	8000EECA	8000EED3	0000000A (	10.)	BYTE 0
	SYSCVRTIM	8000EED4	8000F31F	0000044C (	1100.)	BYTE 0
	SYSDCCLMH	8000F320	8000F362	00000043 (	67.)	BYTE 0
	SYSDCLEXH	8000F363	8000F3D6	00000074 (	116.)	BYTE 0
	SYSDELPRC	8000F3D7	8000F813	0000043D (	1085.)	BYTE 0
	SYSDEVALC	8000F814	8000F991	0000017E (	382.)	BYTE 0
	SYSDBGLSC	8000F992	8000FC5A	000002C9 (	713.)	BYTE 0
	SYSFA0	8000FC5B	8000FFF3	00000399 (	921.)	BYTE 0
	SYSGETDEV	8000FFF4	800104AD	000004BA (	1210.)	BYTE 0
	SYSGETPTI	800104AE	800104CD	00000020 (	32.)	BYTE 0
	SYSIMGACT	800104CE	800104D2	00000005 (	5.)	BYTE 0
	SYSLKWSET	800104D3	8001055F	0000008D (	141.)	BYTE 0
	SYSLOGNAM	80010560	80010744	000001E5 (	485.)	BYTE 0
	SYSMAILBX	80010745	800108A8	00000464 (	1124.)	BYTE 0
	SYSPURGWS	800108A9	80010BE8	00000040 (	64.)	BYTE 0
	SYSSETEXV	80010BE9	80010C2B	00000043 (	67.)	BYTE 0
	SYSSETMOD	80010C2C	80010C60	00000035 (	53.)	BYTE 0
	SYSSETPRA	80010C61	80010D05	000000A5 (	165.)	BYTE 0
	SYSSETPRT	80010D06	80010D46	00000041 (	65.)	BYTE 0
	SYSNDMSG	80010D47	80010FAB	00000265 (	613.)	BYTE 0
	SYSUPDSEC	80010FAC	8001111D	00000172 (	370.)	BYTE 0
	SHMGSDRTN	8001111E	80011979	0000085C (	2140.)	BYTE 0
YLOWUSE	PAGEFILE	8001197A	800119AD	00000034 (	52.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		8001197A	800119AD	00000034 (	52.)	BYTE 0
YCVTATB	CVT,ATB	800119AE	80011A27	0000007A (	122.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		800119AE	80011A27	0000007A (	122.)	BYTE 0
YEXEPAGED	SYSENQDEQ	80011A28	80012E17	000013F0 (	5104.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	YSSEXIT	80011A28	80011CC5	0000029E (	670.)	BYTE 0
	SYSGETMSG	80011CC6	80011D39	00000074 (	116.)	BYTE 0
	SYSGETJPI	80011D3A	80012067	0000032E (	814.)	BYTE 0
	SYSGETSYI	80012068	8001206C	00000005 (	5.)	BYTE 0
	SYSGETTIM	8001206D	800121B3	00000147 (	327.)	BYTE 0
	SYSPUTMSG	800121B4	800121E0	0000002D (	45.)	BYTE 0
	SYSRUNDWN	800121E1	80012434	00000254 (	596.)	BYTE 0
	SYSSETPFM	80012435	8001266F	00000238 (	571.)	BYTE 0
	SYSSETPRV	80012670	800128EC	0000027D (	637.)	LONG 2
	SYSSETSSF	800128ED	800129CA	000000DE (	222.)	BYTE 0
	SYSSETSTK	800129CB	800129E7	0000001D (	29.)	BYTE 0
	SYSUNWIND	800129E8	80012A39	00000052 (	82.)	BYTE 0
		80012A3A	80012B7B	00000142 (	322.)	BYTE 0

Paect Name	Module Name	Base	End	Length	Align	Attributes			
-----	-----	----	---	-----	----	-----			
YEXEPAGED	SYSSETIME	80011A28	80012E17	000013F0 (	5104.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
		80012B7C	80012E17	0000029C (	668.)	BYTE 0			
YEXEPAGED1	EXCEPTION	80012E18	80013297	00000480 (	1152.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
		80012E18	80013297	00000480 (	1152.)	LONG 2			
YEXEPAGED2	EXCEPTMSG	80013298	800138F1	0000095A (	2394.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	PROCSTRY	80013298	800134F6	0000025F (	607.)	BYTE 0			
	OPENMSG	800134F7	8001398F	000004C9 (	1225.)	BYTE 0			
		800139C0	800138F1	00000232 (	562.)	BYTE 0			
YFSSSPATCH_PAGED_CODE	MDAT	800138F4	80013FF3	00000400 (	1024.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
		800138F4	80013FF3	00000400 (	1024.)	LONG 2			
YFSSSYSRMP8C	SYSRMP8C	80013FF4	80014B35	00000842 (	2882.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
		80013FF4	80014B35	00000842 (	2882.)	BYTE 0			
YFSSSYSGETJPI	SYSGETJPI	80014836	80015283	0000074E (	1870.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
		80014836	80015283	0000074E (	1870.)	BYTE 0			
YFSSSYSIMGACT	IMGACTSUB	80015284	800166D6	00001453 (	5203.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	SYSIMGACT	80015284	800154CF	0000024C (	508.)	BYTE 0			
		800154D0	800166D6	00001207 (	4615.)	BYTE 0			
YFSSSYSIMGSTA	SYSIMGSTA	800166D7	8001688D	000001B7 (	439.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
		800166D7	8001688D	000001B7 (	439.)	BYTE 0			
YFSLOWUSE	ACCOUNT	8001688E	80016EE8	00000658 (	1627.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	SWAPPER	8001688E	80016AED	00000260 (	608.)	BYTE 0			
	SYSIMGACT	80016AEE	80016C0A	0000011D (	285.)	BYTE 0			
		80016C0B	80016EE8	000002DE (	734.)	BYTE 0			
YFILEREAD	CVTFILNAM	80016EE9	800179F3	00000808 (	2827.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
	FILEREAD	80016EE9	80016F8B	000000D3 (	211.)	BYTE 0			
	FILERWIO	80016F8C	80017836	00000878 (	2171.)	BYTE 0			
	SYSIMGACT	80017837	80017867	00000031 (	49.)	BYTE 0			
		80017868	800179F3	0000018C (	396.)	BYTE 0			
YYSHELLPAGED	SHELL	80017A20	800189FF	00001000 (	4096.)	PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
		80017A20	800189FF	00001000 (	4096.)	PAGE 9			
YZ99SPAGEDEND	MDAT	80018A00	80018A00	00000000 (	0.)	PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
		80018A00	80018A00	00000000 (	0.)	PAGE 9			
Z9DEBUGA	INIT	80018A00	80018A00	00000000 (	0.)	PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
		80018A00	80018A00	00000000 (	0.)	PAGE 9			
Z9DEBUGXDSTR	XDSTRING	80018A00	80018BEF	000001F0 (	496.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
		80018A00	80018BEF	000001F0 (	496.)	BYTE 0			
Z9DEBUG_CODE	XDELTA	80018BF0	8001AD0F	00002120 (	8480.)	LONG 2	PIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD, WRT,NOVEC
		80018BF0	80019657	00000A68 (	2664.)	LONG 2			

Paect Name	Module Name	Base	End	Length	Align	Attributes
-----	-----	----	----	-----	-----	-----
Z\$DEBUG_CODE		80018BF0	8001AD0F	00002120 (	8480.) LONG 2	PIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	LIBSINS_DECODE	80019658	80019D0E	000006B7 (	1719.) LONG 2	
	LIBSVAX_INST	80019D10	8001AD0F	00001000 (	4096.) LONG 2	
Z\$INIT	INIT	8001AE00	8001BEEE	000010EF (	4335.) PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		8001AE00	8001BEEE	000010EF (	4335.) PAGE 9	
Z\$INIT\$PFN_FIXUP_TABLE		8001BEEF	8001C074	00000186 (	390.) BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	MDAT	8001BEEF	8001BEEF	00000000 (	0.) BYTE 0	
	ALLOCPFN	8001BEEF	8001BF36	00000048 (	72.) BYTE 0	
	PAGEFAULT	8001BF37	8001BF6C	00000036 (	54.) BYTE 0	
	PHDUTL	8001BF6D	8001BF72	00000006 (	6.) BYTE 0	
	\$WAPPER	8001BF73	8001BFC6	00000054 (	84.) BYTE 0	
	WRTMFYPAG	8001BFC7	8001BFD8	00000012 (	18.) BYTE 0	
	SYSCREDEL	8001BFD9	8001BFEA	00000012 (	18.) BYTE 0	
	SYSLK\$SET	8001BFEB	8001C008	0000001E (	30.) BYTE 0	
	MDAT_END	8001C009	8001C074	0000006C (	108.) BYTE 0	
Z\$INIT00	INITVEC	8001C075	8001C07A	00000006 (	6.) BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		8001C075	8001C07A	00000006 (	6.) BYTE 0	
Z\$INIT000	INIT	8001C07C	8001C07C	00000000 (	0.) LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		8001C07C	8001C07C	00000000 (	0.) LONG 2	
Z\$INIT001	BOOPARAM	8001C07C	8001C0DB	00000060 (	96.) LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		8001C07C	8001C0DB	00000060 (	96.) LONG 2	
Z\$INITX	VERSION	8001C0DC	8001C10A	0000002F (	47.) BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		8001C0DC	8001C10A	0000002F (	47.) BYTE 0	
Z\$INIT_DRIVER	RELOCDRV	8001C10B	8001C1F4	000000EA (	234.) BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		8001C10B	8001C1F4	000000EA (	234.) BYTE 0	
Z\$INIT__BUGA	BUGCHECK	8001C200	8001C5CA	000003CB (	971.) PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		8001C200	8001C5CA	000003CB (	971.) PAGE 9	
Z\$INIT__BUGC	BUGCHECK	8001C5CB	8001C7CB	00000201 (	513.) BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	CONSOLIO	8001C5CB	8001C733	00000169 (	361.) BYTE 0	
		8001C734	8001C7CB	00000098 (	152.) BYTE 0	
Z\$INIT__BUGMSG	BUGCHKMSG	8001C7CC	8001E9C7	000021FC (	8700.) WORD 1	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		8001C7CC	8001E9C7	000021FC (	8700.) WORD 1	
Z\$INIT__BUGZEND	BUGCHECK	8001E9C8	8001E9C8	00000000 (	0.) WORD 1	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		8001E9C8	8001E9C8	00000000 (	0.) WORD 1	
Z\$SYSEND	MDAT_END	8001EA00	8001EA00	00000000 (	0.) PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		8001EA00	8001EA00	00000000 (	0.) PAGE 9	

┌-----┐
 | Symbol Cross Reference |
 └-----┘

Symbol	Value	Defined By	Referenced By ...
ACPSACCESS	8000780B-R	SYSACPFDT	
ACPSACCESSNET	80007810-R	SYSACPFDT	
ACPSDEACCESS	8000783C-R	SYSACPFDT	
ACPSGB└BASEPRIO	80003434-R	SYSPARAM	
ACPSGB└DATACHK	80003433-R	SYSPARAM	
ACPSGB└MAXREAD	80003430-R	SYSPARAM	
ACPSGB└SWAPFLGS	80003435-R	SYSPARAM	
ACPSGB└WINDOW	80003431-R	SYSPARAM	
ACPSGB└WRITBACK	80003432-R	SYSPARAM	
ACPSGW└DIRCACHE	80003422-R	SYSPARAM	
ACPSGW└EXTCACHE	80003428-R	SYSPARAM	
ACPSGW└EXTLIMIT	8000342A-R	SYSPARAM	
ACPSGW└FIDCACHE	80003426-R	SYSPARAM	
ACPSGW└HDRCACHE	80003420-R	SYSPARAM	
ACPSGW└MAPCACHE	8000341E-R	SYSPARAM	
ACPSGW└QUOCACHE	8000342C-R	SYSPARAM	
ACPSGW└SYSACC	8000342E-R	SYSPARAM	
ACPSGW└WORKSET	80003424-R	SYSPARAM	
ACPSMODIFY	80007891-R	SYSACPFDT	
ACPSMOUNT	80007899-R	SYSACPFDT	
ACPSREADBLK	800078B9-R	SYSACPFDT	
ACPSV└READCHK	00000000	SYSPARAM	
ACPSV└SWAPGRP	00000001	SYSPARAM	
ACPSV└SWAPMAG	00000003	SYSPARAM	
ACPSV└SWAPPRV	00000002	SYSPARAM	
ACPSV└SWAPSYS	00000000	SYSPARAM	
ACPSV└WRITECHK	00000001	SYSPARAM	
ACPSWRITEBLK	800078E8-R	SYSACPFDT	
ATS└UBA	00000001	SYS\$IODEF	CONINTDSP POWERFAIL
BOOSA└BOOPARAM	8001C07C-R	BOOPARAM	
BOOSC└BOOPARSZ	00000060	BOOPARAM	
BOOSC└SYSPARSZ	00000334	SYSPARAM	
BOOSGB└SYSTEMID	8001C0CA-R	BOOPARAM	INIT
BOOSGL└BOOTCB	8001C08C-R	BOOPARAM	INIT
BOOSGL└DSKDRV	8001C07C-R	BOOPARAM	INIT
BOOSGL└IRPCNT	8001C098-R	BOOPARAM	
BOOSGL└LRPCNT	8001C0A8-R	BOOPARAM	
BOOSGL└LRPMIN	8001C0A0-R	BOOPARAM	INIT
BOOSGL└LRPSIZE	8001C09C-R	BOOPARAM	INIT
BOOSGL└LRPSPLIT	8001C0A4-R	BOOPARAM	INIT
BOOSGL└NPAGEDYN	8001C090-R	BOOPARAM	INIT
BOOSGL└PRTDRV	8001C0D0-R	BOOPARAM	INIT
BOOSGL└SCSLOA	8001C0D8-R	BOOPARAM	INIT
BOOSGL└SPLITADR	8001C094-R	BOOPARAM	INIT
BOOSGL└SPTFREL	800034D0-R	SYSPARAM	INIT
BOOSGL└SPTFREL	800034CC-R	SYSPARAM	INIT
BOOSGL└SRPCNT	8001C0B0-R	BOOPARAM	
BOOSGL└SRPSPLIT	8001C0AC-R	BOOPARAM	INIT
			MBDRIVER
			NLDRIVER
			IOSUBNPAG
			IOSUBNPAG

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
BOO\$GL└SYSLOA	8001C080=R	BOOPARAM	INIT
BOO\$GL└TRMDRV	8001C084=R	BOOPARAM	INIT
BOO\$GL└UCODE	8001C0D4=R	BOOPARAM	INIT
BOO\$GQ└FILCACHE	8001C084=R	BOOPARAM	INIT
BOO\$GQ└INILOA	8001C088=R	BOOPARAM	INIT
BOO\$GT└TOPSYS	8001C0C0=R	BOOPARAM	INIT
BUG\$A└PAGED	8001C200=R	BUGCHECK	
BUG\$A└PAGEDEND	8001E9C8=R	BUGCHECK	
BUG\$FATAL	80007A6E=R	BUGCHECK	
BUG\$T└MESSAGES	8001C7CC=R	BUGCHKMSG	BUGCHECK
BUG\$└ACPMBFAIL	00000008	BUGCHKMSG	
BUG\$└ACPRECURS	00000488	BUGCHKMSG	
BUG\$└ACPUNSTAK	000004C0	BUGCHKMSG	
BUG\$└ACPVAFAIL	00000010	BUGCHKMSG	
BUG\$└ALCPHD	00000018	BUGCHKMSG	PHOUTL
BUG\$└ALCSMBCLR	00000020	BUGCHKMSG	
BUG\$└APTREFHIGH	00000028	BUGCHKMSG	SWAPPER
BUG\$└APTWRTRERR	00000030	BUGCHKMSG	SWAPPER
BUG\$└ASYNCRWTRER	00000038	BUGCHKMSG	
BUG\$└BADALORQSZ	00000040	BUGCHKMSG	MEMORYALC
BUG\$└BADBOOTCB	000000F0	BUGCHKMSG	SYSSETIME
BUG\$└BADBUFADR	00000048	BUGCHKMSG	
BUG\$└BADBUFTYP	00000050	BUGCHKMSG	
BUG\$└BADDALRQSZ	00000058	BUGCHKMSG	COMDRVSUB
BUG\$└BADFID	00000060	BUGCHKMSG	MEMORYALC
BUG\$└BADFORKIPL	00000068	BUGCHKMSG	
BUG\$└BADLCKWBLE	00000070	BUGCHKMSG	PAGEFAULT
BUG\$└BADMKCOD	00000078	BUGCHKMSG	
BUG\$└BADPAGFILA	00000080	BUGCHKMSG	PAGEFILE
BUG\$└BADPAGFILD	00000088	BUGCHKMSG	PAGEFILE
BUG\$└BADPAGTYPE	00000090	BUGCHKMSG	WRTMFYPAG
BUG\$└BADQHDR	00000478	BUGCHKMSG	MAHANDLER
BUG\$└BADRSEIPL	00000098	BUGCHKMSG	RSE
BUG\$└BADRVNVCB	000004C8	BUGCHKMSG	MEMORYALC
BUG\$└BADSBMBLK	000000A0	BUGCHKMSG	
BUG\$└BADSWPVBN	000000A8	BUGCHKMSG	WRTMFYPAG
BUG\$└BADWCBPT	000000B0	BUGCHKMSG	
BUG\$└BDPPURGERR	00000488	BUGCHKMSG	
BUG\$└BRDMSGLOST	000004A0	BUGCHKMSG	SYSBRDCST
BUG\$└CEBREFFNEG	00000498	BUGCHKMSG	SYSASCEFC
BUG\$└CHMONIS	000000B8	BUGCHKMSG	POWERFAIL
BUG\$└CHMVEC	000004F0	BUGCHKMSG	POWERFAIL
BUG\$└CIPORT	000005E8	BUGCHKMSG	
BUG\$└CONTRACT	000000C0	BUGCHKMSG	SYSCREDEL
BUG\$└DBLERR	000000C8	BUGCHKMSG	POWERFAIL
BUG\$└DECPTRF	000000D0	BUGCHKMSG	PAGEFAULT
BUG\$└DELCONPFN	000000D8	BUGCHKMSG	ALLOCPFN
BUG\$└DELGBLSEC	000000E0	BUGCHKMSG	SYSDBGLSC
BUG\$└DELGBLVCB	000000E8	BUGCHKMSG	
BUG\$└DELWBLEX	000000F8	BUGCHKMSG	PAGEFAULT
BUG\$└DEQSUBLCKS	00000508	BUGCHKMSG	DEADLOCK
BUG\$└DIRENTRY	00000100	BUGCHKMSG	SYSENGDEQ

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
BUGS_DISKCLASS	000005E0	BUGCHKMSG	
BUGS_DOUBLDALOC	00000108	BUGCHKMSG	
BUGS_DOUBLDEALO	00000110	BUGCHKMSG	MEMORYALC
BUGS_ERRCACHFUL	000004D0	BUGCHKMSG	
BUGS_ERRHALT	00000118	BUGCHKMSG	POWERFAIL
BUGS_EXHFUL	00000120	BUGCHKMSG	
BUGS_EXPANDPHD	00000128	BUGCHKMSG	PHDUTL
BUGS_EXTCACHIV	000004D8	BUGCHKMSG	
BUGS_FATALXCPT	00000130	BUGCHKMSG	EXCEPTION
BUGS_FILCNTNONZ	000004F8	BUGCHKMSG	SYSDELPRC
BUGS_FREEPAGREF	00000138	BUGCHKMSG	ALLOCFPN
BUGS_FREWSLX	00000140	BUGCHKMSG	PAGEFAULT
BUGS_GBLPAGSZRO	00000148	BUGCHKMSG	SWAPPER
BUGS_GBLW9LXERR	00000150	BUGCHKMSG	SYSLKWSET
BUGS_GPGNULPGFL	00000158	BUGCHKMSG	
BUGS_HALT	00000160	BUGCHKMSG	POWERFAIL
BUGS_HDRNOTMAP	00000168	BUGCHKMSG	
BUGS_ICONPFNDAT	00000170	BUGCHKMSG	
BUGS_ICPAGELOC	00000178	BUGCHKMSG	SWAPPER
BUGS_IFREPAGCNT	00000180	BUGCHKMSG	
BUGS_ILLEVTNUM	00000188	BUGCHKMSG	RSE
BUGS_ILLVEC	00000190	BUGCHKMSG	POWERFAIL
BUGS_INCONSTATE	00000198	BUGCHKMSG	IOSUBNPAG
BUGS_INCPTRF	000001A0	BUGCHKMSG	PAGEFAULT
BUGS_INSNFREPAGE	000001A8	BUGCHKMSG	SWAPPER
BUGS_INSSWPFIL	000001B0	BUGCHKMSG	PHDUTL
BUGS_INSWAPERR	000001B8	BUGCHKMSG	SWAPPER
BUGS_INVCHAN	000001C0	BUGCHKMSG	
BUGS_INVEXCEPTN	000001C8	BUGCHKMSG	EXCEPTION
BUGS_INVPTFMT	000001D0	BUGCHKMSG	LOADMREG
BUGS_INVRSPID	000005C0	BUGCHKMSG	
BUGS_INVTQFMT	000001D8	BUGCHKMSG	TIMESCHDL
BUGS_IVBAKADIO	000001E0	BUGCHKMSG	PAGEFAULT
BUGS_IVGBLTYP	000001E8	BUGCHKMSG	WRTMFYPAG
BUGS_IVLISTK	000001F0	BUGCHKMSG	SYSCREDEL
BUGS_IVSSRVQST	000001F8	BUGCHKMSG	POWERFAIL
BUGS_IVWSETLIST	00000200	BUGCHKMSG	SYSDCLCMH
BUGS_KRNLSTAKNV	00000208	BUGCHKMSG	SWAPPER
BUGS_LKBGRANTED	000005B0	BUGCHKMSG	EXCEPTION
BUGS_LKBREFNEG	00000510	BUGCHKMSG	DEADLOCK
BUGS_MACHINECHK	00000210	BUGCHKMSG	SYSENQDEQ
BUGS_MAKEWSLE	00000218	BUGCHKMSG	
BUGS_MAPCNTZER	000004E0	BUGCHKMSG	PAGEFAULT
BUGS_MBACBHUNG	000004A8	BUGCHKMSG	
BUGS_MFYNULPGFL	00000228	BUGCHKMSG	MBAINTDSP
BUGS_MODRELNBK	00000220	BUGCHKMSG	PAGEFAULT
BUGS_MPASYNWRT	00000548	BUGCHKMSG	WRTMFYPAG
BUGS_MPADMCK	00000538	BUGCHKMSG	
BUGS_MPCHMONIS	00000588	BUGCHKMSG	
BUGS_MPCHMVEC	00000590	BUGCHKMSG	
BUGS_MPDBLERR	00000560	BUGCHKMSG	
BUGS_MPERRHALT	00000580	BUGCHKMSG	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
BUGS_MPHALT	00000568	BUGCHKMSG	
BUGS_MPILLVEC	00000570	BUGCHKMSG	
BUGS_MPIVLISTK	00000558	BUGCHKMSG	
BUGS_MPKNLSTKNV	000005A0	BUGCHKMSG	
BUGS_MPMCCHK	00000540	BUGCHKMSG	
BUGS_MPNOUSRWCS	00000578	BUGCHKMSG	
BUGS_MPSCBRDERR	00000598	BUGCHKMSG	
BUGS_MPUNEXPINT	000005A8	BUGCHKMSG	
BUGS_MPUNKRSTRT	00000550	BUGCHKMSG	
BUGS_MPWALCIRP	00000230	BUGCHKMSG	WRTMFYPAG
BUGS_MTXCNTNONZ	00000238	BUGCHKMSG	CMODSSDSP
BUGS_NEGSHBREF	00000480	BUGCHKMSG	SHMGSDRTN
BUGS_NETNOBUF	00000240	BUGCHKMSG	
BUGS_NETNOSTATE	00000248	BUGCHKMSG	
BUGS_NETRCVPKT	00000250	BUGCHKMSG	
BUGS_NETSYSRV	00000258	BUGCHKMSG	
BUGS_NETTRANCNT	00000260	BUGCHKMSG	
BUGS_NOACPCMAN	00000268	BUGCHKMSG	
BUGS_NOACPMAIL	00000270	BUGCHKMSG	
BUGS_NOAQBACP	00000278	BUGCHKMSG	
BUGS_NOBUFCKT	00000280	BUGCHKMSG	
BUGS_NOBVPVCB	00000288	BUGCHKMSG	
BUGS_NOMULTBK	00000290	BUGCHKMSG	
BUGS_NONEXSTACP	00000298	BUGCHKMSG	IOCIOPST
BUGS_NORCVBUF	000002A0	BUGCHKMSG	
BUGS_NOSHMGSD	00000490	BUGCHKMSG	SHMGSDRTN
BUGS_NOTDDBDB	000002A8	BUGCHKMSG	
BUGS_NOTFCBFCB	000002B0	BUGCHKMSG	
BUGS_NOTFCBVCB	000002B8	BUGCHKMSG	
BUGS_NOTFCPWCB	000002C0	BUGCHKMSG	IOCIOPST
BUGS_NOTIRPQCB	000002C8	BUGCHKMSG	
BUGS_NOTLKB	000005B8	BUGCHKMSG	DEADLOCK
BUGS_NOTMTLMTL	000002D0	BUGCHKMSG	
BUGS_NOTPCB	000002D8	BUGCHKMSG	MUTEX
BUGS_NOTRVTVCB	000002E0	BUGCHKMSG	
BUGS_NOTUCBIRP	000002E8	BUGCHKMSG	
BUGS_NOTUCBRVT	000002F0	BUGCHKMSG	
BUGS_NOTUCBUCB	000002F8	BUGCHKMSG	
BUGS_NOTUCBVCB	000004E8	BUGCHKMSG	
BUGS_NOTVCBUCB	00000300	BUGCHKMSG	
BUGS_NOTVVPVCB	00000308	BUGCHKMSG	
BUGS_NOTWCBIRP	00000310	BUGCHKMSG	
BUGS_NOTWCBVCB	000005D0	BUGCHKMSG	
BUGS_NOUSRWCS	00000318	BUGCHKMSG	POWERFAIL
BUGS_OPERATOR	00000470	BUGCHKMSG	BUGCHECK
BUGS_OUTSWPERR	00000320	BUGCHKMSG	SWAPPER
BUGS_PAGEREDERR	00000328	BUGCHKMSG	
BUGS_PAGEWRTERR	00000330	BUGCHKMSG	
BUGS_PAGNTRNVAL	00000338	BUGCHKMSG	ALLOCPFN
BUGS_PFNLISTCNT	00000340	BUGCHKMSG	ALLOCPFN
BUGS_PFNREFNZRO	00000348	BUGCHKMSG	ALLOCPFN
BUGS_PGFGLOAD	00000350	BUGCHKMSG	PAGEFAULT

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
BUGS_PGFIPLHI	00000358	BUGCHKMSG	PAGEFAULT
BUGS_PGFLCBBAD	00000360	BUGCHKMSG	PAGEFAULT
BUGS_PROCGONE	00000368	BUGCHKMSG	WRMPYPAG
BUGS_PTELENTVIOL	00000370	BUGCHKMSG	SVAPTE
BUGS_PTRCNT	00000378	BUGCHKMSG	
BUGS_PURGWSSCN	00000380	BUGCHKMSG	SYSPURGWS
BUGS_QUEUEEMPTY	00000388	BUGCHKMSG	SCHED
BUGS_RDSNONRES	00000390	BUGCHKMSG	SWAPPER
BUGS_REFCNTNEG	00000398	BUGCHKMSG	
BUGS_RMSBUG	000003A0	BUGCHKMSG	IOLOCK
BUGS_RSBREFNEG	00000518	BUGCHKMSG	
BUGS_RSBREFNZRO	00000520	BUGCHKMSG	SYSENGDEQ
BUGS_SCANDEADPT	000003A8	BUGCHKMSG	SYSENGDEQ
BUGS_SCBRDERR	00000528	BUGCHKMSG	PAGEFAULT
BUGS_SECREFNEG	000003B0	BUGCHKMSG	SYSDPDSEC
BUGS_SHRCNTNEG	000003B8	BUGCHKMSG	POWERFAIL
BUGS_SSRVEXCEPT	000003C0	BUGCHKMSG	PHDUTL
BUGS_STATENT8VD	00000530	BUGCHKMSG	IOLOCK
BUGS_STRNOTWCB	000003C8	BUGCHKMSG	CMODSSDSP
BUGS_SWAPHSLE	000003D0	BUGCHKMSG	POWERFAIL
BUGS_SYSADJWSL	000003D8	BUGCHKMSG	IOSUBRAMS
BUGS_SYSTRMERR	000003E0	BUGCHKMSG	SYSLKWSET
BUGS_TIPCUFLOW	000003E8	BUGCHKMSG	
BUGS_UBMAPEXCED	000003F0	BUGCHKMSG	LOADMREG
BUGS_UDAPORT	000005D8	BUGCHKMSG	
BUGS_UNABLCREVA	000003F8	BUGCHKMSG	EXCEPTION
BUGS_UNEXUBAINT	00000400	BUGCHKMSG	PROCSTRT
BUGS_UNKNPRQ	00000480	BUGCHKMSG	
BUGS_UNKRSTRT	00000408	BUGCHKMSG	MAHANDLER
BUGS_UNXINTEXC	00000410	BUGCHKMSG	POWERFAIL
BUGS_UNXSIGNAL	00000418	BUGCHKMSG	ERRORLOG
BUGS_VBNMAPFAIL	00000420	BUGCHKMSG	
BUGS_WACKQEMPTY	00000428	BUGCHKMSG	
BUGS_WCBFCBMNG	000005C8	BUGCHKMSG	
BUGS_WRTINVBUFF	00000430	BUGCHKMSG	
BUGS_WRTINVHDR	00000438	BUGCHKMSG	
BUGS_WRTPGSBAK	00000440	BUGCHKMSG	
BUGS_WSLENOVAL	00000448	BUGCHKMSG	SYSDPDSEC
BUGS_WSLPAGCNT	00000450	BUGCHKMSG	PAGEFAULT
BUGS_WSLVANVAL	00000458	BUGCHKMSG	SYSPURGWS
BUGS_WSLXVANMAT	00000460	BUGCHKMSG	PAGEFAULT
BUGS_WSSIZEERR	00000500	BUGCHKMSG	SYSCREDEL
BUGS_ZEROPAGE	00000468	BUGCHKMSG	PAGEFAULT
CISINITIAL	80002EFA-R	SYSLOAVEC	SWAPPER
CISINT	80002F00-R	SYSLOAVEC	
COM\$DELATTNAST	8000BF89-R	COMDRVSUB	
COM\$DELCTRLAST	8000C0C3-R	COMDRVSUB	MBDRIVER
COM\$DRVDEALMEM	8000C02D-R	COMDRVSUB	
COM\$FLUSHATTNS	8000BFEC-R	COMDRVSUB	
COM\$FLUSHCTRLS	8000C147-R	COMDRVSUB	
COM\$POST	8000C01F-R	COMDRVSUB	
COM\$SETATTNAST	8000C056-R	COMDRVSUB	MBDRIVER
		COMDRVSUB	MBDRIVER
			IOSUBNPAG
			MBDRIVER
			MOUNTVER

Symbol	Value	Defined By	Referenced By ...
COM\$SETCTRL\$LAST	8000C194-R	COMDRV\$SUB	
CON\$DISCON	80001893-R	CONINTD\$SP	DEVICEDAT
CON\$INITIAL	80001850-R	CONINTD\$SP	DEVICEDAT
CON\$INITLINE	80001866-R	CONINTD\$SP	DEVICEDAT
CON\$INTDISI	80000F34-R	DEVICEDAT	
CON\$INTDISO	80000F58-R	DEVICEDAT	
CON\$INTINP	80001894-R	CONINTD\$SP	DEVICEDAT
CON\$INTOUT	8000191F-R	CONINTD\$SP	DEVICEDAT
CON\$STARTIO	800018CE-R	CONINTD\$SP	DEVICEDAT
CTL\$AG_\$CLIDATA	7FFE7C10	SHELL	
CTL\$AG_\$CLIMAGE	7FFE7C08	SHELL	
CTL\$AG_\$CMEDIA	7FFE1600	SHELL	SYSIMGACT
CTL\$AL_\$CLICALBK	7FFE7C00	SHELL	CMOD\$SDSP
CTL\$AL_\$CMCNTX	7FFE1600	SHELL	PROCSTRT
CTL\$AL_\$FINALEXC	7FFEFF28	SHELL	EXCEPTION
			SYSGETJPI
			SYSRUNDWN
			SYSSETEXV
CTL\$AL_\$IPABTVEC	7FFEFF68	SHELL	ASTDEL
CTL\$AL_\$STACK	7FFEFE10	SHELL	SYSRUNDWN
			BUGCHECK
			EXCEPTION
			SYSDELPRC
			SYS\$NDMSG
CTL\$AL_\$STACKLIM	7FFEFE6C	SHELL	SYSIMGACT
CTL\$AG_\$EXCVEC	7FFEFE34	SHELL	BUGCHECK
			EXCEPTION
			SYSSETSTK
			EXCEPTION
			SYSSETSTK
			SYSGETJPI
			SYSRUNDWN
			SYSSETEXV
CTL\$A_\$COMMON	7FFE0E00	SHELL	
CTL\$A_\$DISPVEC	7FFE0000	SHELL	PROCSTRT
CTL\$A_\$PRCALLREG	7FFE2000	SHELL	SYSIMGACT
CTL\$C_\$CLIDATA\$Z	00000BF0	SHELL	
CTL\$C_\$PRCALL\$IZ	0000002E	SHELL	
CTL\$GB_\$DEFLANG	7FFEFF51	SHELL	
CTL\$GB_\$MSGMASK	7FFEFF50	SHELL	PROCSTRT
			SYS\$CREPRC
			SYSGETMSG
			SYSPUTMSG
CTL\$GB_\$PWRMODE	7FFEFF24	SHELL	SYSSETPRA
CTL\$GB_\$SSFILTER	7FFEFF25	SHELL	CMOD\$SDSP
			EXCEPTION
			PROCSTRT
			SYSSETSSF
CTL\$GL_\$CCBBASE	7FFEFF38	SHELL	IOSUBPAGD
			PROCSTRT
			SYSQIOREQ
			SYSRUNDWN
CTL\$GL_\$CLINTOWN	7FFE1804	SHELL	
CTL\$GL_\$CMCNTX	7FFEFF88	SHELL	
CTL\$GL_\$CMHANDLR	7FFEFE38	SHELL	EXCEPTION
CTL\$GL_\$CMSUPR	7FFEFE28	SHELL	SYSRUNDWN
CTL\$GL_\$CMUSER	7FFEFE2C	SHELL	EXCEPTION
CTL\$GL_\$CTLBASVA	7FFEFE7C	SHELL	EXCEPTION
CTL\$GL_\$DCLPR\$OWN	7FFE1800	SHELL	PHDUTL
CTL\$GL_\$FINAL\$TS	7FFEFE88	SHELL	PROCSTRT
CTL\$GL_\$FIXUPLNK	7FFE1E08	SHELL	ACCOUNT
CTL\$GL_\$GETMSG	7FFEFE68	SHELL	SYSDELPRC
CTL\$GL_\$IAFEXE	7FFE1E10	SHELL	SYSEXIT
CTL\$GL_\$IAFLAST	7FFE1E04	SHELL	IMGACTSUB
CTL\$GL_\$IAFLINK	7FFE1E00	SHELL	SYSGETMSG
CTL\$GL_\$IAFLNKPTR	7FFEFF8C	SHELL	SYSGETMSG
CTL\$GL_\$IAFPERM	7FFE1E10	SHELL	PROCSTRT
CTL\$GL_\$IBIOCNT	7FFEFE88	SHELL	PROCSTRT
CTL\$GL_\$ICPUTIM	7FFEFED0	SHELL	IMGACTSUB
			PROCSTRT
			SYSIMGACT
			ACCOUNT
			SYSIMGACT

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
CTLSGL_IDIOCNT	7FFEFEE4	SHELL	ACCOUNT
CTLSGL_IFAULTIO	7FFEFED8	SHELL	ACCOUNT
CTLSGL_IFAULTS	7FFEFED4	SHELL	ACCOUNT
CTLSGL_IMGHDRBF	7FFEFE80	SHELL	PHDUTL
CTLSGL_IPAGEFL	7FFEFEE0	SHELL	SYSCREDEL
CTLSGL_IVOLUMES	7FFEFEEC	SHELL	ACCOUNT
CTLSGL_IWSPEAK	7FFEFEDC	SHELL	ACCOUNT
			PAGEFAULT
CTLSGL_KNOWNFIL	7FFEFF64	SHELL	
CTLSGL_KSPINI	7FFEA000	SHELL	
CTLSGL_KSTKBAS	7FFEA000	SHELL	
CTLSGL_LOGTBL	7FFFE20	SHELL	PROCSTRT
CTLSGL_PIMERGE	7FFFE10C	SHELL	
CTLSGL_PCB	7FFEFF58	SHELL	CMODSSDSP
			EXCEPTION
			IOSUBPAGD
			PROCSTRT
			SYSCHGMOD
			SYSGETDEV
			SYSSNDMSG
CTLSGL_PHD	7FFEFE88	SHELL	EXCEPTION
			IOCIOP08T
			PHDUTL
			PAGEFAULT
			RSE
			SYADJW8L
			SYSCREPRC
			SYSCRMPSC
			SYSDGBLSC
			SYSGETJPI
			SYSLKWSET
			SYSRUNDWN
			SYSETPFM
			SYSETPRV
			SYSUPDSEC
			SYSETPRA
CTLSGL_POWERAST	7FFEFF20	SHELL	
CTLSGL_PPMSG	7FFEFF48	SHELL	
CTLSGL_RMSBASE	7FFEFF44	SHELL	CMODSSDSP
			PROCSTRT
			SYSIMGACT
CTLSGL_RMSIP	7FFEFE08	SHELL	
CTLSGL_RMSPP	7FFEFE04	SHELL	
CTLSGL_RUF	7FFEFF5C	SHELL	
CTLSGL_RUNDNFLG	7FFEFE84	SHELL	
CTLSGL_SITESPEC	7FFEFF60	SHELL	SYSIMGACT
CTLSGL_THEXEC	7FFEFE54	SHELL	SYSGETJPI
CTLSGL_THSUPR	7FFEFE58	SHELL	SYSDCLEXH
CTLSGL_USRCHME	7FFEFF1C	SHELL	SYSEXIT
CTLSGL_USRCHMK	7FFEFF18	SHELL	CMODSSDSP
CTLSGL_USRUNDWN	7FFEFF54	SHELL	PROCSTRT
CTLSGL_VECTORS	7FFEFE00	SHELL	CMODSSDSP
CTLSGL_VIRTPEAK	7FFEFE00	SHELL	PROCSTRT
CTLSGL_VOLUMES	7FFEFEC4	SHELL	SYSDLEPRC
			SYSRUNDWN
CTLSGL_WSPEAK	7FFEFE8C	SHELL	SYSGETJPI
			SYSDLEPRC
			SYSGETJPI
CTLSGQ_ALLOCREG	7FFEFE8C	SHELL	ACCOUNT
			PAGEFAULT
			SYADJW8L
			SYSGETJPI
			LOGNAMSUB
			PROCSTRT
CTLSGQ_COMMON	7FFEFE60	SHELL	
CTLSGQ_DBGAREA	7FFEFF3C	SHELL	
CTLSGQ_ISTART	7FFEFEC8	SHELL	
CTLSGQ_LOGIN	7FFEFE80	SHELL	ACCOUNT
			SYSIMGACT
			SYSRUNDWN
CTLSGQ_MOUNTLST	7FFEFE94	SHELL	ACCOUNT
			PROCSTRT
			SYSGETJPI
			SYSDLEPRC
			SYSGETDEV

Symbol	Value	Defined By	Referenced By ...	
-----	-----	-----	-----	
CTLSGQ_PROCPRIV	7FFEFF10	SHELL	PHOUTL	PROCSTRT SYSGETJPI
			SYSIMGACT	SYSSETPRV
CTLSGW_CHINDX	7FFEFE02	SHELL	IOSUBPAGD	SYSDELPRC SYSQIOREQ
			SYSRUNDN	
CTLSGW_NMIOCH	7FFEFE00	SHELL	IOSUBPAGD	PROCSTRT SYSDELPRC
CTLSGW_PPMGCHN	7FFEFF52	SHELL		
CTLST_ACCOUNT	7FFEFEA8	SHELL	ACCOUNT	PROCSTRT SYSCREPRC
			SYSDELPRC	
CTLST_NODEADDR	7FFEFEF0	SHELL	ACCOUNT	
CTLST_NODENAME	7FFEFEF7	SHELL	ACCOUNT	
CTLST_REMOTEID	7FFEFEFE	SHELL	ACCOUNT	
CTLST_USERNAME	7FFEFE9C	SHELL	ACCOUNT	PROCSTRT SYSACPFDT
			SYSDELPRC	SYSNDMSG
			SYSREPRC	
DCS_DISK	00000001	SYSSIODEF	IOSUBNPAG	
DEVSM_DMT	00200000	SYSSIODEF	SYSDASSGN	
DEVSM_FOR	01000000	SYSSIODEF	SYSDASSGN	
DEVSM_MBX	00100000	SYSSIODEF	SYSDASSGN	
DEVSM_MNT	00080000	SYSSIODEF	SYSDASSGN	
DEVSM_RCK	40000000	SYSSIODEF	SYSDASSGN	
DEVSM_SWL	02000000	SYSSIODEF	SYSDASSGN	
DEVSM_TRM	00000004	SYSSIODEF	SYSDASSGN	
DEVSM_WCK	80000000	SYSSIODEF	SYSDASSGN	
DEVSV_ALL	00000017	SYSSIODEF	SYSDASSGN	
DEVSV_DMT	00000015	SYSSIODEF	SYSDASSGN	
DEVSV_FOD	0000000E	SYSSIODEF	SYSASSIGN	
DEVSV_FOR	00000018	SYSSIODEF	SYSDASSGN	SYSGETDEV
DEVSV_MBX	00000014	SYSSIODEF	POWERFAIL	SYSASSIGN SYSDASSGN
DEVSV_MNT	00000013	SYSSIODEF	SYSGETDEV	
DEVSV_NET	0000000D	SYSSIODEF	SYSASSIGN	
DEVSV_OPR	00000007	SYSSIODEF	SYSDASSGN	
DEVSV_SHR	00000010	SYSSIODEF	SYSASSIGN	
DEVSV_SPL	00000006	SYSSIODEF	SYSASSIGN	SYSGETDEV
DEVSV_SQD	00000005	SYSSIODEF	IOCIOPST	
DRSINITIAL	80001337-R	DRINTHAND		
DRSINT	80001320-R	DRINTHAND		
DYNSC_ACB	00000002	GLOBALS		
DYNSC_ADP	00000001	GLOBALS		
DYNSC_AQB	00000003	GLOBALS		
DYNSC_BCB	00000033	GLOBALS		
DYNSC_BOOTCB	00000006	GLOBALS		
DYNSC_BRDCST	0000001A	GLOBALS		
DYNSC_BUFIO	00000013	GLOBALS		
DYNSC_CDB	00000034	GLOBALS		
DYNSC_CDRP	0000003B	GLOBALS		
DYNSC_CD_BBRPG	00000002	GLOBALS		
DYNSC_CD_CDDB	00000001	GLOBALS		
DYNSC_CEB	00000004	GLOBALS		
DYNSC_CI	00000061	GLOBALS		
DYNSC_CIDG	0000003E	GLOBALS		
DYNSC_CIMSG	0000003F	GLOBALS		
DYNSC_CI_BDT	00000001	GLOBALS		
DYNSC_CI_FQDT	00000002	GLOBALS		

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
DYN\$C_CLASSDRV	00000064	GLOBALS	
DYN\$C_CONF	00000007	GLOBALS	
DYN\$C_CRB	00000005	GLOBALS	
DYN\$C_CXB	0000001B	GLOBALS	
DYN\$C_DDB	00000006	GLOBALS	
DYN\$C_DPT	0000001E	GLOBALS	
DYN\$C_ERP	0000003D	GLOBALS	
DYN\$C_EXTGSD	00000028	GLOBALS	
DYN\$C_FCB	00000007	GLOBALS	
DYN\$C_FRK	00000008	GLOBALS	
DYN\$C_GSD	00000015	GLOBALS	
DYN\$C_IDB	00000009	GLOBALS	
DYN\$C_INIT	00000063	GLOBALS	
DYN\$C_IRP	0000000A	GLOBALS	
DYN\$C_IRPE	0000002C	GLOBALS	
DYN\$C_JIB	0000002F	GLOBALS	
DYN\$C_JMT	00000036	GLOBALS	
DYN\$C_JPB	0000001F	GLOBALS	
DYN\$C_KFH	00000026	GLOBALS	
DYN\$C_KFI	00000018	GLOBALS	
DYN\$C_LC_MP	00000001	GLOBALS	
DYN\$C_LC_SCS	00000002	GLOBALS	
DYN\$C_LKB	00000037	GLOBALS	
DYN\$C_LKID	00000039	GLOBALS	
DYN\$C_LOADCODE	00000062	GLOBALS	
DYN\$C_LOG	00000008	GLOBALS	
DYN\$C_LPD	00000035	GLOBALS	
DYN\$C_MBX	00000028	GLOBALS	
DYN\$C_MPHMAP	00000004	GLOBALS	
DYN\$C_MTL	00000019	GLOBALS	
DYN\$C_MVL	00000016	GLOBALS	
DYN\$C_NDB	0000001C	GLOBALS	
DYN\$C_NET	00000017	GLOBALS	
DYN\$C_PBH	00000020	GLOBALS	
DYN\$C_PCB	0000000C	GLOBALS	
DYN\$C_PCBVEC	00000001	GLOBALS	
DYN\$C_PDB	00000021	GLOBALS	
DYN\$C_PFL	00000023	GLOBALS	
DYN\$C_PHVEC	00000002	GLOBALS	
DYN\$C_PIB	00000022	GLOBALS	
DYN\$C_PQB	0000000D	GLOBALS	
DYN\$C_PRCMAP	00000005	GLOBALS	
DYN\$C_PTR	00000025	GLOBALS	
DYN\$C_RBM	00000031	GLOBALS	
DYN\$C_RSB	00000038	GLOBALS	
DYN\$C_RSHT	0000003A	GLOBALS	
DYN\$C_RUL	0000003C	GLOBALS	
DYN\$C_RVT	0000000E	GLOBALS	
DYN\$C_RVX	00000027	GLOBALS	
DYN\$C_SCS	00000060	GLOBALS	
DYN\$C_SCS_CDL	00000001	GLOBALS	
DYN\$C_SCS_CDT	00000002	GLOBALS	

CONINTDSP NLDRIVER

PAGEFILE

PROCSTRY

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
DYN\$C_\$CS_\$DIR	00000003	GLOBALS	
DYN\$C_\$CS_\$PB	00000004	GLOBALS	
DYN\$C_\$CS_\$PDT	00000005	GLOBALS	
DYN\$C_\$CS_\$RDT	00000006	GLOBALS	
DYN\$C_\$CS_\$SB	00000007	GLOBALS	
DYN\$C_\$SHB	0000002A	GLOBALS	
DYN\$C_\$SHMCEB	0000002E	GLOBALS	
DYN\$C_\$SHMGSD	00000029	GLOBALS	
DYN\$C_\$SHRBUFIO	00000080	GLOBALS	
DYN\$C_\$SLAVCEB	0000002D	GLOBALS	
DYN\$C_\$SPECIAL	00000080	GLOBALS	
DYN\$C_\$SSB	0000001D	GLOBALS	
DYN\$C_\$SUBTYPE	00000060	GLOBALS	
DYN\$C_\$SWPMAP	00000003	GLOBALS	
DYN\$C_\$TQE	0000000F	GLOBALS	
DYN\$C_\$TWP	00000030	GLOBALS	
DYN\$C_\$TYPAMD	00000014	GLOBALS	
DYN\$C_\$UCB	00000010	GLOBALS	
DYN\$C_\$UNUSED	00000024	GLOBALS	
DYN\$C_\$VCA	00000032	GLOBALS	
DYN\$C_\$VCB	00000011	GLOBALS	
DYN\$C_\$WCB	00000012	GLOBALS	
ECC\$REENABLE	80002EBE-R	SYS\$LOAVEC	TIMESCHDL
ERL\$ALLOCEMB	8000AF0A-R	ERRORLOG	DISMOUNT SYSSNDMSG
ERL\$AL_\$BUFADDR	80002D90-R	ERRORLOG	BUGCHECK
ERL\$COLDSTART	8000AEFE-R	ERRORLOG	
ERL\$DEVICEATTN	8000ADAA-R	ERRORLOG	
ERL\$DEVICERR	8000AD19-R	ERRORLOG	
ERL\$DEVICTMO	8000AD1D-R	ERRORLOG	
ERL\$GB_\$BUFFLAG	80002D99-R	ERRORLOG	TIMESCHDL
ERL\$GB_\$BUFIN	80002D98-R	ERRORLOG	
ERL\$GB_\$BUFPTR	80002D9A-R	ERRORLOG	
ERL\$GB_\$BUFTIM	80002D9B-R	ERRORLOG	
ERL\$GL_\$ERLPID	80002D9C-R	ERRORLOG	
ERL\$GL_\$SEQUENCE	80002DA0-R	ERRORLOG	BUGCHECK
ERL\$LOGMESSAGE	8000AE95-R	ERRORLOG	
ERL\$LOGSTATUS	8000AE23-R	ERRORLOG	
ERL\$RELEASEMB	8000AFAA-R	ERRORLOG	DISMOUNT SYSSNDMSG
ERL\$UNEXP	80003C34-R	ERRORLOG	
ERL\$VEC0	80003C34-R	ERRORLOG	
ERL\$VEC100	80003C34-R	ERRORLOG	
ERL\$VEC104	80003C34-R	ERRORLOG	
ERL\$VEC108	80003C34-R	ERRORLOG	
ERL\$VEC112	80003C34-R	ERRORLOG	
ERL\$VEC116	80003C34-R	ERRORLOG	
ERL\$VEC12	80003C34-R	ERRORLOG	
ERL\$VEC120	80003C34-R	ERRORLOG	
ERL\$VEC124	80003C34-R	ERRORLOG	
ERL\$VEC128	80003C34-R	ERRORLOG	
ERL\$VEC132	80003C34-R	ERRORLOG	
ERL\$VEC136	80003C34-R	ERRORLOG	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
ERLSVEC140	80003C34-R	ERRORLOG	
ERLSVEC144	80003C34-R	ERRORLOG	
ERLSVEC148	80003C34-R	ERRORLOG	
ERLSVEC152	80003C34-R	ERRORLOG	
ERLSVEC156	80003C34-R	ERRORLOG	
ERLSVEC16	80003C34-R	ERRORLOG	
ERLSVEC160	80003C34-R	ERRORLOG	
ERLSVEC164	80003C34-R	ERRORLOG	
ERLSVEC168	80003C34-R	ERRORLOG	
ERLSVEC172	80003C34-R	ERRORLOG	
ERLSVEC176	80003C34-R	ERRORLOG	
ERLSVEC180	80003C34-R	ERRORLOG	
ERLSVEC184	80003C34-R	ERRORLOG	
ERLSVEC188	80003C34-R	ERRORLOG	
ERLSVEC192	80003C34-R	ERRORLOG	
ERLSVEC196	80003C34-R	ERRORLOG	
ERLSVEC20	80003C34-R	ERRORLOG	
ERLSVEC200	80003C34-R	ERRORLOG	
ERLSVEC204	80003C34-R	ERRORLOG	
ERLSVEC208	80003C34-R	ERRORLOG	
ERLSVEC212	80003C34-R	ERRORLOG	
ERLSVEC216	80003C34-R	ERRORLOG	
ERLSVEC220	80003C34-R	ERRORLOG	
ERLSVEC224	80003C34-R	ERRORLOG	
ERLSVEC228	80003C34-R	ERRORLOG	
ERLSVEC232	80003C34-R	ERRORLOG	
ERLSVEC236	80003C34-R	ERRORLOG	
ERLSVEC24	80003C34-R	ERRORLOG	
ERLSVEC240	80003C34-R	ERRORLOG	
ERLSVEC244	80003C34-R	ERRORLOG	
ERLSVEC248	80003C34-R	ERRORLOG	
ERLSVEC252	80003C34-R	ERRORLOG	
ERLSVEC256	80003B84-R	ERRORLOG	
ERLSVEC260	80003B88-R	ERRORLOG	
ERLSVEC264	80003B8C-R	ERRORLOG	
ERLSVEC268	80003B90-R	ERRORLOG	
ERLSVEC272	80003B94-R	ERRORLOG	
ERLSVEC276	80003B98-R	ERRORLOG	
ERLSVEC28	80003C34-R	ERRORLOG	
ERLSVEC280	80003B9C-R	ERRORLOG	
ERLSVEC284	80003BA0-R	ERRORLOG	
ERLSVEC288	80003BA4-R	ERRORLOG	
ERLSVEC292	80003BA8-R	ERRORLOG	
ERLSVEC296	80003BAC-R	ERRORLOG	
ERLSVEC300	80003BB0-R	ERRORLOG	
ERLSVEC304	80003BB4-R	ERRORLOG	
ERLSVEC308	80003BB8-R	ERRORLOG	
ERLSVEC312	80003BBC-R	ERRORLOG	
ERLSVEC316	80003BC0-R	ERRORLOG	
ERLSVEC32	80003C34-R	ERRORLOG	
ERLSVEC320	80003B84-R	ERRORLOG	
ERLSVEC324	80003B88-R	ERRORLOG	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
ERL\$VEC328	80003B8C-R	ERRORLOG	
ERL\$VEC332	80003B90-R	ERRORLOG	
ERL\$VEC336	80003B94-R	ERRORLOG	
ERL\$VEC340	80003B98-R	ERRORLOG	
ERL\$VEC344	80003B9C-R	ERRORLOG	
ERL\$VEC348	80003BA0-R	ERRORLOG	
ERL\$VEC352	80003BA4-R	ERRORLOG	
ERL\$VEC356	80003BA8-R	ERRORLOG	
ERL\$VEC36	80003C34-R	ERRORLOG	
ERL\$VEC360	80003BAC-R	ERRORLOG	
ERL\$VEC364	80003BB0-R	ERRORLOG	
ERL\$VEC368	80003BB4-R	ERRORLOG	
ERL\$VEC372	80003BB8-R	ERRORLOG	
ERL\$VEC376	80003BBC-R	ERRORLOG	
ERL\$VEC380	80003BC0-R	ERRORLOG	
ERL\$VEC384	80003B84-R	ERRORLOG	
ERL\$VEC388	80003B88-R	ERRORLOG	
ERL\$VEC392	80003B8C-R	ERRORLOG	
ERL\$VEC396	80003B90-R	ERRORLOG	
ERL\$VEC4	80003C34-R	ERRORLOG	
ERL\$VEC40	80003C34-R	ERRORLOG	
ERL\$VEC400	80003B94-R	ERRORLOG	
ERL\$VEC404	80003B98-R	ERRORLOG	
ERL\$VEC408	80003B9C-R	ERRORLOG	
ERL\$VEC412	80003BA0-R	ERRORLOG	
ERL\$VEC416	80003BA4-R	ERRORLOG	
ERL\$VEC420	80003BA8-R	ERRORLOG	
ERL\$VEC424	80003BAC-R	ERRORLOG	
ERL\$VEC428	80003BB0-R	ERRORLOG	
ERL\$VEC432	80003BB4-R	ERRORLOG	
ERL\$VEC436	80003BB8-R	ERRORLOG	
ERL\$VEC44	80003C34-R	ERRORLOG	
ERL\$VEC440	80003BBC-R	ERRORLOG	
ERL\$VEC444	80003BC0-R	ERRORLOG	
ERL\$VEC448	80003B84-R	ERRORLOG	
ERL\$VEC452	80003B88-R	ERRORLOG	
ERL\$VEC456	80003B8C-R	ERRORLOG	
ERL\$VEC460	80003B90-R	ERRORLOG	
ERL\$VEC464	80003B94-R	ERRORLOG	
ERL\$VEC468	80003B98-R	ERRORLOG	
ERL\$VEC472	80003B9C-R	ERRORLOG	
ERL\$VEC476	80003BA0-R	ERRORLOG	
ERL\$VEC48	80003C34-R	ERRORLOG	
ERL\$VEC480	80003BA4-R	ERRORLOG	
ERL\$VEC484	80003BA8-R	ERRORLOG	
ERL\$VEC488	80003BAC-R	ERRORLOG	
ERL\$VEC492	80003BB0-R	ERRORLOG	
ERL\$VEC496	80003BB4-R	ERRORLOG	
ERL\$VEC500	80003BB8-R	ERRORLOG	
ERL\$VEC504	80003BBC-R	ERRORLOG	
ERL\$VEC508	80003BC0-R	ERRORLOG	
ERL\$VEC52	80003C34-R	ERRORLOG	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
ERLSVEC56	80003C34-R	ERRORLOG	
ERLSVEC60	80003C34-R	ERRORLOG	
ERLSVEC64	80003C34-R	ERRORLOG	
ERLSVEC68	80003C34-R	ERRORLOG	
ERLSVEC72	80003C34-R	ERRORLOG	
ERLSVEC76	80003C34-R	ERRORLOG	
ERLSVEC8	80003C34-R	ERRORLOG	
ERLSVEC80	80003C34-R	ERRORLOG	
ERLSVEC84	80003C34-R	ERRORLOG	
ERLSVEC88	80003C34-R	ERRORLOG	
ERLSVEC92	80003C34-R	ERRORLOG	
ERLSVEC96	80003C34-R	ERRORLOG	
ERLSVEC_RETURN	80003C3C-R	ERRORLOG	
ERLSWAKE	8000AFD4-R	ERRORLOG	
ERLSWARMSTART	8000AEF3-R	ERRORLOG	
EVT\$AST	00000000	RSE	TIMESCHDL
EVT\$COLPGA	00000000	RSE	POWERFAIL
EVT\$EVENT	00000001	RSE	ASTDEL
EVT\$FPGA	00000004	RSE	IOCIOPST
EVT\$PFCOM	00000007	RSE	POSTEF
EVT\$RESUME	00000006	RSE	ALLOCPFN
EVT\$SETPRI	00000008	RSE	IOCIOPST
EVT\$SWPDT	00000009	RSE	SYSPCNTRL
EVT\$WAKE	00000005	RSE	SYSSETPRI
EXESABORTIO	800088FD-R	SYSQIOREQ	OSWPSCHED
EXESAB_HEXTAB	80003B74-R	CONSOLE	COMDRVSUB
EXESACVIOLAT	80003C44-R	EXCEPTION	SYSACPFDT
EXESADJSTK	8000DD3C-R	SYSADJSTK	MBDRIVER
EXESADJWSL	8000DC5D-R	SYSADJWSL	SYSQIOFDT
EXESALLOC	8000F814-R	SYSDEVALC	
EXESALLOCATE	800094C6-R	MEMORYALC	INIT
EXESALLOCBUF	8000936E-R	MEMORYALC	PAGEFAULT
EXESALLOCCEB	80009372-R	MEMORYALC	XDELTA
EXESALLOCIRP	80009384-R	MEMORYALC	CMODSSDSP
EXESALLOCJIB	8000937B-R	MEMORYALC	CMODSSDSP
EXESALLOCPCB	8000938C-R	MEMORYALC	CMODSSDSP
EXESALLOCPQB	80009394-R	MEMORYALC	PROCSTRT
EXESALLOCTQE	8000939D-R	MEMORYALC	COMDRVSUB
EXESALONONPAGED	8000941A-R	MEMORYALC	SYSENGDEQ
EXESALONPAGWAIT	800093DD-R	MEMORYALC	SYSUPDSEC
EXESALOPAGED	8000948E-R	MEMORYALC	SYSASCEFC
			SWAPPER
			SYSDELPRC
			SYSQIOREQ
			SYSREPRC
			SYSREPRC
			SYSSCHEVT
			INIT
			MBDRIVER
			MOUNTVER
			POSTEF
			RSE
			SYSCANCEL
			SYSIMGACT
			SYSENGDEQ
			SWAPPER
			SYSLOGNAM
			SYSWAIT
			SHMGSDRTN
			WRTMFYPAG
			MTFDT
			IOLOCK
			SYSREDEL
			SYSRMP3C
			SYSACPFDT
			SYSQIOREQ
			SYSBRDCST
			SYSSETPFM
			SYSASTCON
			SYSFORCEX
			SYSSETPRA
			SYSBRDCST
			SYSPCNTRL
			WRTMFYPAG
			IOSUBNPAG
			PAGEFAULT
			SHMGSDRTN
			SYSGETJPI
			SYSRMP3C
			SYSIMGACT
			SYSMAILBX

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
EXESALOSHARED	800095D6-R	MEMORYALC	
EXESALTGUEPKT	80008924-R	SYSQIOREQ	IOSUBNPAG
EXESAL_LOAVEC	80002E88-R	SYSLOAVEC	INIT
EXESAL_STACKS	80003474-R	SYSPARAM	BUGCHECK
EXESAL_TGENOREPT	800028A0-R	SYSCOMMON	
EXESARITH	80003C6C-R	EXCEPTION	
EXESASCEFC	8000DDCE-R	SYSASCEFC	CMODSSDSP
EXESASCTIM	8000EF39-R	SYSVRTIM	CMODSSDSP
EXESASSIGN	8000E2A7-R	SYSASSIGN	CMODSSDSP
EXESASTDEL	80008AF7-R	ASTDEL	EXCEPTION
EXESASTFLT	80003C77-R	EXCEPTION	ASTDEL
EXESASTRET	80008AFA-R	ASTDEL	CMODSSDSP
EXESA_BOOPARAM	8001C07C-R	INIT	
EXESA_SYSPARAM	80003200-R	SYSPARAM	SYSSETIME
EXESBINTIM	8000EFDA-R	SYSVRTIM	CMODSSDSP
EXESBLDPKTGSR	8000887E-R	SYSQIOREQ	SHMGSDRTN
EXESBLDPKTGSW	80008886-R	SYSQIOREQ	SHMGSDRTN
EXESBLDPKTSWPR	8000888E-R	SYSQIOREQ	SWAPPER
EXESBLDPKTSWPW	80008896-R	SYSQIOREQ	SWAPPER
EXESBOOTCB_CHK	80003A0C-R	BUGCHECK	INIT
EXESBRDCST	80009B3A-R	SYSBRDCST	CMODSSDSP
EXESBRDCSTCOM	80009E28-R	SYSBRDCST	
EXESBREAK	80003C8C-R	EXCEPTION	INIT
EXESBUFRQUOTA	8000928C-R	EXSUBROUT	SYSACPFDT
EXESBUFQUOPRC	80009298-R	EXSUBROUT	
EXESBUG_CHECK	800038A9-R	BUGCHECK	EXCEPTION
EXESBUILDPKTR	800088A6-R	SYSQIOREQ	PAGEFAULT
EXESBUILDPKTW	8000889E-R	SYSQIOREQ	SYSUPDSEC
EXESCANCEL	80007F0F-R	SYSCANCEL	CMODSSDSP
EXESCANCELN	80007F00-R	SYSCANCEL	SYSDASSGN
EXESCANEXH	8000F363-R	SYSDCLEXH	CMODSSDSP
EXESCANTIM	8000802F-R	SYSCANEVT	CMODSSDSP
EXESCANWAK	8000804D-R	SYSCANEVT	CMODSSDSP
EXESCARRIAGE	80008443-R	SYSQIOFDT	SYSBRDCST
EXESCATCH_ALL	800138CE-R	PROCSTR	
EXESCHKCREACCES	8000D404-R	EXSUBROUT	
EXESCHKDELACCES	8000D3FD-R	EXSUBROUT	
EXESCHKLOGACCES	8000D3FD-R	EXSUBROUT	SYSQIOREQ
EXESCHKPHYACCES	8000D404-R	EXSUBROUT	SYSQIOREQ
EXESCHKRDACCES	8000D40B-R	EXSUBROUT	MBDRIVER
			SYSACPFDT
			SYSDEVALC
			SYSASSIGN
			SYSIMGACT
EXESCHKWAIT2	800099C4-R	POSTEF	
EXESCHKWRTACCES	8000D412-R	EXSUBROUT	MAHANDLER
			MBDRIVER
			SYSACPFDT
			SYSACPFDT
			SYSACPFDT
EXESCLI_UTILSRV	800138B7-R	PROCSTR	
EXESCLOSE_MSG	80013863-R	OPENMSG	SYSPUTMSG
EXESCLREF	80009F4A-R	SYSEVTSRV	CMODSSDSP
EXESCMEXEC	8000806C-R	SYSCHGMOD	CMODSSDSP
EXESCMKRNL	8000807C-R	SYSCHGMOD	CMODSSDSP
EXESCMODEXEC	8000CE58-R	CMODSSDSP	
EXESCMODEXECX	8000CE30-R	CMODSSDSP	INIT

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
EXESCMODKRN	8000D020-R	CMODSSDSP	
EXESCMODKRN LX	8000CFF8-R	CMODSSDSP	INIT
EXESCMODSUPR	80003C94-R	EXCEPTION	
EXESCMODUSER	80003CA4-R	EXCEPTION	
EXESCNTREG	8000E5D7-R	SYSREDEL	CMODSSDSP
EXESCOMPAT	80003C8C-R	EXCEPTION	
EXESCRELOG	80010560-R	SYSLOGNAM	CMODSSDSP
EXESCREMBX	80010745-R	SYSMAILBX	CMODSSDSP
EXESCREPRC	8000E92C-R	SYSREPRC	CMODSSDSP
EXESCRETVA	8000E5AE-R	SYSREDEL	CMODSSDSP
EXESCRMPSC	8000EECA-R	SYSRMPSC	CMODSSDSP
EXESC_ALCGRNMSK	0000000F	MEMORYALC	
EXESC_CMSTK9Z	00000014	CMODSSDSP	MEMORYALC SYSEVTSRV SYSWAIT
			SYSCHGMOD SYSEXIT
			SYSENGDEQ SYSQIOFDT
EXESC_SYSPARSZ	00000330	SYSPARAM	
EXESDACEFC	8000DDA7-R	SYSASCEFC	CMODSSDSP
EXESDALLOC	8000F8F7-R	SYSDEVALC	CMODSSDSP
EXESDASSGN	8000809D-R	SYSDASSGN	CMODSSDSP
EXESDCLAST	8000E506-R	SYSASTCON	CMODSSDSP
EXESDCLCMH	8000F320-R	SYSDCLCMH	CMODSSDSP
EXESDCLEXH	8000F395-R	SYSDCLEXH	CMODSSDSP
EXESDEALLOCATE	80009596-R	MEMORYALC	DISMOUNT INIT
			LOGNAMSUB
EXESDEANONPAGED	80009501-R	MEMORYALC	SYSDGBLSC ACCOUNT EXSUBROUT MBDRIVER PROCSTRY SYSASCEFC SYSDASSGN SYSGETJPI SYSRUNDWN SYSUPDSEC
			ASTDEL IOCIOPOST PAGEFAULT POSTEF SWAPPER SYSREPRC SYSENGDEQ SYSQIOFDT SYSSETPFM WRTMFYPAG
			COMDRVSUB IOSUBNPAG POSTEF SWAPPER SYSREPRC SYSENGDEQ SYSQIOFDT SYSSETPFM WRTMFYPAG
EXESDEANONPGDSIZ	8000950D-R	MEMORYALC	
EXESDEAPAGED	8000954B-R	MEMORYALC	DISMOUNT SYSDGBLSC
			LOGNAMSUB SYSIMGACT
EXESDEASHARED	800095F3-R	MEMORYALC	
EXESDELLOG	800105F5-R	SYSLOGNAM	CMODSSDSP
EXESDELMBX	80010B7B-R	SYSMAILBX	CMODSSDSP
EXESDELPRC	80009EFC-R	SYSDELPRC	CMODSSDSP
EXESDELTV	8000E662-R	SYSREDEL	CMODSSDSP
EXESDEQ	800118C0-R	SYSENGDEQ	CMODSSDSP
EXESDERLMB	800081AD-R	SYSDERLMB	CMODSSDSP
EXESDGBLSC	8000FA0C-R	SYSDGBLSC	CMODSSDSP
EXESDLCEFC	8000DFB7-R	SYSASCEFC	CMODSSDSP
EXESDUMPCPUREG	80002ECA-R	SYSLOAVEC	CMODSSDSP
EXESDW780_INT	80002EEE-R	SYSLOAVEC	CMODSSDSP
EXESENG	80011A32-R	SYSENGDEQ	CMODSSDSP
EXESEXCEPTABLE	800121E1-R	SYSPUTMSG	CMODSSDSP
EXESEXCEPTION	80003D7F-R	EXCEPTION	PROCSTRY
EXESEXCMG	80013398-R	EXCEPTMSG	
EXESEXCPTN	8000CFEA-R	CMODSSDSP	CMODSSDSP SHELL
			EXCEPTION
			PROCSTRY

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
EXE\$EXCPTNE	8000CE0D-R	CMODSSDSP	SHELL
EXE\$EXIT	80011CC6-R	SYSEXIT	CMODSSDSP
EXE\$EXIT_IMAGE	800138C1-R	PROCSTRT	
EXE\$EXPANDSTK	80013222-R	EXCEPTION	ASTDEL
EXE\$EXPREG	8000E54A-R	SYSCREDEL	CMODSSDSP
EXE\$EXTENDPOOL	80009631-R	MEMORYALC	
EXE\$FAILURE	8000D129-R	CMODSSDSP	
EXE\$FAO	8000FC98-R	SYSFAO	CMODSSDSP
EXE\$FAOL	8000FCA5-R	SYSFAO	CMODSSDSP
EXE\$FINISHIO	8000890C-R	SYSQIOREQ	SYSQIOFDT
EXE\$FINISHIOC	8000890A-R	SYSQIOREQ	MBDRIVER
EXE\$FORCEX	800081E7-R	SYSFORCEX	CMODSSDSP
EXE\$FORK	80008CC8-R	FORKCNTRL	MAHANDLER
			MEMORYALC
EXE\$FORKDSP	80008D1C-R	FORKCNTRL	
EXE\$FRKIPL10DSP	80008CFC-R	FORKCNTRL	
EXE\$FRKIPL11DSP	80008D08-R	FORKCNTRL	
EXE\$FRKIPL6DSP	80008CE4-R	FORKCNTRL	
EXE\$FRKIPL8DSP	80008D14-R	FORKCNTRL	
EXE\$FRKIPL9DSP	80008CF0-R	FORKCNTRL	
EXE\$GB_CPUTYPE	80003408-R	SYSPARAM	
EXE\$GB_CPUTYPE	800034E8-R	SYSPARAM	INIT
EXE\$GETACCESS	8000D380-R	EXSUBROUT	XDELTA
EXE\$GETCHN	8001008B-R	SYSGETDEV	CMODSSDSP
EXE\$GETDEV	80010094-R	SYSGETDEV	CMODSSDSP
EXE\$GETDVI	800101A9-R	SYSGETDEV	CMODSSDSP
EXE\$GETJPI	80012068-R	SYSGETJPI	CMODSSDSP
EXE\$GETMSG	80011D72-R	SYSGETMSG	CMODSSDSP
EXE\$GETPTI	800104AE-R	SYSGETPTI	CMODSSDSP
EXE\$GETSYI	8001206F-R	SYSGETSYI	CMODSSDSP
EXE\$GETTIM	80012184-R	SYSGETTIM	CMODSSDSP
EXE\$GL_ABSTIM	80002858-R	SYSCOMMON	CONINTDSP
			IOSUBNPAG
			MOUNTVER
EXE\$GL_ACMFLAGS	80002980-R	SYSCOMMON	SYSENQDEQ
			ACCOUNT
			SYSADJWSL
			SYSRUNDWN
EXE\$GL_BLACKHOLE	80002940-R	SYSCOMMON	INIT
EXE\$GL_BOOTCB	80002780-R	SYSCOMMON	BUGCHECK
EXE\$GL_BUGCHECK	80000C54-R	BUGCHECK	INIT
EXE\$GL_CEBMTX	800028C4-R	SYSCOMMON	
EXE\$GL_CLITABL	80003324-R	SYSPARAM	SYSASCEFC
EXE\$GL_CONFREG	8000218C-R	MDAT	ERRORLOG
EXE\$GL_DEFFLAGS	80003364-R	SYSPARAM	INIT
EXE\$GL_ENQMTX	80002808-R	SYSCOMMON	MAHANDLER
EXE\$GL_FLAGS	800026F0-R	SYSCOMMON	INIT
			PAGEFAULT
EXE\$GL_GPT	800028E8-R	SYSCOMMON	SYSIMGACT
EXE\$GL_GSDDELBL	8000282C-R	SYSCOMMON	SYSCRMPSC
EXE\$GL_GSDDELFL	80002828-R	SYSCOMMON	
EXE\$GL_GSDFREBL	80002824-R	SYSCOMMON	SYSDBGLSC
EXE\$GL_GSDFREFL	80002820-R	SYSCOMMON	SYSDBGLSC
EXE\$GL_GSDGRPBL	80002814-R	SYSCOMMON	SYSCRMPSC
EXE\$GL_GSDGRPFL	80002810-R	SYSCOMMON	SHMGSVRTN
			SYSCRMPSC

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
EXESGL_GSDMTX	800028CC-R	SYSCOMMON	PHDUTL
EXESGL_G8DSYSBL	8000281C-R	SYSCOMMON	
EXESGL_G8DSYSFL	80002818-R	SYSCOMMON	
EXESGL_INTSTK	80003478-R	SYSPARAM	INIT
EXESGL_INTSTKLM	80002954-R	SYSCOMMON	DEADLOCK
EXESGL_KFIMTX	800028DC-R	SYSCOMMON	SYSCREPRC
EXESGL_KNOWNFIL	800028E0-R	SYSCOMMON	INIT
EXESGL_LOCKRTRY	80003318-R	SYSPARAM	SYSIMGACT
			SYSIMGACT
			MAHANDLER
			MEMORYALC
			SHMGSDRTN
			SYASCEFC
EXESGL_MCHKERRS	80002934-R	SYSCOMMON	
EXESGL_MEMERRS	80002938-R	SYSCOMMON	
EXESGL_MP	8000294C-R	SYSCOMMON	
EXESGL_MSGFLAGS	80003368-R	SYSPARAM	
EXESGL_NONPAGED	80002908-R	SYSCOMMON	
EXESGL_NUMNEXUS	800021C4-R	MDAT	INIT
EXESGL_PAGED	80002918-R	SYSCOMMON	
EXESGL_PFAILTIM	80002868-R	SYSCOMMON	INIT
EXESGL_PPFATIM	8000286C-R	SYSCOMMON	POWERFAIL
			POWERFAIL
			RSE
			SWAPPER
			SWAPPER
EXESGL_PGDYNMTX	800028C8-R	SYSCOMMON	
EXESGL_PWRDONE	80002190-R	POWERFAIL	
EXESGL_PWRINTVL	80002194-R	POWERFAIL	
EXESGL_RPB	800034C8-R	SYSPARAM	
EXESGL_RTBITMAP	80002928-R	SYSCOMMON	BUGCHECK
EXESGL_RTIMESPT	80003320-R	SYSPARAM	INIT
EXESGL_SAVEDUMP	80002784-R	SYSCOMMON	INIT
EXESGL_SCB	800034D4-R	SYSPARAM	
EXESGL_SHBLIST	80002924-R	SYSCOMMON	INIT
			MEMORYALC
			XDELTA
			SHMGSDRTN
			SYASCEFC
EXESGL_SHMGSMTX	800028D0-R	SYSCOMMON	
EXESGL_SHMMRMTX	800028D4-R	SYSCOMMON	
EXESGL_SITESPEC	80002950-R	SYSCOMMON	
EXESGL_SPLITADR	80002914-R	SYSCOMMON	
EXESGL_SVAPTE	80002984-R	SYSCOMMON	INIT
EXESGL_SYSFLAGS	8000297C-R	SYSCOMMON	INIT
EXESGL_SYSMMSG	80002900-R	SYSCOMMON	MOUNTVER
EXESGL_SYSUCB	80002758-R	SYSCOMMON	SYSGETMSG
EXESGL_SYSUIC	800032F8-R	SYSCOMMON	INIT
EXESGL_SYSWCBBL	8000283C-R	SYSPARAM	EXSUBROUT
EXESGL_SYSWCBFL	80002838-R	SYSCOMMON	
EXESGL_TENUSEC	80002948-R	SYSCOMMON	SYSIMGACT
EXESGL_TODR	80003208-R	SYSCOMMON	INIT
EXESGL_TQFL	80002870-R	SYSPARAM	POWERFAIL
			EXSUBROUT
			SYSETIME
			POWERFAIL
			SYSETIME
EXESGL_USRCHME	80002700-R	SYSCOMMON	
EXESGL_USRCHMK	800026FC-R	SYSCOMMON	
EXESGL_USRUNDWN	80002904-R	SYSCOMMON	
EXESGL_WCBDELBL	80002834-R	SYSCOMMON	
EXESGL_WCBDELFL	80002830-R	SYSCOMMON	
EXESGL_BLKHOLWQ	80002988-R	SYSCOMMON	SHMGSDRTN
EXESGL_BOOTCB_D	8000277C-R	SYSCOMMON	MOUNTVER
EXESGL_ERLMBX	800026F4-R	SYSCOMMON	BUGCHECK
			INIT
			SYSRUNDWN

Symbol	Value	Defined By	Referenced By ...
EXESGQ_SYSDISK	80013539-R	PROCSTR	SYSCREPRC
EXESGQ_SYSTIME	80002860-R	SYSCOMMON	ACCOUNT
			IOPERFORM
			POWERFAIL
			SYSDELPRC
			SYSSCHEVT
			YSWAIT
			POWERFAIL
EXESGQ_TODCBASE	80003200-R	SYSPARAM	
EXESGT_STARTUP	80003510-R	SYSPARAM	
EXESGW_PGFL_FID	800034EA-R	SYSPARAM	
EXESGW_SCANPIX	800028FE-R	SYSCOMMON	TIMESCHDL
EXESHIBER	8000A05B-R	SYSPCNTRL	CMODSSDSP
EXESHWCLKINT	80008D40-R	TIMESCHDL	
EXESIMGACT	800104CE-R	SYSIMGACT	CMODSSDSP
EXESIMGDELMG	80016897-R	ACCOUNT	SYSRUNDWN
EXESIMGFIX	8000D47E-R	IMGACTSUB	CMODSSDSP
EXESIMGPURMSG	8001688E-R	ACCOUNT	
EXESIMGSTA	800166D7-R	SYSIMGSTA	CMODSSDSP
EXESINIBOOTADP	80002EC4-R	SYSLOAVEC	BUGCHECK
EXESINIPROCREG	80002EDC-R	SYSLOAVEC	INIT
EXESINIT	8001B06C-R	INIT	POWERFAIL
EXESINIT_DEVICE	800037B4-R	POWERFAIL	INIT
EXESINSERTIRP	80008972-R	SYSQIOREQ	IOCIOPST
EXESINSIOQ	80008957-R	SYSQIOREQ	IOCIOPST
EXESINSTIMG	80007A6E-R	EXSUBROUT	SYSSCHEVT
EXESINT54	80002E90-R	SYSLOAVEC	SYSSETIME
EXESINT58	80002E98-R	SYSLOAVEC	TIMESCHDL
EXESINT5C	80002EA0-R	SYSLOAVEC	
EXESINT60	80002EA8-R	SYSLOAVEC	
EXESIOFORK	80008CC4-R	FORKCNTRL	
EXESIORSNWAIT	8000822C-R	SYSQIOFDT	MBDRIVER
EXESIPAPBKAST	800088C3-R	ASTDEL	
EXESIPCONTROL	80008D70-R	IPCONTROL	
EXESKERSTKNV	80003CFC-R	EXCEPTION	
EXESLCKPAG	800104F1-R	SYSLKWSET	CMODSSDSP
EXESLKWSET	800104EA-R	SYSLKWSET	CMODSSDSP
EXESLOAD_ERROR	80002F1C-R	SYSLOAVEC	INITVEC
EXESMAXACMODE	8000D426-R	EXSUBROUT	COMDRVSUB
			SYSANEVT
			SYSDBGLSC
			SYSMAILBX
			SYSSETPRA
			SCSVEC
			SYSASSIGN
			SYSREDEL
			SYSENGDEQ
			SYSRUNDWN
			SYSSETEXV
EXESMCHECK	80003D00-R	EXCEPTION	
EXESMCHK	80002E88-R	SYSLOAVEC	
EXESMCHK_BUGCHK	80003E0B-R	EXCEPTION	
EXESMCHK_ERRCNT	80002F18-R	SYSLOAVEC	
EXESMCHK_PRTCT	80003DE3-R	EXCEPTION	ERRORLOG
EXESMCHK_TEST	80003E4D-R	EXCEPTION	
EXESMGBLSC	8000EECF-R	SYSRMPSC	CMODSSDSP
EXESMODIFY	8000825E-R	SYSQIOFDT	
EXESMODIFYLOCK	80008296-R	SYSQIOFDT	
EXESMODIFYLOCKR	80008299-R	SYSQIOFDT	

Symbol	Value	Defined By	Referenced By ...
EXESMOUNTVER	8000BA2D-R	MOUNTVER	
EXESMULTIQUOTA	80009280-R	EXSUBROUT	
EXESNAMPID	8000A080-R	SYSPCNTRL	
EXESNETSNDERL	80010EF9-R	SYSNDMSG	SYSDELPRC SYSCHEVT SYSFORCEX SYSSETPRI
EXESNULLPROC	80007B06-R	NULLPROC	
EXESNUMTIM	8000F1FE-R	SYSVRTIM	PDAT
EXESONEPARM	80008252-R	SYSQIOFDT	CMODSSDSP
EXESOPCCUS	80003D08-R	EXCEPTION	
EXESOPCDEC	80003D10-R	EXCEPTION	
EXESOPEN_MSG	800139E5-R	OPENMSG	
EXESOPRSNDERL	80010EF3-R	SYSNDMSG	EXCEPTMSG SYSPUTMSG
EXESOUTBLANK	8001C74E-R	CONSOLIO	BUGCHECK
EXESOUTCHAR	8001C753-R	CONSOLIO	BUGCHECK
EXESOUTCRLF	8001C7AE-R	CONSOLIO	BUGCHECK
EXESOUTCSTRING	8001C788-R	CONSOLIO	BUGCHECK
EXESOUTHEX	8001C734-R	CONSOLIO	BUGCHECK
EXESOUTZSTRING	8001C78D-R	CONSOLIO	BUGCHECK
EXESPAGEERR	80003D42-R	EXCEPTION	INIT
EXESPOWERAST	80010C95-R	SYSSETPRA	PAGEFAULT
EXESPOWERFAIL	800044D8-R	POWERFAIL	SWAPPER
EXESPRCDELMSG	800169A7-R	ACCOUNT	
EXESPRCPURMSG	8001699E-R	ACCOUNT	SYSDELPRC
EXESPROBER	800092E4-R	EXSUBROUT	
EXESPROBER_DBC	8000D435-R	EXSUBROUT	
EXESPROBEW	8000932D-R	EXSUBROUT	CMODSSDSP SYSBRODST EXCEPTION SYSGETJPI SYSGETDEV SYSGETMSG SYSNDMSG IOCIOPST SYSACPFDT SYSGETSYI
EXESPROBEW_DBC	8000D439-R	EXSUBROUT	
EXESPROCIMGACT	800137F3-R	PROCSTRT	
EXESPROCSTRT	80009A40-R	PROCSTRT	
EXESPURGWS	80010BA9-R	SYSPURGWS	SHELL
EXESPUTMSG	80012236-R	SYSPUTMSG	CMODSSDSP
EXESPWRTIMCHK	80003882-R	POWERFAIL	CMODSSDSP
EXESQIO	80008624-R	SYSQIOREQ	
EXESQIOACPPKT	80008936-R	SYSQIOREQ	CMODSSDSP SYSACPFDT
EXESQIODRVPKT	80008920-R	SYSQIOREQ	MBDRIVER
EXESQIORETURN	80008950-R	SYSQIOREQ	MBDRIVER SYSACPFDT
EXESRADRMOD	80003D4C-R	EXCEPTION	
EXESREAD	80008264-R	SYSQIOFDT	
EXESREADCHK	80008324-R	SYSQIOFDT	
EXESREADCHKR	80008338-R	SYSQIOFDT	MBDRIVER
EXESREADDEF	80009FA9-R	SYSEVTSRV	
EXESREADLOCK	80008290-R	SYSQIOFDT	CMODSSDSP
EXESREADLOCKR	800082A3-R	SYSQIOFDT	SYSACPFDT
EXESREFLECT	80012E8E-R	EXCEPTION	
EXESREGRESTOR	80002ED0-R	SYSLOAVEC	CMODSSDSP
EXESREGSAVE	80002ED6-R	SYSLOAVEC	POWERFAIL
EXESRESTART	80003600-R	POWERFAIL	POWERFAIL
EXESRESUME	8000A046-R	INIT	INIT
EXESRH780_INT	80002EF4-R	SYSPCNTRL	CMODSSDSP
EXESRMSEXH	8001396E-R	SYSLOAVEC	MBMAINTDSP
EXESRMVTIMQ	80007A95-R	PROCSTRT	
		EXSUBROUT	SYSANEVT

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
EXESROPRAND	80003D54-R	EXCEPTION	INIT XDELTA
EXESRUNDWN	80012435-R	SYSRUNDWN	CMODSSDSP
EXESSCHDWK	8000848B-R	SYSSCHEVT	CMODSSDSP
EXESSENDMSG	80010E95-R	SYSSNDMSG	ACCOUNT
EXESSENSEMODE	8000841B-R	SYSQIOFDT	
EXESSETAST	8000E4E4-R	SYSASTCON	CMODSSDSP
EXESSETCHAR	800083E7-R	SYSQIOFDT	
EXESSETEF	80009FCD-R	SYSEVTSRV	CMODSSDSP
EXESSETEXV	80010BE9-R	SYSSETEXV	CMODSSDSP
EXESSETIME	8001288F-R	SYSSETIME	CMODSSDSP
EXESSETIMR	800084ED-R	SYSSCHEVT	CMODSSDSP
EXESSETHODE	80008405-R	SYSQIOFDT	
EXESSETOPR	80010F45-R	SYSSNDMSG	
EXESSETPFM	800126CC-R	SYSSETPFM	CMODSSDSP
EXESSETPRA	80010C61-R	SYSSETPRA	CMODSSDSP
EXESSETPRI	80008989-R	SYSSETPRI	CMODSSDSP
EXESSETPRN	8000A14B-R	SYSPCNTRL	CMODSSDSP
EXESSETPRT	80010D06-R	SYSSETPRT	CMODSSDSP
EXESSETPRV	800128ED-R	SYSSETPRV	CMODSSDSP
EXESSETRWM	80010C2C-R	SYSSETMOD	CMODSSDSP
EXESSETSPM	80010C33-R	SYSSETMOD	CMODSSDSP
EXESSETSSF	800129CB-R	SYSSETSSF	CMODSSDSP
EXESSETSTK	800129E8-R	SYSSETSTK	CMODSSDSP
EXESSETSWM	80010C41-R	SYSSETMOD	CMODSSDSP
EXES\$HM_DELETE	80009ACB-R	SYSASCEFC	
EXES\$SHUTDWNADP	80002F12-R	SYSLOAVEC	BUGCHECK
EXES\$SIGTORET	800131F9-R	EXCEPTION	SYSFAO SYSGETMSG SYSUNWIND
EXES\$NDACC	80010D47-R	SYSSNDMSG	CMODSSDSP
EXES\$NDERR	80010EFF-R	SYSSNDMSG	CMODSSDSP
EXES\$NDEVMSG	8000144E-R	MBDRIVER	MOUNTVER
EXES\$NDOPR	80010D6D-R	SYSSNDMSG	CMODSSDSP
EXES\$NDSMB	80010D5A-R	SYSSNDMSG	CMODSSDSP
EXES\$NGLEQUOTA	800092AD-R	EXSUBROUT	SYSQIOREQ SYSUPDSEC
EXES\$RCHANDLER	8001300C-R	EXCEPTION	CMODSSDSP
EXES\$SFIL	80003D70-R	EXCEPTION	CMODSSDSP
EXES\$SUCCESS	8000D131-R	CMODSSDSP	MDAT
EXES\$USPND	80009FF0-R	SYSPCNTRL	CMODSSDSP
EXES\$SWAPINIT	80016850-R	SWAPPER	PDAT
EXES\$WTIMINT	80008DA0-R	TIMESCHDL	
EXE\$TBIT	80003D5C-R	EXCEPTION	INIT XDELTA
EXE\$TEST_CSR	80002EE2-R	SYSLOAVEC	POWERFAIL
EXE\$TIMEOUT	80008E69-R	TIMESCHDL	SYSCOMMON
EXE\$TRNLOG	800106D7-R	SYSLOGNAM	CMODSSDSP
EXE\$ULKPKG	800104DA-R	SYSLKWSET	CMODSSDSP
EXE\$ULWSET	800104D3-R	SYSLKWSET	CMODSSDSP
EXE\$UNWIND	80012A3A-R	SYSUNWIND	CMODSSDSP
EXE\$UPDSEC	80010FAC-R	SYSUPDSEC	CMODSSDSP
EXE\$V_BLKHOLBSY	00000000	SYSCOMMON	MOUNTVER
EXE\$V_BUGDUMP	00000010	SYSPARAM	BUGCHECK
EXE\$V_BUGREBOOT	00000000	SYSPARAM	BUGCHECK
EXE\$V_CONCEALED	00000012	SYSPARAM	INIT
EXE\$V_CRDENABL	00000006	SYSPARAM	MAHANDLER

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
EXESV└DISMOUMSG	00000001	SYSPARAM	
EXESV└EXPLICITP	00000014	SYSPARAM	
EXESV└EXPLICIT8	00000015	SYSPARAM	
EXESV└FATAL└BUG	0000000A	SYSPARAM	
EXESV└INIT	00000008	SYSPARAM	BUGCHECK
EXESV└JOBQUEUES	00000018	SYSPARAM	SYSIMGACT
EXESV└MOUNTMSG	00000000	SYSPARAM	
EXESV└MULTACP	00000008	SYSPARAM	
EXESV└NOAUTOCNF	00000001	SYSPARAM	
EXESV└NOCLOCK	00000005	SYSPARAM	
EXESV└NOCLOCK	0000000C	SYSPARAM	PAGEFAULT
EXESV└PAGFILDMP	00000019	SYSPARAM	
EXESV└PGFLCRIT	00000017	SYSPARAM	
EXESV└PGFLFRAG	00000016	SYSPARAM	PAGEFILE
EXESV└POOLPGING	00000003	SYSPARAM	PAGEFILE
EXESV└REINITQUE	0000001C	SYSPARAM	INIT
EXESV└REBALLOC	00000011	SYSPARAM	
EXESV└SAVEDUMP	0000001A	SYSPARAM	
EXESV└SBIERR	00000007	SYSPARAM	
EXESV└SETTIME	00000009	SYSPARAM	
EXESV└SHRF11ACP	0000000F	SYSPARAM	
EXESV└SIMULATOR	00000004	SYSPARAM	
EXESV└88INHIBIT	00000013	SYSPARAM	INIT
EXESV└SYSPAGING	00000002	SYSPARAM	INIT
EXESV└SYSUAFALT	0000000E	SYSPARAM	
EXESV└SYSWRTABL	00000000	SYSPARAM	
EXESV└TBCHK	00000018	SYSPARAM	BUGCHECK
EXESWAITFR	8000A258-R	SYSWAIT	INIT
EXERWAKE	8000A06F-R	SYSWAIT	PAGEFAULT
EXESWFLAND	8000A247-R	SYSPCNTRL	CMODSSDSP
EXESWFLOR	8000A24E-R	SYSWAIT	CMODSSDSP
EXESWRITE	8000826D-R	SYSWAIT	CMODSSDSP
EXESWRITECHK	8000832A-R	SYSQIOFDT	
EXESWRITECHKR	80008396-R	SYSQIOFDT	MBDRIVER
EXESWRITELOCK	80008293-R	SYSQIOFDT	
EXESWRITELOCKR	800082AA-R	SYSQIOFDT	SYSACPFDT
EXESWRTMAILBOX	8000147E-R	SYSQIOFDT	
EXESZEROPARM	80008258-R	MBDRIVER	SYSBRDCST
FCBSB└DIRIDX	00000048	SYSQIOFDT	SYSSNDMSG
FCBSB└FID└NMX	00000025	GLOBALS	
FCBSB└FID└RVN	00000024	GLOBALS	
FCBSB└TYPE	0000000A	GLOBALS	
FCBS└C└LENGTH	00000048	GLOBALS	
FCBS└K└LENGTH	00000048	GLOBALS	
FCBS└L└EFBLK	00000040	GLOBALS	
FCBS└L└EXFCB	0000000C	GLOBALS	
FCBS└L└FCBBL	00000004	GLOBALS	
FCBS└L└FCBFL	00000000	GLOBALS	
FCBS└L└FILEOWNER	00000038	GLOBALS	
FCBS└L└FILESIZE	00000034	GLOBALS	
FCBS└L└HDLBN	00000030	GLOBALS	
FCBS└L└STLBN	0000002C	GLOBALS	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
FCBSL_STVBN	00000028	GLOBALS	
FCBSL_WLBL	00000014	GLOBALS	
FCBSL_WLFL	00000010	GLOBALS	
FCBSL_DIRIDX	00000018	GLOBALS	
FCBSL_FID	00000006	GLOBALS	
FCBSV_BADBLK	00000002	GLOBALS	
FCBSV_DIR	00000000	GLOBALS	
FCBSV_EXCL	00000003	GLOBALS	
FCBSV_MARKDEL	00000001	GLOBALS	
FCBSV_RMSLOCK	00000005	GLOBALS	
FCBSV_SPOOL	00000004	GLOBALS	
FCBSW_ACNT	00000018	GLOBALS	
FCBSW_DIRSEQ	00000044	GLOBALS	
FCBSW_FID	00000020	GLOBALS	
FCBSW_FID_NUM	00000020	GLOBALS	
FCBSW_FID_RVN	00000024	GLOBALS	
FCBSW_FID_SEQ	00000022	GLOBALS	
FCBSW_FILEPROT	0000003C	GLOBALS	
FCBSW_LCNT	0000001A	GLOBALS	
FCBSW_SEGN	00000026	GLOBALS	
FCBSW_SIZE	00000008	GLOBALS	
FCBSW_STATUS	0000001E	GLOBALS	
FCBSW_TCNT	00000046	GLOBALS	
FCBSW_UICGROUP	0000003A	GLOBALS	
FCBSW_UICMEMBER	00000038	GLOBALS	
FCBSW_VERSIONS	0000003E	GLOBALS	
FCBSW_WCNT	0000001C	GLOBALS	
FILSCACHE_INIT	800170EA-R	FILEREAD	
FILSCACHE_TRUNC	8001715E-R	FILEREAD	
FILSCVTFILNAM	80016EE9-R	CVTFILNAM	FILEREAD
FILSC_DIR_SIZE	00000024	FILEREAD	
FILSC_SIZE	00000018	FILEREAD	
FILSFINDFILID	800172D3-R	FILEREAD	
FILSGQ_CACHE	80002774-R	SYSCOMMON	WK-FILEREAD INIT
FILSGT_DDDEV	8000275C-R	SYSCOMMON	WK-FILEREAD
FILSGT_DDSTRING	7FFD8E30	SHELL	FILEREAD
FILSGT_TOPSYS	8000276A-R	SYSCOMMON	WK-FILEREAD INIT
FILSMOUNT	80017243-R	FILEREAD	
FILSOPENFILE	80016FC8-R	FILEREAD	SYSIMGACT
FILSRDCHKFILHDR	800175DA-R	FILEREAD	
FILSRDWRTLBN	80017837-R	FILERWIO	FILEREAD
FILSREADVBN	80017689-R	FILEREAD	
FILSBSTATBLK	80017770-R	FILEREAD	
FILSWRITEVBN	800176B2-R	FILEREAD	
IACSAL_VECADDR	7FFE1E58	SHELL	
IACSAL_VECOPCOD	7FFE1E68	SHELL	
IACSAN_VECREGET	7FFE1E6C	SHELL	PROCSTRY SYSRUNDWN
IACSCLRIACLOCK	80006FB6-R	SYSIMGACT	PHDUTL
IACSFIXUP_ADDR	80015383-R	IMGACTSUB	
IACSFIXUP_IAP	80015284-R	IMGACTSUB	
IACSGL_IMAGCTX	7FFE1E50	SHELL	IMGACTSUB SYSIMGACT
IACSGL_PROCCTX	7FFE1E54	SHELL	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
IACSPRVSHRIMG	80015459-R	IMGACTSUB	SYSIMGACT
IACSRSET_▲IAF	80015497-R	IMGACTSUB	SYSIMGACT
IACSRCH_▲SHL_▲C	800152C3-R	IMGACTSUB	
IACSRCH_▲SHL_▲D	800152CF-R	IMGACTSUB	SYSIMGACT
INISALONONPAGED	8001BE5C-R	INIT	
INIT_▲INILOAVEC	8001C075-R	INITVEC	INIT
INISBRK	8000C3FC-R	INIT	BUGCHECK
INISOMAP	8001C075-R	INITVEC	IPCONTROL
INISMASTERWAKE	80003E68-R	INIT	XDELTA
INISMPADP	80002F0C-R	SYSLOAVEC	
INISRONLY	8000C405-R	INIT	
INISWRITABLE	8000C3FE-R	INIT	XDELTA
IOSGL_▲SCB_▲INT0	80002944-R	SYSCOMMON	BUGCHECK
IOSGL_▲UBA_▲INT0	8000293C-R	SYSCOMMON	ERRORLOG
IOSV_▲INCLUDE	0000000B	SYSSIODEF	COMDRVSUB
IOS_▲ACPCONTROL	00000038	SYSSIODEF	SYSCRMPSC
IOS_▲READBLK	00000021	SYSSIODEF	BUGCHECK
IOS_▲READVBLK	00000031	SYSSIODEF	SYSIMGACT
IOS_▲WRITEBLK	00000020	SYSSIODEF	BUGCHECK
IOCSALLOSP	8000B5E4-R	IOSUBNPAG	SYSSETIME
IOCSALOUBAMAP	8000B315-R	IOSUBNPAG	
IOCSALOUBAMAPN	8000B30E-R	IOSUBNPAG	
IOCSALOUBAMAPSP	8000B37A-R	IOSUBNPAG	
IOCSALOUBMAPRM	8000B41B-R	IOSUBNPAG	
IOCSALOUBMAPRMN	8000B414-R	IOSUBNPAG	
IOCSALTREGCOM	8000B150-R	IOSUBNPAG	
IOCSAPPLYECC	8000B6D8-R	IOSUBRAMS	
IOCSBROADCAST	8000B667-R	IOSUBNPAG	
IOCSCANCELIO	8000AFF5-R	IOSUBNPAG	MOUNTVER
IOCSCREATE_▲UCB	8000D4AD-R	IOSUBPAGD	PAGEFILE
IOCSCVTLOGPHY	8000B74C-R	IOSUBRAMS	SYSASSIGN
IOCSCVTLOGPHYU	8000B755-R	IOSUBRAMS	SYSMAILBX
IOCSCVT_▲DEVNAM	8000B60B-R	IOSUBNPAG	MOUNTVER
			SYSMAILBX
			SYSDASSGN
			SYSACPFDT
			SYSDEVALC
IOCSDELMBX	8000B00C-R	IOSUBNPAG	
IOCSDIAGBUFILL	8000B095-R	IOSUBNPAG	
IOCSDIRPOST1	8000440D-R	IOCIOPST	
IOCSDISMOUNT	8000D20F-R	DISMOUNT	SYSUPDSEC
IOCSFFCHAN	8000D531-R	IOSUBPAGD	SYSDELPRC
IOCSFILSPT	8000ACF1-R	BUFFERCTL	SYSASSIGN
IOCSGETBYTE	8000AC98-R	BUFFERCTL	SYSDGBLSC
IOCSGL_▲ADPLIST	80000C5C-R	DEVICEDAT	
IOCSGL_▲AQBLIST	800027F8-R	SYSCOMMON	INIT
IOCSGL_▲CRBTMOUT	8000280C-R	SYSCOMMON	POWERFAIL
IOCSGL_▲DEVLIST	80000C58-R	DEVICEDAT	
			TIMESCHDL
			INIT
			IOSUBPAGD
			POWERFAIL
			SYSDASSGN
			IPCONTROL
			SYSBRDCST
			SYSMAILBX
			SYSCOMMON
IOCSGL_▲DPTLIST	80000C60-R	DEVICEDAT	
IOCSGL_▲IRPBL	80002794-R	SYSCOMMON	
IOCSGL_▲IRPCNT	8000279C-R	SYSCOMMON	
IOCSGL_▲IRPFL	80002790-R	SYSCOMMON	INIT
			INIT
			MEMORYALC
			MEMORYALC
			PAGEFAULT
			SWAPPER
			SYSQIOREQ
			WRTMFYPAG

Symbol	Value	Defined By	Referenced By ...	
IOCSGL_IRPMIN	800027A0-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_IRPREM	80002798-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_LRPBL	800027C4-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_LRPCNT	800027D8-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_LRPFL	800027C0-R	SYSCOMMON	MEMORYALC	
IOCSGL_LRPMIN	800027CC-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_LRPREM	800027D4-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_LRPsize	800027C8-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_LRPSPLIT	800027D0-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_Mutex	800028C0-R	SYSCOMMON	Mutex	
IOCSGL_PFKBINT	800027F4-R	SYSCOMMON	MEMORYALC	
IOCSGL_POOLFKB	800027DC-R	SYSCOMMON	MEMORYALC	
IOCSGL_PsBL	8000278C-R	SYSCOMMON	COMDRVSUB	IOCIOPost
			SYSCANCEL	IOSUBNPAG
			IOCIOPost	
IOCSGL_PsFL	80002788-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_SRPBL	800027A8-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_SRPCNT	8000278C-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_SRPFL	800027A4-R	SYSCOMMON	MEMORYALC	SYSENGDEQ
IOCSGL_SRPMin	800027B0-R	SYSCOMMON	INIT	
IOCSGL_SRPREM	800027B8-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_SRPsize	800027AC-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_SRPSPLIT	800027B4-R	SYSCOMMON	INIT	MEMORYALC
IOCSGQ_BRDCST	80002804-R	SYSCOMMON	SYSBRDCST	
IOCSGQ_MOUNTLST	800027FC-R	SYSCOMMON	SYSGETDEV	
IOCSGW_LAMAPREG	8000331E-R	SYSPARAM		
IOCSGW_MAXBUF	800032FE-R	SYSPARAM	EXSUBROUT	SYSSNDMSG
IOCSGW_MBXBFQUO	80003300-R	SYSPARAM	SYSMAILBX	
IOCSGW_MBXMXMSG	80003302-R	SYSPARAM	SYSMAILBX	
IOCSGW_MBXNMMSG	80003304-R	SYSPARAM		
IOCSGW_MVTIMEOUT	800032FC-R	SYSPARAM	MOUNTVER	
IOCSGW_XFMXRATE	8000331C-R	SYSPARAM		
IOCSINITBUFWIND	8000ACBA-R	SYSCOMMON	BUFFERCTL	
IOCSINITDRV	8001C118-R	SYSCOMMON	RELOCDRV	
IOCSINITIATE	8000B1E3-R	IOSUBNPAG	INIT	SYSGIOREQ
IOCSIOPOST	80003E74-R	IOCIOPost	MOUNTVER	
IOCSLOADMBAMAP	8000B875-R	LOADMREG		
IOCSLOADUBAMAP	8000B8D6-R	LOADMREG		
IOCSLOADUBAMAPA	8000B8BF-R	LOADMREG		
IOCSLOADUBAMAPN	8000B95D-R	LOADMREG		
IOCSLUBAUDAMAP	8000B99C-R	LOADMREG		
IOCSMAPVBLK	8000B777-R	IOSUBRAMS	IOCIOPost	SYSACPFDT
IOCSMNTVER	8000B1DA-R	IOSUBNPAG	MBDRIVER	NLDRIVER
IOCSMOVFRUSER	8000ACC1-R	BUFFERCTL		
IOCSMOVFRUSER1	8000ACD2-R	BUFFERCTL		
IOCSMOVFRUSER2	8000ACC5-R	BUFFERCTL		
IOCSMOVTOUSER	8000ACD9-R	BUFFERCTL		
IOCSMOVTOUSER1	8000ACEA-R	BUFFERCTL		
IOCSMOVTOUSER2	8000ACDD-R	BUFFERCTL		
IOCSPTETOPFN	8000B949-R	LOADMREG	BUFFERCTL	IOLOCK
IOCSPURGDATAP	80002EE8-R	SYSLOAVEC		IOSUBRAMS
IOCSPUTBYTE	8000ACA9-R	BUFFERCTL		
IOCSQNXTSEG	80004242-R	IOCIOPost		

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
IOCSQNXITSEG1	8000424E-R	IOCIOPOST	
IOCSREINITDRV	8001C11E-R	RELOCDRV	
IOCSRELCHAN	8000B0C2-R	IOSUBNPAG	SYSQIOREQ
IOCSRELDATAP	8000B26C-R	IOSUBNPAG	
IOCSRELDATAPUDA	8000B25E-R	IOSUBNPAG	
IOCSRELMAPREG	8000B4E5-R	IOSUBNPAG	
IOCSRELMAPUDA	8000B4C3-R	IOSUBNPAG	
IOCSRELOC_DDT	8001C1B9-R	RELOCDRV	POWERFAIL
IOCSRELSCHAN	8000B0B8-R	IOSUBNPAG	
IOCSREQCOM	8000B175-R	IOSUBNPAG	MBDRIVER
IOCSREQDATAP	8000B20C-R	IOSUBNPAG	
IOCSREQDATAPNW	8000B21E-R	IOSUBNPAG	
IOCSREQDATAPUDA	8000B22C-R	IOSUBNPAG	
IOCSREQMAPREG	8000B2D2-R	IOSUBNPAG	
IOCSREQMAPREGN	8000B2CE-R	IOSUBNPAG	
IOCSREQMAPUDA	8000B2B9-R	IOSUBNPAG	
IOCSREQPCHANH	8000B119-R	IOSUBNPAG	
IOCSREQPCHANL	8000B122-R	IOSUBNPAG	
IOCSREQSCHANH	8000B105-R	IOSUBNPAG	
IOCSREQSCHANL	8000B10F-R	IOSUBNPAG	
IOCSRETURN	8000B59D-R	IOSUBNPAG	
IOCSSEARCHALC	8000D57A-R	IOSUBPAGD	CONINTDSP POWERFAIL SYSDEVALC
IOCSSEARCHDEV	8000D57F-R	IOSUBPAGD	SYSASSIGN SYSBRDCST SYSSENDMSG
IOCSSEARCHGEN	8000D575-R	IOSUBPAGD	
IOCSSENSEDISK	8000B86A-R	IOSUBRAMS	
IOCSTHREADCRB	80002F92-R	SCSVEC	
IOCSUNLOCK	8000D765-R	IOSUBPAGD	SYSASSIGN SYSGETDEV
IOCSUPDATRASP	8000B82E-R	IOSUBRAMS	SYSMAILBX
IOCSVERIFYCHAN	8000D777-R	IOSUBPAGD	SYSCANCEL SYSGETDEV SYSSENDMSG
IOCSWAKACP	800042A5-R	IOCIOPOST	
IOCSWFIKPC	8000B59E-R	IOSUBNPAG	
IOCSWFIRLCH	8000B5C0-R	IOSUBNPAG	
IPLS_ASTDEL	00000002	GLOBALS	
IPLS_HWCLK	00000018	GLOBALS	
IPLS_IOPOST	00000004	GLOBALS	
IPLS_MAILBOX	00000008	GLOBALS	
IPLS_POWER	0000001F	GLOBALS	
IPLS_QUEUEAST	00000006	GLOBALS	
IPLS_SCHED	00000003	GLOBALS	
IPLS_SCS	00000008	GLOBALS	
IPLS_SYNCH	00000007	GLOBALS	
IPLS_TIMER	00000007	GLOBALS	
KFISGL_F11AACP	800028E4-R	SYSCOMMON	SYSCANEVT SYSIMGACT
LCKSCOMPAT_TBL	8000A540-R	SYSENGDEQ	DEADLOCK
LCKSDEQLOCK	8000AB54-R	SYSENGDEQ	DEADLOCK
LCKSGB_MAXDEPTH	80002978-R	SYSCOMMON	INIT
LCKSGL_EXTRASTK	8000322C-R	SYSPARAM	SYSENGDEQ INIT

Symbol	Value	Defined By	Referenced By ...
LCK\$GL_HASHTBL	80002964-R	SYSCOMMON	INIT SYSENGDEQ
LCK\$GL_HTBLCNT	80002968-R	SYSCOMMON	INIT SYSENGDEQ
LCK\$GL_HTBLSIZ	8000332C-R	SYSPARAM	INIT
LCK\$GL_IDTBL	80002958-R	SYSCOMMON	INIT SYSENGDEQ
LCK\$GL_IDTBL\$IZ	80003328-R	SYSPARAM	INIT
LCK\$GL_MAXID	80002960-R	SYSCOMMON	INIT SYSENGDEQ
LCK\$GL_NXTID	8000295C-R	SYSCOMMON	INIT SYSENGDEQ
LCK\$GL_PRCMAP	80002974-R	SYSCOMMON	DEADLOCK INIT
LCK\$GL_TIMEOUT	8000296C-R	SYSCOMMON	SYSENGDEQ TIMESCHDL
LCK\$GL_WAITTIME	80003330-R	SYSPARAM	INIT SYSENGDEQ
LCK\$GRANTCVTS	8000AAB9-R	SYSENGDEQ	DEADLOCK
LCK\$GRANTWTRS	8000AAF1-R	SYSENGDEQ	
LCK\$REGRANTLOCK	8000A8A5-R	SYSENGDEQ	DEADLOCK
LCK\$SEARCHDLCK	8000A32C-R	DEADLOCK	TIMESCHDL
LIB\$CVT_DTB	800119B7-R	CVT_ATB	CVTFILNAM
LIB\$CVT_HTB	800119C5-R	CVT_ATB	
LIB\$CVT_OTB	800119BE-R	CVT_ATB	
LIB\$GB_OPINFO	00000000	LIB\$VAX_INST	LIB\$INS_DECODE
LIB\$GB_OPINFO1	80019D10-R	LIB\$VAX_INST	LIB\$INS_DECODE LIB\$VAX_INST
LIB\$GB_OPINFO2	8001A510-R	LIB\$VAX_INST	LIB\$INS_DECODE LIB\$VAX_INST
LIB\$INS_DECODE	80019676-R	LIB\$INS_DECODE	WK-XDELTA
LIB\$ATTCONSTO	0015827C	LIB\$MSGDEF	EXCEPTION
LOG\$AB_HTBLCNT	8000274C-R	SYSCOMMON	LOGNAMSUB SWAPPER
LOG\$AL_DISKLOG	8001AE00-R	INIT	
LOG\$AL_LOGTBL	80002738-R	SYSCOMMON	INIT LOGNAMSUB SWAPPER
LOG\$AL_Mutex	80002750-R	SYSCOMMON	SYSLOGNAM
LOG\$DELETE	8000D7AE-R	LOGNAMSUB	DISMOUNT SYSLOGNAM
LOG\$GL_HTBLSIZ	80003358-R	SYSPARAM	SWAPPER
LOG\$GL_HTBLSIZG	8000335C-R	SYSPARAM	
LOG\$GL_HTBLSIZP	80003360-R	SYSPARAM	PROCSTRT
LOG\$HASH	8000D8B8-R	LOGNAMSUB	
LOG\$INSLOGN	8000D7DC-R	LOGNAMSUB	SWAPPER SYSLOGNAM
LOG\$INSLOGN_LCK	8000D7E2-R	LOGNAMSUB	SYSMAILBX
LOG\$LOCKR	8000D82E-R	LOGNAMSUB	SYSGETDEV
LOG\$LOCKW	8000D834-R	LOGNAMSUB	DISMOUNT IOSUBNPAG SYSLOGNAM
LOG\$SEARCHLOG	8000D84F-R	LOGNAMSUB	SYSMAILBX
LOG\$TRANSLATE	8000D912-R	LOGNAMSUB	SYSLOGNAM
LOG\$TRNSLOGNAME	8000D8F4-R	LOGNAMSUB	IOSUBNPAG
LOG\$UNLOCK	8000D83A-R	LOGNAMSUB	SYSMAILBX
MASINITIAL	80001CE1-R	MAHANDLER	POWERFAIL
MASINT	80001B8C-R	MAHANDLER	
MASRAVAIL	80001B51-R	MAHANDLER	MEMORYALC
MASREQUEST	80001AB6-R	MAHANDLER	POSTEF
MBSDDT	800013E8-R	MBDRIVER	DEVICEDAT
MBSDPT	80001274-R	MBDRIVER	INIT
MBSGL_DDB	80000F84-R	DEVICEDAT	
MBSGL_UCB1	8000103C-R	DEVICEDAT	
MBSGL_UCB2	800010C0-R	DEVICEDAT	
MBSUCB0	80000F88-R	DEVICEDAT	SYSMAILBX

Symbol	Value	Defined By	Referenced By ...
MBASINITIAL	800013DC-R	MBAINTDSP	POWERFAIL
MBA\$INT	80001330-R	MBAINTDSP	
MCHK\$GL_MASK	8000292C-R	SYSCOMMON	EXCEPTION
MCHK\$GL_SP	80002930-R	SYSCOMMON	EXCEPTION
MMG\$ALCPHD	8000DB82-R	PHDUTL	SYSADJWSL
MMG\$ALCSTX	8000DB59-R	PHDUTL	SYS\$CRMPSC
MMG\$ALC_PGFLVBN	8001197A-R	PAGEFILE	
MMG\$ALLOCPAGFIL1	800060E4-R	PAGEFILE	WRTMFYPAG
MMG\$ALLOCPAGFIL2	8000624D-R	PAGEFILE	WRTMFYPAG
MMG\$ALLOCPFN	80005BEB-R	ALLOCPFN	INIT
			MEMORYALC
			SWAPPER
			PAGEFAULT
MMG\$ALLOCSWPAREA	800060AC-R	PAGEFILE	
MMG\$ALOSHMGS0	80011292-R	SHMGS\$DRTN	PHDUTL
MMG\$ALOSHM\$PAG	80011186-R	SHMGS\$DRTN	SYS\$CRMPSC
MMG\$AL_BEGDRIVE	80001320-R	MDAT	SYS\$CRMPSC
MMG\$AL_ENDDRIVE	80001DD8-R	MDAT	INIT
MMG\$AL_FIXUPTBL	8001BEFF-R	MDAT	INIT
MMG\$AL_PGDCODEN	80018A00-R	MDAT	INIT
MMG\$AL_SYSPCB	80002608-R	PDAT	INIT
			BUGCHECK
			PAGEFAULT
			INIT
			SWAPPER
			IOLOCK
MMG\$A_ENDVEC	80000800-R	MDAT	
MMG\$A_SYSPARAM	80003200-R	MDAT	
MMG\$A_SYS_END	8001EA00-R	MDAT_END	INIT
MMG\$CALCSWAP\$SIZE	800063CC-R	PHDUTL	SYS\$CREPRC
MMG\$CE\$FTRNLOG	80011459-R	SHMGS\$DRTN	SYS\$ASCEFC
MMG\$CLR_BITMAP	80011127-R	SHMGS\$DRTN	
MMG\$CRECOM1	8000E5C9-R	SYS\$CREDEL	SYS\$GETPTI
MMG\$CRECOM2	8000E5D1-R	SYS\$CREDEL	SYS\$LKWSET
MMG\$CREPAG	8000E74A-R	SYS\$CREDEL	SYS\$PURGWS
MMG\$CRETVA	8000E5A6-R	SYS\$CREDEL	SYS\$SUPDSEC
MMG\$DALCB\$AKSTORE	80005D48-R	ALLOCPFN	PAGEFAULT
MMG\$DALCPAGFIL	800062D8-R	PAGEFILE	PAGEFAULT
			ALLOCPFN
			SWAPPER
			SYS\$CREDEL
MMG\$DALCSTX	8000DB42-R	PHDUTL	SYS\$DGBLSC
MMG\$DALCSTX\$SCN	8000DABF-R	PHDUTL	SYS\$CRMPSC
MMG\$DALCSTX\$SCN1	8000DAB8-R	PHDUTL	SYS\$CRMPSC
MMG\$DALLOCPFN	80005DAF-R	ALLOCPFN	SYS\$CRMPSC
MMG\$DEALLOCPAGFIL	800062E1-R	PAGEFILE	INIT
MMG\$DECPHDREF	80005B8A-R	PAGEFAULT	SYS\$CREPRC
MMG\$DECPHDREF1	80005B8E-R	PAGEFAULT	SYS\$DELPRC
MMG\$DECPTRF	80005B23-R	PAGEFAULT	INIT
			ALLOCPFN
			IOCIOPST
			IOLOCK
			SWAPPER
MMG\$DECS\$CRE\$F	8000640F-R	PHDUTL	SYS\$CREDEL
			SYS\$SETPRT
			SYS\$CRMPSC
			SYS\$DGBLSC
			SYS\$DELPRC
MMG\$DECS\$HMREF	80007788-R	SHMGS\$DRTN	
MMG\$DELCONPFN	80005C00-R	ALLOCPFN	
MMG\$DELGBL\$SEC	80006D9B-R	SYS\$DGBLSC	
MMG\$DELGBL\$WCB	8000FC03-R	SYS\$DGBLSC	
MMG\$DELPAG	80006AB8-R	PHDUTL	PHDUTL
MMG\$DELPFN\$LIST	80005CF9-R	ALLOCPFN	SYS\$CRMPSC
MMG\$DELSHMGS	80011802-R	SHMGS\$DRTN	SYS\$CREDEL
MMG\$DELSLEPPG	80005A13-R	PAGEFAULT	SYS\$DGBLSC
			PHDUTL
			SYS\$CREDEL

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
MMGSDELWSLEX	800059EF-R	PAGEFAULT	SWAPPER
MMGSDBGLSC1	8000FA05-R	SYSDBGLSC	SYSIMGACT
MMGSEXTRADYNWS	80006A01-R	SYSADJWSL	OSWPSCHED PHDUTL SYSCREDEL
			SYSLKWSET
MMGSFIND1STGSD	80011389-R	SHMGSDRTN	SYSDBGLSC
MMGSFINDGSDPFN	80007712-R	SHMGSDRTN	SYSCREDEL SYSUPDSEC
MMGSFINDGSNOTRN	8001170B-R	SHMGSDRTN	SYSCRMPS
MMGSFINDSHB	800113B1-R	SHMGSDRTN	SYSASCEFC
MMGSFINDSHD	80007825-R	SHMGSDRTN	SYSUPDSEC
MMGSFREEGSD	8001131D-R	SHMGSDRTN	
MMGSFREWSLE	8000586B-R	PAGEFAULT	IOLOCK
MMGSFREWSLX	800058FF-R	PAGEFAULT	SYSADJWSL
MMGSFRE_TRYSKIP	8000592C-R	PAGEFAULT	
MMGSFRSTRONLY	80003600-R	MDAT	INIT
MMGSGB_FREWFLGS	8000211A-R	SDAT	OSWPSCHED PAGEFAULT SWAPPER
MMGSGETGSNAM	800113E6-R	SHMGSDRTN	SYSDBGLSC
MMGSGETNXTGSD	800077AE-R	SHMGSDRTN	SYSDBGLSC
MMGSGETPTIPAG	80006E76-R	SYSGETPTI	
MMGSGL_CTLBASVA	80003470-R	SYSPARAM	PROCSTR
MMGSGL_FRESVA	80003480-R	SYSPARAM	SVAPTE
MMGSGL_GBLPAGFIL	800021D0-R	MDAT	INIT
MMGSGL_GBLSECFND	800021CC-R	MDAT	SYSCREDEL
MMGSGL_GPTBASE	8000347C-R	SYSPARAM	LOADMREG
			SYSCREDEL
			SYSGETPTI
			INIT
MMGSGL_GPTE	80003480-R	SYSPARAM	
MMGSGL_IACLOCK	80001E6C-R	SYSIMGACT	
MMGSGL_IRPNEXT	80003480-R	SYSPARAM	MEMORYALC
MMGSGL_LRPNEXT	80003484-R	SYSPARAM	MEMORYALC
MMGSGL_MAXGPTE	80003484-R	SYSPARAM	PAGEFAULT
MMGSGL_MAXPFIDX	80002188-R	PAGEFILE	SHELL
MMGSGL_MAXPFN	800034C0-R	SYSPARAM	INIT
			PAGEFAULT
			SYSCREDEL
			SYSUPDSEC
			IOLOCK
			SYSLKWSET
			WRTMFYPAG
MMGSGL_MAXSYSVA	80003488-R	SYSPARAM	
MMGSGL_MINPFN	800034C4-R	SYSPARAM	INIT
MMGSGL_NPAGEDYN	800034A8-R	SYSPARAM	INIT
MMGSGL_NPAGNEXT	800034AC-R	SYSPARAM	MEMORYALC
MMGSGL_NULLPFL	80002160-R	PAGEFILE	MEMORYALC
MMGSGL_PAGEDYN	800034BC-R	SYSPARAM	INIT
MMGSGL_PAGSHPVC	80002184-R	PAGEFILE	INIT
			INIT
			SWAPPER
			WRTMFYPAG
MMGSGL_PFNLOCK	80001E70-R	SYSLKWSET	
MMGSGL_PGDCOD	80003530-R	SYSPARAM	INIT
MMGSGL_PHPGENT	80003294-R	SYSPARAM	
MMGSGL_RMSBASE	800021C8-R	MDAT	PROCSTR
MMGSGL_SBICONF	800021C0-R	MDAT	ERRORLOG
MMGSGL_SBR	800034A4-R	SYSPARAM	
MMGSGL_SPTBASE	8000348C-R	SYSPARAM	INIT
			LOADMREG
			PAGEFAULT
			IOSUBNPAG
			MEMORYALC
			PHDUTL

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
MMG\$GL_SPTLEN	80003490-R	SYSPARAM	SHELL SYSUPDSEC
MMG\$GL_SRPNEXT	80003488-R	SYSPARAM	SVAPTE WRTMFYPAG
MMG\$GL_SYSPHD	80003494-R	SYSPARAM	MEMORYALC INIT PHDUTL SYSCRMPSC WRTMFYPAG
MMG\$GL_SYSPHDLN	80003498-R	SYSPARAM	SVAPTE PHDUTL SYSCRMPSC
MMG\$GSDMTXULK	8000F9EC-R	SYSDBGLSLSC	PHDUTL SHMGSORTN SYSCRMPSC
MMG\$GSDSCN	8000FB19-R	SYSDBGLSLSC	SYSCRMPSC
MMG\$GSDTRNLOG	80011468-R	SHMGSORTN	SYSCRMPSC
MMG\$GW_BIGPFN	800034C2-R	SYSPARAM	SYSGACT INIT
MMG\$GW_MINPFIDX	8000218C-R	PAGEFILE	SHELL
MMG\$IMGACTBUF	7FFE8800	SHELL	SHELL SYSIMGACT
MMG\$IMGHDRBUF	7FFEA400	SHELL	ACCOUNT
MMG\$IMGRESET	8000D9A2-R	PHDUTL	BUGCHECK PROCSTRT
MMG\$INADRINI	8000E623-R	SYSCREDEL	SYSRUNDOWN SYSUPDSEC
MMG\$INCPTRF	80005AE5-R	PAGEFAULT	SYSCRMPSC
MMG\$INCSHMREF	8000778B-R	SHMGSORTN	SYSCRMPSC
MMG\$INIBLDPKT	80005B99-R	PAGEFAULT	SYSCRMPSC
MMG\$ININWPFN	80005A39-R	PAGEFAULT	SYSCRMPSC
MMG\$INIWCB	80017964-R	SYSGACT	SYSUPDSEC IOLOCK
MMG\$INSPFNH	80005D73-R	ALLOCPFN	IOLOCK
MMG\$INSPFNT	80005DB1-R	ALLOCPFN	SWAPPER IOCIOPST SYSQIOFDT
MMG\$IOLOCK	80005E35-R	IOLOCK	SWAPPER
MMG\$IOLOCKPAG	80005F34-R	IOLOCK	SYSCREDEL
MMG\$LCKULKPAG	80006FF5-R	SYSLKWSET	IOLOCK
MMG\$LOCKPGTB	80005ADF-R	PAGEFAULT	IOLOCK
MMG\$MAKEWSLE	80005A7B-R	PAGEFAULT	IOLOCK
MMG\$MBXTRNLOG	80011462-R	SHMGSORTN	SYMAILBX
MMG\$MPWCHECK	80007A4A-R	OSWPSCHED	
MMG\$M_NOLASTUPD	00000001	SDAT	OSWPSCHED
MMG\$M_NOWAIT	00000002	SDAT	OSWPSCHED
MMG\$PAGEFAULT	80005078-R	PAGEFAULT	SWAPPER
MMG\$PAGETYPE	80006D71-R	SYSCREDEL	XDELTA
MMG\$PGFLTWAIT	800053BF-R	PAGEFAULT	SYSSETPRT
MMG\$PTEADRCHK	80006500-R	PAGEFAULT	SYSCREDEL
MMG\$PTEINDX	80006521-R	SVAPTE	PHOUTL
MMG\$PTEINDXCHK	80006518-R	SVAPTE	BUGCHECK
MMG\$PTEREF	80006509-R	SVAPTE	EXCEPTION
MMG\$PURGWSSCN	800071DB-R	SYSPURGWS	PAGEFAULT
MMG\$READ_GSD	8001161D-R	SHMGSORTN	SYSCREDEL
MMG\$REFCNTNEG	800060A4-R	IOLOCK	SYSCRMPSC
MMG\$RELPFN	80005D01-R	ALLOCPFN	IOCIOPST SYSCREDEL
MMG\$REMPFN	80005C8D-R	ALLOCPFN	SWAPPER
MMG\$REMPFNH	80005C82-R	ALLOCPFN	IOLOCK
MMG\$RESRCWAIT	800053A4-R	PAGEFAULT	SYSUPDSEC
			SWAPPER WRTMFYPAG PAGEFAULT WRTMFYPAG SWAPPER

Symbol	Value	Defined By	Referenced By ...
MMGSRETADRINI	8000E632-R	SYSCREDEL	SYSCRMPS
MMGSRET_BYT_QUOTA	80014AE8-R	SYSCRMPS	SYSIMGACT
MMGSRLPFNSAVPTE	80005CE4-R	ALLOCPFN	PAGEFAULT
MMGSRCNWSLX	8000719F-R	SYSLKWSET	PAGEFAULT
MMGSSETPRTPAG	800072A0-R	SYSSETPRT	
MMGSSET_BITMAP	8001111E-R	SHMGSDRTN	SYSCRMPS
MMGSSTMXLK	80011074-R	SHMGSDRTN	SYSCRMPS
MMGSSTMXLK	800110B1-R	SHMGSDRTN	SYSCRMPS
MMGSSHRCNTNEG	800060A8-R	IOLOCK	PAGEFAULT
MMGS SHRINKWS	800069A2-R	SYSADJWSL	OSWPSCHED
MMGS SUBSECREP	80006402-R	PHDUTL	IOCIOPST
MMGS SVAPTECHK	800064E7-R	SVAPTE	PAGEFAULT
			SWAPPER
			PHDUTL
			SHELL
			SYSDELPRC
			SYSLKWSET
			SYSPURGWS
MMGS SVPCTX	80005376-R	PAGEFAULT	SYSCREDEL
MMGS SWAPWSLE	80007163-R	SYSLKWSET	PHDUTL
MMGS ULKGBLWSLE	80006FE4-R	SYSLKWSET	SYSPURGWS
MMGS UNIQUEGSD	8001181B-R	SHMGSDRTN	SYSCRMPS
MMGS UNLOCK	80006051-R	IOLOCK	IOCIOPST
MMGS UPDSECAST	800110AB-R	SYSUPDSEC	IOCIOPST
MMGS VALIDATEGSD	800077AA-R	SHMGSDRTN	
MMGS VFYSECFLG	8000F992-R	SYSDBGLS	SYSCRMPS
MMGS V_NOLASTUPD	00000000	SDAT	
MMGS V_NOWAIT	00000001	SDAT	PAGEFAULT
MMGS WRITE_GSD	80011614-R	SHMGSDRTN	
MMGS WRTMFYPAG	80006668-R	WRTMFYPAG	SWAPPER
MMGS WRTPGSBAK	8000741F-R	SYSUPDSEC	SYSCREDEL
MMGS WSLEPFN	800057A4-R	PAGEFAULT	SYSLKWSET
MMGS WSPEAKCHK	8000DD11-R	SYSADJWSL	PHDUTL
MPHS ASTDELCONT	80008A46-R	ASTDEL	
MPHS ASTDELHK	80008A40-R	ASTDEL	
MPHS BUGCHKHK	8000397A-R	BUGCHECK	
MPHS INVALIDHK	80005924-R	PAGEFAULT	
MPHS NEWLVLHK	80008CA9-R	ASTDEL	
MPHS QAST	80008BE8-R	ASTDEL	
MPHS QEMPTYCONT	80008A5A-R	ASTDEL	
MPHS RESCHED	80009A54-R	SCHED	
MPHS SCHED	80009A74-R	SCHED	
MPHS AL_PTE	80001E60-R	WRTMFYPAG	INIT
MPHS AW_INITVAL	8000327E-R	SYSPARAM	
MPHS AW_PHVINDEX	80001E64-R	WRTMFYPAG	INIT
MPHS GB_PPIO	80003284-R	SYSPARAM	WRTMFYPAG
MPHS GL_BADPAGTOTAL	80001E68-R	WRTMFYPAG	
MPHS GL_THRESH	80003288-R	SYSPARAM	OSWPSCHED
MPHS GL_WAITLIM	8000328C-R	SYSPARAM	PAGEFAULT
MPHS GW_HILIM	80003280-R	SYSPARAM	INIT
MPHS GW_LOLIM	80003282-R	SYSPARAM	INIT
MPHS GW_MPWPFC	8000327E-R	SYSPARAM	INIT
			MEMORYALC
			PAGEFILE
			SYSUPDSEC
MTSCHECK_ACCESS	80008A0B-R	MTFDT	
NETSWCB	800011FC-R	DEVICEDAT	
NLSDDT	800017F0-R	NLDRIVER	DEVICEDAT

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
NLSOPT	800012AD=R	NLDRIVER	
NLSGL_DDB	80001144=R	DEVICEDAT	INIT
NLSGL_UCB0	80001178=R	DEVICEDAT	
OPSDPT	800012E6=R	CONINTDSP	INIT
OPASCRB	80000F10=R	DEVICEDAT	INIT
OPASGL_DDB	80000D9C=R	DEVICEDAT	INIT
OPASUCB0	80000DD0=R	DEVICEDAT	INIT
P1SYSVECTORS	7FFEDE00	SHELL	SWAPPER
PATSA_NONPGD_CODE	8000C452=R	MDAT	
PATSA_NONPGD_DATA	80002F80=R	MDAT	
PATSA_PAGED_CODE	80013BF4=R	MDAT	
PATSA_PFN_FIXUP	8001C06D=R	MDAT_END	
PATSGL_EXP_NPG1	8000C452=R	MDAT	
PATSGL_EXP_NPG2	80003530=R	SYSPARAM	
PCBSB_ASTACT	0000000C	GLOBALS	
PCBSB_ASTEN	0000000D	GLOBALS	
PCBSB_PRI	0000000B	GLOBALS	
PCBSB_PRI8	0000002F	GLOBALS	
PCBSB_PRI8SAV	00000029	GLOBALS	
PCBSB_PRI8AV	00000028	GLOBALS	
PCBSB_TYPE	0000000A	GLOBALS	
PCBSB_WFC	0000002E	GLOBALS	
PCBSK_LENGTH	0000009C	GLOBALS	
PCBSL_LENGTH	0000009C	GLOBALS	
PCBSL_ARB	00000084	GLOBALS	
PCBSL_ASTQBL	00000014	GLOBALS	
PCBSL_ASTQFL	00000010	GLOBALS	
PCBSL_DLCKPRI	00000094	GLOBALS	
PCBSL_EFC2P	00000058	GLOBALS	
PCBSL_EFC3P	0000005C	GLOBALS	
PCBSL_EFCS	00000050	GLOBALS	
PCBSL_EFCU	00000054	GLOBALS	
PCBSL_EFWM	0000004C	GLOBALS	
PCBSL_IPAST	00000098	GLOBALS	
PCBSL_JIB	00000078	GLOBALS	
PCBSL_LOCKQBL	00000090	GLOBALS	SYSSETPRT
PCBSL_LOCKQFL	0000008C	GLOBALS	
PCBSL_OWNER	0000001C	GLOBALS	
PCBSL_PHD	00000064	GLOBALS	
PCBSL_PHYPCB	00000018	GLOBALS	SYSSETIME
PCBSL_PID	00000060	GLOBALS	
PCBSL_PQB	0000004C	GLOBALS	SYSGETDEV
PCBSL_SQBL	00000004	GLOBALS	
PCBSL_SQFL	00000000	GLOBALS	
PCBSL_STS	00000024	GLOBALS	
PCBSL_UIC	00000088	GLOBALS	
PCBSL_WSSWP	00000020	GLOBALS	
PCBSL_WTIME	00000028	GLOBALS	
PCBSQ_PRIV	0000007C	GLOBALS	
PCBSL_LNAME	00000010	GLOBALS	
PCBSL_PRIV	00000008	GLOBALS	
PCBSL_TERMINAL	00000008	GLOBALS	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
PCBST_LNAME	00000068	GLOBALS	
PCBST_TERMINAL	00000044	GLOBALS	
PCBSV_ASTPEN	00000011	GLOBALS	
PCBSV_BATCH	0000000E	GLOBALS	
PCBSV_DELPEN	00000001	GLOBALS	
PCBSV_DISAWS	00000018	GLOBALS	
PCBSV_FORCPEN	00000002	GLOBALS	
PCBSV_HIBER	00000013	GLOBALS	
PCBSV_INQUAN	00000003	GLOBALS	
PCBSV_LOGIN	00000014	GLOBALS	
PCBSV_NETWRK	00000015	GLOBALS	
PCBSV_NOACNT	0000000F	GLOBALS	
PCBSV_NODELET	00000017	GLOBALS	
PCBSV_PHDRES	00000012	GLOBALS	
PCBSV_PSWAPM	00000004	GLOBALS	
PCBSV_PWRAST	00000016	GLOBALS	
PCBSV_RES	00000000	GLOBALS	
PCBSV_RESPEN	00000005	GLOBALS	
PCBSV_SSFEXC	00000006	GLOBALS	
PCBSV_SSFEXCE	00000007	GLOBALS	
PCBSV_SSFEXCS	00000008	GLOBALS	
PCBSV_SSFEXCU	00000009	GLOBALS	
PCBSV_SSRWAIT	0000000A	GLOBALS	
PCBSV_SUSPEN	00000008	GLOBALS	
PCBSV_SWPVBN	00000010	GLOBALS	
PCBSV_WAKEPEN	0000000C	GLOBALS	
PCBSV_WALL	0000000D	GLOBALS	
PCBSW_APTCNT	00000030	GLOBALS	
PCBSW_ASTCNT	00000038	GLOBALS	SYSGETDEV
PCBSW_BIOCNT	0000003A	GLOBALS	
PCBSW_BIOLM	0000003C	GLOBALS	
PCBSW_DIOCNT	0000003E	GLOBALS	
PCBSW_DIOLM	00000040	GLOBALS	
PCBSW_GPGCNT	00000034	GLOBALS	
PCBSW_GRP	0000008A	GLOBALS	
PCBSW_MEM	00000088	GLOBALS	
PCBSW_MTXCNT	0000000E	GLOBALS	
PCBSW_PPGCNT	00000036	GLOBALS	
PCBSW_PRCNT	00000042	GLOBALS	
PCBSW_SIZE	00000008	GLOBALS	
PCBSW_STATE	0000002C	GLOBALS	
PCBSW_TMBU	00000032	GLOBALS	
PFMSGL_PMBLST	80001E78-R	SYSSETPFM	
PFMSGL_SIZE	80001E74-R	SYSSETPFM	
PFMSMON	8000A1C0-R	SYSSETPFM	PAGEFAULT
PFMSPURGE	80012861-R	SYSSETPFM	
PFNSAB_STATE	80003508-R	SYSPARAM	ALLOCPFN IOCIOPST SHELL SYSDELPRC WRTMFYPAG ALLOCPFN
			BUGCHECK IOLOCK SWAPPER SYSDGBLSC XDELTA INIT
PFNSAB_TYPE	8000350C-R	SYSPARAM	INIT PAGEFAULT SYSCREDEL SYSUPDSEC IOCIOPST

Symbol	Value	Defined By	Referenced By ...
PFNSAL_BAK	800034F4-R	SYSPARAM	PAGEFAULT SYSCREDEL SYSUPDSEC ALLOCPFN PAGEFAULT SYSCREDEL WRTMFYPAG SWAPPER
PFNSAL_HEAD	80001DD8-R	ALLOCPFN	
PFNSAL_HILIMIT	80001E00-R	ALLOCPFN	
PFNSAL_LOLIMIT	80001E0C-R	ALLOCPFN	
PFNSAL_MFYLSTHD	80001DDC-R	ALLOCPFN	
PFNSAL_PTE	800034F0-R	SYSPARAM	WRTMFYPAG ALLOCPFN SHELL WRTMFYPAG ALLOCPFN IOLOCK SYSCREDEL WRTMFYPAG ALLOCPFN WRTMFYPAG ALLOCPFN SHELL WRTMFYPAG ALLOCPFN ALLOCPFN XDELTA
PFNSAW_REFCNT	800034F8-R	SYSPARAM	INIT SWAPPER XDELTA INIT PAGEFAULT IOLOCK SYSCREDEL SYSDELPRC XDELTA IOCIOPST SWAPPER SYSUPDSEC
PFNSAW_SWPVBN	80003504-R	SYSPARAM	INIT SWAPPER XDELTA IOCIOPST WRTMFYPAG ALLOCPFN XDELTA
PFNSAX_BLINK	80003500-R	SYSPARAM	INIT SWAPPER XDELTA IOCIOPST WRTMFYPAG ALLOCPFN XDELTA
PFNSAX_FLINK	800034FC-R	SYSPARAM	INIT SWAPPER XDELTA IOCIOPST WRTMFYPAG ALLOCPFN XDELTA
PFNSAX_SHRCNT	800034FC-R	SYSPARAM	INIT SWAPPER XDELTA IOCIOPST WRTMFYPAG ALLOCPFN XDELTA
PFNSAX_WSLX	80003500-R	SYSPARAM	INIT SWAPPER XDELTA IOCIOPST WRTMFYPAG ALLOCPFN XDELTA
PFNSA_BASE	800034F0-R	SYSPARAM	INIT SWAPPER XDELTA IOCIOPST WRTMFYPAG ALLOCPFN XDELTA
PFNSC_LONG_LEN	00000016	SYSPARAM	
PFNSC_WORD_LEN	00000012	SYSPARAM	
PFNSGB_LENGTH	800034E9-R	SYSPARAM	
PFNSGL_PHYPGCNT	80001DFC-R	ALLOCPFN	
PHVSGL_PIXBAS	800021B4-R	MDAT	INIT SYSADJWSL INIT SWAPPER XDELTA IOCIOPST WRTMFYPAG ALLOCPFN XDELTA
PHVSGL_REFCBAS	800021B8-R	MDAT	INIT SWAPPER XDELTA IOCIOPST WRTMFYPAG ALLOCPFN XDELTA
PIOSAL_RMSEXH	7FFD8FC0	SHELL	
PIOSC_SEGSIZ	00007800	SHELL	
PIOSGB_DFMBC	7FFD8E24	SHELL	
PIOSGB_DFMBFHSH	7FFD8E2A	SHELL	
PIOSGB_DFMBFIDX	7FFD8E29	SHELL	
PIOSGB_DFMBFREL	7FFD8E28	SHELL	
PIOSGB_DFMBFSDK	7FFD8E25	SHELL	
PIOSGB_DFMBF8MT	7FFD8E26	SHELL	
PIOSGB_DFMBF8UR	7FFD8E27	SHELL	
PIOSGB_RMSCOMPAT	7FFD8E2B	SHELL	
PIOSGB_RMSPROLOG	7FFD8E2C	SHELL	
PIOSGL_DIRCACHE	7FFD8E84	SHELL	
PIOSGL_DIRCFLH	7FFD8E8C	SHELL	
PIOSGL_FMLH	7FFD8E00	SHELL	
PIOSGL_IIOF8PLH	7FFD8E08	SHELL	
PIOSGT_DDSTRING	7FFD8E30	SHELL	
			RMSRESE PROCSTR
			SWAPPER XDELTA IOCIOPST WRTMFYPAG ALLOCPFN XDELTA IOCIOPST SWAPPER XDELTA WRTMFYPAG SWAPPER PAGEFAULT SWAPPER SYSCREDEL SHELL SYSLKWSET
			MEMORYALC PROCSTR SYSDELPRC SWAPPER
			SYSCREPRC

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
PIO\$GT_ENDSTR	7FFD8E12	SHELL	
PIO\$GW_DFPROT	7FFD8E22	SHELL	PROCSTRT
PIO\$GW_IIOIMPA	7FFD8F1C	SHELL	RMSRESET
PIO\$GW_PIOIMPA	7FFD8E90	SHELL	
PIO\$GW_RMSEXTEND	7FFD8E2D	SHELL	
PIO\$GW_STATUS	7FFD8E10	SHELL	
PM\$SAL_READTBL	80002E08-R	PMSDAT	
PM\$SAL_TRANSFLT	80001E38-R	PAGEFAULT	
PM\$SAL_WRITETBL	80002E30-R	PMSDAT	
PM\$SEND_IO	80003A27-R	IOPERFORM	IOSUBNPAG
PM\$SEND_RQ	80003A47-R	IOPERFORM	IOCIOPST
PM\$SGB_PROMPT	80002E80-R	PMSDAT	
PM\$SGL_ARRLOCPK	80002DC8-R	PMSDAT	
PM\$SGL_ARRTRAPK	80002DD0-R	PMSDAT	
PM\$SGL_BUFIO	80002DA8-R	PMSDAT	
PM\$SGL_CHME	80002DFC-R	PMSDAT	
PM\$SGL_CHMK	80002DF8-R	PMSDAT	
PM\$SGL_COMPAT	80002854-R	SYSCOMMON	
PM\$SGL_DEPLOCPK	80002DCC-R	PMSDAT	
PM\$SGL_DEQ	80002DE4-R	PMSDAT	SYSENGDEQ
PM\$SGL_DIRHIT	80000924-R	PMSDAT	
PM\$SGL_DIRIO	80002DA4-R	PMSDAT	IOCIOPST
PM\$SGL_DIRMISS	80000928-R	PMSDAT	
PM\$SGL_DLCKFND	80002DF4-R	PMSDAT	DEADLOCK
PM\$SGL_DLCKSRCH	80002DF0-R	PMSDAT	DEADLOCK
PM\$SGL_DOSTATS	80002E84-R	PMSDAT	
PM\$SGL_DPTSCN	80001E58-R	PAGEFAULT	
PM\$SGL_DZROFLT5	80001E34-R	PAGEFAULT	
PM\$SGL_ENQCVT	80002DE0-R	PMSDAT	SYSENGDEQ
PM\$SGL_ENQNEW	80002DDC-R	PMSDAT	SYSENGDEQ
PM\$SGL_ENQNOTQD	80002DEC-R	PMSDAT	SYSENGDEQ
PM\$SGL_ENQWAIT	80002DE8-R	PMSDAT	SYSENGDEQ
PM\$SGL_EXTHIT	8000093C-R	PMSDAT	
PM\$SGL_EXTMISS	80000940-R	PMSDAT	
PM\$SGL_FAULTS	80001E20-R	PAGEFAULT	
PM\$SGL_FCP	80000800-R	PMSDAT	
PM\$SGL_FCP2	80000800-R	PMSDAT	
PM\$SGL_FIDHIT	80000934-R	PMSDAT	
PM\$SGL_FIDMISS	80000938-R	PMSDAT	
PM\$SGL_GVALID	80001E5C-R	PAGEFAULT	
PM\$SGL_HIT	80000920-R	PMSDAT	IOSUBRAMS
PM\$SGL_IOPFMPDB	80002DC0-R	PMSDAT	IOPERFORM
PM\$SGL_IOPFMSEQ	80002DC4-R	PMSDAT	IOPERFORM
PM\$SGL_KERNEL	80002840-R	SYSCOMMON	TIMESCHDL
PM\$SGL_LDPCTX	80002E78-R	PMSDAT	
PM\$SGL_LOGNAM	80002DAC-R	PMSDAT	LOGNAMSUB
PM\$SGL_LRGRWP	80002E68-R	PMSDAT	
PM\$SGL_MBREADS	80002DB0-R	PMSDAT	MBDRIVER
PM\$SGL_MBWRITES	80002DB4-R	PMSDAT	MBDRIVER
PM\$SGL_NOSTDTRM	80002E70-R	PMSDAT	
PM\$SGL_OPEN	80000944-R	PMSDAT	
PM\$SGL_OPENS	80000948-R	PMSDAT	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
PMSSGL_PAGES	00002E00-R	PMSDAT	
PMSSGL_PASSALL	00002E60-R	PMSDAT	
PMSSGL_PREADIO	00001E28-R	PAGEFAULT	
PMSSGL_PREADS	00001E24-R	PAGEFAULT	
PMSSGL_PWRITES	00001E2C-R	PAGEFAULT	
PMSSGL_PWRITIO	00001E30-R	PAGEFAULT	
PMSSGL_QUOHIT	0000092C-R	PMSDAT	
PMSSGL_QUOMISS	00000930-R	PMSDAT	
PMSSGL_RCVBUFFL	00002DD8-R	PMSDAT	
PMSSGL_RDFLT8	00001E24-R	PAGEFAULT	
PMSSGL_READCNT	00002E58-R	PMSDAT	
PMSSGL_RWP	00002E64-R	PMSDAT	
PMSSGL_RWPNOSTD	00002E74-R	PMSDAT	
PMSSGL_RWP8SUM	00002E6C-R	PMSDAT	
PMSSGL_SPLIT	0000091C-R	PMSDAT	IOCIOPST
PMSSGL_SWITCH	00002E7C-R	PMSDAT	
PMSSGL_TRCNGLOS	00002DD4-R	PMSDAT	
PMSSGL_TREAD8	00002DB8-R	PMSDAT	
PMSSGL_TURN	00000918-R	PMSDAT	
PMSSGL_TWRITES	00002DBC-R	PMSDAT	
PMSSGL_WRTCNT	00002E5C-R	PMSDAT	
PMSSGW_BATCH	00002E04-R	PMSDAT	
PMSSGW_INTJOBS	00002E06-R	PMSDAT	
PMSSSTART_IO	00003A75-R	IOPERFORM	IOSUBNPAG
PMSSSTART_RQ	00003A98-R	IOPERFORM	IOCIOPST MOUNTVER SYSCANCEL
PQLSAB_FLAG	0000340F-R	SYSPARAM	
PQLSAB_SYSPQL	0001680E-R	SWAPPER	
PQLSAL_DEFAULT	0000339C-R	SYSPARAM	
PQLSAL_MIN	000033D4-R	SYSPARAM	
PQLSC_SYSPQLLEN	00000041	SWAPPER	
PQLSGDASTLM	000033A0-R	SYSPARAM	
PQLSGDBIOLM	000033A4-R	SYSPARAM	
PQLSGDBYTLM	000033A8-R	SYSPARAM	
PQLSGDCPULM	000033AC-R	SYSPARAM	
PQLSGDDIOLM	000033B0-R	SYSPARAM	
PQLSGDENQLM	000033CC-R	SYSPARAM	
PQLSGDFILLM	000033B4-R	SYSPARAM	
PQLSGDPGFLQUOTA	000033B8-R	SYSPARAM	
PQLSGDPRCLM	000033BC-R	SYSPARAM	
PQLSGDTQELM	000033C0-R	SYSPARAM	
PQLSGDWSDEFAULT	000033C8-R	SYSPARAM	
PQLSGDWSEXTENT	000033D0-R	SYSPARAM	
PQLSGDWSQUOTA	000033C4-R	SYSPARAM	
PQLSGMASTLM	000033D8-R	SYSPARAM	
PQLSGMBIOLM	000033DC-R	SYSPARAM	
PQLSGMBYTLM	000033E0-R	SYSPARAM	
PQLSGMCPULM	000033E4-R	SYSPARAM	
PQLSGMDIOLM	000033E8-R	SYSPARAM	
PQLSGMENQLM	00003404-R	SYSPARAM	
PQLSGMFILLM	000033EC-R	SYSPARAM	
PQLSGMPGFLQUOTA	000033F0-R	SYSPARAM	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
PQLSGMPCRLM	800033F4-R	SYSPARAM	
PQLSGMTQELM	800033F8-R	SYSPARAM	
PQLSGMWSDEFAULT	80003400-R	SYSPARAM	
PQLSGMWSEXTENT	80003408-R	SYSPARAM	
PQLSGMWSQUOTA	800033FC-R	SYSPARAM	
PRS_↑IPL	00000012	SYSPRDEF	ACCOUNT SYSENQDEQ SYSLOGNAM SHELL SYSIMGACT PAGEFAULT
			MOUNTVER SYSGETDEV SYSSNDMSG POSTEF SYSIMGACT
PRS_↑TBIA	00000039	SYSPRDEF	
PRS_↑USP	00000003	SYSPRDEF	
PRTFC_↑EW	00000005	SYSPRDEF	
PRVSV_↑ACNT	00000009	GLOBALS	
PRVSV_↑ALLSPOOL	00000004	GLOBALS	
PRVSV_↑ALTPRI	00000000	GLOBALS	
PRVSV_↑BUGCHK	00000017	GLOBALS	
PRVSV_↑BYPASS	0000001D	GLOBALS	EXSUBROUT
PRVSV_↑CMEXEC	00000001	GLOBALS	SYSIMGACT
PRVSV_↑CMKRNL	00000000	GLOBALS	SYSIMGACT
PRVSV_↑DETACH	00000005	GLOBALS	
PRVSV_↑DIAGNOSE	00000006	GLOBALS	
PRVSV_↑EXQUOTA	00000013	GLOBALS	
PRVSV_↑GROUP	00000008	GLOBALS	
PRVSV_↑GRPNAM	00000003	GLOBALS	
PRVSV_↑LOG_↑IO	00000007	GLOBALS	SYSSETIME
PRVSV_↑MOUNT	00000011	GLOBALS	
PRVSV_↑NETMBX	00000014	GLOBALS	
PRVSV_↑NOACNT	00000009	GLOBALS	
PRVSV_↑OPER	00000012	GLOBALS	SYSSETIME
PRVSV_↑PFNMAP	0000001A	GLOBALS	
PRVSV_↑PHY_↑IO	00000016	GLOBALS	
PRVSV_↑PRMCEB	0000000A	GLOBALS	
PRVSV_↑PRMGBL	00000018	GLOBALS	
PRVSV_↑PRMBX	00000008	GLOBALS	
PRVSV_↑PSWAPM	0000000C	GLOBALS	
PRVSV_↑SETPRI	0000000D	GLOBALS	
PRVSV_↑SETPRV	0000000E	GLOBALS	
PRVSV_↑SHMEM	00000018	GLOBALS	
PRVSV_↑SYSGBL	00000019	GLOBALS	
PRVSV_↑SYSLCK	0000001E	GLOBALS	
PRVSV_↑SYSNAM	00000002	GLOBALS	
PRVSV_↑SYSPRV	0000001C	GLOBALS	EXSUBROUT
PRVSV_↑TMPMBX	0000000F	GLOBALS	
PRVSV_↑VOLPRO	00000015	GLOBALS	
PRVSV_↑WORLD	00000010	GLOBALS	
PSLSC_↑EXEC	00000001	GLOBALS	
PSLSC_↑KERNEL	00000000	GLOBALS	
PSLSC_↑SUPER	00000002	GLOBALS	
PSLSC_↑USER	00000003	GLOBALS	
PSLSM_↑C	00000001	GLOBALS	
PSLSM_↑CM	80000000	GLOBALS	SYSUNWIND
PSLSM_↑CURMOD	03000000	GLOBALS	
PSLSM_↑DV	00000000	GLOBALS	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
PSLSM_FPD	08000000	GLOBALS	
PSLSM_FU	00000040	GLOBALS	SYSUNWIND
PSLSM_IPL	001F0000	GLOBALS	
PSLSM_IS	04000000	GLOBALS	
PSLSM_IV	00000020	GLOBALS	
PSLSM_N	00000000	GLOBALS	
PSLSM_PRVMOD	00C00000	GLOBALS	
PSLSM_SAFBITS	000037FF	GLOBALS	
PSLSM_TBIT	00000010	GLOBALS	
PSLSM_TP	40000000	GLOBALS	
PSLSM_V	00000002	GLOBALS	
PSLSM_Z	00000004	GLOBALS	
PSLSS_CURMOD	00000002	GLOBALS	
PSLSS_IPL	00000005	GLOBALS	
PSLSS_PRVMOD	00000002	GLOBALS	
PSL3V_C	00000000	GLOBALS	SYSGETDEV
PSL3V_CM	0000001F	GLOBALS	
PSL3V_CURMOD	00000018	GLOBALS	
PSL3V_DV	00000007	GLOBALS	
PSL3V_FPD	00000018	GLOBALS	
PSL3V_FU	00000006	GLOBALS	
PSL3V_IPL	00000010	GLOBALS	
PSL3V_IS	0000001A	GLOBALS	
PSL3V_IV	00000005	GLOBALS	
PSL3V_N	00000003	GLOBALS	
PSL3V_PRVMOD	00000016	GLOBALS	SYSGETDEV
PSL3V_TBIT	00000004	GLOBALS	
PSL3V_TP	0000001E	GLOBALS	
PSL3V_V	00000001	GLOBALS	
PSL3V_Z	00000002	GLOBALS	
RMSRESET	8000DC1C-R	RMSRESET	
RMS\$GL_SFDBASE	80002920-R	SYSCOMMON	PHOUTL SYSIMGACT
RMS\$STALL	00018001	RMS\$GLOBALS	
RMS\$STR	0001878C	RMS\$GLOBALS	CMODSSDSP
RND\$V_IACLOCK	00000000	SHELL	CMODSSDSP
RSNS_ASTWAIT	00000001	GLOBALS	SYSIMGACT
RSNS_BRKTHRU	00000006	GLOBALS	
RSNS_IACLOCK	00000007	GLOBALS	SYSIMGACT
RSNS_JQUOTA	00000008	GLOBALS	
RSNS_LOCKID	00000009	GLOBALS	
RSNS_MAILBOX	00000002	GLOBALS	
RSNS_MAX	00000000	GLOBALS	
RSNS_MPLEMPTY	00000008	GLOBALS	
RSNS_MPWBUSY	0000000C	GLOBALS	WRTMFYPAG
RSNS_NPDYNMEM	00000003	GLOBALS	WRTMFYPAG
RSNS_PGDMEM	00000005	GLOBALS	
RSNS_PGFILE	00000004	GLOBALS	
RSNS_SWPFILE	0000000A	GLOBALS	
SCH\$AQ_COMH	80001E88-R	SDAT	SCHED
SCH\$AQ_COMOH	80001F88-R	SDAT	OSWPSCHED
SCH\$AQ_COMOT	80001F8C-R	SDAT	SWAPPER
SCH\$AQ_COMT	80001E8C-R	SDAT	RSE SCHED

Symbol	Value	Defined By	Referenced By ...
SCH\$AQ_WQHDR	8000207C-R	SDAT	OSWPSCHED
SCH\$ASTDEL	80008A2C-R	ASTDEL	
SCH\$SCHSE	8000901C-R	RSE	INIT
SCH\$SCHSEP	80009038-R	RSE	SWAPPER
SCH\$CLREF	80009F9B-R	SYSEVTSRV	SYSGETJPI
			SYSGETJPI
			SYSSCHEVT
SCH\$CLREFR	80009F95-R	SYSEVTSRV	
SCH\$C_MAXPIX	0000003F	PDAT	
SCH\$FORCEEXIT	8000910B-R	RSE	
SCH\$GB_PRI	8000215B-R	SDAT	MUTEX
			TIMESCHDL
			RSE
			SCHED
SCH\$GB_RESCAN	80002119-R	SDAT	
SCH\$GB_SIP	8000211B-R	SDAT	OSWPSCHED
			RSE
			SWAPPER
SCH\$GETEFC	80009F5A-R	SYSEVTSRV	
SCH\$GL_AWSTIME	800032B0-R	SYSPARAM	
SCH\$GL_BORROWLIM	80003314-R	SYSPARAM	
SCH\$GL_COMQGS	80002114-R	SDAT	RSE
SCH\$GL_COMQS	80002110-R	SDAT	RSE
			MUTEX
			TIMESCHDL
			ASTDEL
			MBDRIVER
			PROCSTRT
			SWAPPER
			SYSRMPSC
			SYSENQDEQ
			SYSSETPRI
			TIMESCHDL
			INIT
			RSE
			INIT
			SWAPPER
			PAGEFAULT
			INIT
			SYSGETJPI
			TIMESCHDL
			OSWPSCHED
			SWAPPER
			INIT
			RSE
			WRTMFYPAG
			INIT
			OSWPSCHED
			SYSDGBLSC
			WRTMFYPAG
			SDAT
			SYSGETJPI
			COMDRVSUB
			INIT
			POSTEF
			SYSASCEFC
			DEADLOCK
			IOCIOPST
			RSE
			SYSASSIGN
SCH\$GL_CURPCB	8000210C-R	SDAT	BUGCHECK
			MEMORYALC
			SCHED
			SHMGBDRTN
			SYSREDEL
			SYSDELPRC
			SYSRMPSC
			SYSDGBLSC
			SYSGETJPI
			SYSSCHEVT
			SYSSNDMSG
			XDELTA
			PAGEFAULT
SCH\$GL_FREECNT	80001DF0-R	ALLOCPFN	OSWPSCHED
			SWAPPER
SCH\$GL_FREELIM	80001E0C-R	ALLOCPFN	PROCSTRT
			RSE
SCH\$GL_FREEREG	80001E00-R	ALLOCPFN	
SCH\$GL_GROWLIM	80003310-R	SYSPARAM	
SCH\$GL_MAXPIX	800026A8-R	PDAT	
SCH\$GL_MFYCNT	80001DF4-R	ALLOCPFN	
SCH\$GL_MFYLIM	80001E04-R	ALLOCPFN	
SCH\$GL_MFYLIMBV	80001E18-R	ALLOCPFN	
SCH\$GL_MFYLOLIM	80001E10-R	ALLOCPFN	
SCH\$GL_MFYLOSV	80001E1C-R	ALLOCPFN	
SCH\$GL_NULLPCB	80002350-R	PDAT	
SCH\$GL_PCBVEC	800026A4-R	PDAT	

Symbol -----	Value -----	Defined By -----	Referenced By ... -----	
SCH3GL_PFRATH	8000329C-R	SYSPARAM	SYSBRDCST	SYSREPRC
SCH3GL_PFRATL	80003298-R	SYSPARAM	SYSDELPRC	SYSENGDEQ
SCH3GL_PFRATS	800032A0-R	SYSPARAM	SYSPCNTRL	SYSSETPRA
SCH3GL_RESMASK	80002154-R	SDAT	WRTMFYPAG	TIMESCHDL
			RSE	
			RSE	
SCH3GL_SEQVEC	800026AC-R	PDAT	MUTEX	PAGEFAULT
SCH3GL_SWPPCB	80002568-R	PDAT	SYSQIOFDT	SYSADJWSL
SCH3GL_SWPPID	800025C8-R	PDAT	INIT	SYSSCHEVT
			INIT	
			RSE	
			RSE	
SCH3GL_SWPRATE	80003284-R	SYSPARAM	SYSGETJPI	SYSDELPRC
SCH3GL_WSDEC	800032A8-R	SYSPARAM	SWAPPER	
SCH3GL_WSINC	800032A4-R	SYSPARAM	RSE	
SCH3GQ_CEBHD	80002124-R	SDAT	RSE	
SCH3GQ_COLPGWQ	80002088-R	SDAT	OSWPSCHED	SYSASCEFC
SCH3GQ_FPGWQ	80002100-R	SDAT	IOCIOPST	PAGEFAULT
SCH3GQ_HIBWQ	800020DC-R	SDAT	ALLOCPFN	PAGEFAULT
SCH3GQ_HIBWQ	800020D0-R	SDAT		
SCH3GQ_LEFOWQ	800020C4-R	SDAT	SWAPPER	SYSPCNTRL
SCH3GQ_LEFWQ	800020B8-R	SDAT		
SCH3GQ_MWAIT	80002094-R	SDAT	SYSWAIT	
			MUTEX	PAGEFAULT
			SYSQIOFDT	SYSADJWSL
			PAGEFAULT	SYSSCHEVT
			SYSPCNTRL	SYSCREDEL
SCH3GQ_PFWQ	800020AC-R	SDAT		
SCH3GQ_SUSP	800020E8-R	SDAT		
SCH3GQ_SUSPO	800020F4-R	SDAT		
SCH3GW_ANSWEN	800032AC-R	SYSPARAM	RSE	
SCH3GW_CEBCNT	8000212C-R	SDAT	SYSASCEFC	
SCH3GW_DELPDCT	8000212E-R	SDAT	RSE	SWAPPER
SCH3GW_IOTA	8000328E-R	SYSPARAM	SYSWAIT	SYSDELPRC
SCH3GW_LONGWAIT	800032C0-R	SYSPARAM	OSWPSCHED	
SCH3GW_PROCCNT	8000211C-R	SDAT	SYSREPRC	SYSDELPRC
SCH3GW_PROCLIM	8000211E-R	SDAT	INIT	SYSREPRC
SCH3GW_QUAN	8000327C-R	SYSPARAM	RSE	SWAPPER
SCH3GW_SWPFAIL	800032C2-R	SYSPARAM	OSWPSCHED	SWAPPER
SCH3GW_SWPFCNT	80002182-R	SWAPPER	OSWPSCHED	
SCH3IOLOCKR	800097FB-R	MUTEX	SYSGETDEV	SYSNDMSG
SCH3IOLOCKW	800097E1-R	MUTEX	DISMOUNT	SYSASSIGN
			SYSDASSGN	SYSDEVALC
SCH3IOUNLOCK	80009869-R	MUTEX	DISMOUNT	IOSUBPAGD
			SYSBRDCST	SYSGETDEV
SCH3LOCKR	80009802-R	MUTEX	LOGNAMSUB	SYSNDMSG
SCH3LOCKW	800097E8-R	MUTEX	LOGNAMSUB	
			SHMGSDRTN	PHDUTL
			SYSOGBLSC	SYSRMPSC
				SYSMAILBX
SCH3LOCKWNOWAIT	800097C9-R	MUTEX		
SCH3NEWLVL	80008C86-R	ASTDEL	CMODSSDSP	SYSASTCON
			SYSDELPRC	
SCH3OSWPSCHED	80007893-R	OSWPSCHED	SWAPPER	
SCH3POSTEF	800098DD-R	POSTEF	SYSRUNDWN	
			SWAPPER	
			IOCIOPST	SYSEVT8RV

Symbol	Value	Defined By	Referenced By ...	
-----	-----	-----	-----	
SCH\$QAST	80008BE8-R	ASTDEL	SYSGETDEV SYSQIOREQ COMDRVSUB SYSASTCON SYSFORCEX SYSSETPRA TIMESCHDL IOCIOPST MEMORYALC SYSDELPRC TIMESCHDL SYSENGDEQ	SYSGETJPI SYSUPDSEC IOCIOPST SYSDELPRC SYSGETJPI TIMESCHDL MAHANDLER PAGEFILE SYSENGDEQ WRTMFYPAG IOCIOPST SHMGSDRTN SYSWAIT SYSBRDCST SYSDELPRC SYSGETJPI SYSDELPRC PAGEFAULT TIMESCHDL MEMORYALC SYSDBGLSC SWAPPER OSWPSCHED WRTMFYPAG SYSQIOFDT SYSPCNTRL IOCIOPST SYSQIOREQ SYSGETSYI TIMESCHDL RSE SYSENGDEQ SYSPCNTRL
SCH\$QEND SCH\$RAVAIL	800090AE-R 8000985B-R	RSE MUTEX	IOCIOPST MEMORYALC SYSDELPRC TIMESCHDL SYSENGDEQ	MAHANDLER PAGEFILE SYSENGDEQ WRTMFYPAG MBDRIVER SYSBRDCST SYSIMGACT
SCH\$REMOVACB SCH\$RESCHED SCH\$RSE	80008CBD-R 80009A54-R 80008F9D-R	ASTDEL SCHED RSE	ALLOCPFN OSWPSCHED SYSPCNTRL WRTMFYPAG EXSUBROUT SYSCANCEL SYSENGDEQ SYSSNDMSG INIT SYSENGDEQ ALLOCPFN SYSWAIT LOGNAMSUB SYSASCEFC SYSMAILBX	ASTDEL POSTEF SYSSETPRI MEMORYALC SYSDASSGN SYSGETJPI SYSDELPRC PAGEFAULT TIMESCHDL MEMORYALC SYSDBGLSC WRTMFYPAG
SCH\$RWAIT	800097C1-R	MUTEX	EXSUBROUT SYSCANCEL SYSENGDEQ SYSSNDMSG INIT SYSENGDEQ ALLOCPFN SYSWAIT LOGNAMSUB SYSASCEFC SYSMAILBX	SYSBRDCST SYSDELPRC SYSGETJPI SYSDELPRC PAGEFAULT TIMESCHDL MEMORYALC SYSDBGLSC SHMGSDRTN SYSIMGACT
SCH\$SCHED SCH\$SWAPACBS SCH\$SWPAKE	80009A74-R 80008CBA-R 80009225-R	SCHED ASTDEL RSE	ALLOCPFN OSWPSCHED SYSPCNTRL WRTMFYPAG EXSUBROUT SYSCANCEL SYSENGDEQ SYSSNDMSG INIT SYSENGDEQ ALLOCPFN SYSWAIT LOGNAMSUB SYSASCEFC SYSMAILBX	SYSDELPRC PAGEFAULT TIMESCHDL MEMORYALC SYSDBGLSC SHMGSDRTN SYSIMGACT
SCH\$SUNLOCK	80009870-R	MUTEX	LOGNAMSUB SYSASCEFC SYSMAILBX	SHMGSDRTN SYSIMGACT
SCH\$SUNWAIT SCH\$V_MPW SCH\$V_REORD SCH\$V_SIP SCH\$WAIT	80008FEA-R 00000002 00000000 00000000 8000A2C9-R	RSE SDAT SDAT SDAT SYSWAIT	ALLOCPFN ALLOCPFN SWAPPER SYSADJWSL SYSQIOREQ SHMGSDRTN MUTEX PAGEFAULT ERRORLOG SYSPCNTRL TIMESCHDL	SWAPPER OSWPSCHED WRTMFYPAG SYSPCNTRL SYSSCHEVT SWAPPER WRTMFYPAG
SCH\$WAITK SCH\$WAITL SCH\$WAITM SCH\$WAKE	8000A2E4-R 8000A2EF-R 8000A2F0-R 80009200-R	SYSWAIT SYSWAIT SYSWAIT RSE	SHMGSDRTN MUTEX PAGEFAULT ERRORLOG SYSPCNTRL TIMESCHDL	SYSSCHEVT SWAPPER IOCIOPST SYSQIOREQ IOPERFORM SYSSETPFM
SCS\$ACCEPT SCS\$ALLOC_CDT SCS\$ALLOC_RSPID SCS\$AL_LOAVEC SCS\$CONFIG_PTH SCS\$CONFIG_SYS SCS\$CONNECT SCS\$DEALL_CDT SCS\$DEALL_RSPID SCS\$DISCONNECT SCS\$ENTER SCS\$GB_PANPOLL	80002F44-R 80002F4A-R 80002F50-R 80002F44-R 80002F56-R 80002F5C-R 80002F62-R 80002F68-R 80002F6E-R 80002F74-R 80002F7A-R 8000334E-R	SCSVEC SCSVEC SCSVEC SCSVEC SCSVEC SCSVEC SCSVEC SCSVEC SCSVEC SCSVEC SCSVEC SYSPARAM	INIT	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
SCS\$GB_SYSTEMID	80003340-R	SYSPARAM	
SCS\$GB_UDABURST	80003356-R	SYSPARAM	
SCS\$GL_BDT	80002F30-R	SCSVEC	
SCS\$GL_CDL	80002F34-R	SCSVEC	
SCS\$GL_MCADR	80002F40-R	SCSVEC	INIT
SCS\$GL_MCLEN	80002F3C-R	SCSVEC	
SCS\$GL_RDT	80002F38-R	SCSVEC	
SCS\$GQ_CONFIG	80002F20-R	SCSVEC	
SCS\$GQ_DIRECT	80002F28-R	SCSVEC	
SCS\$GW_BDTCNT	80003334-R	SYSPARAM	
SCS\$GW_CDTCNT	80003336-R	SYSPARAM	
SCS\$GW_FLOWCUSH	8000333E-R	SYSPARAM	
SCS\$GW_MAXDG	8000333A-R	SYSPARAM	
SCS\$GW_MAXMSG	8000333C-R	SYSPARAM	
SCS\$GW_PAPOLINT	80003350-R	SYSPARAM	
SCS\$GW_PAPOLIN	80003352-R	SYSPARAM	
SCS\$GW_PAPPDGD	8000334C-R	SYSPARAM	
SCS\$GW_PASTMOUT	8000334A-R	SYSPARAM	
SCS\$GW_PASTRTRY	80003348-R	SYSPARAM	
SCS\$GW_RDTCNT	80003338-R	SYSPARAM	
SCS\$L_LISTEN	80002F80-R	SCSVEC	
SCS\$LKP_RDTCDRP	80002FA4-R	SCSVEC	
SCS\$LKP_RDTWAIT	80002FAA-R	SCSVEC	
SCS\$LOCLOOKUP	80002F86-R	SCSVEC	
SCS\$REMOVE	80002F8C-R	SCSVEC	
SCS\$RESUMEWAITR	80002F98-R	SCSVEC	
SCS\$UNSTALLUCB	80002F9E-R	SCSVEC	IOSUBNPAG
SGNSC_BALSETCNT	00000018	PDAT	
SGNSC_DFWSCNT	00000064	PDAT	
SGNSC_DFWSQUOTA	00000078	PDAT	
SGNSC_GBLSECCNT	00000028	PDAT	
SGNSC_MAXGPGCNT	00000800	PDAT	
SGNSC_MAXPAGCNT	00004000	PDAT	
SGNSC_MAXPGFL	00001000	PDAT	
SGNSC_MAXPSTCNT	00000005	PDAT	
SGNSC_MAXVPGCNT	00002000	PDAT	
SGNSC_MAXWSCNT	00000400	PDAT	
SGNSC_MINWSCNT	0000000A	PDAT	
SGNSC_NPAGEDYN	00006800	PDAT	
SGNSC_NPROCS	00000040	PDAT	
SGNSC_PAGEDYN	00004000	PDAT	
SGNSC_PFNPAISZ	00000010	MDAT_END	
SGNSC_PHPAGCNT	00001000	PDAT	
SGNSC_SYSDWSCNT	00000028	PDAT	
SGNSC_SYSVCPGS	00000004	PDAT	
SGNSC_SYSWSCNT	00000060	PDAT	
SGNS\$GB_KFILSTCT	80003210-R	SYSPARAM	
SGNS\$GB_PGTRPFC	8000320E-R	SYSPARAM	
SGNS\$GB_SYSPFC	8000320F-R	SYSPARAM	SHELL
SGNS\$GL_BALSETCT	80003230-R	SYSPARAM	INIT
SGNS\$GL_EXTRACPU	800032F4-R	SYSPARAM	INIT
SGNS\$GL_EXUSRSTK	80003254-R	SYSPARAM	RSE
			PAGEFAULT
			SWAPPER
			SYSIMGACT

Symbol	Value	Defined By	Referenced By ...
SGNSGL_FREEGOAL	8000330C-R	SYSPARAM	SWAPPER
SGNSGL_FREELIM	80003308-R	SYSPARAM	INIT
SGNSGL_GBLPAGFIL	80003218-R	SYSPARAM	INIT
SGNSGL_IRPCNT	80003234-R	SYSPARAM	
SGNSGL_IRPCNTV	80003238-R	SYSPARAM	MEMORYALC
SGNSGL_IRPCNT	80003258-R	SYSPARAM	
SGNSGL_LRPCNTV	8000325C-R	SYSPARAM	MEMORYALC
SGNSGL_LRPCNT	80003264-R	SYSPARAM	
SGNSGL_LRPSize	80003260-R	SYSPARAM	
SGNSGL_MAXGPGCT	80003214-R	SYSPARAM	
SGNSGL_MAXVPGCT	8000324C-R	SYSPARAM	
SGNSGL_MAXWSCNT	8000323C-R	SYSPARAM	INIT
			SHELL
			MEMORYALC
			SYSADJWSL
			PROCSTR
			SYSCREPRC
SGNSGL_NPAGEVIR	80003244-R	SYSPARAM	
SGNSGL_P1LWCNT	80003464-R	SYSPARAM	MEMORYALC
SGNSGL_PAGEDYN	80003248-R	SYSPARAM	SVAPTE
SGNSGL_PHDAPCNT	8000345C-R	SYSPARAM	INIT
SGNSGL_PHDLWCNT	80003460-R	SYSPARAM	SWAPPER
SGNSGL_PHDPAAGCT	80003468-R	SYSPARAM	SHELL
SGNSGL_PTPAGCNT	8000346C-R	SYSPARAM	SVAPTE
			INIT
			SHELL
			SYSCREDEL
			INIT
			PAGEFAULT
			PHDUTL
			SYSCRMPS
			SWAPPER
			SHELL
			SYSDLP
SGNSGL_SPTREQ	80003250-R	SYSPARAM	
SGNSGL_SRPCNT	80003268-R	SYSPARAM	INIT
SGNSGL_SRPCNTV	8000326C-R	SYSPARAM	MEMORYALC
SGNSGL_SRPMin	80003274-R	SYSPARAM	
SGNSGL_SRPSize	80003270-R	SYSPARAM	INIT
SGNSGL_USER3	800032EC-R	SYSPARAM	
SGNSGL_USER4	800032F0-R	SYSPARAM	
SGNSGL_USERD1	800032E4-R	SYSPARAM	
SGNSGL_USERD2	800032E8-R	SYSPARAM	
SGNSGL_VMS5	800032D4-R	SYSPARAM	
SGNSGL_VMS6	800032D8-R	SYSPARAM	
SGNSGL_VMS7	800032DC-R	SYSPARAM	
SGNSGL_VMS8	800032E0-R	SYSPARAM	
SGNSGL_VMSD1	800032C4-R	SYSPARAM	
SGNSGL_VMSD2	800032C8-R	SYSPARAM	
SGNSGL_VMSD3	800032CC-R	SYSPARAM	
SGNSGL_VMSD4	800032D0-R	SYSPARAM	
SGNSGW_DFPFC	8000320C-R	SYSPARAM	SHELL
SGNSGW_DFWSCNT	800033C8-R	SYSPARAM	SHELL
SGNSGW_GBLSECNT	80003212-R	SYSPARAM	
SGNSGW_IMGIOCNT	8000327A-R	SYSPARAM	SYSGACT
SGNSGW_ISPPGCT	8000322A-R	SYSPARAM	INIT
SGNSGW_MAXPRCCT	8000321C-R	SYSPARAM	INIT
SGNSGW_MAXPSTCT	80003220-R	SYSPARAM	
SGNSGW_MINWSCNT	80003222-R	SYSPARAM	INIT
SGNSGW_PAGFILCT	80003224-R	SYSPARAM	SHELL
SGNSGW_PCHANCNT	80003278-R	SYSPARAM	
SGNSGW_PIXSCAN	8000321E-R	SYSPARAM	PROCSTR
SGNSGW_SWPFILCT	8000218C-R	SYSPARAM	TIMESCHDL
SGNSGW_SWPFILES	80003226-R	SYSPARAM	INIT
			INIT
			SYSETPFM
			SHELL
			SYSDJWSL

Symbol	Value	Defined By	Referenced By ...
SGNSGW_SYSDW8CT	00003220-R	SYSPARAM	INIT
SGNSGW_TPWAIT	00003354-R	SYSPARAM	
SGNSGW_WSLMXSKP	00003290-R	SYSPARAM	
SSS_ABORT	0000002C	SYS\$SDEF	PAGEFAULT
SSS_ACCVIO	0000000C	SYS\$SDEF	SYSENGDEQ COMDRVSUB
SSS_BADPARAM	00000014	SYS\$SDEF	IOCIOPST
SSS_CANCEL	00000030	SYS\$SDEF	SYSSETIME SYSACPFDT
SSS_CVTUNGRANT	0000213C	SYS\$SDEF	SYSENGDEQ COMDRVSUB
SSS_DEADLOCK	00000E0A	SYS\$SDEF	SYSCANCEL SYSENGDEQ
SSS_DEVFOREIGN	00000064	SYS\$SDEF	DEADLOCK
SSS_DEVNOTMOUNT	0000007C	SYS\$SDEF	SYSACPFDT
SSS_DIRFULL	00000060	SYS\$SDEF	SYSACPFDT
SSS_ENDOFFILE	00000070	SYS\$SDEF	IMGACTSUB
SSS_EXASTLM	00002A04	SYS\$SDEF	NLDRIVER
SSS_EXDEPTH	00000E1A	SYS\$SDEF	SYSENGDEQ
SSS_EXENGLM	00002A44	SYS\$SDEF	SYSENGDEQ
SSS_EXQUOTA	0000001C	SYS\$SDEF	COMDRVSUB
SSS_FILALRACC	000000A4	SYS\$SDEF	SYSACPFDT
SSS_FILNOTACC	000000AC	SYS\$SDEF	SYSACPFDT
SSS_ILLBLKNUM	000000DC	SYS\$SDEF	IOCIOPST
SSS_INSMEM	00000124	SYS\$SDEF	COMDRVSUB
SSS_IVBUFLEN	0000034C	SYS\$SDEF	SYSENGDEQ
SSS_IVCHNLSEC	0000026C	SYS\$SDEF	SYSACPFDT
SSS_IVLOCKID	00002124	SYS\$SDEF	SYSENGDEQ
SSS_IVSTSLG	0000017C	SYS\$SDEF	SYSSETPRV
SSS_IVTIME	00000184	SYS\$SDEF	SYSSETIME
SSS_NOLOCKID	00000E12	SYS\$SDEF	SYSENGDEQ
SSS_NOPRIV	00000024	SYS\$SDEF	SYSACPFDT
SSS_NORMAL	00000001	SYS\$SDEF	SYSSETIME COMDRVSUB OPENMSG SYSENGDEQ
SSS_NOSHRIMG	000021BC	SYS\$SDEF	IMGACTSUB
SSS_NOSYLCK	000020F4	SYS\$SDEF	SYSENGDEQ
SSS_NOTALLPRIV	00000601	SYS\$SDEF	SYSSETPRV
SSS_NOTQUEUED	00000908	SYS\$SDEF	SYSENGDEQ
SSS_PARNOTGRANT	00002134	SYS\$SDEF	SYSENGDEQ
SSS_RELINK	0000200C	SYS\$SDEF	IMGACTSUB
SSS_SUBLOCKS	0000212C	SYS\$SDEF	SYSENGDEQ
SSS_SYNCH	00000609	SYS\$SDEF	SYSENGDEQ
SSS_WRTLCK	0000025C	SYS\$SDEF	SYSENGDEQ
SWISGL_FG0L	0000270C-R	SYSCOMMON	SYSACPFDT
SWISGL_FGFL	00002708-R	SYSCOMMON	
SWPSAL_PTRPAG	00000600	SYSCOMMON	FORKCNTRL
SWPSA_KSTK	00000C50-R	SHELL	
SWP3C_DBGPTCNT	00000001	PDAT	SYSPARAM
SWP3C_KSTACK	00000003	SHELL	
SWP3C_NDYN	00000002	SHELL	INIT
SWP3C_SHELLPFIL	000000A2	SHELL	
SWP3C_SHLFPTE	00000047	SHELL	SYSCREPRC
SWP3C_SHLP1PT	00000002	SHELL	
SWP3GB_ISWPRI	0000213E-R	SDAT	OSWPSCHED

Symbol	Value	Defined By	Referenced By ...
SWP\$GB_PPIO	80003285-R	SYSPARAM	SWAPPER
SWP\$GB_SHLP1PT	8000344E-R	SYSPARAM	INIT
SWP\$GL_BALBASE	3000349C-R	SYSPARAM	INIT
SWP\$GL_BALSPT	800034A0-R	SYSPARAM	SWAPPER
SWP\$GL_BSLOTSZ	80003450-R	SYSPARAM	ALLOCPFN
SWP\$GL_HISWPCNT	80002150-R	SDAT	WRTMFYPAG
SWP\$GL_HOSWPCNT	8000214C-R	SDAT	ALLOCPFN
SWP\$GL_INPCB	80002134-R	SDAT	WRTMFYPAG
SWP\$GL_ISPAGCNT	80002138-R	SDAT	SWAPPER
SWP\$GL_ISWPCNT	80002144-R	SDAT	SWAPPER
SWP\$GL_ISWPPAGES	80002140-R	SDAT	SWAPPER
SWP\$GL_MAP	80003454-R	SYSPARAM	INIT
SWP\$GL_OSWPCNT	80002148-R	SDAT	SWAPPER
SWP\$GL_PHOBASVA	80003458-R	SYSPARAM	SWAPPER
SWP\$GL_SHELIO	80009288-R	SHELL	SWAPPER
SWP\$GL_SHELL	80002130-R	SDAT	
SWP\$GL_SHELLBAS	80017A00-R	SHELL	INIT
SWP\$GL_SHELLSIZ	80003444-R	SYSPARAM	SHELL
SWP\$GL_SLOTCNT	80002120-R	SDAT	
SWP\$GL_SWPPGCNT	80003288-R	SYSPARAM	OSWPSCHED
SWP\$GL_SWTIME	8000215C-R	SYSPARAM	SWAPPER
SWP\$GW_BAKPTE	80003448-R	SYSPARAM	SHELL
SWP\$GW_BALCNT	80002180-R	SWAPPER	SYSDELPRC
SWP\$GW_EMPTPTE	8000344A-R	SYSPARAM	SHELL
SWP\$GW_IBALSETX	8000213C-R	SDAT	SHELL
SWP\$GW_SWPINC	8000328C-R	SYSPARAM	INIT
SWP\$GW_WSLPTE	8000344C-R	SYSPARAM	SHELL
SWP\$K_KSTKSZ	000000A0	POAT	
SWP\$SHELLINIT	00000C00	SHELL	SWAPPER
SYSSADJSTK	7FFEDE20	SYSSP1_VECTOR	EXCEPTION
SYSSADJWSL	7FFEDE28	SYSSP1_VECTOR	PHOUTL
SYSSASCTIM	7FFEDE48	SYSSP1_VECTOR	SYSFAO
SYSSASSIGN	7FFEDE50	SYSSP1_VECTOR	DISMOUNT
SYSSBINTIM	7FFEDE58	SYSSP1_VECTOR	SYSDELPRC
SYSSCALL_HANDL	80000010	SYSSP1_VECTOR	SYSSSETIME
SYSSCANTIM	7FFEDE68	SYSSP1_VECTOR	EXCEPTION
SYSSCANWAK	7FFEDE70	SYSSP1_VECTOR	SYSRUNDWN
SYSSCLOSE	7FFEE188	SYSSP1_VECTOR	SYSRUNDWN
SYSSCLREF	7FFEDE98	SYSSP1_VECTOR	OPENMSG
SYSSCMKRNL	7FFFEDE90	SYSSP1_VECTOR	DISMOUNT
SYSSCONNECT	7FFEE1C0	SYSSP1_VECTOR	SYSSINGACT
SYSSCREATE	7FFEE1C8	SYSSP1_VECTOR	FILEREAD
SYSSCRELOG	7FFFEDEB0	SYSSP1_VECTOR	OPENMSG
SYSSCREMBX	7FFFEDEB8	SYSSP1_VECTOR	OPENMSG
SYSSCREPRC	7FFFEDEC0	SYSSP1_VECTOR	OPENMSG
SYSSCRETVA	7FFFEDEC8	SYSSP1_VECTOR	SYSSSETPFM
SYSSCRMPSC	7FFFEDE78	SYSSP1_VECTOR	SWAPPER
			EXCEPTION
			SYSSINGACT
			PROCSTRT
			SYSSSETPFM
			PROCSTRT
			SYSSINGACT
			RSE
			SYSSSETIME
			FILEREAD
			SYSSASSIGN
			SYSSSETIME
			SYSSUNWIND
			SYSSKWSSET
			SYSSCRMPSC
			SYSSNDMSG

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
SYS%C_JOBCTLMB	3141424D	DEVICEDAT	
SYS%C_MBXUCBSIZ	00000004	DEVICEDAT	MBDRIVER
SYS%C_OPRMBX	3241424D	DEVICEDAT	
SYS%DACEFC	7FFEDED0	SYS\$P1_VECTOR	SYSRUNDWN
SYS%DALLOC	7FFEDED0	SYS\$P1_VECTOR	SYSDELPRC
SYS%DASSGN	7FFEDEE0	SYS\$P1_VECTOR	DISMOUNT
			SYSDELPRC
			SYSASSIGN
			SYSDELPRC
			SYSRUNDWN
			SYSIMGACT
			SYSSETPFM
			SYSGETJPI
			SYSGETSYI
SYS%DCLAST	7FFEDEE0	SYS\$P1_VECTOR	
SYS%DCLEXH	7FFEDEF0	SYS\$P1_VECTOR	
SYS%DELLOG	7FFEDEF0	SYS\$P1_VECTOR	
SYS%DELPRC	7FFEDEF0	SYS\$P1_VECTOR	
SYS%DELTV	7FFEDEF10	SYS\$P1_VECTOR	
SYS%DEQ	7FFEE3C0	SYS\$P1_VECTOR	
SYS%EXIT	7FFEDF40	SYS\$P1_VECTOR	
			EXCEPTION
			PHDUTL
			SYSSEXIT
			SYSDELPRC
			BUGCHECK
			CMOD\$SDSP
			RSE
			EXCEPTION
			SYSSEXIT
SYS\$EXPRG	7FFEDF48	SYS\$P1_VECTOR	
SYS\$FAO	7FFEDF50	SYS\$P1_VECTOR	
SYS\$FAOL	7FFEDF58	SYS\$P1_VECTOR	
SYS\$FORCEX	7FFEDF60	SYS\$P1_VECTOR	
SYS\$GB_DEFPRI	80003439-R	SYS\$P1_VECTOR	
SYS\$GB_DFMBC	80003393-R	SYS\$P1_VECTOR	
SYS\$GB_DFMBFHSH	80003399-R	SYS\$P1_VECTOR	
SYS\$GB_DFMBFIDX	80003398-R	SYS\$P1_VECTOR	
SYS\$GB_DFMBFREL	80003397-R	SYS\$P1_VECTOR	
SYS\$GB_DFMBFSDK	80003394-R	SYS\$P1_VECTOR	
SYS\$GB_DFMBFST	80003395-R	SYS\$P1_VECTOR	
SYS\$GB_DFMBFBUR	80003396-R	SYS\$P1_VECTOR	
SYS\$GB_MXPRTSYM	80003438-R	SYS\$P1_VECTOR	
SYS\$GB_RMSPROLOG	8000339A-R	SYS\$P1_VECTOR	
SYS\$GETCHN	7FFEE0C0	SYS\$P1_VECTOR	
SYS\$GETMSG	7FFEE0B0	SYS\$P1_VECTOR	
SYS\$GL_BOOTDDDB	80000C6C-R	SYS\$P1_VECTOR	
SYS\$GL_BOOTUCB	80000CA0-R	SYS\$P1_VECTOR	
SYS\$GL_JOBCTLMB	8000103C-R	SYS\$P1_VECTOR	
SYS\$GL_OPRMBX	800010C0-R	SYS\$P1_VECTOR	
SYS\$GQ_VERSION	800028F0-R	DEVICEDAT	
SYS\$GT_ANNOUNCE	8001C0DC-R	DEVICEDAT	
SYS\$GW_BJOB CNT	800028FC-R	DEVICEDAT	ACCOUNT
SYS\$GW_BJOB LIM	8000343C-R	DEVICEDAT	MOUNTVER
SYS\$GW_FILEPROT	8000339E-R	DEVICEDAT	SYSSNDMSG
SYS\$GW_IJOB CNT	800028F8-R	DEVICEDAT	SYSSNDMSG
SYS\$GW_IJOB LIM	8000343A-R	SYSCOMMON	SYSGETSYI
SYS\$GW_NJOB CNT	800028FA-R	VERSION	
SYS\$GW_NJOB LIM	8000343E-R	INIT	
SYS\$GW_RJOB LIM	80003440-R	SYSCOMMON	
SYS\$GW_RMSEXTEND	8000339C-R	SYS\$P1_VECTOR	
SYS\$HIBER	7FFEDF88	SYS\$P1_VECTOR	
SYS\$IMGACT	7FFEDF90	SYS\$P1_VECTOR	
			PROCSTR
			IMGACTSUB
			SYSIMGACT
			PROCSTR
			SYSIMGSTA
			SYSGETMSG
SYS\$IMGFIX	7FFEE400	SYS\$P1_VECTOR	
			SYSIMGSTA

Symbol	Value	Defined By	Referenced By ...	
-----	-----	-----	-----	
SYSSK_VERSION	594A3158	VERSION	BUGCHECK	SYSCOMMON
SYSSMGBLSC	7FFEDFA8	SYSSP1_VECTOR	SYSIMGACT	SYSIMGACT
SYSSNUMTIM	7FFEDF88	SYSSP1_VECTOR	SYSVRTIM	
SYSSOPEN	7FFEE208	SYSSP1_VECTOR	SYSIMGACT	
SYSSPUT	7FFEE188	SYSSP1_VECTOR	EXCEPTMSG	SYSPUTMSG
SYSSPUTMSG	7FFEE0E0	SYSSP1_VECTOR	PROCSTR	SYSIMGSTA
SYSSQIO	7FFEDFC8	SYSSP1_VECTOR	SYSASSIGN	SYSDELPRC
SYSSQIOW	7FFEDE00	SYSSP1_VECTOR	DISMOUNT	FILERWIO
			SYSDASSGN	SYSIMGACT
SYSSRESUME	7FFEDFD8	SYSSP1_VECTOR	SYSDELPRC	
SYSSRMSRUNDWN	7FFEE268	SYSSP1_VECTOR	PROCSTR	SYSDELPRC
SYSSRUNDWN	7FFEDFE0	SYSSP1_VECTOR	SYSDELPRC	
SYSSSETEF	7FFEE000	SYSSP1_VECTOR	DISMOUNT	SYSSETIME
SYSSSETEXV	7FFEE008	SYSSP1_VECTOR	PROCSTR	
SYSSSETPRT	7FFEE030	SYSSP1_VECTOR	IMGACTSUB	PROCSTR
SYSSSETPRV	7FFEE100	SYSSP1_VECTOR	OPENMSG	
SYSSSETRWM	7FFEE038	SYSSP1_VECTOR	SYSRUNDWN	PROCSTR
SYSSSETSFM	7FFEE040	SYSSP1_VECTOR	EXCEPTION	SHMSGSDRTN
SYSSSTRNLOG	7FFEE058	SYSSP1_VECTOR	OPENMSG	
			SYSIMGSTA	SYSFAO
SYSSUNWIND	7FFEE070	SYSSP1_VECTOR	EXCEPTION	SYSPUTMSG
SYSSWAIT	7FFEE1A8	SYSSP1_VECTOR	CMODSSDSP	DISMOUNT
SYSSWAITFR	7FFEE078	SYSSP1_VECTOR	CMODSSDSP	SYSIMGACT
			SYSRMPSC	SYSASSIGN
			CONINTDSP	SYSSETIME
			CONINTDSP	
TTSM_HOSTSYNC	00000010	SYSSIODEF		
TTSM_READSYNC	00040000	SYSSIODEF		
TTSV_HOSTSYNC	00000004	SYSSIODEF		
TTY\$GB_DEFSPEED	80003371-R	SYSPARAM		
TTY\$GB_DIALTYP	80003370-R	SYSPARAM		
TTY\$GB_PARITY	80003373-R	SYSPARAM		
TTY\$GB_RSPEED	80003372-R	SYSPARAM		
TTY\$GB_SILOTIME	80003392-R	SYSPARAM		
TTY\$GL_DEFCHAR	80003378-R	SYSPARAM		
TTY\$GL_DEFCHAR2	8000337C-R	SYSPARAM		
TTY\$GL_DELTA	8000336C-R	SYSPARAM		
TTY\$GL_DPT	80000C68-R	DEVICEDAT	INIT	
TTY\$GL_OWNUIC	8000338C-R	SYSPARAM	CONINTDSP	
TTY\$GH_ALTALARM	80003384-R	SYSPARAM		
TTY\$GH_ALTYPAHO	80003382-R	SYSPARAM		
TTY\$GH_CLASSNAM	80003390-R	SYSPARAM		
TTY\$GH_DEFBUF	80003374-R	SYSPARAM		
TTY\$GH_DMASIZE	80003386-R	SYSPARAM		
TTY\$GH_PROT	80003388-R	SYSPARAM	CONINTDSP	
TTY\$GH_TYPAHDSZ	80003380-R	SYSPARAM		
UBASINITIAL	80002F06-R	SYSLOAVEC	POWERFAIL	
UBASINT0	80002E80-R	SYSLOAVEC		
UBASUNEXINT	80002E88-R	SYSLOAVEC		
VASM_BYTE	000001FF	GLOBALS	EXSUBROUT	
VASM_P1	40000000	GLOBALS	SYSIMGACT	
VASM_SYSTEM	80000000	GLOBALS	SYSIMGACT	
VASM_VPG	FFFFFFE0	GLOBALS		
VASM_VPN	3FFFFFF0	GLOBALS		

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
VASS_BYTE	00000009	GLOBALS	
VASS_VPG	00000017	GLOBALS	
VASS_VPN	00000015	GLOBALS	LOADMREG
VASV_BYTE	00000000	GLOBALS	
VASV_P1	0000001E	GLOBALS	SYSIMGACT
VASV_SYSTEM	0000001F	GLOBALS	
VASV_VPG	00000009	GLOBALS	
VASV_VPN	00000009	GLOBALS	LOADMREG
XDELBPT	80019500-R	XDELTA	INIT
XDELIBRK	80018CB0-R	XDELTA	
XDELTBIT	800195A0-R	XDELTA	INIT
XDEL_LOADBASE	80018D31-R	XDELTA	INIT
XDS%GL_XESTRING	80018D5D-R	XDELTA	INIT
XDS%GL_XFSTRING	80018D61-R	XDELTA	INIT
XDS%GT_LONG_PFN	80018AF8-R	XDSTRING	INIT
XDS%GT_WORD_PFN	80018A00-R	XDSTRING	INIT

XDELTA

-----+
| Symbols By Value |
+-----+

Table with 5 columns: Value, Symbols..., EVTS_..., FCBSL_..., and EXESV_... listing various system symbols and their corresponding values.

Value		Symbols...			
00000011	DYN\$C_VCB	EXESV_RESALLO	PCBSV_A\$TPEN	PRVSV_MOUNT	
00000012	DYN\$C_WCB	EXESV_CONCEAL	PCBSV_P\$HDRES	PFNSC_WORD_LEN	PRS_IPL
	PRVSV_OPER				
00000013	DEVSV_MNT	DYN\$C_BUFIO	EXESV_S\$INHIBIT	PCBSV_HIBER	PRVSV_EXQUOTA
00000014	DEVSV_MBX	DYN\$C_TYPAHD	EXESC_CMSTKSZ	EXESV_EXPLICITP	FCBSL_WLBL
	PCBSL_A\$TQBL	PCBSV_LOGIN	PRVSV_NETMBX	SSS_BADPARAM	
00000015	DEVSV_DMT	DYN\$C_GSD	EXESV_EXPLICIT\$	PCBSV_NETWRK	PRVSV_VOLPRO
	VASS_VPN				
00000016	DYN\$C_MVL	EXESV_PGFLFRAG	PCBSV_P\$WRAST	PFNSC_LONG_LEN	PRVSV_PHY_ID
	PSLSV_P\$RVMOD				
00000017	DEVSV_ALL	DYN\$C_NET	EXESV_PGFLCRIT	PCBSV_NODELET	PRVSV_BUGCHK
	VASS_VPG				
00000018	BUGS_ALCPHD	DEVSV_FOR	DYN\$C_KFI	EXESV_TBCHK	FCBSL_DIRIDX
	FCBSW_ACNT	IPL\$HWCLK	PCBSL_P\$HYPCB	PCBSV_DISAW\$	PRVSV_P\$RMBL
	PSLSV_CURMOD	SGN\$C_BALSETCNT			
00000019	DYN\$C_MTL	EXESV_PAGFILDMP	PRVSV_SY\$GBL		
0000001A	DYN\$C_BRDCST	EXESV_SAVEDUMP	FCBSW_LCNT	PRVSV_P\$FNMAP	PSLSV_IS
0000001B	DYN\$C_CXB	EXESV_JOBQUEUES	PRVSV_S\$HMEM	PSLSV_FPD	
0000001C	DYN\$C_NDB	EXESV_REINITQUE	FCBSW_WCNT	PCBSL_OWNER	PRVSV_SY\$PRV
	SSS_EXQUOTA				
0000001D	DYN\$C_S\$B	PRVSV_BYPASS			
0000001E	DYN\$C_DPT	FCBSW_STATUS	PRVSV_SY\$SLCK	PSLSV_TP	VASV_P1
0000001F	DYN\$C_JPB	IPL\$POWER	PSLSV_CM	VASV_SYSTEM	
00000020	BUGS_ALCSMBCLR	DYN\$C_P\$BH	FCBSW_FID	FCBSW_FID_NUM	IOS_WRITEBLK
	PCBSL_W\$SWP	PSLSM_IV			
00000021	DYN\$C_PDB	IOS_READBLK			
00000022	DYN\$C_PIB	FCBSW_FID_SEQ			
00000023	DYN\$C_PFL				
00000024	DYN\$C_UNUSED	FCBSB_FID_RVN	FCBSW_FID_RVN	FILSC_DIR_SIZE	PCBSL_ST\$
	SSS_NOPRIV				
00000025	DYN\$C_PTR	FCBSB_FID_NMX			
00000026	DYN\$C_KFH	FCBSW_SEG\$			
00000027	DYN\$C_RVX				
00000028	BUGS_APTREFHIGH	DYN\$C_EXTGSD	FCBSL_STVBN	PCBSB_P\$RISAV	PCBSL_WTIME
	SGN\$C_GBLSECCNT	SGN\$C_SY\$DWSCNT			
00000029	DYN\$C_S\$HMGSD	PCBSB_P\$RIBSAV			
0000002A	DYN\$C_S\$HB				
0000002B	DYN\$C_MBX				
0000002C	DYN\$C_IRPE	FCBSL_STLBN	PCBSW_STATE	SSS_ABORT	
0000002D	DYN\$C_S\$LAUCEB				
0000002E	CTL\$C_P\$CALLSIZ	DYN\$C_S\$HMCEB	PCBSB_W\$EFC		
0000002F	DYN\$C_JIB	PCBSB_P\$RIB			
00000030	BUGS_APTWRERR	DYN\$C_TWP	FCBSL_HDLBN	PCBSW_APTCNT	
00000031	DYN\$C_RBM	IOS_READVBLK			
00000032	DYN\$C_VCA	PCBSW_TMBU			
00000033	DYN\$C_BCB				
00000034	DYN\$C_CDB	FCBSL_FILESIZE	PCBSW_G\$PGCNT		
00000035	DYN\$C_LPD				
00000036	DYN\$C_JMT	PCBSW_P\$PGCNT			
00000037	DYN\$C_LKB				
00000038	BUGS_A\$SYNCWRTR	DYN\$C_R\$B	FCBSL_FILEOWNER	FCBSW_UICMEMBER	IOS_A\$CPCONTROL
	PCBSW_A\$STCNT				

Value		Symbols...			
-----		-----			
00000039	DYN\$C_LKID	PR\$T_BIA			
0000003A	DYN\$C_RSHT	FCB\$W_UICGROUP	PCB\$W_BIOCNT		
0000003B	DYN\$C_CDRP				
0000003C	DYN\$C_RUL	FCB\$W_FILEPROT	PCB\$W_BIOLM		
0000003D	DYN\$C_ERP				
0000003E	DYN\$C_CIDG	FCB\$W_VERSIONS	PCB\$W_DIOCNT		
0000003F	DYN\$C_CIMSG	SCH\$C_MAXPIX			
00000040	BUG\$BADALRQSZ	FCB\$L_EFBLK	PCB\$W_DIOLM	PSLSM_FU	SGN\$C_NPROCS
00000041	PQL\$C_SYSPQLLEN				
00000042	PCB\$W_PRCNT				
00000044	FCB\$W_DIRSEQ	PCB\$T_TERMINAL			
00000046	FCB\$W_TCNT				
00000047	SWP\$C_SHLFPTE				
00000048	BUG\$BADBUFADR	FCB\$B_DIRIDX	FCB\$C_LENGTH	FCB\$K_LENGTH	
0000004C	PCB\$L_EFWM	PCB\$L_PQB			
00000050	BUG\$BADBUFTYP	PCB\$L_EFCS			
00000054	PCB\$L_EFCU				
00000058	BUG\$BADDALRQSZ	PCB\$L_EFC2P			
0000005C	PCB\$L_EFC3P				
00000060	BOO\$C_BOOPARSZ	BUG\$BADFID	DYN\$C_SCS	DYN\$C_SUBTYPE	PCB\$L_PID
	SGN\$C_SYSWCNT				
00000061	DYN\$C_CI				
00000062	DYN\$C_LOADCODE				
00000063	DYN\$C_INIT				
00000064	DYN\$C_CLASSDRV	PCB\$L_PHD	SGN\$C_DFWSCNT	SSS_DEVFOREIGN	
00000068	BUG\$BADFORKIPL	PCB\$T_LNAME			
00000070	BUG\$BADLCKNSLE				
00000078	BUG\$BADMCKCOD	PCB\$L_JIB	SGN\$C_DFW\$QUOTA		
0000007C	PCB\$Q_PRIV	SSS_DEVNOTMOUNT			
00000080	BUG\$BADPAGFILA	DYN\$C_SHRBUFIO	DYN\$C_SPECIAL	PSLSM_DV	
00000084	PCB\$L_ARB	SYSSC_MBXUCBSIZ			
00000088	BUG\$BADPAGFILD	PCB\$L_UIC	PCB\$W_MEM		
0000008A	PCB\$W_GRP				
0000008C	PCB\$L_LOCKQFL				
00000090	BUG\$BADPAGTYPE	PCB\$L_LOCKQBL			
00000094	PCB\$L_DLCKPRI				
00000098	BUG\$BADRSEIPL	PCB\$L_IPAST			
0000009C	PCB\$C_LENGTH	PCB\$K_LENGTH			
000000A0	BUG\$BADSBMBLK	SWP\$K_KSTKSZ			
000000A2	SWP\$C_SHELLPFIL				
000000A4	SSS_FILALRACC				
000000A8	BUG\$BADSWPVBN				
000000AC	SSS_FILNOTACC				
000000B0	BUG\$BADWCBPT				
000000B8	BUG\$CHMONIS				
000000C0	BUG\$CONTRACT				
000000C8	BUG\$DBLERR				
000000D0	BUG\$DECPTREF				
000000D8	BUG\$DELCONPFN				
000000DC	SSS_ILBLKNUM				
000000E0	BUG\$DELGBLSEC				
000000E8	BUG\$DELGBLWCB				

Value	Symbol...
-----	-----
000000F0	BUGS_BADBOOTCB
000000F8	BUGS_DELWSLEX
00000100	BUGS_DIRENTRY
00000108	BUGS_DOUBLDALOC
00000110	BUGS_DOUBLDEALO
00000118	BUGS_ERRHALT
00000120	BUGS_EXHFUL
00000124	SSS_INSMEM
00000128	BUGS_EXPANDPHD
00000130	BUGS_FATALEXCPT
00000138	BUGS_FREEPAGREF
00000140	BUGS_FREWSLX
00000148	BUGS_GBLPAGSZRO
00000150	BUGS_GBLWSLXERR
00000158	BUGS_GPGNULPGFL
00000160	BUGS_HALT
00000168	BUGS_HDRNOTMAP
00000170	BUGS_ICONPFNDAT
00000178	BUGS_ICPAGELOC
0000017C	SSS_IVSTSFLG
00000180	BUGS_IFREPAGCNT
00000184	SSS_IVTIME
00000188	BUGS_ILLEVTNUM
00000190	BUGS_ILLVEC
00000198	BUGS_INCONSTATE
000001A0	BUGS_INCPTRF
000001A8	BUGS_INSNFPREPAG
000001B0	BUGS_INSSWPFIL
000001B8	BUGS_INSWAPERR
000001C0	BUGS_INVCHAN
000001C8	BUGS_INVEXCEPTN
000001D0	BUGS_INVPTFMT
000001D8	BUGS_INVTQEFMT
000001E0	BUGS_IVBAKADIO
000001E8	BUGS_IVGBLTYP
000001F0	BUGS_IVLISTK
000001F8	BUGS_IVSSRVRQST
000001FF	VASM_BYTE
00000200	BUGS_IVWSETLIST
00000208	BUGS_KRNLSTAKNV
00000210	BUGS_MACHINECHK
00000218	BUGS_MAKWSLE
00000220	BUGS_MODRELNBAK
00000228	BUGS_MFYNULPGFL
00000230	BUGS_MPWALCIRP
00000238	BUGS_MTXCNTNONZ
00000240	BUGS_NETNOBUF
00000248	BUGS_NETNOSTATE
00000250	BUGS_NETRCVPKT
00000258	BUGS_NETSYSSRV
0000025C	SSS_WRITLCK
00000260	BUGS_NETTRANCNT

FILSC_SIZE

Value

00000268
0000026C
00000270
00000278
00000280
00000288
00000290
00000298
000002A0
000002A8
000002B0
000002B8
000002C0
000002C8
000002D0
000002D8
000002E0
000002E8
000002F0
000002F8
00000300
00000308
00000310
00000318
00000320
00000328
00000330
00000334
00000338
00000340
00000348
0000034C
00000350
00000358
00000360
00000368
00000370
00000378
00000380
00000388
00000390
00000398
000003A0
000003A8
000003B0
000003B8
000003C0
000003C8
000003D0
000003D8
000003E0
000003E8

Symbols...

BUGS_+NOACPCMAN
SSS_+IVCHNLSEC
BUGS_+NOACPMAIL
BUGS_+NOAQBACP
BUGS_+NOBUFCKT
BUGS_+NOBVPVCB
BUGS_+NOMULTBK
BUGS_+NONEXSTACP
BUGS_+NORCVBUF
BUGS_+NOTDDBDDB
BUGS_+NOTFCBFCB
BUGS_+NOTFCBWCB
BUGS_+NOTFCPWCB
BUGS_+NOTIRPAQB
BUGS_+NOTMTLMTL
BUGS_+NOTPCB
BUGS_+NOTRVTVCB
BUGS_+NOTUCBIRP
BUGS_+NOTUCBRVT
BUGS_+NOTUCBUCB
BUGS_+NOTVCBUCB
BUGS_+NOTVVPVCB
BUGS_+NOTWCBIRP
BUGS_+NOUSRWCS
BUGS_+OUTSWPERR
BUGS_+PAGEREDERR
BUGS_+PAGEWRTERR
BOOSC_+SYSPARSZ
BUGS_+PAGNTRNVAL
BUGS_+PFNLISTCNT
BUGS_+PFNREFNZRO
SSS_+IVBUFLN
BUGS_+PGFGBLBAD
BUGS_+PGFIPLHI
BUGS_+PGFLOCBAD
BUGS_+PROCGONE
BUGS_+PTELENTVIOL
BUGS_+PTRCNT
BUGS_+PURGWSSCN
BUGS_+QUEUEEMPTY
BUGS_+RDSNONRES
BUGS_+REFCNTNEG
BUGS_+RMSBUG
BUGS_+SCANDEADPT
BUGS_+SECREFNEG
BUGS_+SHRCNTNEG
BUGS_+SSRVEXCEPT
BUGS_+STRNOTWCB
BUGS_+SWAPWSLE
BUGS_+SYSADJWSL
BUGS_+SYSTRMERR
BUGS_+TIPCUFLOW

EXESC_+SYSPARSZ

Value	Symbol...
000003F0	BUGS_UBMAPEXCED
000003F8	BUGS_UNABLCREVA
00000400	BUGS_UNEXUBAINT
00000408	BUGS_UNKRSTRT
00000410	BUGS_UNXINTEXC
00000418	BUGS_UNXSIGNAL
00000420	BUGS_VBNMAPPFAIL
00000428	BUGS_WACKQEMPTY
00000430	BUGS_WRTINVBUF
00000438	BUGS_WRTINVHDR
00000440	BUGS_WRTPGSBAK
00000448	BUGS_WSLENOVAL
00000450	BUGS_WSLPAGCNT
00000458	BUGS_WSLVANVAL
00000460	BUGS_WSLXVANMAT
00000468	BUGS_ZEROPAGE
00000470	BUGS_OPERATOR
00000478	BUGS_BADQHDR
00000480	BUGS_UNKNPRQ
00000488	BUGS_BDPPURGERR
00000490	BUGS_NOSHMGSD
00000498	BUGS_CEBREFNEG
000004A0	BUGS_BRDM9GLOST
000004A8	BUGS_MBACBHUNG
000004B0	BUGS_NEGSHBREF
000004B8	BUGS_ACPRECURS
000004C0	BUGS_ACPUNSTAK
000004C8	BUGS_BADRVNWC8
000004D0	BUGS_ERRCACHPFUL
000004D8	BUGS_EXTCACHIV
000004E0	BUGS_MAPCNTZER
000004E8	BUGS_NOTUCBWC8
000004F0	BUGS_CHMVEC
000004F8	BUGS_FILCNTNONZ
00000500	BUGS_WSSIZEERR
00000508	BUGS_DEQSUBLCK8
00000510	BUGS_LKBREFNEG
00000518	BUGS_R8BREFNEG
00000520	BUGS_R8BREFNZRO
00000528	BUGS_SCBRDERR
00000530	BUGS_STATENTSVD
00000538	BUGS_MPBADMCK
00000540	BUGS_MPMCCHK
00000548	BUGS_MPASYNWRT
00000550	BUGS_MPUNKRSTRT
00000558	BUGS_MPIVLISTK
00000560	BUGS_MPDBLERR
00000568	BUGS_MPHALT
00000570	BUGS_MPILLVEC
00000578	BUGS_MPNOUSRWCS
00000580	BUGS_MPERRHALT
00000588	BUGS_MPCHMNIS

SGNSC_MAXWSCNT

Value

00000590
00000598
000005A0
000005A8
000005B0
000005B8
000005C0
000005C8
000005D0
000005D8
000005E0
000005E8
00000600
00000681
00000689
00000800
00000830
00000860
00000870
00000988
00000BF0
00000C00
00000E0A
00000E12
00000E1A
00001000
00002000
0000200C
00002124
0000212C
00002134
0000213C
000021BC
000020F4
00002A04
00002A44
000037FF
00004000
00006800
00007800
00018001
0001878C
00040000
00080000
00100000
0015827C
001F0000
00200000
00C00000
01000000
02000000
03000000

Symbols...

BUGS_MPCHMVEC
BUGS_MPSCBRDERR
BUGS_MPKNLSTKNV
BUGS_MPUNEXPINT
BUGS_LKBGRANTED
BUGS_NOTLKB
BUGS_INVRSPID
BUGS_WCBFCBMNG
BUGS_NOTWCBWCB
BUGS_UDAPORT
BUGS_DISKCLASS
BUGS_CIPORT
SWPSAL_PTRPAG
SSS_NOTALLPRIV
SSS_SYNCH
SGNSC_MAXGPGCNT
SSS_CANCEL
SSS_DIRFULL
SSS_ENDOFFILE
SSS_NOTQUEUED
CTLSC_CLIDATASZ
SWPSSHELINIT
SSS_DEADLOCK
SSS_NOLOCKID
SSS_EXDEPTH
SGNSC_MAXPGFL
SGNSC_MAXVPGCNT
SSS_RELINK
SSS_IVLOCKID
SSS_SUBLOCKS
SSS_PARNOTGRANT
SSS_CVTUNGRANT
SSS_NOSHRIMG
SSS_NOSYSLCK
SSS_EXASTLM
SSS_EXENQLM
PSLSM_SAFBITS
SGNSC_MAXPAGCNT
SGNSC_NPAGEDYN
PIOSC_SEGSIZ
RMS\$_STALL
RMS\$_STR
TTSM_READSYNC
DEVSM_MNT
DEVSM_MBX
LIBS_ATTCONSTO
PSLSM_IPL
DEVSM_DMT
PSLSM_PRVMOD
DEVSM_FOR
DEVSM_SWL
PSLSM_CURMOD

SGNSC_PHPAGCNT

SGNSC_PAGEDYN

Value	Symbol...
04000000	PSLSM_IS
00000000	PSLSM_FPD
31414240	SYSSC_JOBCTLMB
32414240	SYSSC_OPRMBX
3FFFFFF00	VASM_VPN
40000000	DEVSM_RCK
594A3158	SYSSK_VERSION
7FFD8E00	PIOSGL_FMLH
7FFD8E08	PIOSGL_IIOFSPLH
7FFD8E10	PIOSGW_STATUS
7FFD8E12	PIOSGT_ENDSTR
7FFD8E22	PIOSGW_DFPROT
7FFD8E24	PIOSGB_DFMBC
7FFD8E25	PIOSGB_DFMBSDK
7FFD8E26	PIOSGB_DFMBSMT
7FFD8E27	PIOSGB_DFMBSUR
7FFD8E28	PIOSGB_DFMBSREL
7FFD8E29	PIOSGB_DFMBSIDX
7FFD8E2A	PIOSGB_DFMBSHSH
7FFD8E2B	PIOSGB_RMSCOMPAT
7FFD8E2C	PIOSGB_RMSPROLOG
7FFD8E2D	PIOSGW_RMSEXTEND
7FFD8E30	FILSGT_DDSTRING
7FFD8E84	PIOSGL_DIRCACHE
7FFD8E8C	PIOSGL_DIRCFRLH
7FFD8E90	PIOSGW_PIOIMPA
7FFD8F1C	PIOSGW_IIOIMPA
7FFD8FC0	PIOSAL_RMSEXH
7FFE0E00	CTLSA_COMMON
7FFE1600	CTLSAG_CMEDATA
7FFE1800	CTLSGL_DCLPRDOWN
7FFE1804	CTLSGL_CLINTOWN
7FFE1E00	CTLSGL_IAFLINK
7FFE1E04	CTLSGL_IAFLAST
7FFE1E08	CTLSGL_FIXUPLNK
7FFE1E0C	CTLSGL_P1MERGE
7FFE1E10	CTLSGL_IAFEXE
7FFE1E50	IACSGL_IMAGCTX
7FFE1E54	IACSGL_PROCCTX
7FFE1E58	IACSAI_VECADDR
7FFE1E68	IACSAI_VECOPCOD
7FFE1E6C	IACSAI_VECRESET
7FFE2000	CTLSA_PRCALLREG
7FFE7C00	CTLSAL_CLICALBK
7FFE7C08	CTLSAG_CLIMAGE
7FFE7C10	CTLSAG_CLIDATA
7FFE8000	MMGSIMGACTBUF
7FFE8000	CTLSA_DISPVEC
7FFE8400	MMGSIMGHDRBUF
7FFE8800	CTLSGL_KSTKBAS
7FFEAE00	CTLSGL_KSPINI
7FFEDE00	PISSVECTORS
	SYSSQIOW
	PSLSM_TP
	VASM_P1
	PIOSGT_DDSTRING
	CTLSAL_CMCNTX
	CTLSGL_IAPPERM

Value	Symbol...
-----	-----
7FFEDE20	SYSSADJSTK
7FFEDE28	SYSSADJWSL
7FFEDE48	SYSSASCTIM
7FFEDE50	SYSSASSIGN
7FFEDE58	SYSSBINTIM
7FFEDE68	SYSSCANTIM
7FFEDE70	SYSSCANWAK
7FFEDE78	SYSSCRMPSC
7FFEDE90	SYSSCMKRNL
7FFEDE98	SYSSCLREF
7FFEDEB0	SYSSCRELOG
7FFEDEB8	SYSSCREMBX
7FFEDEC0	SYSSCREPRC
7FFEDEC8	SYSSCRETVA
7FFEDED0	SYSSDACEFC
7FFEDED8	SYSSDALLOC
7FFEDEE0	SYSSDASSGN
7FFEDEE8	SYSSDCLAST
7FFEDEF0	SYSSDCLEXH
7FFEDEF8	SYSSDELLOG
7FFEDF08	SYSSDELPRC
7FFEDF10	SYSSDELTVA
7FFEDF40	SYSSEXIT
7FFEDF48	SYSSEXPREG
7FFEDF50	SYSSFAO
7FFEDF58	SYSSFAOL
7FFEDF60	SYSSFORCEX
7FFEDF88	SYSSHIBER
7FFEDF90	SYSSIMGACT
7FFEDFA8	SYSSMGBLSC
7FFEDFB8	SYSSNUMTIM
7FFEDFC8	SYSSQIO
7FFEDFD8	SYSSRESUME
7FFEDFE0	SYSSRUNDWN
7FFEE000	SYSSSETEF
7FFEE008	SYSSSETEXV
7FFEE030	SYSSSETPRT
7FFEE038	SYSSSETRWM
7FFEE040	SYSSSETSFM
7FFEE058	SYSSTRNLOG
7FFEE070	SYSSUNWIND
7FFEE078	SYSSWAITFR
7FFEE0B0	SYSSGETMSG
7FFEE0C8	SYSSGETCHN
7FFEE0E0	SYSSPUTMSG
7FFEE100	SYSSSETPRV
7FFEE188	SYSSPUT
7FFEE1A8	SYSSWAIT
7FFEE1B8	SYSSCLOSE
7FFEE1C0	SYSSCONNECT
7FFEE1C8	SYSSCREATE
7FFEE208	SYSSOPEN

Value	Symbol...
-----	-----
7FFEE268	SYSSRMSRUNDWN
7FFEE3C8	SYSSDEQ
7FFEE400	SYSSIMGFIX
7FFEFE00	CTLSGL_VECTOR8
7FFEFE02	CTLSGW_CHINDX
7FFEFE04	CTLSGL_RMSP
7FFEFE08	CTLSGL_RMSIP
7FFEFE10	CTLSAL_STACK
7FFEFE20	CTLSGL_LOGTBL
7FFEFE28	CTLSGL_CMSUPR
7FFEFE2C	CTLSGL_CMUSER
7FFEFE30	CTLSGL_CMHANDLR
7FFEFE34	CTLSAG_EXCVEC
7FFEFE54	CTLSGL_THEXEC
7FFEFE58	CTLSGL_THSUPR
7FFEFE60	CTLSGO_COMMON
7FFEFE68	CTLSGL_GETMSG
7FFEFE6C	CTLSAL_STACKLIM
7FFEFE7C	CTLSGL_CTLBASVA
7FFEFE80	CTLSGL_IMGHDRBF
7FFEFE84	CTLSGL_RUNDNFLG
7FFEFE88	CTLSGL_PHD
7FFEFE8C	CTLSGO_ALLOCREG
7FFEFE94	CTLSGO_MOUNTLST
7FFEFE9C	CTLST_USERNAME
7FFEFEA8	CTLST_ACCOUNT
7FFEFEB0	CTLSGO_LOGIN
7FFEFEB8	CTLSGL_FINALSTS
7FFEFEBE	CTLSGL_WSPEAK
7FFEFEC0	CTLSGL_VIRTPEAK
7FFEFEC4	CTLSGL_VOLUMES
7FFEFEC8	CTLSGO_ISTART
7FFEFED0	CTLSGL_ICPUTIM
7FFEFED4	CTLSGL_IFAULTS
7FFEFED8	CTLSGL_IFAULTIO
7FFEFEDC	CTLSGL_IWSPEAK
7FFEFEE0	CTLSGL_IPAGEFL
7FFEFEE4	CTLSGL_IDIOCNT
7FFEFEE8	CTLSGL_IBIOCNT
7FFEFEEC	CTLSGL_IVOLUMES
7FFEFEF0	CTLST_NODEADDR
7FFEFEF7	CTLST_NODENAME
7FFEFEFE	CTLST_REMOTEID
7FFEFF10	CTLSGO_PROCPRIV
7FFEFF18	CTLSGL_USRCHMK
7FFEFF1C	CTLSGL_USRCHME
7FFEFF20	CTLSGL_POWERAST
7FFEFF24	CTLSGB_PWRMODE
7FFEFF25	CTLSGB_SSFILTER
7FFEFF28	CTLSAL_FINALEXC
7FFEFF38	CTLSGL_CCBBASE
7FFEFF3C	CTLSGO_DBGAREA

Value		Symbols...	
-----		-----	
7FFEFF44	CTLSGL_RMSBASE		
7FFEFF48	CTLSGL_PPM5G		
7FFEFF50	CTLSGB_MSGMASK		
7FFEFF51	CTLSGB_DEFLANG		
7FFEFF52	CTLSGW_PPM5GCHN		
7FFEFF54	CTLSGL_USRUNDWN		
7FFEFF58	CTLSGL_PCB		
7FFEFF5C	CTLSGL_RUF		
7FFEFF60	CTLSGL_SITESPEC		
7FFEFF64	CTLSGL_KNOWNFIL		
7FFEFF68	CTLSAL_IPASTVEC		
7FFEFF88	CTLSGL_CMCNTX		
7FFEFF8C	CTLSGL_IAFLNKPTR		
80000000	DEVSM_WCK	PSLSM_CM	VASM_SYSTEM
80000010	SYSCALL_HANDL		
80000800	R-MMGSA_ENDVEC	R-PMSSGL_FCP	R-PMSSGL_FCP2
80000918	R-PMSSGL_TURN		
8000091C	R-PMSSGL_SPLIT		
80000920	R-PMSSGL_HIT		
80000924	R-PMSSGL_DIRHIT		
80000928	R-PMSSGL_DIRMISS		
8000092C	R-PMSSGL_QUOHIT		
80000930	R-PMSSGL_QUOMISS		
80000934	R-PMSSGL_FIDHIT		
80000938	R-PMSSGL_FIDMISS		
8000093C	R-PMSSGL_EXTHIT		
80000940	R-PMSSGL_EXTMISS		
80000944	R-PMSSGL_OPEN		
80000948	R-PMSSGL_OPENS		
80000C50	R-SWPSA_KSTK		
80000C54	R-EXESGL_BUGCHECK		
80000C58	R-IOCSGL_DEVLIST		
80000C5C	R-IOCSGL_ADPLIST		
80000C60	R-IOCSGL_DPTLIST		
80000C68	R-TTYSGL_DPT		
80000C6C	R-SYSSGL_BOOTDDB		
80000CA0	R-SYSSGL_BOOTUCB		
80000D9C	R-OPASGL_DDB		
80000DD0	R-OPASUCB0		
80000F10	R-OPASCRB		
80000F34	R-CONSINTDISI		
80000F58	R-CONSINTDISO		
80000F84	R-MBSGL_DDB		
80000FB8	R-MBSUCB0		
8000103C	R-MBSGL_UCB1	R-SYSSGL_JOBCTLMB	
800010C0	R-MBSGL_UCB2	R-SYSSGL_OPRMBX	
80001144	R-NLSGL_DDB		
80001178	R-NLSGL_UCB0		
800011FC	R-NETSWCB		
80001274	R-MBSDPT		
800012AD	R-NLSDPT		
800012E6	R-OPSDPT		

Value		Symbols...
-----		-----
00001320	R-DRSINT	
00001337	R-DRSINITIAL	R-MMGSAL_BEGDRIVE
0000133D	R-MBASINT	
000013DC	R-MBASINITIAL	
000013E8	R-MBSDDT	
0000144E	R-EXESSNDEVMSG	
0000147E	R-EXESWRTMAILBOX	
000017F0	R-NLSDDT	
00001850	R-CONSINITIAL	
00001866	R-CONSINITLINE	
00001893	R-CONSDISCON	
00001894	R-CONSINTINP	
000018CE	R-CONSSTARTIO	
0000191F	R-CONSINTOUT	
00001AB6	R-MASREQUEST	
00001B51	R-MASRAVAIL	
00001B8C	R-MASINT	
00001CE1	R-MASINITIAL	
00001DD8	R-MMGSAL_ENDDRIVE	R-PFNSAL_HEAD
00001DDC	R-PFNSAL_MFYLSTHD	
00001DF0	R-SCHSGL_FREECNT	
00001DF4	R-SCHSGL_MFYCNT	
00001DFC	R-PFNSGL_PHYPGCNT	
00001E00	R-PFNSAL_HILIMIT	R-SCHSGL_FREEREG
00001E04	R-SCHSGL_MFYLIM	
00001E0C	R-PFNSAL_LOLIMIT	R-SCHSGL_FREELIM
00001E10	R-SCHSGL_MFYLOLIM	
00001E18	R-SCHSGL_MFYLIMSV	
00001E1C	R-SCHSGL_MFYLOS	
00001E20	R-PMSSGL_FAULTS	
00001E24	R-PMSSGL_PREADS	R-PMSSGL_RDFLT
00001E28	R-PMSSGL_PREADIO	
00001E2C	R-PMSSGL_PWRITES	
00001E30	R-PMSSGL_PWRITIO	
00001E34	R-PMSSGL_DZROFLT	
00001E38	R-PMSSAL_TRANSFLT	
00001E58	R-PMSSGL_DPTSCN	
00001E5C	R-PMSSGL_GVALID	
00001E60	R-MPWSAL_PTE	
00001E64	R-MPWSAW_PHVINDE	
00001E68	R-MPWSGL_BADPAGTOTAL	
00001E6C	R-MMGSGL_IACLOCK	
00001E70	R-MMGSGL_PFNLOCK	
00001E74	R-PFMSGL_SIZE	
00001E78	R-PFMSGL_PMBLST	
00001E88	R-SCHSAQ_COMH	
00001E8C	R-SCHSAQ_COMT	
00001F88	R-SCHSAQ_COMOH	
00001F8C	R-SCHSAQ_COMOT	
0000207C	R-SCHSAQ_WQHDR	
00002088	R-SCHSGQ_COLPGWQ	
00002094	R-SCHSGQ_MWAIT	

Value	Symbols...
-----	-----
800020AC	R-SCHSGG_PFWQ
800020B8	R-SCHSGG_LEFWQ
800020C4	R-SCHSGG_LEFOWQ
800020D0	R-SCHSGG_HIBWQ
800020DC	R-SCHSGG_HIBOWQ
800020E8	R-SCHSGG_SUSP
800020F4	R-SCHSGG_SUSPO
80002100	R-SCHSGG_FPGWQ
8000210C	R-SCHSGL_CURPCB
80002110	R-SCHSGL_COMQS
80002114	R-SCHSGL_COMOQS
80002118	R-SCHSGB_SIP
80002119	R-SCHSGB_RESCAN
8000211A	R-MMGSGB_FREWFLG
8000211C	R-SCHSGW_PROCCNT
8000211E	R-SCHSGW_PROCLIM
80002120	R-SWPSGL_SLOTCNT
80002124	R-SCHSGG_CEBHD
8000212C	R-SCHSGW_CEBCNT
8000212E	R-SCHSGW_DELPHDCT
80002130	R-SWPSGL_SHELL
80002134	R-SWPSGL_INPCB
80002138	R-SWPSGL_ISPAGCNT
8000213C	R-SWPSGW_IBALSETX
8000213E	R-SWPSGB_ISWPRI
80002140	R-SWPSGL_ISWPPAGES
80002144	R-SWPSGL_ISWPCNT
80002148	R-SWPSGL_OSWPCNT
8000214C	R-SWPSGL_HOSWPCNT
80002150	R-SWPSGL_HISWPCNT
80002154	R-SCHSGL_RESMASK
80002158	R-SCHSGB_PRI
8000215C	R-SWPSGL_SWTIME
80002160	R-MMGSGL_NULLPFL
80002184	R-MMGSGL_PAGSWPVC
80002188	R-MMGSGL_MAXPFIDX
8000218C	R-MMGSGW_MINPFIDX
80002190	R-EXESGL_PHRDONE
80002194	R-EXESGL_PHRINTVL
800021B0	R-SWPSGW_BALCNT
800021B2	R-SCHSGW_SWPCNT
800021B4	R-PHVSGL_PIXBAS
800021B8	R-PHVSGL_REFCBAS
800021BC	R-EXESGL_CONFREG
800021C0	R-MMGSGL_SBICONF
800021C4	R-EXESGL_NUMNEXUS
800021C8	R-MMGSGL_RMSBASE
800021CC	R-MMGSGL_GBLSECFND
800021D0	R-MMGSGL_GBLPAGFIL
80002350	R-SCHSGL_NULLPCB
80002568	R-SCHSGL_SWPPCB
800025C8	R-SCHSGL_SWPPID

R-SGNSGW_SWPFILCT

Value	Symbol...
-----	-----
80002608	R-MMGSAL└SYSPCB
800026A4	R-SCHSGL└PCBVEC
800026A8	R-SCHSGL└MAXPIX
800026AC	R-SCHSGL└SEQVEC
800026F0	R-EXESGL└FLAGS
800026F4	R-EXESGL└ERLMBX
800026FC	R-EXESGL└USRCHMK
80002700	R-EXESGL└USRCHME
80002708	R-SWISGL└FQFL
8000270C	R-SWISGL└FQBL
80002738	R-LOGSAL└LOGTBL
8000274C	R-LOGSAB└HTBLCNT
80002750	R-LOGSAL└MUTEX
80002758	R-EXESGL└SYSUCB
8000275C	R-FILSGT└DDDEV
8000276A	R-FILSGT└TOPSYS
80002774	R-FILSGQ└CACHE
8000277C	R-EXESGL└BOOTCB└D
80002780	R-EXESGL└BOOTCB
80002784	R-EXESGL└SAVEDUMP
80002788	R-IOCSGL└PSFL
8000278C	R-IOCSGL└PSBL
80002790	R-IOCSGL└IRPFL
80002794	R-IOCSGL└IRPBL
80002798	R-IOCSGL└IRPREM
8000279C	R-IOCSGL└IRPCNT
800027A0	R-IOCSGL└IRPMIN
800027A4	R-IOCSGL└SRPFL
800027A8	R-IOCSGL└SRPBL
800027AC	R-IOCSGL└SRPSIZE
800027B0	R-IOCSGL└SRPMIN
800027B4	R-IOCSGL└SRPSPLIT
800027B8	R-IOCSGL└SRPREM
800027BC	R-IOCSGL└SRPCNT
800027C0	R-IOCSGL└LRPFL
800027C4	R-IOCSGL└LRPBL
800027C8	R-IOCSGL└LRPSIZE
800027CC	R-IOCSGL└LRPMIN
800027D0	R-IOCSGL└LRPSPLIT
800027D4	R-IOCSGL└LRPREM
800027D8	R-IOCSGL└LRPCNT
800027DC	R-IOCSGL└POOLFKB
800027F4	R-IOCSGL└PFKBINT
800027F8	R-IOCSGL└AQBLIST
800027FC	R-IOCSGL└MOUNTLST
80002804	R-IOCSGL└BRDCST
8000280C	R-IOCSGL└CRBTMOUT
80002810	R-EXESGL└GSDGRPFL
80002814	R-EXESGL└GSDGRPBL
80002818	R-EXESGL└GSDSYSFL
8000281C	R-EXESGL└GSDSYSBL
80002820	R-EXESGL└GSDFREFL

Value	Symbol...
-----	-----
80002824	R-EXESGL_GSDFREBL
80002828	R-EXESGL_GSDDELFL
8000282C	R-EXESGL_GSDDELBL
80002830	R-EXESGL_WCBDELFL
80002834	R-EXESGL_WCBDELBL
80002838	R-EXESGL_SYSWCBFL
8000283C	R-EXESGL_SYSWCBBL
80002840	R-PMSSGL_KERNEL
80002854	R-PMSSGL_COMPAT
80002858	R-EXESGL_ABSTIM
80002860	R-EXESGL_SYSTIME
80002868	R-EXESGL_PFAILTIM
8000286C	R-EXESGL_PFATIM
80002870	R-EXESGL_TQFL
800028A0	R-EXESGL_TQENOREPT
800028C0	R-IOCSGL_MUTEX
800028C4	R-EXESGL_CEBMTX
800028C8	R-EXESGL_PGDYNMTX
800028CC	R-EXESGL_GSDMTX
800028D0	R-EXESGL_SHMGSMTX
800028D4	R-EXESGL_SHMMBMTX
800028D8	R-EXESGL_ENQMTX
800028DC	R-EXESGL_KFIMTX
800028E0	R-EXESGL_KNOWNFIL
800028E4	R-KFISGL_F11ACP
800028E8	R-EXESGL_GPT
800028F0	R-SYSSGL_VERSION
800028F8	R-SYSSGW_IJOBcnt
800028FA	R-SYSSGW_NJOBcnt
800028FC	R-SYSSGW_BJOBcnt
800028FE	R-EXESGW_SCANPIX
80002900	R-EXESGL_SYSM8G
80002904	R-EXESGL_USRUNDWN
80002908	R-EXESGL_NONPAGED
80002914	R-EXESGL_SPLITADR
80002918	R-EXESGL_PAGED
80002920	R-RMSSGL_SFDBASE
80002924	R-EXESGL_SHBLIST
80002928	R-EXESGL_RTBITMAP
8000292C	R-MCHKSGL_MASK
80002930	R-MCHKSGL_SP
80002934	R-EXESGL_MCHKERRS
80002938	R-EXESGL_MEMERRS
8000293C	R-IOISGL_UBA_INT0
80002940	R-EXESGL_BLAHOLE
80002944	R-IOISGL_SCB_INT0
80002948	R-EXESGL_TENUSEC
8000294C	R-EXESGL_MP
80002950	R-EXESGL_SITESPEC
80002954	R-EXESGL_INTSTKLM
80002958	R-LCKSGL_IDTBL
8000295C	R-LCKSGL_NXTID

Value	Symbol...
-----	-----
80002960	R-LCK3GL└MAXID
80002964	R-LCK3GL└HASHYBL
80002968	R-LCK3GL└HTBLCNT
8000296C	R-LCK3GL└TIMOUTQ
80002974	R-LCK3GL└PRCMAP
80002978	R-LCK3GL└MAXDEPTH
8000297C	R-EXESGL└SYSFLAGS
80002980	R-EXESGL└ACMFLAGS
80002984	R-EXESGL└SVAPTE
80002988	R-EXESGL└BLKHOLWQ
80002D90	R-ERLSGL└BUFADDR
80002D98	R-ERLSGL└BUFIND
80002D99	R-ERLSGL└BUFFLAG
80002D9A	R-ERLSGL└BUFPTR
80002D9B	R-ERLSGL└BUFTIM
80002D9C	R-ERLSGL└ERLPID
80002DA0	R-ERLSGL└SEQUENCE
80002DA4	R-PMSSGL└DIRIO
80002DA8	R-PMSSGL└BUFIO
80002DAC	R-PMSSGL└LOGNAM
80002DB0	R-PMSSGL└MBREADS
80002DB4	R-PMSSGL└MBWRITES
80002DB8	R-PMSSGL└TREADS
80002DBC	R-PMSSGL└TWRITES
80002DC0	R-PMSSGL└IOPFMPDB
80002DC4	R-PMSSGL└IOPFMSEQ
80002DC8	R-PMSSGL└ARRLOCPK
80002DCC	R-PMSSGL└DEPLOCPK
80002DD0	R-PMSSGL└ARRTRAPK
80002DD4	R-PMSSGL└TRCNGLQS
80002DD8	R-PMSSGL└RCVBUFFL
80002DDC	R-PMSSGL└ENQNEW
80002DE0	R-PMSSGL└ENQCVT
80002DE4	R-PMSSGL└DEQ
80002DE8	R-PMSSGL└ENQWAIT
80002DEC	R-PMSSGL└ENQNOTQD
80002DF0	R-PMSSGL└DLCKSRCH
80002DF4	R-PMSSGL└DLCKFND
80002DF8	R-PMSSGL└CHMK
80002DFC	R-PMSSGL└CHME
80002E00	R-PMSSGL└PAGES
80002E04	R-PMSSGL└BATCH
80002E06	R-PMSSGL└INTJOBS
80002E08	R-PMSSAL└READTBL
80002E30	R-PMSSAL└WRITETBL
80002E50	R-PMSSGL└READCNT
80002E5C	R-PMSSGL└WRTCNT
80002E60	R-PMSSGL└PASSALL
80002E64	R-PMSSGL└RWP
80002E68	R-PMSSGL└LRGRWP
80002E6C	R-PMSSGL└RWPSUM
80002E70	R-PMSSGL└NOSTOTRM

Value	Symbol
80002E74	R-PMSSGL_RWPNOSTD
80002E78	R-PMSSGL_LDPCTX
80002E7C	R-PMSSGL_SWITCH
80002E80	R-PMSSGB_PROMPT
80002E84	R-PMSSGL_DOSTATS
80002E88	R-EXESAL_LOAVEC
80002E90	R-EXESINT54
80002E98	R-EXESINT58
80002EA0	R-EXESINT5C
80002EA8	R-EXESINT60
80002EB0	R-UBASINT0
80002EB8	R-UBASUNEXINT
80002EBE	R-ECCSREENABLE
80002EC4	R-EXESINIBOOTADP
80002ECA	R-EXESDUMPCPUREG
80002ED0	R-EXESREGRESTOR
80002ED6	R-EXESREGSAVE
80002EDC	R-EXESINIPROCREG
80002EE2	R-EXESTEST_CSR
80002EE8	R-IOCSPURGDATAP
80002EEE	R-EXESDW780_INT
80002EF4	R-EXESRH780_INT
80002EFA	R-CISINITIAL
80002F00	R-CISINT
80002F06	R-UBASINITIAL
80002F0C	R-INISMPMADP
80002F12	R-EXESSHUTDWNADP
80002F18	R-EXESMCHK_ERRCNT
80002F1C	R-EXESLOAD_ERROR
80002F20	R-SCSSGQ_CONFIG
80002F28	R-SCSSGQ_DIRECT
80002F30	R-SCSSGL_BDT
80002F34	R-SCSSGL_CDL
80002F38	R-SCSSGL_RDT
80002F3C	R-SCSSGL_MCLEN
80002F40	R-SCSSGL_MCADR
80002F44	R-SCSSACCEPT
80002F4A	R-SCSSALLOC_CDT
80002F50	R-SCSSALLOC_RSPID
80002F56	R-SCSSCONFIG_PTH
80002F5C	R-SCSSCONFIG_SYS
80002F62	R-SCSSCONNECT
80002F68	R-SCSSDEALL_CDT
80002F6E	R-SCSSDEALL_RSPID
80002F74	R-SCSSDISCONNECT
80002F7A	R-SCSSENTER
80002F80	R-SCSSLISTEN
80002F86	R-SCSSLOCLOOKUP
80002F8C	R-SCSSREMOVE
80002F92	R-IOCSTHREADCRB
80002F98	R-SCSSRESUMEWAITR
80002F9E	R-SCSSUNSTALLUCB

R-EXESMCHK

R-SCSSAL_LOAVEC

0

Value	Symbol	Symbol
-----	-----	-----
80002FA4	R-SCSSLKP└RDTCDRP	
80002FAA	R-SCSSLKP└RDTWAIT	
80002FB0	R-PATSA└NONPGD└DATA	
80003200	R-EXESA└SYSPARAM	R-EXESGQ└TODCBASE
80003208	R-EXESGL└TODR	R-MMGSA└SYSPARAM
8000320C	R-SGNSGW└DFPFC	
8000320E	R-SGNSGB└PGTBPF	
8000320F	R-SGNSGB└SYSPFC	
80003210	R-SGNSGB└KFILSTCT	
80003212	R-SGNSGW└GBLSECNT	
80003214	R-SGNSGL└MAXGPGCT	
80003218	R-SGNSGL└GBLPAGFIL	
8000321C	R-SGNSGW└MAXPRCCT	
8000321E	R-SGNSGW└PIXSCAN	
80003220	R-SGNSGW└MAXPSTCT	
80003222	R-SGNSGW└MINWSCNT	
80003224	R-SGNSGW└PAGFILCT	
80003226	R-SGNSGW└SWPFILES	
80003228	R-SGNSGW└SYSDWST	
8000322A	R-SGNSGW└ISPPGCT	
8000322C	R-LCKSGL└EXTRASTK	
80003230	R-SGNSGL└BALSETCT	
80003234	R-SGNSGL└IRPCNT	
80003238	R-SGNSGL└IRPCNTV	
8000323C	R-SGNSGL└MAXWSCNT	
80003240	R-SGNSGL└NPAGEDYN	
80003244	R-SGNSGL└NPAGEVIR	
80003248	R-SGNSGL└PAGEDYN	
8000324C	R-SGNSGL└MAXVPGCT	
80003250	R-SGNSGL└SPTREQ	
80003254	R-SGNSGL└EXUSRSTK	
80003258	R-SGNSGL└LRPCNT	
8000325C	R-SGNSGL└LRPCNTV	
80003260	R-SGNSGL└LRPSIZE	
80003264	R-SGNSGL└LRPMIN	
80003268	R-SGNSGL└SRPCNT	
8000326C	R-SGNSGL└SRPCNTV	
80003270	R-SGNSGL└SRPSIZE	
80003274	R-SGNSGL└SRPMIN	
80003278	R-SGNSGW└PCHANCNT	
8000327A	R-SGNSGW└IMGIOCNT	
8000327C	R-SCHSGW└QUAN	
8000327E	R-MPWSAH└INITVAL	R-MPWSGW└MPWPF
80003280	R-MPWSGW└HILIM	
80003282	R-MPWSGW└LOLIM	
80003284	R-MPWSGB└PRIO	
80003285	R-SWPGB└PRIO	
80003288	R-MPWSGL└THRESH	
8000328C	R-MPWSGL└WAITLIM	
80003290	R-SGNSGW└WSLMSKPT	
80003294	R-MMGSGL└PHYPGCNT	
80003298	R-SCHSGL└PFRATL	

Value	Symbols...
-----	-----
8000329C	R-SCHSGL_PFRATH
800032A0	R-SCHSGL_PFRATS
800032A4	R-SCHSGL_WSINC
800032A8	R-SCHSGL_WSDEC
800032AC	R-SCHSGW_AWSMIN
800032B0	R-SCHSGL_AWSTIME
800032B4	R-SCHSGL_SWPRATE
800032B8	R-SWPSGL_SWPPGCNT
800032BC	R-SWPSGW_SWPINC
800032BE	R-SCHSGW_IOTA
800032C0	R-SCHSGW_LONGWAIT
800032C2	R-SCHSGW_SWPFAIL
800032C4	R-SGNSGL_VMSD1
800032C8	R-SGNSGL_VMSD2
800032CC	R-SGNSGL_VMSD3
800032D0	R-SGNSGL_VMSD4
800032D4	R-SGNSGL_VMS5
800032D8	R-SGNSGL_VMS6
800032DC	R-SGNSGL_VMS7
800032E0	R-SGNSGL_VMS8
800032E4	R-SGNSGL_USERD1
800032E8	R-SGNSGL_USERD2
800032EC	R-SGNSGL_USER3
800032F0	R-SGNSGL_USER4
800032F4	R-SGNSGL_EXTRACPU
800032F8	R-EXESGL_SYSUIC
800032FC	R-IOCSGW_MVTIMEOUT
800032FE	R-IOCSGW_MAXBUF
80003300	R-IOCSGW_MBXBFQUO
80003302	R-IOCSGW_MBXMXMSG
80003304	R-IOCSGW_MBXNMMSG
80003308	R-SGNSGL_FREELIM
8000330C	R-SGNSGL_FREEGOAL
80003310	R-SCHSGL_GROWLIM
80003314	R-SCHSGL_BORROWLIM
80003318	R-EXESGL_LOCKRTRY
8000331C	R-IOCSGW_XFMXRATE
8000331E	R-IOCSGW_LAMAPREG
80003320	R-EXESGL_RTIMESPT
80003324	R-EXESGL_CLITABL
80003328	R-LCKSGL_IDTBL9IZ
8000332C	R-LCKSGL_HTBL9IZ
80003330	R-LCKSGL_WAITTIME
80003334	R-SCSSGW_BDTCNT
80003336	R-SCSSGW_CDTCNT
80003338	R-SCSSGW_RDTCNT
8000333A	R-SCSSGW_MAXDG
8000333C	R-SCSSGW_MAXMSG
8000333E	R-SCSSGW_FLOWCUSH
80003340	R-SCSSGW_SYSTEMID
80003348	R-SCSSGW_PASTRTRY
8000334A	R-SCSSGW_PASTMOUT

Value	Symbol...
8000334C	R-SCSSGW_PAPPDDG
8000334E	R-SCSSGB_PANPOLL
80003350	R-SCSSGW_PAPOLINT
80003352	R-SCSSGW_PAPOLIN
80003354	R-SGNSGW_TPWAIT
80003356	R-SCSSGB_UDABURST
80003358	R-LOGSGL_HTBL8IZ
8000335C	R-LOGSGL_HTBL8IZG
80003360	R-LOGSGL_HTBL8IZP
80003364	R-EXESGL_DEFFLAGS
80003368	R-EXESGL_MSGFLAGS
8000336C	R-TTYSGL_DELTA
80003370	R-TTYSGB_DIALTYP
80003371	R-TTYSGB_DEFSPEED
80003372	R-TTYSGB_RSPEED
80003373	R-TTYSGB_PARITY
80003374	R-TTYSGW_DEFBUF
80003378	R-TTYSGL_DEFCHAR
8000337C	R-TTYSGL_DEFCHAR2
80003380	R-TTYSGW_TYPAHDSZ
80003382	R-TTYSGW_ALTYPAMD
80003384	R-TTYSGW_ALTALARM
80003386	R-TTYSGW_DMASIZE
80003388	R-TTYSGW_PROT
8000338C	R-TTYSGL_DWNUIC
80003390	R-TTYSGW_CLASSNAM
80003392	R-TTYSGB_SILOTIME
80003393	R-SYSSGB_DFMBC
80003394	R-SYSSGB_DFMBSOK
80003395	R-SYSSGB_DFMBSMT
80003396	R-SYSSGB_DFMBSUR
80003397	R-SYSSGB_DFMBSREL
80003398	R-SYSSGB_DFMBSIDX
80003399	R-SYSSGB_DFMBSHSH
8000339A	R-SYSSGB_RMSPROLOG
8000339C	R-PQLSAL_DEFAULT
8000339E	R-SYSSGW_RMSEXTEND
800033A0	R-PQLSGDASTLM
800033A4	R-PQLSGDBIOLM
800033A8	R-PQLSGDBYTLM
800033AC	R-PQLSGDCPULM
800033B0	R-PQLSGDDIOLM
800033B4	R-PQLSGDFILLM
800033B8	R-PQLSGDPGFLQUOTA
800033BC	R-PQLSGDPRCLM
800033C0	R-PQLSGDTQELM
800033C4	R-PQLSGDWSQUOTA
800033C8	R-PQLSGDWSDEFAULT
800033CC	R-PQLSGDENQLM
800033D0	R-PQLSGDWSEXTENT
800033D4	R-PQLSAL_MIN
800033D8	R-PQLSGMASTLM
	R-SGNSGW_DFWSCNT

Value	Symbol...
-----	-----
800033DC	R-PQLSGMBIOLM
800033E0	R-PQLSGMBYTLM
800033E4	R-PQLSGMCPULM
800033E8	R-PQLSGMDIOLM
800033EC	R-PQLSGMFILLM
800033F0	R-PQLSGMPGFLQUOTA
800033F4	R-PQLSGMPRCLM
800033F8	R-PQLSGMTQELM
800033FC	R-PQLSGMWSQUOTA
80003400	R-PQLSGMWSDEFAULT
80003404	R-PQLSGMENQLM
80003408	R-PQLSGMWSEXTENT
8000340F	R-PQLSAB_FLAG
8000341E	R-ACPSGW_MAPCACHE
80003420	R-ACPSGW_HDRCACHE
80003422	R-ACPSGW_DIRCACHE
80003424	R-ACPSGW_WORKSET
80003426	R-ACPSGW_FIDCACHE
80003428	R-ACPSGW_EXTCACHE
8000342A	R-ACPSGW_EXTLIMIT
8000342C	R-ACPSGW_QUOCACHE
8000342E	R-ACPSGW_SYSACC
80003430	R-ACPSGB_MAXREAD
80003431	R-ACPSGB_WINDOW
80003432	R-ACPSGB_WRITBACK
80003433	R-ACPSGB_DATACHK
80003434	R-ACPSGB_BASEPRIO
80003435	R-ACPSGB_SWAPFLGS
80003438	R-SYSSGB_MXPRTSYM
80003439	R-SYSSGB_DEFPRI
8000343A	R-SYSSGW_IJOB LIM
8000343C	R-SYSSGW_BJOB LIM
8000343E	R-SYSSGW_NJOB LIM
80003440	R-SYSSGW_RJOB LIM
80003444	R-SWPSGL_SHELLSIZ
80003448	R-SWPSGW_BAKPTE
8000344A	R-SWPSGW_EMPTPTE
8000344C	R-SWPSGW_WSLPTE
8000344E	R-SWPSGB_SHLP1PT
80003450	R-SWPSGL_BSLOTSZ
80003454	R-SWPSGL_MAP
80003458	R-SWPSGL_PHDBASVA
8000345C	R-SGNSGL_PHDAPCNT
80003460	R-SGNSGL_PHDLWCNT
80003464	R-SGNSGL_P1LWCNT
80003468	R-SGNSGL_PHDPAGCT
8000346C	R-SGNSGL_PTPAGCNT
80003470	R-MMGSGL_CTLBASVA
80003474	R-EXESAL_STACKS
80003478	R-EXESGL_INTSTK
8000347C	R-MMGSGL_GPTBASE
80003480	R-MMGSGL_GPTE

Symbol...

Value	Symbol...			
-----	-----			
00003484	R-MMG\$GL_MAXGPT			
00003488	R-MMG\$GL_FRESVA	R-MMG\$GL_MAXSYSVA		
0000348C	R-MMG\$GL_SPTBASE			
00003490	R-MMG\$GL_SPTLEN			
00003494	R-MMG\$GL_SYSPHD			
00003498	R-MMG\$GL_SYSPHDLN			
0000349C	R-SWP\$GL_BALBASE			
000034A0	R-SWP\$GL_BALSPT			
000034A4	R-MMG\$GL_SBR			
000034A8	R-MMG\$GL_NPAGEDYN			
000034AC	R-MMG\$GL_NPAGNEXT			
000034B0	R-MMG\$GL_IRPNEXT			
000034B4	R-MMG\$GL_LRPNEXT			
000034B8	R-MMG\$GL_SRPNEXT			
000034BC	R-MMG\$GL_PAGEDYN			
000034C0	R-MMG\$GL_MAXPFN			
000034C2	R-MMG\$GW_BIGPFN			
000034C4	R-MMG\$GL_MINPFN			
000034C8	R-EXE\$GL_RPB			
000034CC	R-BOO\$GL_SPTFREL			
000034D0	R-BOO\$GL_SPTFREL			
000034D4	R-EXE\$GL_SCB			
000034D8	R-EXE\$GB_CPUDATA			
000034E8	R-EXE\$GB_CPUYPE			
000034E9	R-PFN\$GB_LENGTH			
000034EA	R-EXE\$GW_PGFL_FID			
000034F0	R-PFN\$AL_PTE	R-PFN\$A_BASE		
000034F4	R-PFN\$AL_BAK			
000034F8	R-PFN\$AW_REFCNT			
000034FC	R-PFN\$AX_FLINK	R-PFN\$AX_SHRCNT		
00003500	R-PFN\$AX_BLINK	R-PFN\$AX_WSLX		
00003504	R-PFN\$AW_SWPVBN			
00003508	R-PFN\$AB_STATE			
0000350C	R-PFN\$AB_TYPE			
00003510	R-EXE\$GT_STARTUP			
00003530	R-MMG\$GL_PGDCOD	R-PAT\$GL_EXP_NPG2		
00003600	R-EXE\$RESTART	R-MMG\$FRSTRONLY		
000037B4	R-EXE\$INIT_DEVICE			
00003802	R-EXE\$PWRTIMCHK			
000038A9	R-EXE\$BUG_CHECK			
0000397A	R-MPH\$BUGCHKHK			
00003A0C	R-EXE\$BOOTCB_CHK			
00003A27	R-PMS\$END_IO			
00003A47	R-PMS\$END_RQ			
00003A75	R-PMS\$START_IO			
00003A98	R-PMS\$START_RQ			
00003B74	R-EXE\$AB_HEXTAB			
00003B84	R-ERL\$VEC256	R-ERL\$VEC320	R-ERL\$VEC384	R-ERL\$VEC448
00003B88	R-ERL\$VEC260	R-ERL\$VEC324	R-ERL\$VEC388	R-ERL\$VEC452
00003B8C	R-ERL\$VEC264	R-ERL\$VEC328	R-ERL\$VEC392	R-ERL\$VEC456
00003B90	R-ERL\$VEC268	R-ERL\$VEC332	R-ERL\$VEC396	R-ERL\$VEC460
00003B94	R-ERL\$VEC272	R-ERL\$VEC336	R-ERL\$VEC400	R-ERL\$VEC464

Value

Symbol...

80003B98
80003B9C
80003BA0
80003BA4
80003BA8
80003BAC
80003BB0
80003BB4
80003BB8
80003BBC
80003BC0
80003C34

R-ERLSVEC276
R-ERLSVEC280
R-ERLSVEC284
R-ERLSVEC288
R-ERLSVEC292
R-ERLSVEC296
R-ERLSVEC300
R-ERLSVEC304
R-ERLSVEC308
R-ERLSVEC312
R-ERLSVEC316
R-ERLSUNEXP
R-ERLSVEC112
R-ERLSVEC128
R-ERLSVEC148
R-ERLSVEC164
R-ERLSVEC184
R-ERLSVEC200
R-ERLSVEC220
R-ERLSVEC24
R-ERLSVEC28
R-ERLSVEC44
R-ERLSVEC64
R-ERLSVEC80
R-ERLSVEC_RETURN
R-EXESACVIOLAT
R-EXESARITH
R-EXESASTFLT
R-EXESBREAK
R-EXESCMODSUPR
R-EXESCMODUSER
R-EXESCOMPAT
R-EXESKERSTKNV
R-EXESMCHECK
R-EXESOPCCUS
R-EXESOPCDEC
R-EXESPAGRDERR
R-EXESRADRMOD
R-EXESROPRAND
R-EXESTBIT
R-EXESSFAIL
R-EXESECEPTION
R-EXESMCHK_PRTCT
R-EXESMCHK_BUGCHK
R-EXESMCHK_TEST
R-INISMASTERWAKE
R-IOCSIOPST
R-IOCSQNXSTSEG
R-IOCSQNXSTSEG1
R-IOCSWAKACP
R-IOCSDIRPOST1
R-EXESPOWERFAIL

R-ERLSVEC340
R-ERLSVEC344
R-ERLSVEC348
R-ERLSVEC352
R-ERLSVEC356
R-ERLSVEC360
R-ERLSVEC364
R-ERLSVEC368
R-ERLSVEC372
R-ERLSVEC376
R-ERLSVEC380
R-ERLSVEC0
R-ERLSVEC116
R-ERLSVEC132
R-ERLSVEC152
R-ERLSVEC168
R-ERLSVEC188
R-ERLSVEC204
R-ERLSVEC224
R-ERLSVEC240
R-ERLSVEC32
R-ERLSVEC48
R-ERLSVEC68
R-ERLSVEC84

R-ERLSVEC404
R-ERLSVEC408
R-ERLSVEC412
R-ERLSVEC416
R-ERLSVEC420
R-ERLSVEC424
R-ERLSVEC428
R-ERLSVEC432
R-ERLSVEC436
R-ERLSVEC440
R-ERLSVEC444
R-ERLSVEC100
R-ERLSVEC12
R-ERLSVEC136
R-ERLSVEC156
R-ERLSVEC172
R-ERLSVEC192
R-ERLSVEC208
R-ERLSVEC228
R-ERLSVEC248
R-ERLSVEC36
R-ERLSVEC52
R-ERLSVEC72
R-ERLSVEC88

R-ERLSVEC468
R-ERLSVEC472
R-ERLSVEC476
R-ERLSVEC480
R-ERLSVEC484
R-ERLSVEC488
R-ERLSVEC492
R-ERLSVEC496
R-ERLSVEC500
R-ERLSVEC504
R-ERLSVEC508
R-ERLSVEC104
R-ERLSVEC120
R-ERLSVEC140
R-ERLSVEC16
R-ERLSVEC176
R-ERLSVEC196
R-ERLSVEC212
R-ERLSVEC232
R-ERLSVEC248
R-ERLSVEC4
R-ERLSVEC56
R-ERLSVEC76
R-ERLSVEC92

R-ERLSVEC108
R-ERLSVEC124
R-ERLSVEC144
R-ERLSVEC160
R-ERLSVEC180
R-ERLSVEC20
R-ERLSVEC216
R-ERLSVEC236
R-ERLSVEC252
R-ERLSVEC40
R-ERLSVEC60
R-ERLSVEC8
R-ERLSVEC96

80003C3C
80003C44
80003C6C
80003C77
80003C8C
80003C94
80003CA4
80003CBC
80003CFC
80003D00
80003D08
80003D10
80003D42
80003D4C
80003D54
80003D5C
80003D70
80003D7F
80003DE3
80003E08
80003E4D
80003E68
80003E74
80004242
8000424E
800042A5
8000440D
80004408

Value	Symbol...
-----	-----
80005078	R-MMGSPAGEFAULT
80005376	R-MMGSSVPCTX
800053A4	R-MMGSRERCHWAIT
800053BF	R-MMGSPGFLTHWAIT
800057A4	R-MMGSSWBLEPFN
80005868	R-MMGSFREWSLE
800058FF	R-MMGSFREWSLX
80005924	R-MPH3INVALIDHK
8000592C	R-MMGSFRE_TRYSKIP
800059EF	R-MMGSDELW8LEX
80005A13	R-MMGSDELW8LEPPG
80005A39	R-MMGSININWPFN
80005A78	R-MMGSMAKEWSLE
80005ADF	R-MMGSLOCKPGTB
80005AES	R-MMGSINCPTRF
80005B23	R-MMGSDECPTRF
80005B8A	R-MMGSDECPHDREF
80005B8E	R-MMGSDECPHDREF1
80005B99	R-MMGSINIBLDPKT
80005BEB	R-MMGSALLOCPFN
80005C00	R-MMGSDELCONPFN
80005C82	R-MMGSREMPFNH
80005C8D	R-MMGSREMPFN
80005CE4	R-MMGSRLPFNSAVPTE
80005CF9	R-MMGSDELPFNLS
80005D01	R-MMGSRELPFN
80005D48	R-MMGSDALCBKSTORE
80005D73	R-MMGSINSPFNH
80005DAF	R-MMGSDALLOCPFN
80005DB1	R-MMGSINSPFNT
80005E35	R-MMGSIOLCK
80005F34	R-MMGSIOLCKPAG
80006051	R-MMGSUNLOCK
800060A4	R-MMGSREFCNTNEG
800060A8	R-MMGSSHRCNTNEG
800060AC	R-MMGSALLOCSWPAREA
800060E4	R-MMGSALLOCPAGFIL1
8000624D	R-MMGSALLOCPAGFIL2
800062D8	R-MMGSDALCPAGFIL
800062E1	R-MMGSDEALLOCPAGFIL
800063CC	R-MMGSCALCSWAPSIZE
80006402	R-MMGSSUBSECREP
8000640F	R-MMGSDECSECREP
800064E7	R-MMGSSVAPTECHK
80006500	R-MMGSPTEADRCHK
80006509	R-MMGSPTEREF
8000651B	R-MMGSPTEINDXCHK
80006521	R-MMGSPTEINDX
80006668	R-MMGSWRMFPYAG
800069A2	R-MMGSSHRINKWS
80006A01	R-MMGSEXTRADYNWS
80006ABB	R-MMGSDELPAG

Value	Symbols...
-----	-----
80006D71	R-MMGSPAGETYPE
80006D9B	R-MMGSDELGBLSEC
80006E76	R-MMGSGETPTIPAG
80006FB6	R-IACSLRIACLOCK
80006FE4	R-MMGSULKGBLWBLE
80006FF5	R-MMGSLCKULKPAG
80007163	R-MMGSSWAPWBLE
8000719F	R-MMGSSCNWSLX
800071DB	R-MMGSPURGWSSCN
800072A0	R-MMGSSETPRTPAG
8000741F	R-MMGSWRTPGSBAK
80007712	R-MMGSFINDGSDPFN
80007788	R-MMGSDECSHMREF
8000778B	R-MMGSINCSHMREF
800077AA	R-MMGSVALIDATEGSD
800077AE	R-MMGSGETNXTGSD
80007825	R-MMGSFINDSHD
80007893	R-SCHS08WPSCHED
80007A4A	R-MMGSMPWCHECK
80007A6E	R-BUGSFATAL
80007A95	R-EXESRMVTIMQ
80007B06	R-EXESNULLPROC
80007B0B	R-ACPSACCESS
80007B10	R-ACPSACCESSNET
80007B3C	R-ACPSDEACCESS
80007B91	R-ACPSMODIFY
80007B99	R-ACPSMOUNT
80007BB9	R-ACPSREADBLK
80007BE8	R-ACPSWRITEBLK
80007F00	R-EXESCANCELN
80007F0F	R-EXESCANCEL
8000802F	R-EXESCANTIM
8000804D	R-EXESCANWAK
8000806C	R-EXESCMEXEC
8000807C	R-EXESCMKRNL
8000809D	R-EXESDASSGN
800081AD	R-EXESDERLMB
800081E7	R-EXESFORCEX
8000822C	R-EXESIORSNWAIT
80008252	R-EXESONEPARM
80008258	R-EXESZEROPARM
8000825E	R-EXESMODIFY
80008264	R-EXESREAD
8000826D	R-EXESWRITE
80008290	R-EXESREADLOCK
80008293	R-EXESWRITELOCK
80008296	R-EXESMODIFYLOCK
80008299	R-EXESMODIFYLOCKR
800082A3	R-EXESREADLOCKR
800082AA	R-EXESWRITELOCKR
80008324	R-EXESREADCHK
8000832A	R-EXESWRITECHK

R-EXESINSTIMQ

Value	Symbol...
-----	-----
80008338	R-EXESREADCHKR
80008396	R-EXESWRITECHKR
800083E7	R-EXESSETCHAR
80008405	R-EXESSETMODE
8000841B	R-EXESSENSEMODE
80008443	R-EXESCARRIAGE
8000848B	R-EXESSCHDHW
800084ED	R-EXESSETIMR
80008624	R-EXESQIO
8000887E	R-EXESBLDPKTGSR
80008886	R-EXESBLDPKTGSW
8000888E	R-EXESBLDPKTSWPR
80008896	R-EXESBLDPKTSWPW
8000889E	R-EXESBUILDPKTW
800088A6	R-EXESBUILDPKTR
800088FD	R-EXESABORTIO
8000890A	R-EXESFINISHIOC
8000890C	R-EXESFINISHIO
80008920	R-EXESQIODRVPKT
80008924	R-EXESALTQUEPKT
80008936	R-EXESQIOACPPKT
80008950	R-EXESQIORETURN
80008957	R-EXESINSIOQ
80008972	R-EXESINSERTIRp
80008989	R-EXESSETPRI
80008A08	R-MTSCHECK_ACCESS
80008A2C	R-SCHSASTDEL
80008A40	R-MPHSASTDELHK
80008A46	R-MPHSASTDELCONT
80008A5A	R-MPHSQEMPTYCONT
80008AF7	R-EXESASTDEL
80008AFA	R-EXESASTRET
80008BC3	R-EXESIPAPBKAST
80008BE8	R-MPHSQAST
80008C86	R-SCHSNEWLVL
80008CA9	R-MPHSNEWLVLHK
80008CBA	R-SCHSSWAPACBS
80008CBD	R-SCHSREMOVACB
80008CC4	R-EXESIOFORK
80008CC8	R-EXESFORK
80008CE4	R-EXESFRKIPL6DSP
80008CF0	R-EXESFRKIPL9DSP
80008CFC	R-EXESFRKIPL10DSP
80008D08	R-EXESFRKIPL11DSP
80008D14	R-EXESFRKIPL8DSP
80008D1C	R-EXESFORKDSPTH
80008D40	R-EXESHWCLKINT
80008DA0	R-EXESSWTIMINT
80008E69	R-EXESTIMEOUT
80008F90	R-SCHSRSE
80008FEA	R-SCHSUNWAIT
8000901C	R-SCHSCHSE

R-SCHSQAST

Value	Symbol...
-----	-----
80009038	R-SCHSCHSEP
800090AE	R-SCHSQEND
8000910B	R-SCH\$FORCEEXIT
80009200	R-SCHSWAKE
80009225	R-SCHSSWPWAKE
80009288	R-SWPSGL_SHELIO
8000928C	R-EXESBUFRQUOTA
80009298	R-EXESBUFQUOPRC
800092AD	R-EXESSNGLEQUOTA
800092B0	R-EXESMULTIQUOTA
800092E4	R-EXESPROBER
8000932D	R-EXESPROBEW
8000936E	R-EXESALLOCBUF
80009372	R-EXESALLOCCEB
8000937B	R-EXESALLOCJIB
80009384	R-EXESALLOCIRP
8000938C	R-EXESALLOCPCB
80009394	R-EXESALLOCPQB
8000939D	R-EXESALLOCTQE
800093DD	R-EXESALONPAGWAIT
8000941A	R-EXESALONONPAGED
8000948E	R-EXESALOPAGED
800094C6	R-EXESALLOCATE
80009501	R-EXESDEANONPAGED
8000950D	R-EXESDEANONPGDSIZ
80009548	R-EXESDEAPAGED
80009596	R-EXESDEALLOCATE
800095D6	R-EXESALOSHARED
800095F3	R-EXESDEASHARED
80009631	R-EXESEXTENDPOOL
800097C1	R-SCHSRWAIT
800097C9	R-SCH\$LOCKWNOWAIT
800097E1	R-SCH\$IOLOCKW
800097E8	R-SCH\$LOCKW
800097FB	R-SCH\$IOLOCKR
80009802	R-SCH\$LOCKR
8000985B	R-SCH\$RAVAIL
80009869	R-SCH\$IOUNLOCK
80009870	R-SCH\$UNLOCK
800098DD	R-SCH\$POSTEF
800099C4	R-EXESCHKWAIT2
80009A40	R-EXESPROCSTRT
80009A54	R-MPH\$RESCHED
80009A74	R-MPH\$SCHED
80009ACB	R-EXESSHM_DELETE
80009B3A	R-EXESBRDCST
80009E28	R-EXESBRDCSTCOM
80009EFC	R-EXESDELPRC
80009F4A	R-EXESCLREF
80009F5A	R-SCH\$GETEFC
80009F95	R-SCH\$CLREFR
80009F9B	R-SCH\$CLREF

R-SCH\$RESCHED
R-SCH\$SCHED

Value	Symbol...
-----	-----
00009FA9	R-EXESREADEF
00009FCD	R-EXESSETEF
00009FF0	R-EXESSUSPND
0000A046	R-EXESRESUME
0000A05B	R-EXESHIBER
0000A06F	R-EXESWAKE
0000A080	R-EXESNAMPID
0000A148	R-EXESSETPRN
0000A1C0	R-PFMSMON
0000A247	R-EXESWFLAND
0000A24E	R-EXESWFLOR
0000A258	R-EXESWAITFR
0000A2C9	R-SCHSWAIT
0000A2E4	R-SCHSWAITK
0000A2EF	R-SCHSWAITL
0000A2F0	R-SCHSWAITH
0000A32C	R-LCK\$SEARCHDLCK
0000A540	R-LCK\$COMPAT_TBL
0000A6A5	R-LCK\$REGRANTLOCK
0000AAB9	R-LCK\$GRANTCVTS
0000AAF1	R-LCK\$GRANTWTRS
0000AB54	R-LCK\$DEQLOCK
0000AC98	R-IOCSGETBYTE
0000ACA9	R-IOCSPUTBYTE
0000ACBA	R-IOCSINITBUFVIND
0000ACC1	R-IOCSMOVFRUSER
0000ACC5	R-IOCSMOVFRUSER2
0000ACD2	R-IOCSMOVFRUSER1
0000ACD9	R-IOCSMOVTOUSER
0000ACDD	R-IOCSMOVTOUSER2
0000ACEA	R-IOCSMOVTOUSER1
0000ACF1	R-IOCSFILSPT
0000AD19	R-ERLSDEVICERR
0000AD1D	R-ERLSDEVICTMO
0000ADAA	R-ERLSDEVICEATTN
0000AE23	R-ERLSLOGSTATUS
0000AE95	R-ERLSLOGMESSAGE
0000AEEE	R-ERLSCOLDSTART
0000AEP3	R-ERLSWARMSTART
0000AF0A	R-ERLSALLOCEMB
0000AFAA	R-ERLSRELEASEMB
0000AFD4	R-ERLSWAKE
0000AFF5	R-IOCSCANCELIO
0000B00C	R-IOCSDELMBX
0000B095	R-IOCSDIAGBUFILL
0000B0B8	R-IOCSRELSCHAN
0000B0C2	R-IOCSRELCHAN
0000B105	R-IOCSREQSCHANH
0000B10F	R-IOCSREQSCHANL
0000B119	R-IOCSREQPCHANH
0000B122	R-IOCSREQPCHANL
0000B150	R-IOCSALTREQCOM

Symbol...

Value	Symbols...
-----	-----
8000B175	R-IOCSREQCOM
8000B1DA	R-IOCSMNTVER
8000B1E3	R-IOCSINITIATE
8000B20C	R-IOCSREQDATAP
8000B21E	R-IOCSREQDATAPNW
8000B22C	R-IOCSREQDATAPUDA
8000B25E	R-IOCSRELDATAPUDA
8000B26C	R-IOCSRELDATAP
8000B2B9	R-IOCSREQMAPUDA
8000B2CE	R-IOCSREQMAPREGN
8000B2D2	R-IOCSREQMAPREG
8000B30E	R-IOCSALOUBAMAPN
8000B315	R-IOCSALOUBAMAP
8000B37A	R-IOCSALOUBAMAPSP
8000B414	R-IOCSALOUBMAPRMN
8000B41B	R-IOCSALOUBMAPRM
8000B4C3	R-IOCSRELMAPUDA
8000B4E5	R-IOCSRELMAPREG
8000B59D	R-IOCSRETURN
8000B59E	R-IOCSWFIKPC
8000B5C0	R-IOCSWFIRLCH
8000B5E4	R-IOCSALLOSPT
8000B60B	R-IOCSCVT_DEVNAM
8000B667	R-IOCSBROADCAST
8000B6D8	R-IOCSAPPLYECC
8000B74C	R-IOCSCVTLOGPHY
8000B755	R-IOCSCVTLOGPHYU
8000B777	R-IOCSMAPVBLK
8000B82E	R-IOCSUPDATRANS
8000B86A	R-IOCSSENSEDISK
8000B875	R-IOCSLOADMBAMAP
8000B88F	R-IOCSLOADUBAMAPA
8000B8D6	R-IOCSLOADUBAMAP
8000B949	R-IOCSPTETOPFN
8000B95D	R-IOCSLOADUBAMAPN
8000B99C	R-IOCSLUBAUDAMAP
8000BA2D	R-EXESHOUNTVER
8000BD70	R-EXESIPCONTROL
8000BF89	R-COMSDDELATTNAST
8000BFEC	R-COMSFUSHATTNS
8000C01F	R-COMSP0ST
8000C02D	R-COMSDRVDEALMEM
8000C056	R-COMSSSETATTNAST
8000C0C3	R-COMSDDELCTRLAST
8000C147	R-COMSFUSHCTRLS
8000C194	R-COMSSSETCTRLAST
8000C3FC	R-INISBRK
8000C3FE	R-INISWRITABLE
8000C405	R-INISRONLY
8000C452	R-PATSA_NONPGD_CODE R-PAT\$GL_EXP_NPG1
8000CE0D	R-EXESEXCPTNE
8000CE30	R-EXESCMODEXECX

Value	Symbol...
-----	-----
0000CE58	R-EXESCMODEXEC
0000CFEA	R-EXESEXCPN
0000CFF8	R-EXESCMODKRN LX
0000D020	R-EXESCMODKRN L
0000D129	R-EXESFAILURE
0000D131	R-EXESSUCCESS
0000D20F	R-IOCSDISMOUNT
0000D300	R-EXESGETACCESS
0000D3FD	R-EXESCHKDELACCE
0000D404	R-EXESCHKCREACCE
0000D408	R-EXESCHKRDACCE
0000D412	R-EXESCHKWRTACCE
0000D426	R-EXESMAXACMODE
0000D435	R-EXESPROBER_DSC
0000D439	R-EXESPROBEW_DSC
0000D47E	R-EXESIMGFI
0000D4AD	R-IOCSCREATE_UCB
0000D531	R-IOCSFFCHAN
0000D575	R-IOCSSEARCHGEN
0000D57A	R-IOCSSEARCHALC
0000D57F	R-IOCSSEARCHDEV
0000D765	R-IOCSUNLOCK
0000D777	R-IOCSVERIFYCHAN
0000D7AE	R-LOGSDELETE
0000D7DC	R-LOGSINSLOGN
0000D7E2	R-LOGSINSLOGN_LCK
0000D82E	R-LOGSLOCKR
0000D834	R-LOGSLOCKW
0000D83A	R-LOGSUNLOCK
0000D84F	R-LOGSSEARCHLOG
0000D888	R-LOGSHASH
0000D8F4	R-LOGSTRN8LOGNAME
0000D912	R-LOGSTRANSLATE
0000D9A2	R-MMGSIMGRESET
0000DAB8	R-MMGSDALCSTXSCN1
0000DABF	R-MMGSDALC8TXSCN
0000DB42	R-MMGSDALCSTX
0000DB59	R-MMGSALCSTX
0000DB82	R-MMGSALCPHD
0000DC1C	R-RMSRESET
0000DC5D	R-EXESADJWSL
0000DD11	R-MMGSWSPEAKCHK
0000DD3C	R-EXESADJSTK
0000DDA7	R-EXESDACEFC
0000DDCE	R-EXESASCEFC
0000DFB7	R-EXESDLCEFC
0000E2A7	R-EXESASSIGN
0000E4E4	R-EXESSETAST
0000E506	R-EXESDCLAST
0000E54A	R-EXESXPREG
0000E5A6	R-MMGSCRETVA
0000E5AE	R-EXESCRETVA

R-EXESCHKLOGACCE
R-EXESCHKPHYACCE

Value	Symbol...
-----	-----
8000E5C9	R-MMGSCRECOM1
8000E5D1	R-MMGSCRECOM2
8000E5D7	R-EXESCNTREG
8000E623	R-MMGSINADRINI
8000E632	R-MMGSRETADRINI
8000E662	R-EXESDELTYA
8000E74A	R-MMGSCREPAG
8000E92C	R-EXESCREPRC
8000EECA	R-EXESCRMP3C
8000EECF	R-EXESMGBL8C
8000EF39	R-EXESASCTIM
8000EFDA	R-EXESBINTIM
8000F1FE	R-EXESNUMTIM
8000F320	R-EXESDCLCMH
8000F363	R-EXESCANEXH
8000F395	R-EXESDCLEXH
8000F814	R-EXESALLOC
8000F8F7	R-EXESDALLOC
8000F992	R-MMGSVFYSECFLG
8000F9EC	R-MMGS68DMTXULK
8000FA05	R-MMGS68BLSC1
8000FA0C	R-EXES68BL8C
8000FB19	R-MMGS68DSCN
8000FC03	R-MMGSDELGBLWCB
8000FC98	R-EXESFAO
8000FCAS	R-EXESFAOL
8001008B	R-EXESGETCHN
80010094	R-EXESGETDEV
800101A9	R-EXESGETDVI
800104AE	R-EXESGETPTI
800104CE	R-EXESIMGACT
800104D3	R-EXESULWSET
800104DA	R-EXESULKPAG
800104EA	R-EXESLKWSET
800104F1	R-EXESLCKPAG
80010560	R-EXESCRELOG
800105F5	R-EXESDELLOG
800106D7	R-EXESTRNLOG
80010745	R-EXESCREMBX
8001087B	R-EXESDELMBX
800108A9	R-EXESPURGWS
800108E9	R-EXESSETEXV
80010C2C	R-EXESSETRWM
80010C33	R-EXESSETSPM
80010C41	R-EXESSETSWM
80010C61	R-EXESSETPRA
80010C95	R-EXESPOWERAST
80010D06	R-EXESSETPRT
80010D47	R-EXESSENDACC
80010D5A	R-EXESSEND5MB
80010D6D	R-EXESSENDOPR
80010E95	R-EXESSENDMSG

Value	Symbols...
-----	-----
00010EF3	R-EXESOPRSDNERL
00010EF9	R-EXESNETSDNERL
00010EFF	R-EXESSDERR
00010F45	R-EXESSETOPR
00010FAC	R-EXESUPDSEC
000110AB	R-MMGSUPDSECAST
0001111E	R-MMGSSET_BITMAP
00011127	R-MMGSCLR_BITMAP
00011186	R-MMGSALOSHMPAG
00011292	R-MMGSALOSHMGSD
0001131D	R-MMGSFREEGSD
00011389	R-MMGSFIND1STGSD
00011381	R-MMGSFINDSHB
000113E6	R-MMGSGETGSNAM
00011459	R-MMGSCEPTRNLOG
00011462	R-MMGSMBXTRNLOG
0001146B	R-MMGSGSDTRNLOG
00011614	R-MMGSWRITE_GSD
0001161D	R-MMGSREAD_GSD
000117DB	R-MMGSFINDGSNOTRN
0001181B	R-MMGSUNIQUEGSD
00011874	R-MMGSSHMTXLK
000118B1	R-MMGSSHMTXULK
000118D2	R-MMGSDELSHMGS
0001197A	R-MMGSALC_PGFLVBN
00011987	R-LIBSCVT_DTB
0001198E	R-LIBSCVT_OTB
000119C5	R-LIBSCVT_HTB
00011A32	R-EXESENG
00011BC0	R-EXESDEQ
00011CC6	R-EXESEEXIT
00011D72	R-EXESGETMSG
00012068	R-EXESGETJPI
0001206F	R-EXESGETSYI
000121B4	R-EXESGETTIM
000121E1	R-EXESEXCPTABLE
00012236	R-EXESPUTMSG
00012435	R-EXESRUNDWN
000126CC	R-EXESSETPFM
00012861	R-PFMSPURGE
000128ED	R-EXESSETPRV
000129CB	R-EXESSETSSF
000129E8	R-EXESSETSTK
00012A3A	R-EXESUNWIND
000128BF	R-EXESSETIME
00012EBE	R-EXESREFLECT
0001300C	R-EXESSRCHANDLER
000131F9	R-EXESSIGTORET
00013222	R-EXESEXPANDSTK
00013398	R-EXESEXCMSG
00013539	R-EXESGQ_SYSDISK
000137F3	R-EXESPROCIMGACT

Value	Symbol...
-----	-----
80013887	R-EXESCLI_UTILSRV
800138C1	R-EXEEXIT_IMAGE
800138CE	R-EXESCATCH_ALL
8001396E	R-EXESRMSEXH
800139E5	R-EXESOPEN_MSG
80013863	R-EXESCLOSE_MSG
80013BF4	R-PATSA_PAGED_CODE
80014AEB	R-MMGSRET_BYT_QUOTA
80015284	R-IACSFIXUP_IAP
800152C3	R-IACSSRCH_SHL_C
800152CF	R-IACSSRCH_SHL_D
80015383	R-IACSFIXUP_ADDR
80015459	R-IACSPRVSHRING
80015497	R-IACSRESET_IAP
800166D7	R-EXESIMGSTA
8001688E	R-EXESIMGPURMSG
80016897	R-EXESIMGDELMSG
8001699E	R-EXESPRCPURMSG
800169A7	R-EXESPRCDELMSG
80016B0E	R-PQLSAB_SYSPQL
80016B50	R-EXESSWAPINIT
80016EE9	R-FILSCVTFILNAM
80016FC8	R-FILSOPENFILE
800170EA	R-FILSCACHE_INIT
8001715E	R-FILSCACHE_TRUNC
80017243	R-FILSMOUNT
800172D3	R-FILSFINDFILID
800175DA	R-FILSRDCHKFILHDR
80017682	R-FILSWRITEVBN
80017689	R-FILSREADVBN
80017770	R-FILSSTATBLK
80017837	R-FILSRDWRTLBN
80017964	R-MMGSINIWCB
80017A00	R-SWPSGL_SHELLBAS
80018A00	R-MMGSAL_PGDCODEN
80018AF8	R-XDSSGT_LONG_PFN
80018CB8	R-XDELIBRK
80018D31	R-XDEL_LOADBASE
80018D5D	R-XDSSGL_XESTRING
80018D61	R-XDSSGL_XFSTRING
80019508	R-XDELBPT
800195A0	R-XDELTBIT
80019676	R-LIBSINS_DECODE
80019D10	R-LIBSGB_OPINFO1
8001A510	R-LIBSGB_OPINFO2
8001AE00	R-LOGSAL_DISKLOG
8001B06C	R-EXESINIT
8001BE5C	R-INISALONONPAGED
8001BEEF	R-MMGSAL_FIXUPTBL
8001C06D	R-PATSA_PFN_FIXUP
8001C075	R-INISA_INILOAVEC
8001C07C	R-BOOSA_BOOPARAM
	R-BOOSGL_DSKDRV
	R-EXESA_BOOPARAM
	R-XDSSGT_WORD_PFN

Value	Symbols...
-----	-----
8001C080	R-BOOSGL└SYSLOA
8001C084	R-BOOSGL└TRMDRV
8001C088	R-BOOSGL└INILOA
8001C090	R-BOOSGL└NPAGEDYN
8001C094	R-BOOSGL└SPLITADR
8001C098	R-BOOSGL└IRPCNT
8001C09C	R-BOOSGL└LRPSIZE
8001C0A0	R-BOOSGL└LRPMIN
8001C0A4	R-BOOSGL└LRPSPLIT
8001C0A8	R-BOOSGL└LRPCNT
8001C0AC	R-BOOSGL└SRPSPLIT
8001C0B0	R-BOOSGL└SRPCNT
8001C0B4	R-BOOSGL└FILCACHE
8001C0BC	R-BOOSGL└BOOTCB
8001C0C0	R-BOOSGL└TOPSYS
8001C0CA	R-BOOSGL└SYSTEMID
8001C0D0	R-BOOSGL└PRTDRV
8001C0D4	R-BOOSGL└UCODE
8001C0D8	R-BOOSGL└SCSLOA
8001C0DC	R-SYSSGT└ANNOUNCE
8001C118	R-IOCS└INITDRV
8001C11E	R-IOCS└REINITDRV
8001C1B9	R-IOCS└RELOC└DDT
8001C200	R-BUGSA└PAGED
8001C734	R-EXESOUTHEX
8001C74E	R-EXESOUTBLANK
8001C753	R-EXESOUTCHAR
8001C7AE	R-EXESOUTCRLF
8001C7B8	R-EXESOUTCSTRING
8001C7BD	R-EXESOUTZSTRING
8001C7CC	R-BUGST└MESSAGES
8001E9C8	R-BUGSA└PAGEDEND
8001EA00	R-MMGSA└SYS└END
FFFFFFE0	VASM└VPG

Key for special characters above:

```

+-----+
| * - Undefined |
| U - Universal |
| R - Relocatable |
| X - External |
+-----+

```

+-----+
! Image Synopsis !
+-----+

Virtual memory allocated: 80000000 8001E9FF 0001EA00 (125440. bytes, 245. pages)
Stack size: 0. pages
Image header virtual block limits: 1. 1. (1. block)
Image binary virtual block limits: 2. 246. (245. blocks)
Image name and identification: SYS V03-003
Number of files: 9.
Number of modules: 142.
Number of program sections: 82.
Number of global symbols: 2196.
Number of cross references: 4421.
Number of image sections: 1.
Image type: SYSTEM.
Map format: FULL WITH CROSS REFERENCE in file _DRA7:[SYS,LIS]SYS.MAP;1
Estimated map length: 701. blocks

+-----+
! Link Run Statistics !
+-----+

Performance Indicators	Page Faults	CPU Time	Elapsed Time
-----	-----	-----	-----
Command processing:	43	00:00:00.50	00:00:02.19
Pass 1:	705	00:00:12.60	00:00:27.96
Allocation/Relocation:	132	00:00:01.19	00:00:02.12
Pass 2:	264	00:00:08.33	00:00:17.59
Map data after object module synopsis:	238	00:00:15.68	00:00:20.25
Symbol table output:	226	00:00:00.66	00:00:02.41
Total run values:	1608	00:00:38.96	00:01:12.52

Using a working set limited to 1005 pages and 770 pages of data storage (excluding image)

Total number object records read (both passes): 5946
of which 2973 were in libraries and 284 were DEBUG data records containing 12634 bytes

Number of modules extracted explicitly = 136
with 6 extracted to resolve undefined symbols

128 library searches were for symbols not in the library searched

A total of 102 global symbol table records was written

/USERLIB=PROC COMS;SYSLNK/OPTIONS/EXE=EXES;SYS/SYSTEM/HEADER/MAP=MAPS;SYS/FULL/CROSS/SYMBOL=EXES;SYS
<_DBB0:[SYS,COM]SYSLNK.OPT;1>

! [S Y S . C O M] S Y S L N K . O P T

! OPTION FILE FOR LINKING THE SYSTEM

LIBS:SYS/INCLUDE:(-
MDAT,PDAT,PM8DAT,SHELL,SDAT,SYSCOMMON,SYSL0AVEC,SCSVEC,-
ACCOUNT,ALLOCPFN,ASTDEL,BOOPARAM,BUFFERCTL,BUGCHECK,BUGCHKMSG,-
IOPERFORM,CONSOLIO,CMODSSDSP,CVT_ATB,CVTFILNAM,DEADLOCK,-


```

DISMOUNT,ERRORLOG,EXCEPTION,EXCEPTMSG,EXSUBROUT,FILEREAD,-
FILERWIO,FORKCNTRL,GLOBALS,IMGACTSUB,-
INIT,INITVEC,RELOCDRV,IOCIPOST,IOLOCK,-
IOSUBNPAG,IOSUBPAGD,IOSUBRAMS,LOADMREG,LOGNAMSUB,MEMORYALC,MOUNTVER,-
IPCONTROL,MUTEX,NULLPROC,OSWPSCHED,PAGEFAULT,PAGEFILE,PHDUTL,POSTEF,-
POWERFAIL,PROCSTRT,RMSRESET,RSE,SCHED,SVAPTE,SWAPPER,-
SYSPARAM,TIMESCHDL,WRTMFYPAG),-
RESOBSJ:DELTA/INCLUDE:XDDELTA,-
RESOBSJ:SDA/INCLUDE:(LIBSINS_DECODE,LIBSVAX_INST),-
LIBS:SYS/INCLUDE:(SYSADJWSL,SYSADJSTK,SYSACPFDT,-
SYSASCFEC,SYSASSIGN,SYSASTCON,SYSBRDCST,SYSCANCEL,SYSCANEVT,SYSCHGMOD,-
SYSCREDEL,SYSCREPRC,SYSCRMPSC,SYSCVRTIM,SYSDASSGN,SYSDCLCMH,SYSDCLEXH,-
SYSDLPRC,SYSDERLMB,SYSDEVALC,SYSDGBLSC,SYSENGDEQ,SYSEVTSRV,-
SYSEXIT,SYSFAO,SYSFORCEX,SYSGETDEV,SYSGETMSG,-
SYSGETJPI,SYSGETPTI,SYSGETSYI,SYSGETTIM,-
SYSIMGACT,SYSIMGSTA,SYSLKWSET,SYSLOGNAM,SYSMAILBX,SYSPCNTRL,-
SYSPURGWS,SYSPUTMSG,OPENMSG,SYSQIOFDT,SYSRUNDN,SYSSCHEVT,-
SYSQIOREQ,SYSSETEXV,SYSSETMOD,SYSSETPFM,SYSSETPRA,SYSSETPRI,SYSSETPRT,-
SYSSETPRV,SYSSETSSF,SYSSETSTK,SYSSENDMSG,SYSUNWIND,SYSUPDSEC,-
SYSWAIT,SYSSETIME,-
SHMGBDRTN,DRINTHAND,MBAINTDSP,MBDRIVER,NLDRIVER,-
MTFDT,CONINTDSP,COMDRVSUB,MAHANDLER),-
RESOBSJ:DELTA/INCLUDE:XDSTRING,-
LIBS:SYS/INCLUDE:(VERSION,-
DEVICEDAT,-
MDAT└END)

```

! Last module linked into SYS.EXE