

# VMS Internals

Source Listings

digital

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## Source Listings

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## 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

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```
1 .TITLE ASTDEL - AST ENQUEUE AND DELIVERY
2 .IDENT 'V03-000'
3
4 ;
5 ;*****
6 ;*
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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

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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      $SSSDEF          ; 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$GL_CURPCB,R4 ; GET POINTER TO CURRENT PCB
140      SETIPL #IPLs_SYNCH                    ; BLOCK SYSTEM EVENTS
141  MPH$ASTDELHK::                                  ; MULTI-PROCESSING CHECK HOOKS HERE
142      REMQUE @PCBSL_ASTQFL(R4),R5          ; AND REMOVE HEAD OF QUEUE
143      BVS   @PCBSL_EMPTY                    ; EXIT IF QUEUE EMPTY
144  MPH$ASTDELCONT::                                ; MULTI-PROCESSING CHECK RETURNS TO HERE
145      BBCC  #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 MPHSQEMPTYCONT:: ; 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     CLRL   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$_ASTLVL                    ; SET AST LEVEL IN PROCESSOR REGISTER
253     MOVL   PCB$_PHD(R4),R0                   ; GET PROCESS HEADER ADDRESS
254     MOVB   R1,PHD$_ASTLVL(R0)               ; SET AST LEVEL IN HW PCB
255     BBC    #ACBSV_QUOTA,ACBSB_RMOD(R5),30$ ; SKIP IF NO QUOTA ACCOUNTING
256     INCW   PCB$_ASTCNT(R4)                  ; UPDATE OUTSTANDING COUNT
257 30$:                                     ; 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 CMLP 16(SP),#ASTEXIT_CHMK ; DELIVERY OCCUR DURING ASTEXIT REI?
356 BEQL 50$ ; YES, CHECK FOR SAME MODE
357 10$: MOVL ACBSL_ASTPRM(R5),-(R1) ; SET AST PARAMETER IN ARG LIST
358 MOVL #5,-(R1) ; AND FINALLY, ARGUMENT COUNT OF 5
359 MTPR R1,R3 ; SAVE UPDATED STACK POINTER
360 PUSHL ACBSL_AST(R5) ; STACK AST ENTRY POINT
361 MOVL R5,R0 ; SET ADDRESS OF ACB FOR RELEASE
362 MOVAB EXESASTDEL,20(SP) ; SET PC TO AST DELIVERY CALL
363 MOVAL (R3)[R3],R3 ; MODE=MODE*5, CURMOD=PRVMOD
364 ASSUME PSL$V_CURMOD EQ PSL$V_PRVMOD+2; FOR ABOVE MOVAL
365 ASHL #PSL$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 CMLP #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

```

```

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      #ACB$V_PKAST,ACBSB_RMOD(R5),30$ ; 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$:     BBS      #ACB$V_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                      ; DRUP IPL TO 0
425     BRW      EXESASTFLT             ; REFLECT EXCEPTION

```

```
427 .SBTTL EXE$IPAPBKAST - SPECIAL PIGGY BACK KAST FOR IPAST SERVICE
428 ;++
429 ; FUNCTIONAL DESCRIPTION:
430 ; THIS ROUTINE IS A SPECIAL PIGGY BACK KAST ROUTINE CALLED BY
431 ; ASTDEL DURING DELIVERY OF THE INTER-PROCESS AST. IT TAKES THE
432 ; IPAST INDEX RESIDING IN ACB$L_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 ; ACB$L_AST(R5) = INDEX OF IPASTS
441 ;
442 ; OUTPUTS:
443 ; 4(SP) --> NEW AST ADDRESS
444 ;
445 ;--
446
447 EXE$IPAPBKAST::
448     MOVL     ACB$L_AST(R5),R2           ; Pick up index
449     MOVL     @#CTLSAL_IPASTVEC[R2],R0 ; Get IPAST address
450     BEQL     10$                       ; No longer in use
451     MOVL     R0,4(SP)                  ; Fixup AST delivery address
452 10$:     MOVL     R5,R0                 ; Transfer address of packet
453     BRW     EXE$DEANONPAGED           ; 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$DEANONPAGED      ; IF NO SUCH PROCESS
494     MOVZWL  #SS$NONEXPR,R0       ; SET ERROR STATUS CODE
495     BRB     QEXIT                ; AND EXIT
496
497 MPH$QAST::
498 SCH$QAST::
499     MOVZWL  ACB$$_PID(R5),R0      ; GET PROCESS INDEX FOR AST TARGET
500     DSBINT  #IPL$_SYNCH          ; DISABLE SYSTEM EVENTS
501     MOVL    @W^SCH$$_PCBVEC[R0],R4 ; LOOK UP PCB ADDRESS
502     CMLP   ACB$$_PID(R5),PCB$$_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$$_ASTQFL(R4) ; ASSUME QUEUE IS EMPTY AND ATTEMPT INSERT
506     BNEQ   50$                   ; BR IF IT WAS NOT EMPTY
507     TSTB   ACB$$_RMOD(R5)        ; CHECK FOR SPECIAL KERNEL AST
508     BLSS   10$                   ; BR IF YES
509     BICB3  #^C<3>,ACB$$_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

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```
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**

**2**

RSE

- REPORT SYSTEM EVENT

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```
1 .TITLE RSE - REPORT SYSTEM EVENT
2 .IDENT 'V03-000'
3
4 ;
5 ;*****
6 ;*
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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  
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139 .PSECT AES1,BYTE

```

141 .SBITL 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$RSE:: ; REPORT SYSTEM EVENT
185 MOVZBL @(SP),R3 ; GET EVENT NUMBER
186 INCL (SP) ; UPDATE RETURN ADDRESS
187 MOVZWL PCB$_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
  
```

```

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 EVT$_COLPGA==EVT$_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          >,EVENTE        ; 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 CEFEVT: ;  
259 BLBC PCB$SL_STS(R4),EVENTE ; BR IF NOT RESIDENT  
260 LEFEVT: ; LOCAL EVENT FLAG SET FOR RESIDENT PRO  
261 MOVL PCB$SL_PHD(R4),R3 ; POINT TO PHD  
262 ADDL #4,PHD$SL_PC(R3) ; SKIP PC OVER CHMK INSTRUCTION  
263 MOVZWL #SS$NORMAL,PHD$SL_RO(R3); SET NORMAL COMPLETION FOR WAIT  
264 ;  
265 ; EVENT EXECUTABLE ACTION ROUTINE  
266 ;  
267  
268 EVENTE: ; EVENT EXECUTABLE STATE CHANGE  
269 EVENTF: ; ACTIVATE WITH NO WAIT TIME ACCOUNTING  
270 PUSHAB B^SCH$CHSE ; MAKE UNWAIT EXIT THROUGH CHSE  
271 ; BRB SCH$UNWAIT ; 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_WQHDR[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 MWAIT ; 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_COMO>
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$SCHSE::                                ;CHANGE TO EXECUTABLE STATE
397     CLRL    R0                                ; CLEAR HIGH SUM BITS FOR ADDB
398     SUBB3   B_PINC[R2],PCB$B_PRI(R4),R0 ; ADD PRIORITY INCR
399     CMPB    R0,PCB$B_PRI(R4)                ; CHECK FOR > CURRENT PRI
400     BLEQ    10$                               ; NO
401     MOVB    PCB$B_PRI(R4),R0                ; KEEP CURRENT PRIORITY INSTEAD
    
```

```

402 10$:      CMPB      R0,#16          ; CHECK FOR RESULT >15
403      BGEQ      SCH$SCHSEP        ; YES, USE COMPUTED VALUE
404      MOVB      PCB$B_Prib(R4),R0  ; KEEP AT BASE IF LESS
405
406 ;
407 ;      SCH$SCHSEP - SUB-ENTRY POINT WITH PRIORITY PRECOMPUTED IN R0
408 ;
409
410 SCH$SCHSEP::      ; ENTRY WITH PRIO IN R0
411      MFPR      #PR$_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  SWPD - SWAP OUT SIMPLE NON-EXECUTABLE
442 ;
443 ;  SWPD - SWAP OUT ACTION ROUTINE FOR SIMPLE NON-EXECUTABLE STATES
444 ;
445 SWPD:
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$L_WQBL+WQH$C_LENGTH(R0) ; REMOVE FROM WAIT QUEUE
450     INCW     WQH$W_WQCNT+WQH$C_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$B_PRI(R4),R0 ; GET PRIORITY
457     BRW     SCH$CHSEP           ; 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 BBCC #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$SWPWAKE ; AND FORCE SWAP SCHEDULE
495 ;
496 ;
497 ; CHECK FOR CPU TIME LIMIT EXPIRATION
498 ;
499 TSTL PHD$S_CPULIM(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 MOVB PCB$B_PRI(R4),PCB$B_PRI(R4) ; YES, FORCE TO BASE PRIORITY
508 BSBW SCH$SWPWAKE ; AND WAKE SWAPPER
509 47$: SOFTINT #IPL$_SCHED ; TRIGGER RESCHEDULING INT
510 50$: 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

```

```

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$$_EXTRACPU,R0                ; COMPUTE TOTAL AMOUNT OF EXTRA TIME
527       ADDL2   R0,PHD$$_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$$_EXCPUTIM,R3                  ; PASS EXIT STATUS TO SENDAST
532 SCH$FORCEEXIT::
533       BSBW    SENDAST                            ; SEND AST TO PROCESS
534 ;
535 ;   CPU TIME EXPIRATION AST HANDLER
536 ;
537 CPUABRT:.WORD      0                            ; NULL ENTRY MASK
538       CHMK    S^#ASTEXIT                          ; EXIT FROM AST ROUTINE (CLEAR AST)
539 10$:   $EXIT_S 4(AP)                              ; EXIT TO INVOKE EXIT HANDLERS
540       BRB     10$                                ; JUST IN CASE
541
542 ;
543 ;   Adjust working set size automatically to achieve desired tradeoff
544 ;   between page fault rate and working set size.  There are two page
545 ;   fault rate thresholds: SCH$$_PFRATL, the lower threshold and
546 ;   SCH$$_PFRATH, the higher threshold.  Each time SCH$QEND is invoked,
547 ;   the page fault rate is computed and compared with these thresholds.
548 ;   If it is above the high threshold the working set size is increased
549 ;   by SCH$GW_$$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 W$EXTENT 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$$_AWSTIME                    ; IS THIS A MEANINGFUL INTERVAL?
568       BLSS    NOADJUST                            ; NO, TRY AGAIN LATER
569       SUBL3   PHD$$_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

```

```

573      MULL      #1000,R1          ; MULTIPLY BY SCALE FACTOR
574      DIVL      R0,R1            ; AND COMPUTE PAGEFLTS/10SEC
575      MOVL      R1,PHD$L_PFLTRATE(R5) ; SAVE CURRENT RATE
576      Cmpl      R1,W^SCH$GL_PFRATH ; ARE WE ABOVE HIGH THRESHOLD?
577      BGEQ      ADJUSTUP          ; YES,
578      MNEGL     W^SCH$GL_WSDEC,R3 ; NO, GET DECREMENT VALUE
579      Cmpl      R1,W^SCH$GL_PFRATL ; ARE WE BELOW LOW THRESHOLD?
580      BGEQ      NOADJUST          ; NO, IN DEAD BAND -- NOTHING TO DO
581      Cmpw      PCB$W_PPGCNT(R4),W^SCH$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$:      Cmpw      R0,R1          ; ARE WE AT MAXIMUM SIZE?
595      BGTRU     NOADJUST            ; YES, CAN'T GO ANY LARGER
596      SUBW     PCB$W_GPGCNT(R4),R0 ; DETERMINE IF WS IS FULL
597      SUBW     PCB$W_PPGCNT(R4),R0 ; BY SUBTRACTING CURRENT PHYSICAL SIZE
598      BGTRU     NOADJUST            ; BR SPACE LEFT
599      BLSSU     WSERR              ; BRANCH IF WS SMALLER THAN PAGES IN US
600 ADJUST:   MOVAB   PHD$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,PCB$L_PID(R4) ; VERIFY PID
685 BNEQ 30$ ; REPORT ERROR
686 BBSS #PCB$V_WAKEPEN,PCB$L_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 INSWAP CANDIDATES?
719     CMLP    W^SCH$GL_MFYCNT,W^SCH$GL_MFYLM ; ARE THERE MODIFIED PAGES TO W
720     BGEQ    10$                      ; YES, MUST WAKE SWAPPER THEN
721     CMLP    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$GL_PFATIM          ; WAS THERE A POWER FAIL RECOVERY?
726     BEQL    20$                      ; 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$GL_SWPPID,R1       ; GET PID OF SWAPPER
731     BSB    SCH$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**

```

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2 .IDENT 'V03-001'
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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_PRI8(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),#PRS_PCBB ;SET PCB BASE PHYS ADDR
97     LDPCTX                               ;RESTORE CONTEXT
98     REI                               ;NORMAL RETURN
99

```

```
100 SCHEDULE: ;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 SCHSSCHED ;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



```
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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 EXESSUSPND - SUSPEND SYSTEM SERVICE
79 ;++
80 ; EXESSUSPND - SUSPEND SYSTEM SERVICE
81 ;
82 ; FUNCTIONAL DESCRIPTION:
83 ; EXESSUSPND 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,EXESSUSPND
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 ; SSS_NORMAL - NORMAL SUCCESSFUL COMPLETION
111 ; SSS_NOPRIV - INSUFFICIENT PRIVILEGE FOR REQUESTED OPERATION
112 ; SSS_NONEXPR - NON-EXISTENT PROCESS
113 ; SSS_ACCVIO - ACCESS VIOLATION ON WRITE DESTINATION
114 ; SSS_INSMEM - INSUFFICIENT DYNAMIC MEMORY FOR REQUEST
115 ; ( ONLY RETURNED IF NO RESOURCE WAIT ENABLE )
116 ;
117 ; SIDE EFFECTS:
118 ; NONE
119 ;
120 ;--
121
122 EXESSUSPND:: ; SUSPEND SYSTEM SERVICE
123 .WORD ^M<R2,R3,R4,R5> ; REGISTER SAVE MASK FOR R2-R5
124 BSBW EXESNAMPID ; TRANSLATE AND VERIFY ARGS
125 SETIPL #0 ; ENABLE
126 PUSHL R1 ; SAVE PID
127 BLBC R0,20$ ; CONTINUE IF NO ERROR
128 BBSSI #PCBSV_SUSPEN,PCBSL_STS(R4),10$ ; EXIT IF ALREADY SUSPENDED
129 BSBW EXESALLOCI ; 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,ACBSL_KAST(R5) ; SET FOR KERNEL AST OM PROCESS
133 MOVB #^X80,ACBSB_RMOD(R5) ; SET ACCESS MODE FOR AST
134 MOVL (SP)+,ACBSL_PID(R5) ; SET PID FOR AST

```

SYSCTRL

PROCESS CONTROL SERVICES

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Page 4

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





```

224      .SBTTL  EX$HIBER - HIBERNATE SYSTEM SERVICE
225 ;++
226 ;   EX$HIBER - HIBERNATE SYSTEM SERVICE
227 ;
228 ; FUNCTIONAL DESCRIPTION:
229 ;   EX$HIBER IMPLEMENTS THE HIBERNATE SYSTEM SERVICE WHICH
230 ;   PLACES THE PROCESS IN A WAIT STATE, HIB , UNTIL IT
231 ;   IS RE-AWAKENED BY A WAKE SYSTEM SERVICE.  ASTS MAY BE DELIVERED
232 ;   WHILE THE PROCESS IS IN A HIBERNATE STATE.
233 ;
234 ;
235 ;
236 ; CALLING SEQUENCE:
237 ;   CALLG  ARGLIST,EX$HIBER
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 EX$HIBER::          ; HIBERNATE SYSTEM SERVICE
265     .WORD  ^M<R2,R3,R4>          ; REGISTER SAVE MASK FOR R2-R4
266     SETIPL #IPLs_SYNCH          ;;; BLOCK SCHEDULING EVENTS
267     BBCCI  #PCBSV_WAKEPEN,PCBSL_STS(R4),10$ ;;; CHECK FOR PENDING WAKE
268     BRB   EXITN                 ;;; AND RETURN TO CALLER
269
270 10$:
271     MOVAL  W^SCH$GQ_HIBWQ,R2    ;;; MUST HIBERNATE
272     BRW   SCH$WAIT              ;;; SET ADDRESS OF WAIT QUEUE HDR
                                   ;;; 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$L_STS OF TARGET PROCESS WILL BE
303 ;   SET IF PROCESS IS NOT HIBERNATING.
304 ;
305 ; COMPLETION CODES:
306 ;   SSS_NORMAL - NORMAL SUCCESSFUL COMPLETION
307 ;   SSS_NONEXPR - NON-EXISTENT PROCESS
308 ;   SSS_NOPRIV - NO PRIVILEGE FOR ATTEMPTED OPERATION
309 ;   SSS_ACCVIO - ACCESS VIOLATION ON WRITE DESTINATION
310 ;
311 ; SIDE EFFECTS:
312 ;   THE TARGET PROCESS WILL BE CHANGED TO AN EXECUTABLE STATE,
313 ;   COM OR COMO, IF IT IS IN A HIBERNATE STATE AND
314 ;   RESCHEDULING WILL BE INITIATED IF NECESSARY.
315 ;
316 ;--
317 EXESWAKE::          ; WAKE SYSTEM SERVICE
318     .WORD    ^M<R2,R3,R4>      ; SAVE MASK FOR R2-R4
319     BSBW     EXES$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$WAKE        ;;; WAKE PROCESS BY PID
327 EXITN:             ; EXIT HIBERNATE SERVICE
328     MOVZWL   #SS$_NORMAL,R0  ; SET NORMAL COMPLETION
329 EXIT:              ; RETURN WITH R0 SET
330     SETIPL   #0              ; ENABLE

```





```

335      .SBTTL  EXE$NAMPID - CONVERT PROCESS NAME TO PID
336 ;++
337 ;   EXE$NAMPID  -   CONVERT PROCESS NAME TO PID
338 ;
339 ; FUNCTIONAL DESCRIPTION:
340 ;   EXE$NAMPID OBTAINS THE PROPER PID AND PCB ADDRESS FOR A
341 ;   STANDARD PROCESS CONTROL SERVICE ARGUMENT LIST CONSISTING
342 ;   OF A PID/PROCESS-NAME PAIR.  THE ABSENCE OF BOTH SELECTS THE
343 ;   CURRENT PROCESS.  AFTER ANY NECESSARY NAME TRANSLATION AND
344 ;   PID VALIDATION, GROUP AND WORLD PROCESS CONTROL PRIVILEGES
345 ;   ARE CHECKED.
346 ;
347 ;
348 ; CALLING SEQUENCE:
349 ;   JSB/BSB EXE$NAMPID
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$_SYNCH (IPL UNCHANGED IF SSS$_ACCVIO OR SSS$_IVLOGNAM)
367 ;
368 ; COMPLETION CODES:
369 ;   SSS$_NORMAL - NORMAL SUCCESSFUL COMPLETION
370 ;   SSS$_IVLOGNAM - INVALID LOGICAL NAME STRING
371 ;   SSS$_NONEXPR - NONEXISTENT PROCESS OR INVALID PID
372 ;   SSS$_NOPRIV - NO PRIVILEGE FOR SPECIFIED OPERATION.
373 ;   SSS$_ACCVIO - ACCESS VIOLATION FOR WRITE DESTINATION
374 ;
375 ; SIDE EFFECTS:
376 ;   NONE
377 ;
378 ;--
379 EXE$NAMPID::                                ; TRANSLATE PNAME TO PID
380     MOVL    PID(AP),R0                        ; GET PID ADDRESS
381     BEQL    10$                               ; NO PID ADDRESS
382     IFNOWRT #4,(R0),ACCVIO                    ; ERROR IF ACCESS VIOLATION
383     MOVL    (R0),R1                          ; NOW FETCH PID
384     BNEQ    GOTPID                            ; YES,
385 10$:     MOVL    PCB$L_PID(R4),R1             ; ASSUME CALLERS PID
386     MOVL    PRCNAM(AP),R3                    ; GET PNAME ADDRESS IF SPECIFIED
387     BNEQ    20$                               ; WAS SPECIFIED
388     BRW     RETN                              ; NONE SPECIFIED, RETURN
389 20$:     ; MUST LOOK UP PROCESS NAME
390     IFNORD  #8,(R3),ACCVIO                    ; CHECK DESCRIPTOR FOR READABILITY
391     MOVQ    (R3),R2                          ; 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$_ACCVIO,R0    ; SET ERROR CODE
416     RSB      ; AND EXIT
417
418 IVLNAM:                ; INVALID NAME
419     MOVZWL    #SS$_IVLOGNAM,R0  ; SET ERROR CODE
420     RSB      ; AND RETURN
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     CMPL     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     CMPL     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      ; AND RETURN TO CALLER
435 VALPID:                ; PID IS VALID, CHECK PRIV
436     CMPL     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

```

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

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Page 2

58 ;

59 ; V02-005 RIH0028 RICHARD I. HUSTVEDT 24-APR-1981

60 ; ADD CHECK FOR WAIT AT IPL 2 TO PREVENT COMPUTE LOOP WHEN

61 ; AST IS PENDING.

62 ;

64 .SBTTL DECLARATIONS

65

66 ;

67 ; INCLUDE FILES:

68 ;

69

70 \$CEBDEF

;COMMON EVENT BLOCK DEFS

71 \$DYNDEF

;DYNAMIC STRUCTURE TYPES

72 \$IPLDEF

;IPL DEFINITIONS

73 \$PCBDEF

;PCB DEFINITIONS

74 \$PHDDEF

;PHD DEFINITIONS

75 \$PRDEF

;PROCESSOR REGISTER DEFS

76 \$PSLDEF

;PSL DEFINITIONS

77 \$\$SHBDEF

;SHARED MEMORY CONTROL BLK DEFS

78 \$\$SHDDEF

;SHARED MEMORY COMMON DATA PAGE

79 \$\$\$SDEF

;STATUS CODE DEFINITIONS

80 \$\$STATEDEF

;STATE DEFINITIONS

81 \$WQHDEF

;WAIT QUEUE HEADER DEFS

82 ;

83 ; EQUATES:

84 ;

85 EFN=4

;EVENT FLAG NUMBER

86 MASK=8

;WAIT MASK

87 .PSECT AEXENONPAGED

;NON-PAGED









```

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$L_EFCS(R4)[R2],R3 ;POINTER TO PCB EVENT CLUSTER
231 MOVB R2,PCBSB_WEFC(R4) ;SAVE WAIT CLUSTER NUMBER
232 SOBGTR R2,30$ ;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$L_EFC,(R3),R2 ;GET CEB ADDRESS FOR EVENT FLAGS
240 BGEQ 20$ ;CEB ASSIGNED (SYSTEM SPACE ADDRESS)
241 CMPB #DYN$C_SLAVCEB,<CEB$B_TYPE-CEB$L_EFC>(R2) ;IS THIS IN SH MEM?
242 BNEQ 40$ ;BR IF IN LOCAL MEMORY
243 MOVL <CEB$L_MASTER-CEB$L_EFC>(R2),R3 ;GET ADR OF MASTER CEB
244 MOVL CEB$L_EFC(R3),(R2) ;COPY EFC FROM MASTER TO SLAVE CEB
245 ASSUME <CEB$L_EFC+4> EQ CEB$L_WQFL
246 40$: MOVAL (R2)+,R3 ;GET EVENT POINTER AND WAIT QUEUE ADDR
247 ; R3=CEB$L_EFC, R2=CEB$L_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

```





```
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**



```
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2      .IDENT  'V03-003'
3 ;
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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 EXESV\_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 EXESGL\_FLAGS. Set if there is  
78 ; a TBCHK processor register.  
79 ;  
80 ; V02-036 DJD0001 Darrell Duffy 29-Dec-1981  
81 ; Added IOCSGL\_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 SYSSYSDISK to SYSSYSDEVICE  
99 ; Change 16 char name EXESV\_BLKHOLBUSY to EXESV\_BLKHOLBSY  
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 LOG\$AL\_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 IOC\$GL\_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   $DYNDDEF         ; 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::
231     .LONG    0                ; VECTOR TO USER SUPPLIED CHANGE MODE
232     ; TO KERNEL HANDLER
233 EXESGL_USRCHME::
234     .LONG    0                ; VECTOR TO USER SUPPLIED CHANGE MODE
235     ; TO EXECUTIVE HANDLER
236
237 ;
238
239     .ALIGN   QUAD
240 SWISGL_FQFL::
241     .LONG    A                ; FORWARD LINK
242 SWISGL_FQBL::
243     .LONG    A                ; BACKWARD LINK
244     .LONG    2$,2$            ; IPL-7 LISTHEAD
245     .LONG    3$,3$            ; IPL-8 LISTHEAD
246     .LONG    4$,4$            ; IPL-9 LISTHEAD
247     .LONG    5$,5$            ; IPL-10 LISTHEAD
248     .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$GQ_BOOTCB_D::              ; DESCRIPTOR FOR BOOT CONTROL BLOCK
298     .BLKQ    1                    ; BYTE COUNT TU BE CHECKSUMMED
299 EXE$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 IOCSGL_PFKBINT::                ;
380     .LONG    0                    ; Fork block interlock 0 => free
381 ;
382 ;
383 ; SYSTEM AQB LISTHEAD
384 ;
385 IOCSGL_AQBLIST::
386     .LONG    0                    ; SINGLE LINK, EMPTY
387 ;
388 ; SYSTEM-WIDE MOUNTED VOLUME LIST
389 ;
390 IOCSGQ_MOUNTLST::
391     .LONG    .
392     .LONG    .-4
393 ;
394 ; TERMINAL BROADCAST MESSAGE LIST HEAD
395 ;
396 IOCSGQ_BRDCST::                  ;
397 1$: .LONG    1$,1$                ; EMPTY
398
399 ;
400 ; SINGLY LINKED LIST OF CRB'S TO SCAN FOR TIMEOUTS
401 ;
402 IOCSGL_CRBTMOUT::
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_SYSWCBBL::         ; 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 PMS$GL_KERNEL::           ; TIME IN KERNEL MODE
468     .LONG     0
469 PMS$GL_EXEC:              ; TIME IN EXECUTIVE MOVE
470     .LONG     0
471 PMS$GL_SUPER:            ; TIME IN SUPERVISOR MODE
472     .LONG     0
473 PMS$GL_USER:             ; TIME IN USER MODE
474     .LONG     0
475 PMS$GL_INTER:           ; TIME ON INTERRUPT STACK
476     .LONG     0
477 PMS$GL_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 PERMENTRY 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 PERMENTRY 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   IOCSGL_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:                  ; PERMENTRY 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$C_TQE                ; TYPE OF DATA STRUCTURE
544     ; This TQE cannot repeat.
545     .BYTE    TQESC_TMSNGL & <^CTQESM_REPEAT> ; REQUEST TYPE OF ENTRY
546     .BLKL    3                        ; THREE UNUSED LONGWORDS
547     .LONG    ^XOFFFFFFFF              ; INFINITY EXPIRATION TIME
548     .LONG    ^XOFFFFFFFF              ;
549
550
551 ;
552 ; IOC DATA BASE MUTEX
553 ;
554
555 IOC$GGL_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$GGL_CEBMTX::                       ; MUTEX FOR COMMON EVENT CLUSTER LIST
565     .WORD    -1                        ; INITIAL COUNT OF -1
566     .WORD    0                          ; ALL FLAGS CLEARED
567
568 ;
569 ; DYNAMIC PAGED MEMORY MUTEX
570 ;
571
572 EXE$GGL_PGDMYMTX::                     ; 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$GGL_GSDMTX::                       ; GLOBAL SECTION DESCRIPTOR MUTEX
580     .WORD    -1                        ; INITIAL COUNT OF -1
581     .WORD    0                          ; ALL FLAGS CLEAR
582
583 ;
584 ; SHARED MEMORY GLOBAL SECTION DESCRIPTOR TABLE MUTEX
585 ;
586
587 EXE$GGL_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$GGL_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 KFISGL_F11ACPD:: ; 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 SYSSGQ_VERSION:: ;
635     .LONG    SYSSK_VERSION
636     .ASCII  / /
637
638     .ALIGN  LONG
639
640 ;
641 ; JOB CONTROLLER DATA CELLS
642 ;
643 SYSSGW_IJOBcnt:: .WORD    0 ; CURRENT COUNT OF INTERACTIVE LOGINS
644 SYSSGW_NJOBcnt:: .WORD    0 ; CURRENT COUNT OF NETWORK LOGINS
645 SYSSGW_BJOBcnt:: .WORD    0 ; CURRENT COUNT OF BATCH LOGINS
646
647 ;
648 ; PROCESS INDEX OF NEXT PROCESS TO CHECK FOR PRIORITY BOOST
649 ;
650 EXESGW_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   $$$260,QUAD,WRT
670 EXESGL_NONPAGED::
671     .LONG    11           ; DISABLE ALL FORK INTERRUPTS
672     .LONG    0           ; ADDRESS OF FIRST FREE BLOCK
673     .LONG    0           ; NO BYTES IN BLOCK
674 EXESGL_SPLITADR::
675     .LONG    0           ; LOOKASIDE I/O PACKET LIST SPLIT ADDRE
676
677
678 ;
679 ; DYNAMIC STORAGE REGION - PAGED
680 ;
681
682     .PSECT   $$$260,QUAD,WRT
683 EXESGL_PAGED::
684     .LONG    0           ; ADDRESS OF FIRST FREE BLOCK
685     .LONG    0           ; NO BYTES IN BLOCK
686
687
688 ;
689 ; POINTER TO RMS SHARED FILE DATA BASE
690 ;
691 RMS$GL_SFDBASE::
692     .LONG    0           ; POINTER TO SHARED FILE DATA BASE
693
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                    ; (expressed as a power of two)
779 LCK$GL_TIMEOUTQ::              ; Lock timeout queue header
780     .LONG LCK$GL_TIMEOUTQ       ; (used for deadlock detection)
781     .LONG LCK$GL_TIMEOUTQ
782 LCK$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_BLKHOLWQ::              ; BLAKHOLE PAGE WAIT QUEUE LIST HEAD
823     .LONG EXE$GQ_BLKHOLWQ       ; SET FLINK
824     .LONG EXE$GQ_BLKHOLWQ       ; 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'
```

```
*****
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```
;++
; 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 TTYSCANDELTA to TTY_SCANDELTA
;           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 HPJ0048      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 PRM$M_DYNFLAGS from
;       SYSPARAM, leaving it in PARAMETER only.
;
; V02-061 JLV0142      Jake VanNoy      2-Jan-1981
;       Add to PARAMETER macro to create symbol PRM$M_DYNFLAGS.
;       Move EXE$V_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.
;

```

```

;
; V02-053 LJK0080 Lawrence J. Kenah 13-Nov-1981
; Move cell containing maximum page file index out of
; parameter area. Change name of cell containing minimum
; page file index to MMG$GW_MINPFIDX.
;
; V02-052 LJK0077 Lawrence J. Kenah 3-Nov-1981
; Set maximum values for PAGFILCNT and SWPFILCNT to 63.
; Remove SPECIAL designation from these two parameters.
;
; V02-051 JLV0105 Jake VanNoy 30-Oct-1981
; Add TTY$GW_CLASSNAM, terminal class driver name prefix.
;
; V02-050 DJD0002 Darrell Duffy 26-October-1981
; Add RJOB LIM parameter for remote terminals.
;
; V02-049 PHL0017 Peter H. Lipman 21-Sep-1981
; Add new CONCEAL_DEVICE parameter
;
; V02-048 KTA0035 Kerbey T. Altmann 14-Sep-1981
; Lower CHANCNT to 2047 due to current restriction that
; all channel indexes must have same sign.
;
; V02-047 LJK0066 Lawrence J. Kenah 11-Sep-1981
; Allow PQL parameters to be other than DYNAMIC. Make
; WSDEFAULT PQL parameters STATIC. Add checks in
; in PQL macro for text strings that are too long.
;
; V02-046 LJK0061 Lawrence J. Kenah 8-Sep-1981
; Restricted new RMS parameter names to 15 characters and their
; associated value names to 11 characters.
;
; V02-045 LMK0004 Len Kawell 02-Sep-1981
; Corrected name of RMSEXTEND.
;
; V02-044 DJD0001 Darrell Duffy 24-August-1981
; Added RMS_COMPAT and RMS_PROLOG for rms compatibility
; checking. Add RMS_EXTEND for extend quantity.
; Also add GBLPAGFIL for page file backing store global
; page limit.
;
; V02-043 SRB0031 Steve Beckhardt 19-Aug-1981
; Modified lock manager sysgen parameters, added
; DLCKEXTRASTK parameter and modified logical name
; hash table parameters.
;
; V02-042 LJK0044 Lawrence J. Kenah 14-Aug-1981
; Change PAGFILCNT and SWPFILCNT parameters to allow
; multiple page and swap files. Eliminate obsolete
; parameters and global cells.
;
; V02-041 LJK0031 Lawrence J. Kenah 14-Aug-1981
; Complete changes for large physical memory configurations
; by adding MINPFN cell and removing temporary synonyms.
;
; V02-040 KTA0030 Kerbey T. Altmann 13-Aug-1981
; Change some spellings from KTA0028 and add new
; switch made possible by MIR0012.
;
; V02-039 MIR0012 Michael I. Rosenblum 13-Aug-1981
; 1) Changed the type word to a long word to accomidate

```

```

;
;       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$GL_MAXPFN. Change names of BLINK, FLINK, SHRCNT,
;         and WSLX from PFNSAW_name to PFNSAx_name.
;
;         Add temporary synonyms for old names so that SYSBOOT
;         and XDELTA still work.
;
; V02-030 HRJ0020      Herb Jacobs           4-May-1981
;         Added SCH$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:
;
.SQOLDEF ; DEFINE QUOTA LIST CODES
.SPRMDEF ; DEFINE PARAMETER DESCRIPTOR
.STTDEF ; DEFINE TERMINAL CHARACTERISTICS
.STT2DEF ; 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...=. .IF DF,PRMSW ; DO IF CREATING PARAMETER DESCRIPTOR
; SAVE LOC COUNTER
.PSECT $$$918,LONG ;
BAS...=. ; SET BASE FOR THIS DESCRIPTOR
.BLKB PRM$C_LENGTH ; GENERATE SPACE
SAV...=. ;
PRM L_ADDR ;
.LONG ADDRESS ;
PRM L_DEFAULT ;
.LONG DEFAULT ;
PRM L_MIN ;
.LONG MIN ;
PRM L_MAX ;
.LONG MAX ;
.IF GREATER <%LENGTH(NAME)-PRM$C_MAXNAMLEN>
.ERROR ; The parameter called NAME has too many characters
.ENDC
PRM T_NAME ;
.ASCIC %'NAME'% ;
.IF GREATER <%LENGTH(UNIT)-PRM$C_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$C_'SIZE          ;
.IFF                                           ;
.BYTE    1                    ;
PRM      B_POS                ;
.BYTE    BIT                  ;
.ENDC                                         ;
PRM      L_FLAGS              ;
TYP...=0                               ;
.IRP     TYPNAM,<TYPE>        ;
TYP...=TYP...!PRM$_'TYPNAM ;

.IF NB BIT                ; DEFINE PRM$_DYNFLAGS
.IF EQ PRM$_'TYPNAM-PRM$_DYNAMIC
.IF IDN ADDRESS,EXESGL_DEFFLAGS
PRM$_DYNFLAGS == PRM$_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                                           ;
LABEL': ;
.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 $$$917A,PAGE ;
.ENDC ;
PQLSAV...=. ;
.=PQL$AL_MIN+<4*PQL$_'Q> ; POINT INTO MINIMUM VALUE TABLE
PARAMETER ADDRESS=PQL$GM'Q,- ;
          DEFAULT=MINIM,- ;
          NAME=PQL_M'Q,- ;
          SIZE=LONG,- ;
          TYPE=<PQL,SYSGEN,DYNAMIC_FLAG>,- ;
          UNIT=UNT ;
.IF NDF,PRMSW ;
.PSECT $$$917,PAGE ;
.IFF ;
.PSECT $$$917A,PAGE ;
.ENDC ;
PQLSAV...=. ;
.=PQL$AB_FLAG+PQL$_'Q ; POINT INTO FLAG BYTE FOR QUOTA
.BYTE FLAG ; AND FILL IN FLAG
.=PQLSAV... ; RESTORE LOCATION COUNTER
.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
PRMSM_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

```



;  
; 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=SGNSGL_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=SGNSGL_GBLPAGFIL,-      ;
                DEFAULT=1024,-                ;
                MIN=128,-                      ;
                NAME=GBLPAGFIL,-                ;
                SIZE=LONG,-                    ;
                TYPE=<SYS>,-                    ;
                UNIT=Pages
```

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

```
PARAMETER      ADDRESS=SGNSGW_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=SGNSGW_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=SGNSGW_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=INTSTKPAGES,- ;
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 ti
;
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,- ;

```



```

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$GL_EXTRACPU,- ;
                DEFAULT=1000,-        ; 10 Seconds
                MIN=0,-              ;
                NAME=EXTRACPU,-       ;
                SIZE=LONG,-          ;
                TYPE=<SYS,DYNAMIC>,-  ;
                UNIT=10Ms             ;
;
; Maximum group code for system UIC
;
PARAMETER      ADDRESS=EXE$GL_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=IOCSGW_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=IOCSGW_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_MBXNUMMSG,-      ;
                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=SCSS$GW_CDTCNT,-
                        DEFAULT=18,-
                        MIN=2,-
                        MAX=32767,-
                        NAME=SCSCONNCNT,-
                        SIZE=WORD,-
                        TYPE=<SYSGEN,SCS>,-
                        UNIT=Entries
;
; SCS allocation counts - Response Descriptor Table entries
;
    PARAMETER          ADDRESS=SCSS$GW_RDTCNT,-
                        DEFAULT=20,-
                        MIN=0,-
                        MAX=32767,-
                        NAME=SCSRESPCNT,-
                        SIZE=WORD,-
                        TYPE=<SYSGEN,SCS>,-
                        UNIT=Entries
;
; SCS maximum datagram size
;
    PARAMETER          ADDRESS=SCSS$GW_MAXDG,-
                        DEFAULT=576,-
                        MIN=28,-
                        MAX=985,-
                        NAME=SCSMAXDG,-
                        SIZE=WORD,-
                        TYPE=<SYSGEN,SCS>,-
                        UNIT=Bytes
;
; SCS maximum sequenced message size
;
    PARAMETER          ADDRESS=SCSS$GW_MAXMSG,-
                        DEFAULT=96,-
                        MIN=52,-
                        MAX=985,-
                        NAME=SCSMAXMSG,-
                        SIZE=WORD,-
                        TYPE=<SYSGEN,SCS>,-
                        UNIT=Bytes
;
; SCS flow control cushion
;
    PARAMETER          ADDRESS=SCSS$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=SCSS$GB_PANPOLL,-
                DEFAULT=16,-
                MIN=1,-
                MAX=244,-
                NAME=PANUMPOLL,-
                SIZE=BYTE,-
                TYPE=<SPECIAL>,-
                UNIT=Ports
;
; CI port - time between poll initiates
;

PARAMETER      ADDRESS=SCSS$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=SCSS$GW_PAPOOLIN,-
                DEFAULT=15,-
                MIN=2,-
                MAX=32767,-
                NAME=PAPOOLINTERVAL,-
                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=SGNS$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=SCSS$GB_UDABURSI,-
                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 ;
EXE$GL_DEFFLAGS:: ;
.ENDC ;
.LONG <1@EXE$V_SYSPAGING>- ; ENABLE SYSTEM CODE PAGING
      !<1@EXE$V_POOLPAGING>- ; ENABLE SYSTEM POOL PAGING
      !<1@EXE$V_SBIERR>- ; SBI ERROR DETECTION
      !<1@EXE$V_BUGREBOOT>- ; AUTOMATIC REBOOT ON BUGCHECK
      !<1@EXE$V_CRDENABL>- ; ENABLE CRD ERROR DETECTION
      !<1@EXE$V_BUGDUMP>- ; SYSTEM DUMP ON BUGCHECK
      !<1@EXE$V_CONCEALED>- ; ENABLE USE OF CONCEALED DEVICES
      !<1@EXE$V_JOBQUEUES>- ; Enable job controller queues
```

!<1@EXESV\_SHRF11ACP> ; SHARE F11ACP

BUGCHECK REBOOT - ENABLES AUTOMATIC REBOOT ON BUGCHECK

```
.LIST ME
.NLIST CND
PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;
          DEFAULT=1,- ;
          MAX=1,- ;
          MIN=0,- ;
          NAME=BUGREBOOT,-;
          BIT=EXESV_BUGREBOOT,- ;
          TYPE=<DYNAMIC,SYS>,- ;
          UNIT=Boolean
```

```
.NLIST ME
.LIST CND
```

CRD ERROR ENABLE - ENABLES DETECTION AND LOGGING OF MEMORY CRD ERRORS

```
PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;
          DEFAULT=1,- ;
          MAX=1,- ;
          MIN=0,- ;
          NAME=CRDENABLE,-;
          BIT=EXESV_CRDENABL,-;
          TYPE=<SYS,SYSGEN>,-;
          UNIT=Boolean
```

BUGCHECK DUMP ENABLE - ENABLE SYSTEM DUMP ON BUGCHECK

```
PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;
          DEFAULT=1,- ;
          MAX=1,- ;
          MIN=0,- ;
          NAME=DUMPBUG,- ;
          BIT=EXESV_BUGDUMP,- ;
          TYPE=<SYS>,-
          UNIT=Boolean
```

FATAL BUGCHECK - TURNS ALL CONTINUABLE BUGCHECKS INTO FATAL BUGCHECKS

```
PARAMETER ADDRESS=EXESGL_DEFFLAGS,- ;
          DEFAULT=0,- ;
          MAX=1,- ;
          MIN=0,- ;
          NAME=BUGCHECKFATAL,-;
          BIT=EXESV_FATAL_BUG,- ;
          TYPE=<SYS,DYNAMIC>,-;
          UNIT=Boolean
```

MULTIPLE ACP - SPECIFIES THAT SEPARATE ACPS ARE TO BE CREATED FOR EACH CLASS OF DISK.

```
PARAMETER ADDRESS=EXESGL_DEFFLAGS,-;
          DEFAULT=1,- ;
          MAX=1,- ;
          MIN=0,- ;
          NAME=ACP_MULTIPLE,- ;
          BIT=EXESV_MULTACP,- ;
          TYPE=<ACP,DYNAMIC>,- ;
          UNIT=Boolean
```



;  
;  
;       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\_POOLPGING,-        ;  
                  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,-        ;

```

        DEFAULT=0,-      ;
        MAX=1,-          ;
        MIN=0,-          ;
        NAME=SETTIME,-   ;
        BIT=EXESV_SETTIME,-      ;
        TYPE=<SYS,SYSGEN>,-;
        UNIT=Boolean
;
;
;
ENABLE SHARING OF F11ACP
;
PARAMETER      ADDRESS=EXESGL_DEFFLAGS,-      ;
                DEFAULT=1,-                    ;
                MAX=1,-                        ;
                MIN=0,-                        ;
                NAME=ACP_SHARE,-              ;
                BIT=EXESV_SHRF11ACP,-         ;
                TYPE=<ACP>,-                  ;
                UNIT=Boolean
;
;
;
ENABLE PAGING OF SYSTEM CODE
;
PARAMETER      ADDRESS=EXESGL_DEFFLAGS,-;
                DEFAULT=1,-                    ;
                MAX=1,-                        ;
                MIN=0,-                        ;
                NAME=SYSPAGING,-              ;
                BIT=EXESV_SYSPAGING,-         ;
                TYPE=<SPECIAL>,-              ;
                UNIT=Boolean
;
;
;
SELECT ALTERNATE AUTHORIZATION FILE - CAUSES SYSINIT TO MAKE A LOGICAL
;
;
;
NAME REDIRECTING SYSUAF TO SYSUAFALT.
;
PARAMETER      ADDRESS=EXESGL_DEFFLAGS,-      ;
                DEFAULT=0,-                    ;
                MAX=1,-                        ;
                MIN=0,-                        ;
                NAME=UAFALTERNATE,-           ;
                BIT=EXESV_SYSUAFALT,-         ;
                TYPE=<SYS,SYSGEN>,-           ;
                UNIT=Boolean
;
;
;
LEAVE SYSTEM WRITABLE - FOR DEBUGGING PURPOSES LEAVES SYSTEM CODE
;
;
;
WRITABLE.
PARAMETER      ADDRESS=EXESGL_DEFFLAGS,-      ;
                DEFAULT=0,-                    ;
                MAX=1,-                        ;
                MIN=0,-                        ;
                NAME=WRITABLESYS,-            ;
                BIT=EXESV_SYSWRTABL,-         ;
                TYPE=<SPECIAL>,-              ;
                UNIT=Boolean
;
;
;
Enable resource allocation checking
;
;
;
PARAMETER      ADDRESS=EXESGL_DEFFLAGS,-      ;
                DEFAULT=0,-                    ;
                MAX=1,-                        ;
                MIN=0,-                        ;

```

```
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_SCDELTA,-    ;
                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 AT
          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$GB_RSPEED,- ; THE RECEIVE SPEED FOR A TERMINAL
          DEFAULT=0,- ; USE THE DEFAULT SPEED
          MIN=0,- ;
          MAX=16,- ;
          NAME=TTY_RSPEED,- ;
          SIZE=BYTE,- ;
          TYPE=<TTY>,- ;
          UNIT=Special ; TT$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$GL_DEFCHAR2,-;
DEFAULT=TT$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$GW_ALTALARM,-;
DEFAULT=64,-; ASSUME WORST CASE
MIN=0,-
NAME=TTY_ALTALARM,-
SIZE=WORD,-
TYPE=<TTY>,-
UNIT=Bytes
;
; DMA size
;
PARAMETER      ADDRESS=TTY$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=SYSS\$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=SYSS\$GB\_DFMBSDK,- ;

```

        DEFAULT=0,-          ;
        MIN=0,-             ;
        MAX=127,-          ;
        NAME=RMS_DFMBFSKD,- ;
        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=ACPsGB_BASEPRIO,-      ;
                DEFAULT=8,-      ;
                MIN=4,-      ;
                MAX=31,-      ;
                NAME=ACP_BASEPRIO,-      ;
                SIZE=BYTE,-      ;
                TYPE=<ACP,DYNAMIC>,-      ;
                UNIT=Priority
;
; ACP Swap flags
;
PARAMETER      ADDRESS=ACPsGB_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
$VIELD   ACP,0,<-
                <SWAPSYS>-      ; /SYSTEM
                <SWAPGRP>-      ; /GROUP
                <SWAPPRV>-      ; other (private mount)
                <SWAPMAG>-      ; magtape
                >
.ENDC
;
.ALIGN   LONG
.PAGE
.SBTTL   Job Controller Parameters
;
; Maximum number of print symbionts
;
PARAMETER      ADDRESS=SYs$GB_MXPRTSYM,-      ;
                DEFAULT=3,-      ;
                MIN=1,-      ;
                MAX=32,-      ;
                NAME=MAXPRINTSYMB,-      ;
                SIZE=BYTE,-      ;
                TYPE=<JBC,DYNAMIC>,-      ;
                UNIT=Processes
;
; Default Priority for Job Initiations
;
PARAMETER      SYs$GB_DEFPRI,-      ;
                DEFAULT=4,-      ;
                MIN=1,-      ;
                MAX=31,-      ;
                NAME=DEFPRI,-      ;
                SIZE=BYTE,-      ;
                TYPE=<SYS,JBC,DYNAMIC>,-      ;
                UNIT=Priority
;
; Limit for interactive Jobs
;
PARAMETER      ADDRESS=SYs$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_EMPTPTE ; 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 STACKS
.LONG  SWP$A_KSTK         ; SWAPPER STACK (ADJACENT TO NULL STACK)
DEFINE EXE$GL_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 Synopsis |
+-----+

```

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	3080	└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
IOCIPOST	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	284	└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 B11ss-32 V3-713
LIBVAX_INST	V03-000	4096	└DRA7:[SYS.OBJ]SDA.OLB;1	26-APR-1982 23:47	VAX-11 B11ss-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
SYSCANEVT	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
SYSCREDEL	V03-001	1871	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:21	VAX-11 Macro V03-00
SYSCREPRC	V03-001	1462	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:22	VAX-11 Macro V03-00
SYSCRMPCSC	V03-001	2892	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:23	VAX-11 Macro V03-00
SYSVRTIM	V03-001	1100	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:25	VAX-11 Macro V03-00
SYSDASSGN	V03-000	272	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:25	VAX-11 Macro V03-00
SYSDCLCMH	V03-000	67	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:26	VAX-11 Macro V03-00
SYSDCLEXH	V03-000	116	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:26	VAX-11 Macro V03-00
SYSDELPRC	V03-001	1163	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:27	VAX-11 Macro V03-00
SYSDERLMB	V03-000	58	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:28	VAX-11 Macro V03-00
SYSDEVALC	V03-001	454	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:28	VAX-11 Macro V03-00
SYSDBGLSC	V03-001	936	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:29	VAX-11 Macro V03-00
SYSNGDEQ	V03-002	2549	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:30	VAX-11 Macro V03-00
SYSSEVTSRV	V03-000	159	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:31	VAX-11 Macro V03-00
SYSEXIT	V03-000	116	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:32	VAX-11 Macro V03-00
SYSFAO	V03-000	921	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:32	VAX-11 Macro V03-00
SYSFORCEX	V03-000	69	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:33	VAX-11 Macro V03-00
SYSGETDEV	V03-000	1210	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:33	VAX-11 Macro V03-00
SYSGETMSG	V03-004	814	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:34	VAX-11 Macro V03-00
SYSGETJPI	V03-005	1882	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:35	VAX-11 Macro V03-00
SYSGETPTI	V03-000	218	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:36	VAX-11 Macro V03-00
SYSGETSYI	V03-006	327	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:37	VAX-11 Macro V03-00
SYSGETTIM	V03-001	45	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:37	VAX-11 Macro V03-00
SYSIMGACT	V03-006	5934	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:37	VAX-11 Macro V03-00
SYSIMGSTA	V03-000	439	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:40	VAX-11 Macro V03-00
SYSLKWSET	V03-001	675	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:40	VAX-11 Macro V03-00
SYSLOGNAM	V03-000	485	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 02:41	VAX-11 Macro V03-00
SYSMAILBX	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
M0DRIVER	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
XDBSTRNG	V03-000	496	└DRA7:[SYSOBJ]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
MDAT└END	V03-000	108	└DRA7:[SYS.OBJ]SYS.OLB;1	27-APR-1982 01:39	VAX-11 Macro V03-00
SYSQIODEF	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
SYSRPRDEF	V03-000	0	└DRA7:[SYSLIB]STARLET.OLB;2	27-APR-1982 01:55	VAX-11 Macro V03-00
RMSGLOBAL	V03-001	0	└DRA7:[SYSLIB]STARLET.OLB;2	26-APR-1982 22:23	VAX-11 Macro V03-00
SYSRSDDEF	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

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! Image Section Synopsis !  
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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 -----
SS\$000	CMOD\$SDSP	80000000	800007FF	00000800 ( 2048.)	QUAD 3	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80000000	800007FF	00000800 ( 2048.)	QUAD 3	
SS\$000ENDVEC	MDAT	80000800	80000800	00000000 ( 0.)	PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80000800	80000800	00000000 ( 0.)	PAGE 9	
SS\$000PMS	PMSDAT	80000800	8000094B	0000014C ( 332.)	PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80000800	8000094B	0000014C ( 332.)	PAGE 9	
SS\$000_STACKS	PDAT	80000950	80000C4F	00000300 ( 768.)	QUAD 3	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80000950	80000C4F	00000300 ( 768.)	QUAD 3	
SS\$025	BUGCHECK	80000C50	80000C57	00000008 ( 8.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80000C50	80000C57	00000008 ( 8.)	BYTE 0	
SS\$100	DEVICEDAT	80000C58	80001273	0000061C ( 1564.)	QUAD 3	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80000C58	80001273	0000061C ( 1564.)	QUAD 3	
SS\$105_PROLOGUE	MBDRIVER	80001274	8000131E	0000004B ( 171.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	NLDRIVER	80001274	800012AC	00000039 ( 57.)	BYTE 0	
	CONINTDSP	800012AD	800012E5	00000039 ( 57.)	BYTE 0	
		800012E6	8000131E	00000039 ( 57.)	BYTE 0	
SS\$110_BEGDRIVE	MDAT	80001320	80001320	00000000 ( 0.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80001320	80001320	00000000 ( 0.)	LONG 2	
SS\$115_DRIVER	DRINTHAND	80001320	80001DD4	00000A85 ( 2741.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	MBAINTDSP	80001320	8000133C	0000001D ( 29.)	BYTE 0	
	MBDRIVER	8000133D	800013E4	000000A8 ( 168.)	BYTE 0	
	NLDRIVER	800013E8	800017EE	00000407 ( 1031.)	LONG 2	
	CONINTDSP	800017F0	8000184F	00000060 ( 96.)	LONG 2	
	MAHANDLER	80001850	80001AB5	00000266 ( 614.)	LONG 2	
		80001AB6	80001DD4	0000031F ( 799.)	BYTE 0	
SS\$120_ENDDRIVE	MDAT	80001DD8	80001DD8	00000000 ( 0.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80001DD8	80001DD8	00000000 ( 0.)	LONG 2	
SS\$210	ALLOCPFN	80001DD8	80001E73	0000009C ( 156.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	PAGEFAULT	80001DD8	80001E1F	00000048 ( 72.)	LONG 2	
	WRTMFYPAG	80001E20	80001E5F	00000040 ( 64.)	LONG 2	
	SYSIMGACT	80001E60	80001E6B	0000000C ( 12.)	LONG 2	
	SYSLKWSET	80001E6C	80001E6F	00000004 ( 4.)	LONG 2	
		80001E70	80001E73	00000004 ( 4.)	LONG 2	
SS\$215	SYSSETPFM	80001E74	80001E7F	0000000C ( 12.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80001E74	80001E7F	0000000C ( 12.)	LONG 2	
SS\$220		80001E80	80002183	00000334 ( 820.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC

Psect 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	8000218D	0000002E (	46.)	LONG 2
	POWERFAIL	80002190	80002197	00000008 (	8.)	LONG 2
	SWAPPER	80002198	800021B3	0000001C (	28.)	LONG 2
SSS222	MDAT	800021B4	800021D3	00000020 (	32.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		800021B4	800021D3	00000020 (	32.)	LONG 2
SSS230	PDAT	800021D8	800026AF	000004D8 (	1240.)	QUAD 3 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		800021D8	800026AF	000004D8 (	1240.)	QUAD 3
SSS250	CONINTDSP	800026B0	800026EB	0000003C (	60.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		800026B0	800026EB	0000003C (	60.)	LONG 2
SSS260	SYSCOMMON	800026F0	80002DA3	000006B4 (	1716.)	QUAD 3 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	ERRORLOG	800026F0	8000298F	000002A0 (	672.)	QUAD 3
		80002990	80002DA3	00000414 (	1044.)	QUAD 3
SSS270NP	PMSDAT	80002DA4	80002E84	000000E1 (	225.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80002DA4	80002E84	000000E1 (	225.)	LONG 2
SSS500	SYSLOAVEC	80002E88	80002FAF	00000128 (	296.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	SCSVEC	80002E88	80002F1C	00000095 (	149.)	LONG 2
		80002F20	80002FAF	00000090 (	144.)	LONG 2
SSS890_PATCH_NONPGD_DATA	MDAT	80002FB0	800031AF	00000200 (	512.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80002FB0	800031AF	00000200 (	512.)	LONG 2
SSS900	MDAT	80003200	80003200	00000000 (	0.)	PAGE 9 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80003200	80003200	00000000 (	0.)	PAGE 9
SSS917	SYSPARAM	80003200	80003533	00000334 (	820.)	PAGE 9 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80003200	80003533	00000334 (	820.)	PAGE 9
SSS999	MDAT	80003600	80003600	00000000 (	0.)	PAGE 9 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80003600	80003600	00000000 (	0.)	PAGE 9
SAAEXENONPAGED	POWERFAIL	80003600	80003890	00000291 (	657.)	PAGE 9 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80003600	80003890	00000291 (	657.)	PAGE 9
SAEXENONPAGED	BUGCHECK	80003894	80005007	00001774 (	6004.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	IOPERFORM	80003894	80003A26	00000193 (	403.)	BYTE 0
	CONSOLIO	80003A27	80003B73	0000014D (	333.)	BYTE 0
	ERRORLOG	80003B74	80003B83	00000010 (	16.)	BYTE 0
	EXCEPTION	80003B84	80003C42	0000008F (	191.)	LONG 2
	INIT	80003C44	80003E67	00000224 (	548.)	LONG 2
	IOGIOPOST	80003E68	80003E6E	00000007 (	7.)	LONG 2
	POWERFAIL	80003E70	8000448F	00000650 (	1616.)	LONG 2
	SWAPPER	800044C0	8000452F	00000070 (	112.)	LONG 2
		80004530	80005007	00000AD8 (	2776.)	BYTE 0

Psect Name	Module Name	Base	End	Length	Align	Attributes
-----	-----	----	---	-----	----	-----
SMMGSCOD	PAGEFAULT	80005008	80005BEA	00000BE3 (	3043.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80005008	80005BEA	00000BE3 (	3043.)	LONG 2
SMMGCOD	ALLOCPFN	80005BE8	80007861	00001C77 (	7287.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	IOLOCK	80005BE8	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
	SYSGIMGACT	80006E76	80006F2F	000000BA (	186.)	BYTE 0
	SYSLKWSET	80006F30	80006FE3	000000B4 (	180.)	BYTE 0
	SYSPURGWS	80006FE4	800071D7	000001F4 (	500.)	BYTE 0
	SYSETPRT	800071D8	8000729F	000000C8 (	200.)	BYTE 0
	SYSUPDSEC	800072A0	800073B0	00000111 (	273.)	BYTE 0
	SMMGSDRTN	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	80007805	00000098 (	152.)	BYTE 0
FILEREAD		80007806	80007806	00000000 (	0.)	BYTE 0
FILERWIO		80007806	80007806	00000000 (	0.)	BYTE 0
FORKCNTRL		80007806	80007806	00000000 (	0.)	BYTE 0
GLOBALS		80007806	80007806	00000000 (	0.)	BYTE 0
IMGACTSUB		80007806	80007806	00000000 (	0.)	BYTE 0
INIT		80007806	80007806	00000000 (	0.)	BYTE 0
INITVEC		80007806	80007806	00000000 (	0.)	BYTE 0
RELOCDRV		80007806	80007806	00000000 (	0.)	BYTE 0
IOCIPOST		80007806	80007806	00000000 (	0.)	BYTE 0
IOLOCK		80007806	80007806	00000000 (	0.)	BYTE 0
IOSUBNPAG		80007806	80007806	00000000 (	0.)	BYTE 0
IOSUBPAGD		80007806	80007806	00000000 (	0.)	BYTE 0
IOSUBRAMS		80007806	80007806	00000000 (	0.)	BYTE 0
LOADMREG		80007806	80007806	00000000 (	0.)	BYTE 0
LOGNAMSUB		80007806	80007806	00000000 (	0.)	BYTE 0
MEMORYALC		80007806	80007806	00000000 (	0.)	BYTE 0
MOUNTVER		80007806	80007806	00000000 (	0.)	BYTE 0
IPCONTROL		80007806	80007806	00000000 (	0.)	BYTE 0
MUTEX		80007806	80007806	00000000 (	0.)	BYTE 0
NULLPROC		80007806	80007807	00000002 (	2.)	BYTE 0
OSWPSCHED		80007808	80007808	00000000 (	0.)	BYTE 0
PAGEFAULT		80007808	80007808	00000000 (	0.)	BYTE 0
PAGEFILE		80007808	80007808	00000000 (	0.)	BYTE 0
PHOUTL		80007808	80007808	00000000 (	0.)	BYTE 0
POSTEF		80007808	80007808	00000000 (	0.)	BYTE 0
POWERFAIL		80007808	80007808	00000000 (	0.)	BYTE 0
PROCSTRT		80007808	80007808	00000000 (	0.)	BYTE 0
RMSRESET		80007808	80007808	00000000 (	0.)	BYTE 0
RSE		80007808	80007808	00000000 (	0.)	BYTE 0
SCHED		80007808	80007808	00000000 (	0.)	BYTE 0
SVAPTE		80007808	80007808	00000000 (	0.)	BYTE 0
SWAPPER		80007808	80007808	00000000 (	0.)	BYTE 0
SYSPARAM		80007808	80007808	00000000 (	0.)	BYTE 0
TIME\$CHDL		80007808	80007808	00000000 (	0.)	BYTE 0
WRTMFYPAG		80007808	80007808	00000000 (	0.)	BYTE 0
XDELTA		80007808	80007808	00000000 (	0.)	BYTE 0
SYSADJWSL		80007808	80007808	00000000 (	0.)	BYTE 0
SYSADJSTK		80007808	80007808	00000000 (	0.)	BYTE 0
SYSACPFDT		80007808	80007EE1	000003DA (	986.)	BYTE 0
SYSASCEFC		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
SYSCANCEL		80007F00	8000802E	0000012F (	303.)	BYTE 0
SYSCANEVT		8000802F	8000806B	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 .		80007A6E	80008A2B	00000FBE (	4030.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	SYSCRMPSC	8000809D	8000809D	00000000 (	0.)	BYTE 0
	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
	SYSDERLMB	800081AD	800081E6	0000003A (	50.)	BYTE 0
	SYSDEVALC	800081E7	800081E7	00000000 (	0.)	BYTE 0
	SYSDBGLSC	800081E7	800081E7	00000000 (	0.)	BYTE 0
	SYSENGDEQ	800081E7	800081E7	00000000 (	0.)	BYTE 0
	SYSEVTSRV	800081E7	800081E7	00000000 (	0.)	BYTE 0
	SYSEXIT	800081E7	800081E7	00000000 (	0.)	BYTE 0
	SYSFAO	800081E7	800081E7	00000000 (	0.)	BYTE 0
	SYSFORCEX	800081E7	80008228	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
	SYSLKXSET	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
	SYSSETPMOD	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
	SHMCSDRTN	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 .	NLDRIVER	80007A6E	80008A28	00000FBE (	4030.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	MTFDT	80008A0B	80008A0B	00000000 (	0.)	BYTE 0
	CONINTDSP	80008A2C	80008A2C	00000000 (	33.)	BYTE 0
	COMDRVSUB	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	MAHANDLER	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	XDSTRING	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
	SYSSIODEF	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	LIBMSGDEF	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	SYSSPRDEF	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	RMSGGLOBAL	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	SYSSSDDEF	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
	SYSSP1_VECTOR	80008A2C	80008A2C	00000000 (	0.)	BYTE 0
ASEXENONPAGED	ASTDEL	80008A2C	80008F9C	00000571 (	1393.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	FORKCNTRL	80008A2C	80008CC0	00000295 (	661.)	LONG 2
	TIMESCHDL	80008CC4	80008D3F	0000007C (	124.)	LONG 2
		80008D40	80008F9C	0000025D (	605.)	LONG 2
AES1	RSE	80008F9D	8000925A	000002BE (	702.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		80008F9D	8000925A	000002BE (	702.)	BYTE 0
AES2	RSE	8000925B	80009286	0000002C (	44.)	BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		8000925B	80009286	0000002C (	44.)	BYTE 0
AEXENONPAGED	SHELL	80009288	8000A32A	000010A3 (	4259.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	EXSUBROUT	80009288	8000928B	00000004 (	4.)	BYTE 0
	MEMORYALC	8000928C	8000936D	000000E2 (	226.)	BYTE 0
	MUTEX	8000936E	800097C0	00000453 (	1107.)	BYTE 0
	POSTEF	800097C1	800098DC	0000011C (	284.)	BYTE 0
	PROCSTRT	800098DD	80009A3F	00000163 (	355.)	BYTE 0
	SCHED	80009A40	80009A50	00000011 (	17.)	BYTE 0
	SYASCEFC	80009A54	80009ACA	00000077 (	119.)	LONG 2
	SYSBRDCST	80009ACB	80009B17	0000004D (	77.)	BYTE 0
	SYDELPRC	80009B18	80009EFB	000003E4 (	996.)	BYTE 0
	SYSEVTSRV	80009EFC	80009F49	0000004E (	78.)	BYTE 0
	SYSGETJPI	80009F4A	80009FE8	0000009F (	159.)	BYTE 0
	SYSPCNTRL	80009FE9	80009FEF	00000007 (	7.)	BYTE 0
	SYSSETPFM	80009FF0	8000A1BC	000001CD (	461.)	BYTE 0
	SYSWAIT	8000A1C0	8000A246	00000087 (	135.)	LONG 2
		8000A247	8000A32A	000000E4 (	228.)	BYTE 0
LOCKMGR	DEADLOCK	8000A32C	8000AC96	0000096B (	2411.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	SYSENQDEQ	8000A32C	8000A53F	00000214 (	532.)	BYTE 0
		8000A540	8000AC96	00000757 (	1879.)	LONG 2
WIONONPAGED	BUFFERCTL	8000AC98	8000C2A9	00001612 (	5650.)	LONG 2 NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
	ERRORLOG	8000AC98	8000AD18	00000081 (	129.)	BYTE 0
		8000AD19	8000AFF4	000002DC (	732.)	BYTE 0

Psect Name	Module Name	Base	End	Length	Align	Attributes	EXE	RD	WRT	NOVEC
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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		8000CF09	8000CF20	00000028 (	40.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD,	WRT,NOVEC
	CMODSSDSP	8000CF09	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	8000DC1B	0000027A (	634.)	BYTE 0				

Psect Name	Module Name	Base	End	Length	Align	Attributes
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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	0000004FC (	1276.)	BYTE 0
	SYSASSIGN	8000E2A3	8000E4E3	00000241 (	577.)	BYTE 0
	SYSASTCON	8000E4E4	8000E543	00000060 (	96.)	BYTE 0
	SYSCREDEL	8000E544	8000E913	000003D0 (	976.)	BYTE 0
	SYSCREPRC	8000E914	8000EEC9	000005B6 (	1462.)	BYTE 0
	SYSRCMPSC	8000EECA	8000EED3	0000000A (	10.)	BYTE 0
	SYSCVRTIM	8000EED4	8000F31F	00000044C (	1100.)	BYTE 0
	SYSDCLCMH	8000F320	8000F362	000000043 (	67.)	BYTE 0
	SYSDCLEXH	8000F363	8000F3D6	000000074 (	116.)	BYTE 0
	SYSDELPRC	8000F3D7	8000F813	0000043D (	1085.)	BYTE 0
	SYSDEVALC	8000F814	8000F991	00000017E (	382.)	BYTE 0
	SYSDGBLSC	8000F992	8000FCA5	000002C9 (	713.)	BYTE 0
	SYSFAO	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
	SYSSENDMSG	80010D47	80010FAB	00000265 (	613.)	BYTE 0
	SYSUPDSEC	80010FAC	8001111D	00000172 (	370.)	BYTE 0
	SHMGSDRTN	8001111E	80011979	0000085C (	2140.)	BYTE 0
YSLOWUSE	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	0000000E (	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				
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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	80013BF1	0000095A (	2394.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD,	WRT,NOVEC
	PROCSTR	80013298	800134F6	0000025F (	607.)	BYTE 0				
	OPENMSG	800134F7	800139BF	000004C9 (	1225.)	BYTE 0				
		800139C0	80013BF1	00000232 (	562.)	BYTE 0				
YFSSSPATCH_PAGED_CODE	MDAT	80013BF4	80013FF3	00000400 (	1024.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD,	WRT,NOVEC
		80013BF4	80013FF3	00000400 (	1024.)	LONG 2				
YFSSSYSRMP8C	SYSRMP8C	80013FF4	80014B35	00000B42 (	2882.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD,	WRT,NOVEC
		80013FF4	80014B35	00000B42 (	2882.)	BYTE 0				
YFSSSYSGETJPI	SYSGETJPI	80014B36	80015283	0000074E (	1870.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD,	WRT,NOVEC
		80014B36	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 (	588.)	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	80016FBB	000000D3 (	211.)	BYTE 0				
	FILERWIO	80016FBC	80017836	00000878 (	2171.)	BYTE 0				
	SYSIMGACT	80017837	80017867	00000031 (	49.)	BYTE 0				
		80017868	800179F3	0000018C (	396.)	BYTE 0				
YYSHELLPAGED	SHELL	80017A00	800189FF	00001000 (	4096.)	PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR,	EXE,	RD,	WRT,NOVEC
		80017A00	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				

Object Name	Module Name	Base	End	Length	Align	Attributes
Z\$DEBUG_CODE		800188F0	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	
	ALLOC\$FN	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	RELOC\$DRV	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_\$SYSE\$END	MDAT_END	8001EA00	8001EA00	00000000 (	0.) PAGE 9	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC
		8001EA00	8001EA00	00000000 (	0.) PAGE 9	

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 | Symbol Cross Reference |  
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Symbol	Value	Defined By	Referenced By ...
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ACP\$ACCESS	00007B0B-R	SYSACPFDT	
ACP\$ACCESSNET	00007B10-R	SYSACPFDT	
ACP\$DEACCESS	00007B3C-R	SYSACPFDT	
ACP\$GB_BASEPRIO	00003434-R	SYSPARAM	
ACP\$GB_DATACHK	00003433-R	SYSPARAM	
ACP\$GB_MAXREAD	00003430-R	SYSPARAM	
ACP\$GB_SWAPFLGS	00003435-R	SYSPARAM	
ACP\$GB_WINDOW	00003431-R	SYSPARAM	
ACP\$GB_WRITBACK	00003432-R	SYSPARAM	
ACP\$GW_DIRCACHE	00003422-R	SYSPARAM	
ACP\$GW_EXTCACHE	00003420-R	SYSPARAM	
ACP\$GW_EXTLIMIT	0000342A-R	SYSPARAM	
ACP\$GW_FIDCACHE	00003426-R	SYSPARAM	
ACP\$GW_HDRCACHE	00003420-R	SYSPARAM	
ACP\$GW_MAPCACHE	0000341E-R	SYSPARAM	
ACP\$GW_QUOCACHE	0000342C-R	SYSPARAM	
ACP\$GW_SYSACC	0000342E-R	SYSPARAM	
ACP\$GW_WORKSET	00003424-R	SYSPARAM	
ACP\$MODIFY	00007B91-R	SYSACPFDT	
ACP\$MOUNT	00007B99-R	SYSACPFDT	
ACP\$READBLK	00007BB9-R	SYSACPFDT	
ACP\$V_READCHK	00000000	SYSPARAM	
ACP\$V_SWAPGRP	00000001	SYSPARAM	
ACP\$V_SWAPMAG	00000003	SYSPARAM	
ACP\$V_SWAPPRV	00000002	SYSPARAM	
ACP\$V_SWAPSYS	00000000	SYSPARAM	
ACP\$V_WRITECHK	00000001	SYSPARAM	
ACP\$WRITEBLK	00007BE8-R	SYSACPFDT	
ATS_UBA	00000001	SYS\$IODEF	CONINTDSP POWERFAIL
			MBDRIVER
			NLDRIVER
BOO\$A_BOOPARAM	0001C07C-R	BOOPARAM	
BOO\$C_BOOPARSZ	00000060	BOOPARAM	
BOO\$C_SYSPARSZ	00000334	SYSPARAM	
BOO\$GB_SYSTEMID	0001C0CA-R	BOOPARAM	INIT
BOO\$GL_BOOTCB	0001C0BC-R	BOOPARAM	INIT
BOO\$GL_DSKDRV	0001C07C-R	BOOPARAM	INIT
BOO\$GL_IRPCNT	0001C098-R	BOOPARAM	
BOO\$GL_LRPCNT	0001C0A8-R	BOOPARAM	
BOO\$GL_LRPMIN	0001C0A0-R	BOOPARAM	INIT
BOO\$GL_LRPSIZE	0001C09C-R	BOOPARAM	INIT
BOO\$GL_LRPSPLIT	0001C0A4-R	BOOPARAM	INIT
BOO\$GL_NPAGEDYN	0001C090-R	BOOPARAM	INIT
BOO\$GL_PRTDRV	0001C0D0-R	BOOPARAM	INIT
BOO\$GL_SCSLOA	0001C0D8-R	BOOPARAM	INIT
BOO\$GL_SPLITADR	0001C094-R	BOOPARAM	INIT
BOO\$GL_SPTFREL	000034D0-R	SYSPARAM	INIT
BOO\$GL_SPTFREL	000034CC-R	SYSPARAM	INIT
BOO\$GL_SRPCNT	0001C0B0-R	BOOPARAM	
BOO\$GL_SRPSPLIT	0001C0AC-R	BOOPARAM	INIT
			IOSUBNPAG
			IOSUBNPAG

Symbol	Value	Defined By	Referenced By ...
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BOOSGL└SYSLOA	8001C080-R	BOOPARAM	INIT
BOOSGL└TRMDRV	8001C084-R	BOOPARAM	INIT
BOOSGL└UCODE	8001C0D4-R	BOOPARAM	INIT
BOOSGQ└FILCACHE	8001C084-R	BOOPARAM	INIT
BOOSGQ└INILOA	8001C088-R	BOOPARAM	INIT
BOOSGT└TOPSYS	8001C0C0-R	BOOPARAM	INIT
BUGSA└PAGED	8001C200-R	BUGCHECK	
BUGSA└PAGEDEND	8001E9C8-R	BUGCHECK	
BUGSFATAL	80007A6E-R	BUGCHECK	
BUGST└MESSAGES	8001C7CC-R	BUGCHKMSG	BUGCHECK
BUGS└ACPM0FAIL	00000008	BUGCHKMSG	
BUGS└ACPRECURS	000004B8	BUGCHKMSG	
BUGS└ACPUNSTAK	000004C0	BUGCHKMSG	
BUGS└ACPVAFAIL	00000010	BUGCHKMSG	
BUGS└ALCPHD	00000018	BUGCHKMSG	PHDUTL
BUGS└ALCSMBCLR	00000020	BUGCHKMSG	
BUGS└APTREFHIGH	00000028	BUGCHKMSG	SWAPPER
BUGS└APTWRTRERR	00000030	BUGCHKMSG	SWAPPER
BUGS└ASYNCRWRTER	00000038	BUGCHKMSG	
BUGS└BADALORQSZ	00000040	BUGCHKMSG	MEMORYALC
BUGS└BADBOOTCB	000000F0	BUGCHKMSG	SYSSETIME
BUGS└BADBUFADR	00000048	BUGCHKMSG	
BUGS└BADBUFTYP	00000050	BUGCHKMSG	
BUGS└BADALRQSZ	00000058	BUGCHKMSG	COMDRVSUB
BUGS└BADFID	00000060	BUGCHKMSG	MEMORYALC
BUGS└BADFORKIPL	00000068	BUGCHKMSG	
BUGS└BADLCKWBLE	00000070	BUGCHKMSG	PAGEFAULT
BUGS└BADMCKCOD	00000078	BUGCHKMSG	
BUGS└BADPAGFILA	00000080	BUGCHKMSG	PAGEFILE
BUGS└BADPAGFILD	00000088	BUGCHKMSG	PAGEFILE
BUGS└BADPAGTYPE	00000090	BUGCHKMSG	WRTMFYPAG
BUGS└BADQHDR	00000478	BUGCHKMSG	MAHANDLER
BUGS└BADRSEIPL	00000098	BUGCHKMSG	RSE
BUGS└BADRVNWC8	000004C8	BUGCHKMSG	
BUGS└BADSBMBLK	000000A0	BUGCHKMSG	
BUGS└BADSWPVBN	000000A8	BUGCHKMSG	WRTMFYPAG
BUGS└BADWCBPT	000000B0	BUGCHKMSG	
BUGS└BDPPURGERR	00000488	BUGCHKMSG	
BUGS└BRDMSGLOST	000004A0	BUGCHKMSG	SYSBRDCST
BUGS└CEBREFNEG	00000498	BUGCHKMSG	SYSASCEFC
BUGS└CHMONIS	000000B8	BUGCHKMSG	POWERFAIL
BUGS└CHMVEC	000004F0	BUGCHKMSG	POWERFAIL
BUGS└CIPORT	000005E8	BUGCHKMSG	
BUGS└CONTRACT	000000C0	BUGCHKMSG	SYSREDEL
BUGS└DBLERR	000000C8	BUGCHKMSG	POWERFAIL
BUGS└DECPREF	000000D0	BUGCHKMSG	PAGEFAULT
BUGS└DELCONPFN	000000D8	BUGCHKMSG	ALLOCPFN
BUGS└DELGBLSEC	000000E0	BUGCHKMSG	SYSDBGLSC
BUGS└DELGBLWCB	000000E8	BUGCHKMSG	
BUGS└DELWBLEX	000000F8	BUGCHKMSG	PAGEFAULT
BUGS└DEQSUBLCK8	00000508	BUGCHKMSG	DEADLOCK
BUGS└DIRENTRY	00000100	BUGCHKMSG	SYSENQDEQ

Symbol	Value	Defined By	Referenced By ...
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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	ALLOCPFN
BUGS_FREWSLX	00000140	BUGCHKMSG	PAGEFAULT
BUGS_GBLPAGSZRO	00000148	BUGCHKMSG	SWAPPER
BUGS_GBLWSLXERR	00000150	BUGCHKMSG	SYSLKWSSET
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_INCPTREF	000001A0	BUGCHKMSG	PAGEFAULT
BUGS_INSNFREPAG	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_INVTGFMT	000001D8	BUGCHKMSG	TIMESCHDL
BUGS_IVBAKADIO	000001E0	BUGCHKMSG	PAGEFAULT
BUGS_IVGBLTYP	000001E8	BUGCHKMSG	SYSCREDEL
BUGS_IVLISTK	000001F0	BUGCHKMSG	POWERFAIL
BUGS_IVSSRVRSQT	000001F8	BUGCHKMSG	SYSDCLCMH
BUGS_IVWSETLIST	00000200	BUGCHKMSG	SWAPPER
BUGS_KRNLSAKNV	00000208	BUGCHKMSG	EXCEPTION
BUGS_LKBGRANTED	000005B0	BUGCHKMSG	DEADLOCK
BUGS_LKBREFNEG	00000510	BUGCHKMSG	SYSENGDEQ
BUGS_MACHINECHK	00000210	BUGCHKMSG	
BUGS_MAKEWSLE	00000218	BUGCHKMSG	PAGEFAULT
BUGS_MAPCNTZER	000004E0	BUGCHKMSG	
BUGS_MBACBHUNG	000004A8	BUGCHKMSG	MBAINTDSP
BUGS_MFYNULPGFL	00000228	BUGCHKMSG	PAGEFAULT
BUGS_MODRELNBAK	00000220	BUGCHKMSG	WRTMFYPAG
BUGS_MPASYNCRWT	00000548	BUGCHKMSG	
BUGS_MPBADMCK	00000538	BUGCHKMSG	
BUGS_MPCHMNIS	00000588	BUGCHKMSG	
BUGS_MPCHMVEC	00000590	BUGCHKMSG	
BUGS_MPDBLERR	00000560	BUGCHKMSG	
BUGS_MPERRHALT	00000580	BUGCHKMSG	

Symbol	Value	Defined By	Referenced By ...
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BUGS_MPHALT	00000568	BUGCHKMSG	
BUGS_MPILLVEC	00000570	BUGCHKMSG	
BUGS_MPIVLISTK	00000558	BUGCHKMSG	
BUGS_MPKNLISTKNV	000005A0	BUGCHKMSG	
BUGS_MPMCHECK	00000540	BUGCHKMSG	
BUGS_MPNOUSRWCS	00000578	BUGCHKMSG	
BUGS_MPSCORDERR	00000598	BUGCHKMSG	
BUGS_MPUNXPINT	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_NOACPCHAN	00000268	BUGCHKMSG	
BUGS_NOACPMAIL	00000270	BUGCHKMSG	
BUGS_NOAQBACP	00000278	BUGCHKMSG	
BUGS_NOBUFPCKT	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_NOTFCBWCB	000002B8	BUGCHKMSG	
BUGS_NOTFCPWCB	000002C0	BUGCHKMSG	IOCIOPST
BUGS_NOTIRPAGB	000002C8	BUGCHKMSG	
BUGS_NOTLKB	000005B8	BUGCHKMSG	DEADLOCK
BUGS_NOTMTLMTL	000002D0	BUGCHKMSG	
BUGS_NOTPCB	000002D8	BUGCHKMSG	MUTEX
BUGS_NOTRYTVCB	000002E0	BUGCHKMSG	
BUGS_NOTUCBIRP	000002E8	BUGCHKMSG	
BUGS_NOTUCBRVT	000002F0	BUGCHKMSG	
BUGS_NOTUCBUCB	000002F8	BUGCHKMSG	
BUGS_NOTUCBWCB	000004E8	BUGCHKMSG	
BUGS_NOTVCBUCB	00000300	BUGCHKMSG	
BUGS_NOTVVPVCB	00000308	BUGCHKMSG	
BUGS_NOTWCBIRP	00000310	BUGCHKMSG	
BUGS_NOTWCBWCB	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_PAGNTRVAL	00000338	BUGCHKMSG	ALLOCPFN
BUGS_PFNLISTCNT	00000340	BUGCHKMSG	ALLOCPFN
BUGS_PFNREFNZRO	00000348	BUGCHKMSG	ALLOCPFN
BUGS_PGFGBLBAD	00000350	BUGCHKMSG	PAGEFAULT

Symbol	Value	Defined By	Referenced By ...
BUGS_PGFIPLHI	00000358	BUGCHKMSG	PAGEFAULT
BUGS_PGFLOCBAD	00000360	BUGCHKMSG	PAGEFAULT
BUGS_PROCGONE	00000368	BUGCHKMSG	WRTMPYPAG
BUGS_PTELENTVIOL	00000370	BUGCHKMSG	SVAPTE
BUGS_PTRCNT	00000378	BUGCHKMSG	
BUGS_PURGWSSCN	00000380	BUGCHKMSG	SYSPURGWS
BUGS_QUEUEEMPTY	00000388	BUGCHKMSG	SCHED
BUGS_RDNONRES	00000390	BUGCHKMSG	
BUGS_REFCNTNEG	00000398	BUGCHKMSG	IOLOCK
BUGS_RM8BUG	000003A0	BUGCHKMSG	
BUGS_RSBREFNEG	00000518	BUGCHKMSG	SYSENQDEQ
BUGS_RSBREFNZRO	00000520	BUGCHKMSG	SYSENQDEQ
BUGS_SCANDADPT	000003A8	BUGCHKMSG	PAGEFAULT
BUGS_SCBRDERR	00000528	BUGCHKMSG	POWERFAIL
BUGS_SECREFNEG	000003B8	BUGCHKMSG	PHDUTL
BUGS_SHRCNTNEG	000003B8	BUGCHKMSG	IOLOCK
BUGS_SSRVEXCEPT	000003C0	BUGCHKMSG	CMODSSDSP
BUGS_STATENT8VD	00000530	BUGCHKMSG	POWERFAIL
BUGS_STRNOTWCB	000003C8	BUGCHKMSG	IOSUBRAMS
BUGS_SWAPWLE	000003D0	BUGCHKMSG	SYSLKWSET
BUGS_SYSADJWBL	000003D8	BUGCHKMSG	
BUGS_SYSTMERR	000003E0	BUGCHKMSG	
BUGS_TIPCUFLOW	000003E8	BUGCHKMSG	
BUGS_UBMAPEXCED	000003F0	BUGCHKMSG	LOADMREG
BUGS_UDAPORT	000005D8	BUGCHKMSG	
BUGS_UNABLCREVA	000003F8	BUGCHKMSG	EXCEPTION
BUGS_UNEXUBAINT	00000400	BUGCHKMSG	
BUGS_UNKNPRQ	00000480	BUGCHKMSG	MAHANDLER
BUGS_UNKRSTRT	00000408	BUGCHKMSG	POWERFAIL
BUGS_UNXINTEXC	00000410	BUGCHKMSG	ERRORLOG
BUGS_UNXSIGNAL	00000418	BUGCHKMSG	
BUGS_V8NMAPFAIL	00000420	BUGCHKMSG	
BUGS_WACKQEMPTY	00000428	BUGCHKMSG	
BUGS_WCBFCBMNG	000005C8	BUGCHKMSG	
BUGS_WRTINVBUFF	00000430	BUGCHKMSG	
BUGS_WRTINVHDR	00000438	BUGCHKMSG	
BUGS_WRTPG88AK	00000440	BUGCHKMSG	SYSUPDSEC
BUGS_WSLENOVAL	00000448	BUGCHKMSG	PAGEFAULT
BUGS_WSLPAGCNT	00000450	BUGCHKMSG	SYSPURGWS
BUGS_WSLVANVAL	00000458	BUGCHKMSG	PAGEFAULT
BUGS_WSLXVANMAT	00000460	BUGCHKMSG	SYSCREDEL
BUGS_WSSIZEERR	00000500	BUGCHKMSG	PAGEFAULT
BUGS_ZEROPAGE	00000468	BUGCHKMSG	SWAPPER
CISINITIAL	80002EFA-R	SYSLOAVEC	
CISINT	80002F00-R	SYSLOAVEC	
COM\$DELATTNAST	8000BF89-R	COMDRVSUB	MBDRIVER
COM\$DELCTRLAST	8000C0C3-R	COMDRVSUB	
COM\$DRVDEALMEM	8000C02D-R	COMDRVSUB	IOSUBNPAG
COM\$FLUSHATTNS	8000BFEC-R	COMDRVSUB	MBDRIVER
COM\$FLUSHCTRLS	8000C147-R	COMDRVSUB	
COM\$POST	8000C01F-R	COMDRVSUB	MBDRIVER
COM\$SETATTNAST	8000C056-R	COMDRVSUB	MBDRIVER
			SWAPPER
			SHMGSDRTN
			SYSDPSEC
			PROCSTRT
			RSE
			MOUNTVER

Symbol	Value	Defined By	Referenced By ...
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COM\$SETCTRL\$LAST	8000C194-R	COMDRVSUB	
CON\$DISCON	80001893-R	CONINTDSP	DEVICEDAT
CON\$INITIAL	80001850-R	CONINTDSP	DEVICEDAT
CON\$INITLINE	80001866-R	CONINTDSP	DEVICEDAT
CON\$INTDISI	80000F34-R	DEVICEDAT	
CON\$INTDISO	80000F58-R	DEVICEDAT	
CON\$INTINP	80001894-R	CONINTDSP	DEVICEDAT
CON\$INTOUT	8000191F-R	CONINTDSP	DEVICEDAT
CON\$STARTIO	800018CE-R	CONINTDSP	DEVICEDAT
CTL\$AG_CLIDATA	7FFE7C10	SHELL	
CTL\$AG_CLIMAGE	7FFE7C08	SHELL	
CTL\$AG_CMEDATA	7FFE1600	SHELL	SYSIMGACT
CTL\$AL_CLICALBK	7FFE7C00	SHELL	CMODSSDSP PROCSTRT
CTL\$AL_CMCNTX	7FFE1600	SHELL	EXCEPTION
CTL\$AL_FINAL\$EXC	7FFEFF28	SHELL	EXCEPTION SYSGETJPI SYSRUNDWN
			SYSSETEXV
CTL\$AL_IPASTVEC	7FFEFF68	SHELL	ASTDEL SYSRUNDWN
CTL\$AL_STACK	7FFEFE10	SHELL	BUGCHECK EXCEPTION SYSDELPRC
			SYSSETSTK SYSSNDMSG
CTL\$AL_STACKLIM	7FFEFE6C	SHELL	BUGCHECK EXCEPTION SYSSETSTK
CTL\$AG_EXCVEC	7FFEFE34	SHELL	EXCEPTION SYSGETJPI SYSRUNDWN
			SYSSETEXV
CTLSA_COMMON	7FFE0E00	SHELL	
CTLSA_DISPVEC	7FFEA000	SHELL	PROCSTRT SYSIMGACT SYSRUNDWN
CTLSA_PRCALLREG	7FFE2000	SHELL	
CTL\$C_CLIDATA\$Z	00000BF0	SHELL	
CTL\$C_PRCALL\$Z	0000002E	SHELL	
CTL\$GB_DEFLANG	7FFEFF51	SHELL	
CTL\$GB_MSGMASK	7FFEFF50	SHELL	PROCSTRT SYSREPRC SYSGETMSG
			SYSPUTMSG
CTL\$GB_PWRMODE	7FFEFF24	SHELL	
CTL\$GB_SSFILTER	7FFEFF25	SHELL	SYSSETPRA EXCEPTION PROCSTRT
			CMODSSDSP
CTL\$GL_CC\$BASE	7FFEFF38	SHELL	SYSSETSSF IOSUBPAGD PROCSTRT
			IOCIOPST SYSQIOREQ SYSRUNDWN
CTL\$GL_CLINTOWN	7FFE1804	SHELL	
CTL\$GL_CMCNTX	7FFEFF88	SHELL	
CTL\$GL_CMHANDLR	7FFEFE30	SHELL	EXCEPTION SYSRUNDWN
CTL\$GL_CMSUPR	7FFEFE28	SHELL	EXCEPTION SYSDELPRC
CTL\$GL_CMUSER	7FFEFE2C	SHELL	EXCEPTION SYSRUNDWN
CTL\$GL_CTLBASVA	7FFEFE7C	SHELL	PHDUTL PROCSTRT SYSIMGACT
CTL\$GL_DCLPR\$OWN	7FFE1800	SHELL	
CTL\$GL_FINAL\$STS	7FFEFEB8	SHELL	ACCOUNT SYSDELPRC SYSEXIT
CTL\$GL_FIXUPLNK	7FFE1E08	SHELL	IMGACTSUB SYSGETMSG
CTL\$GL_GETMSG	7FFEFE68	SHELL	PROCSTRT SYSGETMSG
CTL\$GL_IAPEXE	7FFE1E10	SHELL	
CTL\$GL_IAFLAST	7FFE1E04	SHELL	IMGACTSUB
CTL\$GL_IAFLINK	7FFE1E00	SHELL	PROCSTRT PROCSTRT
CTL\$GL_IAFLNKPTR	7FFEFF8C	SHELL	
CTL\$GL_IAFPERM	7FFE1E10	SHELL	
CTL\$GL_IBIOCNT	7FFEFEE8	SHELL	IMGACTSUB PROCSTRT
CTL\$GL_ICPUTIM	7FFEFED0	SHELL	ACCOUNT SYSIMGACT



Symbol	Value	Defined By	Referenced By ...
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CTLSGL_IDIOCNT	7FFEFEE4	SHELL	ACCOUNT
CTLSGL_IPFAULTIO	7FFEFED8	SHELL	ACCOUNT
CTLSGL_IPFAULTS	7FFEFED4	SHELL	ACCOUNT
CTLSGL_IMGHDRBF	7FFEFE80	SHELL	PHOUTL
CTLSGL_IPAGEFL	7FFEFEE0	SHELL	SYSCREDEL
CTLSGL_IVOLUMES	7FFEFEEC	SHELL	ACCOUNT
CTLSGL_IWSPEAK	7FFEFEDC	SHELL	ACCOUNT
			SYSDJWBL
CTLSGL_KNOWNFIL	7FFEFF64	SHELL	
CTLSGL_KSPINI	7FFEA000	SHELL	
CTLSGL_KSTKBAS	7FFEA000	SHELL	
CTLSGL_LOGTBL	7FFEFE20	SHELL	PROCSTR
CTLSGL_P1MERGE	7FFE1E0C	SHELL	
CTLSGL_PCB	7FFEFF58	SHELL	CMODSSDSP
			EXCEPTION
			IOSUBPAGD
			SYSGHGMOD
			SYSSNDMSG
			EXCEPTION
			IOCIOP08T
			PHOUTL
			RSE
			SYSDJWBL
			SYSCREPRC
			SYSDGBLSC
			SYSGETJPI
			SYSLKWSSET
			SYSRUNDWN
			SYSSETPFM
			SYSDPSEC
CTLSGL_PHD	7FFEFE88	SHELL	ACCOUNT
			IOLOCK
			PAGEFAULT
			PROCSTR
			SYSCREDEL
			SYSDELPRC
			SYSGETJPI
			SYSGIOREQ
			SYSSETPRI
			SYSRUNDWN
			SYSGETMSG
			CMODSSDSP
			PROCSTR
			SYSDJWBL
			SYSCREPRC
			SYSDGBLSC
			SYSGETJPI
			SYSLKWSSET
			SYSRUNDWN
			SYSSETPRV
			SYSSETPRA
CTLSGL_POWERAST	7FFEFF20	SHELL	
CTLSGL_PPMMSG	7FFEFF48	SHELL	
CTLSGL_RMSBASE	7FFEFF44	SHELL	CMODSSDSP
			PROCSTR
			SYSDJWBL
CTLSGL_RMSIP	7FFEFE08	SHELL	
CTLSGL_RMSPP	7FFEFE04	SHELL	
CTLSGL_RUF	7FFEFF5C	SHELL	
CTLSGL_RUNDNPLG	7FFEFE84	SHELL	SYSDJWBL
CTLSGL_SITESPEC	7FFEFF60	SHELL	SYSGETJPI
CTLSGL_THEXEC	7FFEFE54	SHELL	SYSDCLEXH
CTLSGL_THSUPR	7FFEFE58	SHELL	SYSEXIT
CTLSGL_USRCHME	7FFEFF1C	SHELL	CMODSSDSP
CTLSGL_USRCHMK	7FFEFF18	SHELL	PROCSTR
CTLSGL_USRUNDWN	7FFEFF54	SHELL	CMODSSDSP
			PROCSTR
			SYSDELPRC
			SYSRUNDWN
CTLSGL_VECTORS	7FFEFE00	SHELL	
CTLSGL_VIRTPEAK	7FFEFEC0	SHELL	SYSCREDEL
CTLSGL_VOLUMES	7FFEFEC4	SHELL	ACCOUNT
			SYSGETJPI
			SYSDELPRC
			SYSDJWBL
CTLSGL_WSPEAK	7FFEFEB8	SHELL	ACCOUNT
			PAGEFAULT
			SYSDJWBL
CTLSGQ_ALLOCREG	7FFEFE8C	SHELL	SYSDELPRC
			SYSGETJPI
			LOGNAMSUB
			PROCSTR
CTLSGQ_COMMON	7FFEFE60	SHELL	
CTLSGQ_DBGAREA	7FFEFF3C	SHELL	
CTLSGQ_ISTART	7FFEFEC8	SHELL	ACCOUNT
CTLSGQ_LOGIN	7FFEFEB0	SHELL	ACCOUNT
			SYSGETJPI
			SYSDJWBL
CTLSGQ_MOUNTLST	7FFEFE94	SHELL	SYSDELPRC
			SYSGETDEV

Symbol	Value	Defined By	Referenced By ...	
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CTL\$GQ_PROCPRIV	7FFEFF10	SHELL	PHDUTL	PROCSTRT SYSGETJPI
			SYSTMGACT	SYSETPRV
CTL\$GW_CHINDEX	7FFEFE02	SHELL	IOSUBPAGD	SYDELPRC SYSQIOREQ
			YSRUNDWN	
CTL\$GW_NMIOCH	7FFEFE00	SHELL	IOSUBPAGD	PROCSTRT SYDELPRC
CTL\$GW_PPM\$GCHN	7FFEFF52	SHELL		
CTL\$T_ACCOUNT	7FFEFEA8	SHELL	ACCOUNT	PROCSTRT SYSCREPRC
			SYDELPRC	
CTL\$T_NODEADDR	7FFEFEF0	SHELL	ACCOUNT	
CTL\$T_NODENAME	7FFEFEF7	SHELL	ACCOUNT	
CTL\$T_REMOTEID	7FFEFEFE	SHELL	ACCOUNT	
CTL\$T_USERNAME	7FFEFE9C	SHELL	ACCOUNT	PROCSTRT SYSACPFDT
			SYSCREPRC	SYDELPRC SYSSNDMSG
DCS_DISK	00000001	SYSSIODEF	IOSUBNPAG	
DEV\$M_DMT	00200000	SYSSIODEF	SYSDASSGN	
DEV\$M_FOR	01000000	SYSSIODEF	SYSDASSGN	
DEV\$M_MBX	00100000	SYSSIODEF	SYSDASSGN	
DEV\$M_MNT	00080000	SYSSIODEF	SYSDASSGN	
DEV\$M_RCK	40000000	SYSSIODEF	SYSDASSGN	
DEV\$M_SWL	02000000	SYSSIODEF	SYSDASSGN	
DEV\$M_TRM	00000004	SYSSIODEF	SYSDASSGN	
DEV\$M_WCK	80000000	SYSSIODEF	SYSDASSGN	
DEV\$V_ALL	00000017	SYSSIODEF	SYSDASSGN	
DEV\$V_DMT	00000015	SYSSIODEF	SYSDASSGN	
DEV\$V_FOD	0000000E	SYSSIODEF	SYSASSIGN	
DEV\$V_FOR	00000018	SYSSIODEF	SYSDASSGN	SYSGETDEV
DEV\$V_MBX	00000014	SYSSIODEF	POWERFAIL	SYSASSIGN SYSDASSGN
DEV\$V_MNT	00000013	SYSSIODEF	SYSGETDEV	
DEV\$V_NET	0000000D	SYSSIODEF	SYSASSIGN	
DEV\$V_OPR	00000007	SYSSIODEF	SYSDASSGN	
DEV\$V_SHR	00000010	SYSSIODEF	SYSASSIGN	
DEV\$V_SPL	00000006	SYSSIODEF	SYSASSIGN	SYSGETDEV
DEV\$V_SQD	00000005	SYSSIODEF	IOCIOPST	
DR\$INITIAL	80001337-R	DRINTHAND		
DR\$INT	80001320-R	DRINTHAND		
DYN\$C_ACB	00000002	GLOBALS		
DYN\$C_ADP	00000001	GLOBALS		
DYN\$C_AQB	00000003	GLOBALS		
DYN\$C_ACB	00000033	GLOBALS		
DYN\$C_BOOTCB	00000006	GLOBALS		
DYN\$C_BRDCST	0000001A	GLOBALS		
DYN\$C_BUFIO	00000013	GLOBALS		
DYN\$C_CDB	00000034	GLOBALS		
DYN\$C_CDRP	0000003B	GLOBALS		
DYN\$C_CD_BBRPG	00000002	GLOBALS		
DYN\$C_CD_CDDB	00000001	GLOBALS		
DYN\$C_CEB	00000004	GLOBALS		
DYN\$C_CI	00000061	GLOBALS		
DYN\$C_CIDG	0000003E	GLOBALS		
DYN\$C_CIMSG	0000003F	GLOBALS		
DYN\$C_CI_BOT	00000001	GLOBALS		
DYN\$C_CI_FQDT	00000002	GLOBALS		

Symbol	Value	Defined By	Referenced By ...
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DYN\$C└CLASSDRV	00000064	GLOBALS	
DYN\$C└CONF	00000007	GLOBALS	
DYN\$C└CRB	00000005	GLOBALS	
DYN\$C└CXB	0000001B	GLOBALS	
DYN\$C└ODB	00000006	GLOBALS	
DYN\$C└DPT	0000001E	GLOBALS	CONINTDSP
DYN\$C└ERP	0000003D	GLOBALS	NLDRIVER
DYN\$C└EXTGSD	00000028	GLOBALS	
DYN\$C└FCB	00000007	GLOBALS	
DYN\$C└FRK	00000008	GLOBALS	
DYN\$C└GSD	00000015	GLOBALS	
DYN\$C└IOB	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	0000000B	GLOBALS	
DYN\$C└LPD	00000035	GLOBALS	
DYN\$C└MBX	0000002B	GLOBALS	
DYN\$C└MPWMAP	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	PAGEFILE
DYN\$C└PHVEC	00000002	GLOBALS	
DYN\$C└PIB	00000022	GLOBALS	
DYN\$C└POB	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	PROCSTRT
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	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
DYN\$C_SCS_DIR	00000003	GLOBALS	
DYN\$C_SCS_PB	00000004	GLOBALS	
DYN\$C_SCS_PDT	00000005	GLOBALS	
DYN\$C_SCS_RDT	00000006	GLOBALS	
DYN\$C_SCS_SB	00000007	GLOBALS	
DYN\$C_SHB	0000002A	GLOBALS	
DYN\$C_SHMCEB	0000002E	GLOBALS	
DYN\$C_SHMGSB	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_TYPAHD	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\$LOAVC	TIMESCHDL
ERL\$ALLOCEMB	8000AF0A-R	ERRORLOG	BUGCHECK 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_BUFIND	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	BUGCHECK DISMOUNT IO\$SUBNPAG
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 ...
-----	-----	-----	-----
ERL\$VEC140	80003C34-R	ERRORLOG	
ERL\$VEC144	80003C34-R	ERRORLOG	
ERL\$VEC148	80003C34-R	ERRORLOG	
ERL\$VEC152	80003C34-R	ERRORLOG	
ERL\$VEC156	80003C34-R	ERRORLOG	
ERL\$VEC16	80003C34-R	ERRORLOG	
ERL\$VEC160	80003C34-R	ERRORLOG	
ERL\$VEC164	80003C34-R	ERRORLOG	
ERL\$VEC168	80003C34-R	ERRORLOG	
ERL\$VEC172	80003C34-R	ERRORLOG	
ERL\$VEC176	80003C34-R	ERRORLOG	
ERL\$VEC180	80003C34-R	ERRORLOG	
ERL\$VEC184	80003C34-R	ERRORLOG	
ERL\$VEC188	80003C34-R	ERRORLOG	
ERL\$VEC192	80003C34-R	ERRORLOG	
ERL\$VEC196	80003C34-R	ERRORLOG	
ERL\$VEC20	80003C34-R	ERRORLOG	
ERL\$VEC200	80003C34-R	ERRORLOG	
ERL\$VEC204	80003C34-R	ERRORLOG	
ERL\$VEC208	80003C34-R	ERRORLOG	
ERL\$VEC212	80003C34-R	ERRORLOG	
ERL\$VEC216	80003C34-R	ERRORLOG	
ERL\$VEC220	80003C34-R	ERRORLOG	
ERL\$VEC224	80003C34-R	ERRORLOG	
ERL\$VEC228	80003C34-R	ERRORLOG	
ERL\$VEC232	80003C34-R	ERRORLOG	
ERL\$VEC236	80003C34-R	ERRORLOG	
ERL\$VEC24	80003C34-R	ERRORLOG	
ERL\$VEC240	80003C34-R	ERRORLOG	
ERL\$VEC244	80003C34-R	ERRORLOG	
ERL\$VEC248	80003C34-R	ERRORLOG	
ERL\$VEC252	80003C34-R	ERRORLOG	
ERL\$VEC256	80003B84-R	ERRORLOG	
ERL\$VEC260	80003B88-R	ERRORLOG	
ERL\$VEC264	80003B8C-R	ERRORLOG	
ERL\$VEC268	80003B90-R	ERRORLOG	
ERL\$VEC272	80003B94-R	ERRORLOG	
ERL\$VEC276	80003B98-R	ERRORLOG	
ERL\$VEC28	80003C34-R	ERRORLOG	
ERL\$VEC280	80003B9C-R	ERRORLOG	
ERL\$VEC284	80003BA0-R	ERRORLOG	
ERL\$VEC288	80003BA4-R	ERRORLOG	
ERL\$VEC292	80003BA8-R	ERRORLOG	
ERL\$VEC296	80003BAC-R	ERRORLOG	
ERL\$VEC300	80003BB0-R	ERRORLOG	
ERL\$VEC304	80003BB4-R	ERRORLOG	
ERL\$VEC308	80003BB8-R	ERRORLOG	
ERL\$VEC312	80003BBC-R	ERRORLOG	
ERL\$VEC316	80003BC0-R	ERRORLOG	
ERL\$VEC32	80003C34-R	ERRORLOG	
ERL\$VEC320	80003B84-R	ERRORLOG	
ERL\$VEC324	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 ...
-----	-----	-----	-----
ERL\$VEC56	80003C34-R	ERRORLOG	
ERL\$VEC60	80003C34-R	ERRORLOG	
ERL\$VEC64	80003C34-R	ERRORLOG	
ERL\$VEC68	80003C34-R	ERRORLOG	
ERL\$VEC72	80003C34-R	ERRORLOG	
ERL\$VEC76	80003C34-R	ERRORLOG	
ERL\$VEC8	80003C34-R	ERRORLOG	
ERL\$VEC80	80003C34-R	ERRORLOG	
ERL\$VEC84	80003C34-R	ERRORLOG	
ERL\$VEC88	80003C34-R	ERRORLOG	
ERL\$VEC92	80003C34-R	ERRORLOG	
ERL\$VEC96	80003C34-R	ERRORLOG	
ERL\$VEC_RETURN	80003C3C-R	ERRORLOG	
ERL\$WAKE	8000AFD4-R	ERRORLOG	TIMESCHDL
ERL\$WARMSTART	8000AEF3-R	ERRORLOG	POWERFAIL
EVT\$AST	00000000	RSE	ASTDEL
EVT\$COLPGA	00000000	RSE	IOCIPOST
EVT\$EVENT	00000001	RSE	POSTEF
EVT\$FPGA	00000004	RSE	ALLOCPFN
EVT\$PFCOM	00000007	RSE	IOCIPOST
EVT\$RESUME	00000006	RSE	SYSPCNTRL
EVT\$SETPRI	00000008	RSE	SYSSETPRI
EVT\$SWPOUT	00000009	RSE	OSWPSCHED
EVT\$WAKE	00000005	RSE	
EXE\$ABORTIO	800088FD-R	SYSQIOREQ	COMDRVSUB
			MBDRIVER
			MTFDT
EXE\$AB_HEXTAB	80003B74-R	CONSOLIO	SYSACPFDT
EXE\$ACVIOLAT	80003C44-R	EXCEPTION	SYSQIOFDT
			INIT
			PAGEFAULT
EXE\$ADJSTK	8000DD3C-R	SYSADJSTK	CMODSSDSP
EXE\$ADJWSL	8000DC5D-R	SYSADJWSL	CMODSSDSP
EXE\$ALLOC	8000F814-R	SYSDEVALC	IOLOCK
EXE\$ALLOCATE	800094C6-R	MEMORYALC	CMODSSDSP
EXE\$ALLOCBUF	8000936E-R	MEMORYALC	PROCSTRT
			SYSBRDCST
			SYSLOGNAM
			COMDRVSUB
			SYSACPFDT
			SYSBRDCST
			SYSQIOREQ
			SYSSETPFM
			SYSUPDSEC
EXE\$ALLOCCEB	80009372-R	MEMORYALC	SYSASCEFC
EXE\$ALLOCIRP	80009384-R	MEMORYALC	SWAPPER
			SYSASTCON
			SYSBRDCST
			SYSFORCEX
			SYSPCNTRL
			SYSSETPRA
			WRTMFYPAG
EXE\$ALLOCJIB	8000937B-R	MEMORYALC	SYSREPRC
EXE\$ALLOCPCB	8000938C-R	MEMORYALC	SYSREPRC
EXE\$ALLOCPCB	80009394-R	MEMORYALC	SYSREPRC
EXE\$ALLOCQEB	8000939D-R	MEMORYALC	SYSREPRC
EXE\$ALONONPAGED	8000941A-R	MEMORYALC	SYSSCHEVT
			INIT
			IOSUBNPAG
			MBDRIVER
			MOUNTVER
			PAGEFAULT
			RSE
			SHMGSDRTN
			SYSANCEL
			SYSREDEL
			SYSGETJPI
			SYSSETPFM
EXE\$ALONPAGWAIT	800093DD-R	MEMORYALC	SYSBRDCST
EXE\$ALOPAGED	8000948E-R	MEMORYALC	SYSSETPFM
			SYSIMGACT
			SYSMAILBX
			SYSLOGNAM

Symbol	Value	Defined By	Referenced By ...
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EXESALOSHARED	800095D6-R	MEMORYALC	
EXESALTOUEPKT	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	SYSCVRTIM	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	SYSUNWIND
EXESA_SYSPARAM	80003200-R	SYSPARAM	SYSSETIME
EXESBINTIM	8000EFDA-R	SYSCVRTIM	CMODSSDSP
EXESBLDPKTGBR	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
EXESBUFFERQUOTA	8000928C-R	EXSUBROUT	SYSACPFDT
EXESBUFQUOPRC	80009298-R	EXSUBROUT	
EXESBUG_CHECK	800038A9-R	BUGCHECK	EXCEPTION
EXESBUILDPKYR	800088A6-R	SYSQIOREQ	PAGEFAULT
EXESBUILDPKYH	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	PROCSTRT	
EXESCHKCREACCES	8000D404-R	EXSUBROUT	
EXESCHKDELACCES	8000D3FD-R	EXSUBROUT	
EXESCHKLOGACCES	8000D3FD-R	EXSUBROUT	SYSQIOREQ
EXESCHKPHYACCES	8000D404-R	EXSUBROUT	SYSQIOREQ
EXESCHKRDACCES	8000D408-R	EXSUBROUT	MBDRIVER
			SYSACPFDT
			SYSDEVALC
			SYSASSIGN
			SYSINGACT
EXESCHKWAIT2	800099C4-R	POSTEF	
EXESCHKWRTACCES	8000D412-R	EXSUBROUT	
			MAHANDLER
			MBDRIVER
			SYSACPFDT
			SYSACPFDT
			SYSACPFDT
EXESCLI_UTILSRV	800138B7-R	PROCSTRT	
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
EXESCMPAT	80003CBC-R	EXCEPTION	
EXESCRELOG	80010560-R	SYSLOGNAM	CMODSSDSP
EXESCREMBX	80010745-R	SYSMAILBX	CMODSSDSP
EXESCREPRC	8000E92C-R	SYSREPRC	CMODSSDSP
EXESCRTVA	8000E5AE-R	SYSREDEL	CMODSSDSP
EXESCRMPSC	8000EECA-R	SYSRMPSC	CMODSSDSP
EXESC_ALCGRNMSK	0000000F	MEMORYALC	
EXESC_CMSTKSZ	00000014	CMODSSDSP	MEMORYALC SYSEVTSRV SYSWAIT SYSCGMOD 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
EXESDCLXH	8000F395-R	SYSDCLEXH	CMODSSDSP
EXESDEALLOCATE	80009596-R	MEMORYALC	DISMOUNT INIT LOGNAMSUB
EXESDEANONPAGED	80009501-R	MEMORYALC	SYSDBGLSC ACCOUNT ASTDEL EXSUBROUT IOCIOPST MBDRIVER PAGEFAULT PROCSTRT SHMGSDRTN SWAPPER SYSDASSGN SYSDDELPRC SYSENGDEQ SYSGETJPI SYSRUNDWN SYSUPDSEC SYSSCHEVT TIMESCHDL COMDRVSUB IOSUBNPAG POSTEF SYSREPRC SYSQIOFDT SYSSETPFM WRTMFYPAG
EXESDEANONPGDSIZ	8000950D-R	MEMORYALC	
EXESDEAPAGED	8000954B-R	MEMORYALC	DISMOUNT SYSDBGLSC LOGNAMSUB SYSIMGACT SYSCMPSC SYSMAILBX
EXESDEASHARED	800095F3-R	MEMORYALC	
EXESDELLOG	800105F5-R	SYSLOGNAM	CMODSSDSP
EXESDELMBX	80010B78-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	SYSDBGLSC	CMODSSDSP
EXESDLCEFC	8000DFB7-R	SYSASCEFC	CMODSSDSP
EXESDUMPCPUREG	80002ECA-R	SYSLOAVEC	BUGCHECK
EXESDN780_INT	80002EEE-R	SYSLOAVEC	
EXESENQ	80011A32-R	SYSENGDEQ	CMODSSDSP
EXESEXCPTABLE	800121E1-R	SYSPUTMSG	PROCSTRT
EXESEXCPTION	80003D7F-R	EXCEPTION	
EXESEXCMSG	80013398-R	EXCEPTMSG	CMODSSDSP EXCEPTION PROCSTRT
EXESEXCPTN	8000CFEA-R	CMODSSDSP	SHELL

Symbol	Value	Defined By	Referenced By ...
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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	IOSUBRAMS
EXE\$FINISHIOC	8000890A-R	SYSQIOREQ	MBDRIVER
EXE\$FORCEX	800081E7-R	SYSFORCEX	CMODSSDSP
EXE\$FORK	80008CC8-R	FORKCNTRL	COMDRVSUB
			MOUNTVER
EXE\$FORKDSPTH	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_CPUDATA	800034D8-R	SYSPARAM	
EXE\$GB_CPUYPE	800034E8-R	SYSPARAM	INIT
EXE\$GETACCESS	8000D380-R	EXSUBROUT	XDELTA
EXE\$GETCHN	80010088-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	SYSENGDEQ
			TIMESCHDL
			ACCOUNT
			SYSADJWSL
			SYSRUNDWN
			INIT
EXE\$GL_BLAHOLE	80002940-R	SYSCOMMON	
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	800028D8-R	SYSCOMMON	MAHANDLER
EXE\$GL_FLAGS	800026F0-R	SYSCOMMON	
			BUGCHECK
			PAGEFILE
			INIT
			SYSIMGACT
			SYSICMPSC
EXE\$GL_GPT	800028E8-R	SYSCOMMON	
EXE\$GL_GSDDELBL	8000282C-R	SYSCOMMON	
EXE\$GL_GSDDELFL	80002828-R	SYSCOMMON	SYSDBGLSC
EXE\$GL_GSDFREBL	80002824-R	SYSCOMMON	SYSDBGLSC
EXE\$GL_GSDFREFL	80002820-R	SYSCOMMON	SYSICMPSC
EXE\$GL_GSDGRPBL	80002814-R	SYSCOMMON	
EXE\$GL_GSDGRPFL	80002810-R	SYSCOMMON	SHMGSDRTN
			SYSICMPSC

Symbol	Value	Defined By	Referenced By ...		
EXESGL_GSDMTX	800028CC-R	SYSCOMMON	PHDUTL	SYSCRMPSC	SYSDGBLSC
EXESGL_GSDSYSBL	8000281C-R	SYSCOMMON			
EXESGL_GSDSYSFL	80002818-R	SYSCOMMON			
EXESGL_INTSTK	80003478-R	SYSPARAM	INIT	SYSCREPRC	
EXESGL_INTSTKLM	80002954-R	SYSCOMMON	DEADLOCK	INIT	
EXESGL_KFIMTX	800028DC-R	SYSCOMMON	SYSIMGACT		
EXESGL_KNOWNFIL	800028E0-R	SYSCOMMON	SYSIMGACT		
EXESGL_LOCKRTRY	80003318-R	SYSPARAM	MAHANDLER	MEMORYALC	SHMGSDRTN
			SYSASCEFC	SYMAILBX	
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	INIT	MEMORYALC	
EXESGL_NUMNEXUS	800021C4-R	MDAT			
EXESGL_PAGED	80002918-R	SYSCOMMON	INIT	MEMORYALC	SWAPPER
EXESGL_PFAILTIM	80002868-R	SYSCOMMON	POWERFAIL		
EXESGL_PFATIM	8000286C-R	SYSCOMMON	POWERFAIL	RSE	SWAPPER
			SYSSETPRA		
			MEMORYALC		
EXESGL_PGDYNMTX	800028C8-R	SYSCOMMON			
EXESGL_PWRDONE	80002190-R	POWERFAIL			
EXESGL_PWRINTVL	80002194-R	POWERFAIL			
EXESGL_RPB	800034C8-R	SYSPARAM	BUGCHECK	INIT	POWERFAIL
EXESGL_RTBITMAP	80002928-R	SYSCOMMON	INIT		
EXESGL_RTIMESPT	80003320-R	SYSPARAM	INIT		
EXESGL_SAVEDUMP	80002784-R	SYSCOMMON			
EXESGL_SCB	800034D4-R	SYSPARAM	INIT	XDELTA	
EXESGL_SHBLIST	80002924-R	SYSCOMMON	MEMORYALC	SHMGSDRTN	SYASCEFC
			SYMAILBX		
			SHMGSDRTN		
			SYMAILBX		
EXESGL_SHMGSMTX	800028D0-R	SYSCOMMON			
EXESGL_SHMMRMTX	800028D4-R	SYSCOMMON			
EXESGL_SITESPEC	80002950-R	SYSCOMMON			
EXESGL_SPLITADR	80002914-R	SYSCOMMON	INIT	MEMORYALC	
EXESGL_SVAPTE	80002984-R	SYSCOMMON	INIT	MOUNTVER	
EXESGL_SYSFLAGS	8000297C-R	SYSCOMMON	MOUNTVER		
EXESGL_SYSMSG	80002900-R	SYSCOMMON	SYSGETMSG		
EXESGL_SYSUCB	80002758-R	SYSCOMMON	INIT		
EXESGL_SYSUIC	800032F8-R	SYSPARAM	EXSUBROUT		
EXESGL_SYSWCBBL	8000283C-R	SYSCOMMON			
EXESGL_SYSWCBFL	80002838-R	SYSCOMMON	SYSIMGACT		
EXESGL_TENUSEC	80002948-R	SYSCOMMON	INIT		
EXESGL_TODR	80003208-R	SYSPARAM	POWERFAIL	SYSSETIME	
EXESGL_TQFL	80002870-R	SYSCOMMON	EXSUBROUT	POWERFAIL	SYBSETIME
			TIMESCHDL		
EXESGL_USRCHME	80002700-R	SYSCOMMON	CMODSSDSP		
EXESGL_USRCHMK	800026FC-R	SYSCOMMON	CMODSSDSP		
EXESGL_USRUNDWN	80002904-R	SYSCOMMON	SYSDELPRC	SYSRUNDWN	
EXESGL_WCBDELBL	80002834-R	SYSCOMMON			
EXESGL_WCBDELFL	80002830-R	SYSCOMMON	SHMGSDRTN	SYSDGBLSC	
EXESGL_BLKHOLWQ	80002988-R	SYSCOMMON	MOUNTVER		
EXESGL_BOOTCB_D	8000277C-R	SYSCOMMON	BUGCHECK	INIT	
EXESGL_ERLMBX	800026F4-R	SYSCOMMON	SYSDERLMB	SYSRUNDWN	

Symbol	Value	Defined By	Referenced By ...
EXESGQ_SYSDISK	80013539-R	PROCSTRT	SYSCREPRC
EXESGQ_SYSTIME	80002860-R	SYSCOMMON	ACCOUNT IOPERFORM POWERFAIL SYSDELPRC SYSSCHEVT SYSWAIT POWERFAIL
EXESGQ_TODCBASE	80003200-R	SYSPARAM	BUGCHECK IOSUBNPAG PROCSTRT SYSGETTIM SYSIMGACT SYSSNDMSG
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
EXESIMGDELMSG	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 POWERFAIL
EXESINIT	8001B06C-R	INIT	
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	FORKNTRL	
EXESIORSNWAIT	8000822C-R	SYSQIOFDT	MBDRIVER
EXESIPAPBKAST	80008BC3-R	ASTDEL	
EXESIPCONTROL	8000BD70-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	SCSVEC SYSASSIGN SYSCREDEL 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	80003E40-R	EXCEPTION	
EXESMGBLSC	8000EECF-R	SYSRCMPSC	CMODSSDSP
EXESMODIFY	8000825E-R	SYSQIOFDT	
EXESMODIFYLOCK	80008296-R	SYSQIOFDT	
EXESMODIFYLOCKR	80008299-R	SYSQIOFDT	

Symbol	Value	Defined By	Referenced By ...
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EXESMOUNTVER	8000BA2D-R	MOUNTVER	IOSUBNPAG
EXESMULTIQUOTA	80009280-R	EXSUBROUT	
EXESNAMPID	8000A080-R	SYSPCNTRL	SYSCANEVT SYSGETJPI SYSDELPRC SYSSCHEVT SYSFORCEX SYSSETPRI
EXESNETSNDERL	80010EF9-R	SYSSNDMSG	
EXESNULLPROC	80007B06-R	NULLPROC	PDAT
EXESNUMTIM	8000F1FE-R	SYSCVRTIM	CMODSSDSP
EXESONEPARM	80008252-R	SYSQIOFDT	
EXESOPCCUS	80003D08-R	EXCEPTION	
EXESOPCDEC	80003D10-R	EXCEPTION	
EXESOPEN_MSG	800139E5-R	OPENMSG	EXCEPTMSG SYSPUTMSG
EXESOPRSNDERL	80010EF3-R	SYSSNDMSG	
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 INIT
EXESPAGEERR	80003D42-R	EXCEPTION	PAGEFAULT
EXESPOWERAST	80010C95-R	SYSSETPRA	SWAPPER
EXESPOWERFAIL	800044D8-R	POWERFAIL	
EXESPRCDELMSG	800169A7-R	ACCOUNT	SYSDELPRC
EXESPRCPURMSG	8001699E-R	ACCOUNT	
EXESPROBER	800092E4-R	EXSUBROUT	CMODSSDSP SYSGETMSG
EXESPROBER_DSC	8000D435-R	EXSUBROUT	SYSBRDCST SYSSNDMSG
EXESPROBEW	8000932D-R	EXSUBROUT	EXCEPTION SYSGETJPI SYSGETSYI SYSACPFDT
EXESPROBEW_DSC	8000D439-R	EXSUBROUT	SYSGETDEV
EXESPROCIMGACT	800137F3-R	PROCSTRT	
EXESPROCSTRT	80009A40-R	PROCSTRT	SHELL
EXESPURGWS	80010BA9-R	SYSPURGWS	CMODSSDSP
EXESPUTMSG	80012236-R	SYSPUTMSG	CMODSSDSP
EXESPWRTMCHK	80003882-R	POWERFAIL	
EXESQIO	80008624-R	SYSQIOREQ	CMODSSDSP
EXESQIOACPPKT	80008936-R	SYSQIOREQ	SYSACPFDT
EXESQIODRVPKT	80008920-R	SYSQIOREQ	SYSACPFDT SYSQIOFDT
EXESQIORETURN	80008950-R	SYSQIOREQ	MBDRIVER SYSACPFDT
EXESRADRMOD	80003D4C-R	EXCEPTION	
EXESREAD	80008264-R	SYSQIOFDT	
EXESREADCHK	80008324-R	SYSQIOFDT	MBDRIVER
EXESREADCHKR	80008338-R	SYSQIOFDT	
EXESREADEP	80009FA9-R	SYSEVTSRV	CMODSSDSP
EXESREADLOCK	80008290-R	SYSQIOFDT	SYSACPFDT
EXESREADLOCKR	800082A3-R	SYSQIOFDT	
EXESREFLECT	80012E8E-R	EXCEPTION	CMODSSDSP
EXESREGRESTOR	80002ED0-R	SYSLOAVEC	POWERFAIL
EXESREGSAVE	80002ED6-R	SYSLOAVEC	POWERFAIL
EXESRESTART	80003600-R	POWERFAIL	INIT
EXESRESUME	8000A046-R	SYSPCNTRL	CMODSSDSP
EXESRH780_INT	80002EF4-R	SYSLOAVEC	MBAINTDSP
EXESRMSEXM	8001396E-R	PROCSTRT	
EXESRMVTIMG	80007A95-R	EXSUBROUT	SYSCANEVT

Symbol	Value	Defined By	Referenced By ...
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EXES\$ROPRAND	80003D54-R	EXCEPTION	INIT XDELTA
EXES\$RUNDWN	80012435-R	SYSRUNDWN	CMODSSDSP
EXES\$SCHDWK	8000848B-R	SYSSCHEVT	CMODSSDSP
EXES\$ENDMSG	80010E95-R	SYSSNDMSG	ACCOUNT
EXES\$SENSEMODE	8000841B-R	SYSQIOFDT	
EXES\$SETAST	8000E4E4-R	SYSASTCON	CMODSSDSP
EXES\$SETCHAR	800083E7-R	SYSQIOFDT	
EXES\$SETEF	80009FCD-R	SYSEVTSRV	CMODSSDSP
EXES\$SETEXV	80010BE9-R	SYSSETEXV	CMODSSDSP
EXES\$SETIME	800128BF-R	SYSSETIME	CMODSSDSP
EXES\$SETIMR	800084ED-R	SYSSCHEVT	CMODSSDSP
EXES\$SETMODE	80008405-R	SYSQIOFDT	
EXES\$SETOPR	80010F45-R	SYSSNDMSG	
EXES\$SETPFM	800126CC-R	SYSSETPFM	CMODSSDSP
EXES\$SETPRA	80010C61-R	SYSSETPRA	CMODSSDSP
EXES\$SETPRI	80008989-R	SYSSETPRI	CMODSSDSP
EXES\$SETPRN	8000A14B-R	SYSPCNTRL	CMODSSDSP
EXES\$SETPRT	80010D06-R	SYSSETPRT	CMODSSDSP
EXES\$SETPRV	800128ED-R	SYSSETPRV	CMODSSDSP
EXES\$SETRWM	80010C2C-R	SYSSETMOD	CMODSSDSP
EXES\$SETSFM	80010C33-R	SYSSETMOD	CMODSSDSP
EXES\$SETSSF	800129CB-R	SYSSETSSF	CMODSSDSP
EXES\$SETSTK	800129E8-R	SYSSETSTK	CMODSSDSP
EXES\$SETSWM	80010C41-R	SYSSETMOD	CMODSSDSP
EXES\$SHM_DELETE	80009ACB-R	SYSASCEFC	
EXES\$SHUTDOWNADP	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\$SFAIL	80003D70-R	EXCEPTION	CMODSSDSP
EXES\$SUCCESS	8000D131-R	CMODSSDSP	MDAT
EXES\$SUSPND	80009FF0-R	SYSPCNTRL	CMODSSDSP
EXES\$SWAPINIT	80016850-R	SWAPPER	PDAT
EXES\$WTIMINT	80008DA0-R	TIMESCHDL	
EXE\$TBIT	80003D5C-R	EXCEPTION	INIT XDELTA
EXE\$TEST_CBR	80002EE2-R	SYSLOAVEC	POWERFAIL
EXE\$TIMEOUT	80008E69-R	TIMESCHDL	SYSCOMMON
EXE\$TRNLOG	800106D7-R	SYSLOGNAM	CMODSSDSP
EXE\$ULKPAG	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 ...
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EXESV_DISMOUMSG	00000001	SYSPARAM	
EXESV_EXPLICITP	00000014	SYSPARAM	
EXESV_EXPLICITIS	00000015	SYSPARAM	
EXESV_FATAL_BUG	0000000A	SYSPARAM	BUGCHECK
EXESV_INIT	00000008	SYSPARAM	SYSIMGACT
EXESV_JOBQUEUES	00000018	SYSPARAM	
EXESV_MOUNTMSG	00000000	SYSPARAM	
EXESV_MULTACP	0000000B	SYSPARAM	
EXESV_NOAUTOCNF	00000001	SYSPARAM	
EXESV_NOCLOCK	00000005	SYSPARAM	
EXESV_NOCLUSTER	0000000C	SYSPARAM	PAGEFAULT
EXESV_PAGFILDMP	00000019	SYSPARAM	
EXESV_PGFLCRIT	00000017	SYSPARAM	PAGEFILE
EXESV_PGFLFRAG	00000016	SYSPARAM	PAGEFILE
EXESV_POOLPGING	00000003	SYSPARAM	INIT
EXESV_REINITQUE	0000001C	SYSPARAM	
EXESV_RESALLOC	00000011	SYSPARAM	
EXESV_SAVEDUMP	0000001A	SYSPARAM	
EXESV_SBIERR	00000007	SYSPARAM	
EXESV_SETTIME	00000009	SYSPARAM	
EXESV_SHRF11ACP	0000000F	SYSPARAM	
EXESV_SIMULATOR	00000004	SYSPARAM	
EXESV_S8INHIBIT	00000013	SYSPARAM	INIT
EXESV_SYSPAGING	00000002	SYSPARAM	INIT
EXESV_SYSUAFALT	0000000E	SYSPARAM	
EXESV_SYSWRTABL	00000000	SYSPARAM	BUGCHECK
EXESV_TBCHK	00000018	SYSPARAM	PAGEFAULT
EXESWAITFR	8000A258-R	SYSWAIT	CMODSSDSP
EXESWAKE	8000A06F-R	SYSPCNTRL	CMODSSDSP
EXESWFLAND	8000A247-R	SYSWAIT	CMODSSDSP
EXESWFLOP	8000A24E-R	SYSWAIT	CMODSSDSP
EXESWRITE	8000826D-R	SYSQIOFDT	
EXESWRITECHK	8000832A-R	SYSQIOFDT	MBDRIVER
EXESWRITECHKR	80008396-R	SYSQIOFDT	
EXESWRITELOCK	80008293-R	SYSQIOFDT	SYSACPFDT
EXESWRITELOCKR	800082AA-R	SYSQIOFDT	
EXESWRMAILBOX	8000147E-R	MBDRIVER	SYSBRDCST
EXESZEROPARM	80008258-R	SYSQIOFDT	
FCBSB_DIRIDX	00000048	GLOBALS	
FCBSB_FID_NMX	00000025	GLOBALS	
FCBSB_FID_RVN	00000024	GLOBALS	
FCBSB_TYPE	0000000A	GLOBALS	
FCBSC_LENGTH	00000048	GLOBALS	
FCBSK_LENGTH	00000048	GLOBALS	
FCBSL_EFBLK	00000040	GLOBALS	
FCBSL_EXFCB	0000000C	GLOBALS	
FCBSL_FCBL	00000004	GLOBALS	
FCBSL_FCBFL	00000000	GLOBALS	
FCBSL_FILEOWNER	00000038	GLOBALS	
FCBSL_FILESIZE	00000034	GLOBALS	
FCBSL_HDLBN	00000030	GLOBALS	
FCBSL_STLBN	0000002C	GLOBALS	

Symbol	Value	Defined By	Referenced By ...
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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	
FILSGO_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	
FILSSTATBLK	80017770-R	FILEREAD	
FILSWRITEVBN	80017682-R	FILEREAD	
IACSAI_VECADDR	7FFE1E50	SHELL	
IACSAI_VECOPCOD	7FFE1E68	SHELL	
IACSAI_VECRESET	7FFE1E6C	SHELL	PROCSTRY SYSRUNDWN
IACSLRIACLOCK	80006FB6-R	SYSIMGACT	PHDUTL
IACSFIXUP_ADDR	80015303-R	IMGACTSUB	
IACSFIXUP_IAP	80015284-R	IMGACTSUB	
IACSGI_IMAGCTX	7FFE1E50	SHELL	IMGACTSUB SYSIMGACT
IACSGI_PROCCTX	7FFE1E54	SHELL	



Symbol	Value	Defined By	Referenced By ...
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IACSPRVSHRIMG	80015459-R	IMGACTSUB	SYSIMGACT
IACSRRESET_IAF	80015497-R	IMGACTSUB	SYSIMGACT
IACSRCH_SHL_C	800152C3-R	IMGACTSUB	
IACSRCH_SHL_D	800152CF-R	IMGACTSUB	SYSIMGACT
INISALONONPAGED	8001BE5C-R	INIT	
INISA_INILOAVEC	8001C075-R	INITVEC	INIT
INISBRK	8000C3FC-R	INIT	BUGCHECK
INISIOMAP	8001C075-R	INITVEC	INIT
INISMASTERWAKE	80003E68-R	INIT	
INISMPMADP	80002F0C-R	SYSLOAVEC	
INISRONLY	8000C405-R	INIT	XDELTA
INISWRITABLE	8000C3FE-R	INIT	BUGCHECK
IOSGL_SCB_INT0	80002944-R	SYSCOMMON	XDELTA
IOSGL_UBA_INT0	8000293C-R	SYSCOMMON	ERRORLOG
IOSV_INCLUDE	0000000B	SYSSIODEF	COMDRVSUB
IOS_ACPCONTROL	00000038	SYSSIODEF	SYSRCMPSC
IOS_READBLK	00000021	SYSSIODEF	BUGCHECK
IOS_READVBLK	00000031	SYSSIODEF	SYSIMGACT
IOS_WRITEBLK	00000020	SYSSIODEF	BUGCHECK
IOCSALLOSPY	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	MOUNTVER
IOCSANCELIO	8000AFF5-R	IOSUBNPAG	PAGEFILE
IOCSCREATE_UCB	8000D4AD-R	IOSUBPAGD	SYSASSIGN
IOCSCVTLOGPHY	8000B74C-R	IOSUBRAMS	SYSMAILBX
IOCSCVTLOGPHYU	8000B755-R	IOSUBRAMS	MOUNTVER
IOCSCVT_DEVNAM	8000B60B-R	IOSUBNPAG	SYSACPFDT
			SYSDEVALC
			SYSASSIGN
IOCSDELMBX	8000B00C-R	IOSUBNPAG	
IOCSDIAGBUFILL	8000B095-R	IOSUBNPAG	
IOCSDIRPOST1	8000440D-R	IOCIOPST	SYSUPDSEC
IOCSDISMOUNT	8000D20F-R	DISMOUNT	SYSDELPRC
IOCSFFCHAN	8000D531-R	IOSUBPAGD	SYSASSIGN
IOCSFILSPT	8000ACF1-R	BUFFERCTL	SYSDBGLSC
IOCSGETBYTE	8000AC98-R	BUFFERCTL	SYSMAILBX
IOCSGL_ADPLIST	8000C5C-R	DEVICEDAT	POWERFAIL
IOCSGL_AQBLIST	800027F8-R	SYSCOMMON	
IOCSGL_CRBTMOUT	8000280C-R	SYSCOMMON	TIMESCHDL
IOCSGL_DEVLIST	8000C58-R	DEVICEDAT	INIT
			IOSUBPAGD
			POWERFAIL
			SYSBRDCST
			SYSDEVALC
			SYSMAILBX
IOCSGL_DPTLIST	8000C60-R	DEVICEDAT	
IOCSGL_IRPBL	80002794-R	SYSCOMMON	INIT
IOCSGL_IRPCNT	8000279C-R	SYSCOMMON	INIT
IOCSGL_IRPFL	80002790-R	SYSCOMMON	MEMORYALC
			MEMORYALC
			PAGEFAULT
			SWAPPER
			WRTMFYPAG
			SYSQIOREQ

Symbol	Value	Defined By	Referenced By ...	
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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	SYSGIOREQ
IOCSGL_PSFL	80002788-R	SYSCOMMON	IOCIOPOST	
IOCSGL_SRPBL	800027A8-R	SYSCOMMON	INIT	MEMORYALC
IOCSGL_SRPCNT	800027BC-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
IOCSGL_BRDCST	80002804-R	SYSCOMMON	SYSBRDCST	
IOCSGL_MOUNTLST	800027FC-R	SYSCOMMON	SYSGETDEV	
IOCSGL_LAMAPREG	8000331E-R	SYSPARAM		
IOCSGL_MAXBUF	800032FE-R	SYSPARAM	EXSUBROUT	SYSSNDMSG
IOCSGL_MBXBFQUO	80003300-R	SYSPARAM	SYSMAILBX	
IOCSGL_MBXMXMSG	80003302-R	SYSPARAM	SYSMAILBX	
IOCSGL_MBXNMMSG	80003304-R	SYSPARAM		
IOCSGL_MVTIMEOUT	800032FC-R	SYSPARAM	MOUNTVER	
IOCSGL_XFMXRATE	8000331C-R	SYSPARAM		
IOCSINITBUFWIND	8000AC9A-R	BUFFERCTL		
IOCSINITDRV	8001C118-R	RELOCDRV	INIT	
IOCSINITIATE	8000B1E3-R	IOSUBNPAG	MOUNTVER	SYSGIOREQ
IOCSIOPOST	80003E74-R	IOCIOPOST		
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		
IOCSQNTSEG	80004242-R	IOCIOPOST		

Symbol	Value	Defined By	Referenced By ...
IOCSQNXTSSEG1	8000424E-R	IOCIOPST	SYSQIOREQ
IOCSREINITDRV	8001C11E-R	RELOCDRV	
IOCSRELCHAN	8000B0C2-R	IOSUBNPAG	
IOCSRELDATAP	8000B26C-R	IOSUBNPAG	
IOCSRELDATAPUDA	8000B25E-R	IOSUBNPAG	
IOCSRELHAPREG	8000B4E5-R	IOSUBNPAG	
IOCSRELHAPUDA	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	CONINTDSP POWERFAIL SYSDEVALC SYSASSIGN SYSGETDEV SYSDEVALC
IOCSSEARCHALC	8000D57A-R	IOSUBPAGD	MBDRIVER SYSASSIGN NLDRIVER
IOCSSEARCHDEV	8000D57F-R	IOSUBPAGD	SYSBRDCST SYSDEVALC SYSNDMSG
IOCSSEARCHGEN	8000D575-R	IOSUBPAGD	
IOCSSENSEDISK	8000B86A-R	IOSUBRAMS	
IOCSHREADCRB	80002F92-R	SCSVEC	
IOCSUNLOCK	8000D765-R	IOSUBPAGD	SYSASSIGN SYSDEVALC SYSDASSGN SYSMAILBX
IOCSUPDATRANSP	8000B82E-R	IOSUBRAMS	
IOCSVERIFYCHAN	8000D777-R	IOSUBPAGD	SYSCANCEL SYSGETDEV SYSNDMSG SYSCRMPSC SYSIMGACT SYSDASSGN SYSMAILBX
IOCSWAKACP	800042A5-R	IOCIOPST	
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_F11ACP	800028E4-R	SYSCOMMON	SYSCANEVT SYSIMGACT
LCKSCMPAT_TBL	8000A540-R	SYSENGDEQ	DEADLOCK
LCKSDEQLOCK	8000AB54-R	SYSENGDEQ	DEADLOCK
LCKSGB_MAXDEPTH	80002978-R	SYSCOMMON	INIT SYSENGDEQ
LCKSGL_EXTRASTK	8000322C-R	SYSPARAM	DEADLOCK INIT

Symbol	Value	Defined By	Referenced By ...
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LCK\$GL_HASHTBL	80002964-R	SYSCOMMON	INIT SYSENGDEQ
LCK\$GL_HTBLCNT	80002968-R	SYSCOMMON	INIT SYSENGDEQ
LCK\$GL_HTBL\$IZ	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	80011987-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	LOGNAMSUB DISMOUNT IOSUBNPAG SYSLOGNAM
LOG\$GL_HTBL\$IZ	80003358-R	SYSPARAM	SWAPPER
LOG\$GL_HTBL\$IZG	8000335C-R	SYSPARAM	
LOG\$GL_HTBL\$IZP	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\$STRN\$LOGNAME	8000D8F4-R	LOGNAMSUB	IOSUBPAGD
LOG\$UNLOCK	8000D83A-R	LOGNAMSUB	SHM\$SDRTN SYSASSIGN SYSLOGNAM
MASINITIAL	80001CE1-R	MAHANDLER	DISMOUNT IOSUBNPAG SYSGETDEV
MASINT	80001B8C-R	MAHANDLER	SYSLOGNAM
MASRAVAIL	80001B51-R	MAHANDLER	
MASREQUEST	80001AB6-R	MAHANDLER	MEMORYALC
MBSDDT	800013E8-R	MBDRIVER	POSTEF
MBSDPT	80001274-R	MBDRIVER	DEVICEDAT
MBSGL_DDB	80000F84-R	DEVICEDAT	INIT
MBSGL_UCB1	8000103C-R	DEVICEDAT	
MBSGL_UCB2	800010C0-R	DEVICEDAT	
MBSUCB0	80000F88-R	DEVICEDAT	SYSMAILBX

Symbol	Value	Defined By	Referenced By ...
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MBASINITIAL	800013DC-R	MBAINTDSP	POWERFAIL
MBASINT	8000133D-R	MBAINTDSP	
MCHKSGL_MASK	8000292C-R	SYSCOMMON	EXCEPTION
MCHKSGL_BP	80002930-R	SYSCOMMON	EXCEPTION
MMGSALCPHD	8000DB82-R	PHDUTL	SYSADJWSL
MMGSALCSTX	8000DB59-R	PHDUTL	SYSCRMPSC
MMGSALC_PGFLVBN	8001197A-R	PAGEFILE	
MMGSALLOCPAGFIL1	800060E4-R	PAGEFILE	WRTMFYPAG
MMGSALLOCPAGFIL2	8000624D-R	PAGEFILE	WRTMFYPAG
MMGSALLOCPFN	80005BEB-R	ALLOCPFN	INIT MEMORYALC PAGEFAULT
MMGSALLOCSWPAREA	800060AC-R	PAGEFILE	SWAPPER
MMGSALOSHMGSD	80011292-R	SHMGSDRTN	PAGEFAULT PHDUTL SYSCREPRC
MMGSALOSHMPAG	80011186-R	SHMGSDRTN	SYSCRMPSC
MMGSAL_BEGDRIVE	80001320-R	MDAT	INIT
MMGSAL_ENDDRIVE	80001DD8-R	MDAT	INIT
MMGSAL_FIXUPTBL	8001BEEF-R	MDAT	INIT
MMGSAL_PGDCODEN	80018A00-R	MDAT	INIT
MMGSAL_SYSPCB	80002608-R	PDAT	BUGCHECK PAGEFAULT INIT SWAPPER IOLOCK
MMGSA_ENDVEC	80000800-R	MDAT	
MMGSA_SYSPARAM	80003200-R	MDAT	
MMGSA_SYS_END	8001EA00-R	MDAT_END	INIT
MMGSALCSWAPSIZE	800063CC-R	PHDUTL	SYSCREPRC
MMGSCEFTRNLOG	80011459-R	SHMGSDRTN	SYSASCEFC
MMGSCLR_BITMAP	80011127-R	SHMGSDRTN	
MMGSCRECOM1	8000E5C9-R	SYSCREDEL	SYSGETPTI SYSYLNKSET SYSSETPRT
MMGSCRECOM2	8000E5D1-R	SYSCREDEL	SYSPURGWS SYSUPDSEC
MMGSCREPAG	8000E74A-R	SYSCREDEL	SYSCRMPSC
MMGSCRETVA	8000E5A6-R	SYSCREDEL	PAGEFAULT SYSIMGACT
MMGSDALCBAKSTORE	80005D48-R	ALLOCPFN	PAGEFAULT
MMGSDALCPAGFIL	800062D8-R	PAGEFILE	ALLOCPFN SWAPPER SYSCREDEL
MMGSDALCSTX	8000DB42-R	PHDUTL	SYSDBGLSC
MMGSDALCSTXSCN	8000DABF-R	PHDUTL	SHMGSDRTN SYSCRMPSC SYSDGBLSC
MMGSDALCSTXSCN1	8000DAB8-R	PHDUTL	SYSCREDEL SYSCRMPSC
MMGSDALLOCPFN	80005DAF-R	ALLOCPFN	INIT
MMGSDEALLOCPAGFIL	800062E1-R	PAGEFILE	SYSCREPRC
MMGSDECPHDREF	80005B8A-R	PAGEFAULT	
MMGSDECPHDREF1	80005B8E-R	PAGEFAULT	
MMGSDECPHREF	80005B23-R	PAGEFAULT	ALLOCPFN ALLOCPFN IOCIOPST IOLOCK WRTMFYPAG SWAPPER
MMGSDECSECREP	8000640F-R	PHDUTL	SYSDGBLSC IOLOCK SYSCREDEL SYSSETPRT SYSCRMPSC
MMGSDECSSHREF	80007788-R	SHMGSDRTN	SYSDGBLSC
MMGSDELCONPFN	80005C00-R	ALLOCPFN	SWAPPER SYSDELPRC
MMGSDELGBLSEC	80006D9B-R	SYSDGBLSC	PHDUTL
MMGSDELGBLWCB	8000FC03-R	SYSDGBLSC	PHDUTL SYSCRMPSC
MMGSDELPAG	80006A88-R	SYSCREDEL	SYSCRMPSC
MMGSDELPFNLS1	80005CF9-R	ALLOCPFN	SYSDGBLSC
MMGSDELSSHMG	800118D2-R	SHMGSDRTN	PHDUTL
MMGSDELWBLEPPG	80005A13-R	PAGEFAULT	SYSCREDEL

Symbol	Value	Defined By	Referenced By ...
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MMGSDELWLSLEX	800059EF-R	PAGEFAULT	SWAPPER
MMGSDBGLSC1	8000FA05-R	SYSDBGLSC	SYSIMGACT
MMGREXTRADYNWS	80006A01-R	SYSADJWSL	OSWPSCHED PHDUTL SYSCREDEL
			SYSLKWSET
MMGSFIND1STGSD	80011389-R	SHMGSDRTN	SYSDBGLSC
MMGSFINDGSDPFN	80007712-R	SHMGSDRTN	SYSCREDEL SYSUPDSEC
MMGSFINDGSDNOTRN	800117DB-R	SHMGSDRTN	SYSCRMPSC SYSDBGLSC
MMGSFINDSHB	800113B1-R	SHMGSDRTN	SYSASCEFC
MMGSFINDSHD	80007825-R	SHMGSDRTN	SYSUPDSEC
MMGSFREEGSD	8001131D-R	SHMGSDRTN	
MMGSFREWSLE	8000586B-R	PAGEFAULT	IOLOCK SYSADJWSL
MMGSFREWSLX	800058FF-R	PAGEFAULT	SYSPURGWS
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_FREWSVA	80003488-R	SYSPARAM	SVAPTE
MMGSGL_GBLPAGFIL	800021D0-R	MDAT	INIT SYSCRMPSC SYSDBGLSC
MMGSGL_GBLSECFND	800021CC-R	MDAT	SYSCREDEL
MMGSGL_GPTBASE	8000347C-R	SYSPARAM	LOADMREG PAGEFAULT SWAPPER
			SYSCREDEL SYSCRMPSC SYSDBGLSC
			SYSSETPRT
MMGSGL_GPTE	80003480-R	SYSPARAM	INIT
MMGSGL_IACLOCK	80001E6C-R	SYSIMGACT	
MMGSGL_IRPNEXT	80003480-R	SYSPARAM	MEMORYALC
MMGSGL_LLRPNEXT	80003484-R	SYSPARAM	MEMORYALC
MMGSGL_MAXGPTE	80003484-R	SYSPARAM	PAGEFAULT
MMGSGL_MAXPFIDX	80002188-R	PAGEFILE	SHELL
MMGSGL_MAXPFN	800034C0-R	SYSPARAM	INIT IOCIOPST IOLOCK
			PAGEFAULT SYSCREDEL SYSLKWSET
			SYSUPDSEC WRTMFYPAG
MMGSGL_MAXSYSVA	80003488-R	SYSPARAM	
MMGSGL_MINPFN	800034C4-R	SYSPARAM	INIT
MMGSGL_NPAGEDYN	800034A8-R	SYSPARAM	INIT MEMORYALC SYSCREPRC
MMGSGL_NPAGNEXT	800034AC-R	SYSPARAM	MEMORYALC
MMGSGL_NULLPFL	80002160-R	PAGEFILE	INIT
MMGSGL_PAGEDYN	800034BC-R	SYSPARAM	INIT
MMGSGL_PAGSWPVC	80002184-R	PAGEFILE	INIT PAGEFAULT SHELL
			SWAPPER SYSCREPRC SYSDELPRC
			WRTMFYPAG
MMGSGL_PFNLOCK	80001E70-R	SYSLKWSET	
MMGSGL_PGDCOD	80003530-R	SYSPARAM	INIT
MMGSGL_PHYPGCNT	80003294-R	SYSPARAM	
MMGSGL_RMSBASE	800021C8-R	MDAT	PROCSTR SYSRUNDWN
MMGSGL_SBICONF	800021C0-R	MDAT	ERRORLOG
MMGSGL_SBR	800034A4-R	SYSPARAM	
MMGSGL_SPTBASE	8000348C-R	SYSPARAM	BUFFERCTL INIT IOSUBNPAG
			IOSUBBRMS MEMORYALC
			MOUNTVER PAGEFAULT PHDUTL

Symbol -----	Value -----	Defined By -----	Referenced By ... -----	
			SHELL	SWAPPER
			SYSUPDSEC	SVAPTE WRTMFYPAG
MMG\$GL_SPTLEN	80003490-R	SYSPARAM		
MMG\$GL_SRPNEXT	80003488-R	SYSPARAM	MEMORYALC	
MMG\$GL_SYSPHD	80003494-R	SYSPARAM	INIT	IOCIOPST
			PHOUTL	SHMGSORTN
			SYSCRMPSC	SYSUPDSEC
			WRTMFYPAG	
			SVAPTE	
MMG\$GL_SYSPHDLN	80003498-R	SYSPARAM	PHOUTL	SYSCRMPSC
MMG\$GSDMTXULK	8000F9EC-R	SYSDBGLSLSC	SHMGSORTN	SYSCRMPSC
MMG\$GSD8CN	8000FB19-R	SYSDBGLSLSC	SYIMGACT	
MMG\$GSDTRNLOG	8001146B-R	SHMGSORTN	INIT	SHELL
MMG\$GW_BIGPFN	800034C2-R	SYSPARAM	SHELL	
MMG\$GW_MINPFIDX	8000218C-R	PAGEFILE	SYIMGACT	
MMG\$IMGACTBUF	7FFE8800	SHELL	ACCOUNT	BUGCHECK
MMG\$IMGHORBUF	7FFEA400	SHELL	PROCSTRT	SYSRUNDWN
MMG\$IMGRESET	8000D9A2-R	PHOUTL	SYSCRMPSC	SYSUPDSEC
MMG\$INADRINI	8000E623-R	SYSCREDEL	SYSCRMPSC	
MMG\$INCPTRF	80005AE5-R	PAGEFAULT	SHMGSORTN	
MMG\$INCSHMREF	8000778B-R	SHMGSORTN	SYSCRMPSC	
MMG\$INIBLDPKT	80005B99-R	PAGEFAULT	SYSUPDSEC	WRTMFYPAG
MMG\$ININWPFN	80005A39-R	PAGEFAULT	IOLOCK	
MMG\$INIWCB	80017964-R	SYIMGACT		
MMG\$INSPFNH	80005D73-R	ALLOCPFN	SWAPPER	SYDELPRC
MMG\$INSPFNT	80005DB1-R	ALLOCPFN	IOCIOPST	SWAPPER
MMG\$IOLOCK	80005E35-R	IOLOCK	SYSGIOFDT	WRTMFYPAG
MMG\$IOLOCKPAG	80005F34-R	IOLOCK	SWAPPER	
MMG\$LCCKPAG	80006FF5-R	SYSLKWSSET	SYSCREDEL	
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	SWAPPER
MMG\$PAGEFAULT	80005078-R	PAGEFAULT	INIT	XDELTA
MMG\$PAGEFYPE	80006D71-R	SYSCREDEL	SYSGETPTI	SYSETPRT
MMG\$PGFLTWAIT	800053BF-R	PAGEFAULT	SYSCREDEL	
MMG\$PTEADRCHK	80006500-R	SVAPTE	PHOUTL	
MMG\$PTEINDX	80006521-R	SVAPTE	BUGCHECK	EXCEPTION
MMG\$PTEINDXCHK	8000651B-R	SVAPTE		SYSUPDSEC
MMG\$PTEREF	80006509-R	SVAPTE	PAGEFAULT	SYSCREDEL
			SYSETPRT	SYSGETPTI
MMG\$PURGWS8CN	800071DB-R	SYSPURGWS	SYSCREDEL	
MMG\$READ_GSD	8001161D-R	SHMGSORTN	SYSCRMPSC	
MMG\$REFCNTNEG	800060A4-R	IOLOCK	IOCIOPST	PAGEFAULT
			SYSCREDEL	SWAPPER
			SYSETPRT	WRTMFYPAG
MMG\$RELPFN	80005D01-R	ALLOCPFN	IOLOCK	PAGEFAULT
			SWAPPER	SYSCREDEL
			IOLOCK	WRTMFYPAG
			SYSUPDSEC	SWAPPER
MMG\$REMPFN	80005C8D-R	ALLOCPFN		
MMG\$REMPFNH	80005C82-R	ALLOCPFN		
MMG\$RESRCWAIT	800053A4-R	PAGEFAULT	SYSCREDEL	





Symbol	Value	Defined By	Referenced By ...
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NLSOPT	800012AD-R	NLDRIVER	INIT
NLSGL_DDB	80001144-R	DEVICEDAT	
NLSGL_UCB0	80001178-R	DEVICEDAT	
OPSDPT	800012E6-R	CONINTDSP	INIT
OPASCRB	80000F10-R	DEVICEDAT	INIT
OPA3GL_DDB	80000D9C-R	DEVICEDAT	INIT
OPASUCB0	80000DD0-R	DEVICEDAT	INIT
P1SYSVECTORS	7FFEDE00	SHELL	SWAPPER
PATSA_NONPGD_CODE	8000C452-R	MDAT	MOUNTVER SYSDELPRC
PATSA_NONPGD_DATA	80002F80-R	MDAT	PAGEFILE
PATSA_PAGED_CODE	80013BF4-R	MDAT	
PATSA_PFN_FIXUP	8001C06D-R	MDAT_END	
PAT9GL_EXP_NPG1	8000C452-R	MDAT	
PAT9GL_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_WEFC	0000002E	GLOBALS	
PCBSL_LENGTH	0000009C	GLOBALS	
PCBSK_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	SYSSETIME
PCBSL_PHYPCB	00000018	GLOBALS	
PCBSL_PID	00000060	GLOBALS	SYSGETDEV
PCBSL_PQB	0000004C	GLOBALS	
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_NAME	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	0000000B	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	
PFMSG_L_PMBLST	80001E78-R	SYSSETPFM	
PFMSG_L_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 ...
-----	-----	-----	-----
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	
PMS\$AL_READTBL	80002E08-R	PMSDAT	
PMS\$AL_TRANSFLT	80001E38-R	PAGEFAULT	
PMS\$AL_WRITETBL	80002E30-R	PMSDAT	
PMS\$END_IO	80003A27-R	IOPERFORM	IOSUBNPAG
PMS\$END_RQ	80003A47-R	IOPERFORM	IOCIOPOST
PMS\$GB_PROMPT	80002E80-R	PMSDAT	
PMS\$GL_ARRLOCPK	80002DC8-R	PMSDAT	
PMS\$GL_ARRTRAPK	80002DD0-R	PMSDAT	
PMS\$GL_BUFIO	80002DA8-R	PMSDAT	
PMS\$GL_CHME	80002DFC-R	PMSDAT	
PMS\$GL_CHMK	80002DF8-R	PMSDAT	
PMS\$GL_COMPAT	80002854-R	SYSCOMMON	
PMS\$GL_DEPLOCPK	80002DCC-R	PMSDAT	
PMS\$GL_DEQ	80002DE4-R	PMSDAT	SYSENGDEQ
PMS\$GL_DIRHIT	80000924-R	PMSDAT	
PMS\$GL_DIRIO	80002DA4-R	PMSDAT	IOCIOPOST
PMS\$GL_DIRMISS	80000928-R	PMSDAT	
PMS\$GL_DLCKFND	80002DF4-R	PMSDAT	DEADLOCK
PMS\$GL_DLCKSRCH	80002DF0-R	PMSDAT	DEADLOCK
PMS\$GL_DOSTATS	80002E84-R	PMSDAT	
PMS\$GL_DPTSCN	80001E58-R	PAGEFAULT	
PMS\$GL_DZROFLTS	80001E34-R	PAGEFAULT	
PMS\$GL_ENQCVT	80002DE0-R	PMSDAT	SYSENGDEQ
PMS\$GL_ENQNEW	80002DDC-R	PMSDAT	SYSENGDEQ
PMS\$GL_ENQNOTQD	80002DEC-R	PMSDAT	SYSENGDEQ
PMS\$GL_ENQWAIT	80002DE8-R	PMSDAT	SYSENGDEQ
PMS\$GL_EXTHIT	8000093C-R	PMSDAT	
PMS\$GL_EXTMISS	80000940-R	PMSDAT	
PMS\$GL_FAULTS	80001E20-R	PAGEFAULT	
PMS\$GL_FCP	80000800-R	PMSDAT	
PMS\$GL_FCP2	80000800-R	PMSDAT	
PMS\$GL_FIDHIT	80000934-R	PMSDAT	
PMS\$GL_FIDMISS	80000938-R	PMSDAT	
PMS\$GL_GVALID	80001E5C-R	PAGEFAULT	
PMS\$GL_HIT	80000920-R	PMSDAT	IOSUBRAMS
PMS\$GL_IOPFMPDB	80002DC0-R	PMSDAT	IOPERFORM
PMS\$GL_IOPFMSEQ	80002DC4-R	PMSDAT	IOPERFORM
PMS\$GL_KERNEL	80002840-R	SYSCOMMON	TIMESCHOL
PMS\$GL_LDPCPX	80002E78-R	PMSDAT	
PMS\$GL_LOGNAM	80002DAC-R	PMSDAT	LOGNAMSUB
PMS\$GL_LRGRWP	80002E68-R	PMSDAT	
PMS\$GL_MBREADS	80002DB0-R	PMSDAT	MBDRIVER
PMS\$GL_MBWRITES	80002DB4-R	PMSDAT	MBDRIVER
PMS\$GL_NOSTDTRM	80002E70-R	PMSDAT	
PMS\$GL_OPEN	80000944-R	PMSDAT	
PMS\$GL_OPENS	80000948-R	PMSDAT	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
PMSSGL_PAGES	80002E00-R	PMSDAT	
PMSSGL_PASSALL	80002E60-R	PMSDAT	
PMSSGL_PREADIO	80001E28-R	PAGEFAULT	
PMSSGL_PREADS	80001E24-R	PAGEFAULT	
PMSSGL_PWRITES	80001E2C-R	PAGEFAULT	SYSUPDSEC WRTMFYPAG
PMSSGL_PWRITIO	80001E30-R	PAGEFAULT	SYSUPDSEC WRTMFYPAG
PMSSGL_QUOHIT	8000092C-R	PMSDAT	
PMSSGL_QUOMISS	80000930-R	PMSDAT	
PMSSGL_RCVBUFFL	80002DD8-R	PMSDAT	
PMSSGL_RDFLT8	80001E24-R	PAGEFAULT	
PMSSGL_READCNT	80002E58-R	PMSDAT	
PMSSGL_RWP	80002E64-R	PMSDAT	
PMSSGL_RWPNOSTD	80002E74-R	PMSDAT	
PMSSGL_RWPSUM	80002E6C-R	PMSDAT	
PMSSGL_SPLIT	8000091C-R	PMSDAT	IOCIOPST
PMSSGL_SWITCH	80002E7C-R	PMSDAT	
PMSSGL_TRCNGLOS	80002DD4-R	PMSDAT	
PMSSGL_TREADS	80002DB8-R	PMSDAT	
PMSSGL_TURN	80000918-R	PMSDAT	
PMSSGL_THRITES	80002DBC-R	PMSDAT	
PMSSGL_WRTCNT	80002E5C-R	PMSDAT	
PMSSGW_BATCH	80002E04-R	PMSDAT	
PMSSGW_INTJOBS	80002E06-R	PMSDAT	
PMSSSTART_IO	80003A75-R	IOPERFORM	IOSUBNPAG
PMSSSTART_RQ	80003A98-R	IOPERFORM	IOCIOPST MOUNTVER SYSCANCEL
PQLSAB_FLAG	8000340F-R	SYSPARAM	
PQLSAB_SYSPQL	80016B0E-R	SWAPPER	
PQLSAL_DEFAULT	8000339C-R	SYSPARAM	SYSREPRC
PQLSAL_MIN	800033D4-R	SYSPARAM	SYSREPRC
PQLSC_SYSPQLLEN	00000041	SWAPPER	
PQLSGDASTLM	800033A0-R	SYSPARAM	
PQLSGDBIOLM	800033A4-R	SYSPARAM	
PQLSGDBYTLM	800033A8-R	SYSPARAM	
PQLSGDCPULM	800033AC-R	SYSPARAM	
PQLSGDDIOLM	800033B0-R	SYSPARAM	
PQLSGDENQLM	800033CC-R	SYSPARAM	
PQLSGDFILLM	800033B4-R	SYSPARAM	
PQLSGDPGFLQUOTA	800033B8-R	SYSPARAM	
PQLSGDPRCLM	800033BC-R	SYSPARAM	
PQLSGDTQELM	800033C0-R	SYSPARAM	
PQLSGDWSDEFAULT	800033C8-R	SYSPARAM	
PQLSGDWSEXTENT	800033D0-R	SYSPARAM	
PQLSGDWSQUOTA	800033C4-R	SYSPARAM	
PQLSGMASTLM	800033D8-R	SYSPARAM	
PQLSGMBIOLM	800033DC-R	SYSPARAM	
PQLSGMBYTLM	800033E0-R	SYSPARAM	
PQLSGMCPULM	800033E4-R	SYSPARAM	
PQLSGMDIOLM	800033E8-R	SYSPARAM	
PQLSGMENQLM	80003404-R	SYSPARAM	
PQLSGMFILLM	800033EC-R	SYSPARAM	
PQLSGMPGFLQUOTA	800033F0-R	SYSPARAM	

Symbol	Value	Defined By	Referenced By ...
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PQL\$GMPRCLM	000033F4-R	SYSPARAM	
PQL\$GMTQELM	000033F8-R	SYSPARAM	
PQL\$GMWSDEFAULT	00003400-R	SYSPARAM	
PQL\$GMWSEXTENT	00003408-R	SYSPARAM	
PQL\$GMWSQUOTA	000033FC-R	SYSPARAM	
PRS_\$IPL	00000012	SYSS\$PRDEF	ACCOUNT SYSENGDEV SYSLOGNAM SHELL SYSIMGACT PAGEFAULT
PRS_\$TBIA	00000039	SYSS\$PRDEF	MOUNTVER SYSGETDEV SYSSNDMSG POSTEF SYSIMGACT
PRS_\$USP	00000003	SYSS\$PRDEF	
PRT\$C_\$EW	00000005	SYSS\$PRDEF	
PRV\$V_\$ACNT	00000009	GLOBALS	
PRV\$V_\$ALL\$POOL	00000004	GLOBALS	
PRV\$V_\$ALTPRI	00000000	GLOBALS	
PRV\$V_\$BUGCHK	00000017	GLOBALS	
PRV\$V_\$BYPASS	00000010	GLOBALS	EXSUBROUT MBDRIVER
PRV\$V_\$CMEXEC	00000001	GLOBALS	SYSIMGACT
PRV\$V_\$CMKRNL	00000000	GLOBALS	SYSIMGACT
PRV\$V_\$DETACH	00000005	GLOBALS	
PRV\$V_\$DIAGNOSE	00000006	GLOBALS	
PRV\$V_\$EXQUOTA	00000013	GLOBALS	
PRV\$V_\$GROUP	00000008	GLOBALS	
PRV\$V_\$GRPNAM	00000003	GLOBALS	
PRV\$V_\$LOG_\$IO	00000007	GLOBALS	SYSSETIME
PRV\$V_\$MOUNT	00000011	GLOBALS	
PRV\$V_\$NETMBX	00000014	GLOBALS	
PRV\$V_\$NOACNT	00000009	GLOBALS	
PRV\$V_\$OPER	00000012	GLOBALS	SYSSETIME
PRV\$V_\$PFNMAP	0000001A	GLOBALS	
PRV\$V_\$PHY_\$IO	00000016	GLOBALS	
PRV\$V_\$PRMCEB	0000000A	GLOBALS	
PRV\$V_\$PRMGBL	00000018	GLOBALS	
PRV\$V_\$PRMMBX	0000000B	GLOBALS	
PRV\$V_\$PSWAPM	0000000C	GLOBALS	
PRV\$V_\$SETPRI	0000000D	GLOBALS	
PRV\$V_\$SETPRV	0000000E	GLOBALS	
PRV\$V_\$SHMEM	0000001B	GLOBALS	
PRV\$V_\$SYGBL	00000019	GLOBALS	
PRV\$V_\$SYSLCK	0000001E	GLOBALS	
PRV\$V_\$SYSNAM	00000002	GLOBALS	
PRV\$V_\$SYSPRV	0000001C	GLOBALS	EXSUBROUT
PRV\$V_\$TMPMBX	0000000F	GLOBALS	
PRV\$V_\$VOLPRO	00000015	GLOBALS	
PRV\$V_\$WORLD	00000010	GLOBALS	
PSL\$C_\$EXEC	00000001	GLOBALS	
PSL\$C_\$KERNEL	00000000	GLOBALS	
PSL\$C_\$SUPER	00000002	GLOBALS	
PSL\$C_\$USER	00000003	GLOBALS	
PSL\$M_\$C	00000001	GLOBALS	
PSL\$M_\$CM	00000000	GLOBALS	SYSUNWIND
PSL\$M_\$CURMOD	03000000	GLOBALS	
PSL\$M_\$DV	00000000	GLOBALS	

Symbol	Value	Defined By	Referenced By ...
-----	-----	-----	-----
PSLSM_FPD	08000000	GLOBALS	SYSUNWIND
PSLSM_FU	00000040	GLOBALS	
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	SYSGETDEV
PSLSV_C	00000000	GLOBALS	
PSLSV_CM	0000001F	GLOBALS	
PSLSV_CURMOD	00000018	GLOBALS	
PSLSV_DV	00000007	GLOBALS	
PSLSV_FPD	00000018	GLOBALS	
PSLSV_FU	00000006	GLOBALS	
PSLSV_IPL	00000010	GLOBALS	
PSLSV_IS	0000001A	GLOBALS	
PSLSV_IV	00000005	GLOBALS	
PSLSV_N	00000003	GLOBALS	
PSLSV_PRVMOD	00000016	GLOBALS	SYSGETDEV
PSLSV_TBIT	00000004	GLOBALS	
PSLSV_TP	0000001E	GLOBALS	
PSLSV_V	00000001	GLOBALS	
PSLSV_Z	00000002	GLOBALS	
RMSRESET	8000DC1C-R	RMSRESET	PHDUTL SYSIMGACT
RMS\$GL_SFDBASE	80002920-R	SYSCOMMON	
RMS\$_STALL	00018001	RMS\$GLOBALS	CMODSSDSP
RMS\$_STR	000187BC	RMS\$GLOBALS	CMODSSDSP
RND\$V_IACLOCK	00000000	SHELL	SYSIMGACT
RSNS_ASTWAIT	00000001	GLOBALS	
RSNS_BRKTHRU	00000006	GLOBALS	
RSNS_IACLOCK	00000007	GLOBALS	SYSIMGACT
RSNS_JQUOTA	00000008	GLOBALS	
RSNS_LOCKID	00000009	GLOBALS	
RSNS_MAILBOX	00000002	GLOBALS	
RSNS_MAX	0000000D	GLOBALS	
RSNS_MPLEMPTY	0000000B	GLOBALS	WRTMFYPAG
RSNS_MPWBUSY	0000000C	GLOBALS	WRTMFYPAG
RSNS_NPDYNMEM	00000003	GLOBALS	
RSNS_PGDYNMEM	00000005	GLOBALS	
RSNS_PGFILE	00000004	GLOBALS	
RSNS_SWPFILE	0000000A	GLOBALS	
SCH\$AQ_COMH	80001E88-R	SDAT	SCHED
SCH\$AQ_COMOH	80001F88-R	SDAT	OSWPSCHED SWAPPER
SCH\$AQ_COMOT	80001F8C-R	SDAT	
SCH\$AQ_COMT	80001E8C-R	SDAT	RSE SCHED

Symbol	Value	Defined By	Referenced By ...
SCH\$AQ_WQHDR	8000207C-R	SDAT	OSWPSCHED RSE
SCH\$ASTDEL	80008A2C-R	ASTDEL	
SCH\$SCHSE	8000901C-R	RSE	INIT MUTEX SYSCREPRC
SCH\$SCHSEP	80009038-R	RSE	SWAPPER SYSGETJPI TIMESCHDL
SCH\$CLREF	80009F9B-R	SYSEVTSRV	SYSGETDEV SYSGETJPI SYSGETSYI
			SYSQIOREQ SYSSCHEVT SYSUPD8EC
SCH\$CLREFR	80009F95-R	SYSEVTSRV	
SCH\$C_MAXPIX	0000003F	PDAT	
SCH\$FORCEDEXIT	8000910B-R	RSE	
SCH\$GB_PRI	80002158-R	SDAT	MUTEX RSE SCHED
			TIMESCHDL
SCH\$GB_RESCAN	80002119-R	SDAT	ALLOCPFN OSWPSCHED
SCH\$GB_SIP	80002118-R	SDAT	RSE SWAPPER
			WRTMFYPAG
SCH\$GETEFC	80009F5A-R	SYSEVTSRV	SYSENGDEQ
SCH\$GL_AWSTIME	800032B0-R	SYSPARAM	RSE
SCH\$GL_BORROWLIM	80003314-R	SYSPARAM	RSE
SCH\$GL_COMQOS	80002114-R	SDAT	RSE SWAPPER
SCH\$GL_COMQS	80002110-R	SDAT	MUTEX RSE SCHED
			TIMESCHDL
SCH\$GL_CURPCB	8000210C-R	SDAT	ASTDEL BUGCHECK CMODS8DSP
			MBDRIVER MEMORYALC PAGEFAULT
			PROCSTRT SHM8DRTN
			SWAPPER SYSCREDEL SYSCREPRC
			SYSRMPSC SYSDELPRC SYSDGBLSC
			SYSENGDEQ SYSGETJPI SYSSCHEVT
			SYSSETPRI SYSSNDMSG
			TIMESCHDL WRTMFYPAG XDELTA
SCH\$GL_FREECNT	80001DF0-R	ALLOCPFN	INIT OSWPSCHED PAGEFAULT
			RSE SWAPPER
SCH\$GL_FREELIM	80001E0C-R	ALLOCPFN	INIT PROCSTRT RSE
			SWAPPER SYSADJWSL
SCH\$GL_FREEREQ	80001E00-R	ALLOCPFN	
SCH\$GL_GROWLIM	80003310-R	SYSPARAM	PAGEFAULT
SCH\$GL_MAXPIX	800026A8-R	PDAT	INIT SYSCREPRC SYSDELPRC
			SYSGETJPI SYSPCNTRL SYSSETPRA
			TIMESCHDL
SCH\$GL_MFYCNT	80001DF4-R	ALLOCPFN	OSWPSCHED PAGEFAULT RSE
			SWAPPER WRTMFYPAG
SCH\$GL_MFYLIM	80001E04-R	ALLOCPFN	INIT OSWPSCHED PAGEFAULT
			RSE SWAPPER SYSDGBLSC
			WRTMFYPAG
SCH\$GL_MFYLIMSV	80001E18-R	ALLOCPFN	INIT WRTMFYPAG
SCH\$GL_MFYLOLIM	80001E10-R	ALLOCPFN	INIT OSWPSCHED PAGEFAULT
			SWAPPER SYSDGBLSC WRTMFYPAG
SCH\$GL_MFYLOSV	80001E1C-R	ALLOCPFN	INIT WRTMFYPAG
SCH\$GL_NULLPCB	80002350-R	PDAT	INIT SDAT SYSCREPRC
			SYSDELPRC
SCH\$GL_PCBVEC	800026A4-R	PDAT	ASTDEL COMDRVSUB DEADLOCK
			EXSUBROUT INIT IOCIOPST
			IOSUBNPAG POSTEF RSE
			SWAPPER SYSASCEFC SYSASSIGN





Symbol	Value	Defined By	Referenced By ...
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SCHSQAST	80008BE8-R	ASTDEL	SYSGETDEV SYSQIOREQ COMDRVSUB SYSASTCON SYSFORCEX SYSSETPRA TIMESCHDL IOCIOPST MEMORYALC SYSDELPRC TIMESCHDL SYSENQDEQ
SCHSQEND	800090AE-R	RSE	SYSGETJPI SYSUPDSEC IOCIOPST SYSDELPRC SYSGETJPI TIMESCHDL
SCHSRAVAIL	8000985B-R	MUTEX	MAHANDLER PAGEFILE SYSENQDEQ WRTMFYPAG
SCHSRMOVACB	80008C8D-R	ASTDEL	MBDRIVER SYSBRDCST SYSIMGACT
SCHSRRESCHED	80009A54-R	SCHED	
SCHSRSE	80008F9D-R	RSE	ALLOCPFN OSWPSCHED SYSPCNTRL WRTMFYPAG EXSUBROUT SYSCANCEL SYSENQDEQ SYSSNDMSG INIT SYSENQDEQ ALLOCPFN SYSWAIT LOGNAMSUB SYSASCEFC SYSMAILBX
SCHSRWAIT	800097C1-R	MUTEX	ASTDEL POSTEF SYSSETPRI
SCHSSCHED	80009A74-R	SCHED	IOCIOPST SHMGSDRTN SYSWAIT
SCHSSWAPACBS	80008C8A-R	ASTDEL	
SCHSSWPWAKE	80009225-R	RSE	MEMORYALC SYSDASSGN SYSGETJPI SYSDELPRC SYSWAIT
SCHSUNLOCK	80009870-R	MUTEX	PAGEFAULT TIMESCHDL MEMORYALC SYSDGBLSC
SCHSUNWAIT	80008FEA-R	RSE	SHMGSDRTN SYSIMGACT
SCHSV_MPW	00000002	SDAT	
SCHSV_RREORD	00000000	SDAT	ALLOCPFN SWAPPER OSWPSCHED WRTMFYPAG
SCHSV_SIP	00000000	SDAT	
SCHSWAIT	8000A2C9-R	SYSWAIT	SYSPCNTRL SYSQIOFDT
SCHSWAITK	8000A2E4-R	SYSWAIT	SYSQIOREQ SHMGSDRTN MUTEX SWAPPER
SCHSWAITL	8000A2EF-R	SYSWAIT	
SCHSWAITM	8000A2F0-R	SYSWAIT	PAGEFAULT ERRORLOG SYSPCNTRL TIMESCHDL
SCHSWAKE	80009200-R	RSE	IOCIOPST SYSQIOREQ IOPERFORM SYSSETPFM
SCS\$ACCEPT	80002F44-R	SCSVEC	
SCS\$ALLOC_CDT	80002F4A-R	SCSVEC	
SCS\$ALLOC_RSPID	80002F50-R	SCSVEC	
SCS\$AL_LOAVEC	80002F44-R	SCSVEC	INIT
SCS\$CONFIG_PTH	80002F56-R	SCSVEC	
SCS\$CONFIG_SYS	80002F5C-R	SCSVEC	
SCS\$CONNECT	80002F62-R	SCSVEC	
SCS\$DEALL_CDT	80002F68-R	SCSVEC	
SCS\$DEALL_RSPID	80002F6E-R	SCSVEC	
SCS\$DISCONNECT	80002F74-R	SCSVEC	
SCS\$ENTER	80002F7A-R	SCSVEC	
SCS\$GB_PANPOLL	8000334E-R	SYSPARAM	

Symbol	Value	Defined By	Referenced By ...
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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_PAPPDDG	8000334C-R	SYSPARAM	
SCS\$GW_PASTMOUT	8000334A-R	SYSPARAM	
SCS\$GW_PASTRTY	80003348-R	SYSPARAM	
SCS\$GW_RDTCNT	80003338-R	SYSPARAM	
SCS\$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	IOSUBNPAG
SCS\$UNSTALLUCB	80002F9E-R	SCSVEC	
SGNSC_BALSETCNT	00000018	PDAT	
SGNSC_DFWSCNT	00000064	PDAT	
SGNSC_DFW\$QUOTA	00000078	PDAT	
SGNSC_GBL\$ECCNT	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_NPAGEOYN	00006800	PDAT	
SGNSC_NPROCS	00000040	PDAT	
SGNSC_PAGEDYN	00004000	PDAT	
SGNSC_PFNPA\$IZ	00000010	MDAT_END	
SGNSC_PHPAGCNT	00001000	PDAT	
SGNSC_SYSDWSCNT	00000028	PDAT	
SGNSC_SYSVECPGS	00000004	PDAT	
SGNSC_SYSWSCNT	00000060	PDAT	
SGNS\$GB_KFIL\$TCT	80003210-R	SYSPARAM	
SGNS\$GB_PGTR\$PFC	8000320E-R	SYSPARAM	SHELL
SGNS\$GB_SYSPFC	8000320F-R	SYSPARAM	INIT
SGNS\$GL_BALSETCT	80003230-R	SYSPARAM	INIT
SGNS\$GL_EXTRACPU	800032F4-R	SYSPARAM	PAGEFAULT
SGNS\$GL_EXUSR\$TK	80003254-R	SYSPARAM	SWAPPER
			RSE
			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_LRPCNT	80003258-R	SYSPARAM	
SGNSGL_LRPCNTV	8000325C-R	SYSPARAM	MEMORYALC
SGNSGL_LRPMIN	80003264-R	SYSPARAM	
SGNSGL_LRPsize	80003260-R	SYSPARAM	
SGNSGL_MAXGPCT	80003214-R	SYSPARAM	
SGNSGL_MAXVPCT	8000324C-R	SYSPARAM	
SGNSGL_MAXWSCNT	8000323C-R	SYSPARAM	INIT
			SHELL
SGNSGL_NPAGE_DYN	80003240-R	SYSPARAM	MEMORYALC
SGNSGL_NPAGE_VIR	80003244-R	SYSPARAM	SVAPTE
SGNSGL_P1LWCNT	80003464-R	SYSPARAM	INIT
SGNSGL_PAGE_DYN	80003248-R	SYSPARAM	SHELL
SGNSGL_PHDAPCNT	8000345C-R	SYSPARAM	SVAPTE
SGNSGL_PHDLWCNT	80003460-R	SYSPARAM	INIT
SGNSGL_PHDAPGCT	80003468-R	SYSPARAM	PAGEFAULT
SGNSGL_PTPAGCNT	8000346C-R	SYSPARAM	SYSCREDEL
SGNSGL_SPTREQ	80003250-R	SYSPARAM	INIT
SGNSGL_SRPCNT	80003268-R	SYSPARAM	MEMORYALC
SGNSGL_SRPCNTV	8000326C-R	SYSPARAM	
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	INIT
SGNSGW_PCHANCNT	80003278-R	SYSPARAM	PROCSTRT
SGNSGW_PIXSCAN	8000321E-R	SYSPARAM	TIMESCHDL
SGNSGW_SWPFILCT	8000218C-R	PAGEFILE	INIT
SGNSGW_SWPFILES	80003226-R	SYSPARAM	INIT

Symbol	Value	Defined By	Referenced By ...
SGNSGW_SYSDW8CT	80003228-R	SYSPARAM	INIT
SGNSGW_TPWAIT	80003354-R	SYSPARAM	
SGNSGW_SLMXSKP	80003290-R	SYSPARAM	PAGEFAULT
SSS_ABORT	0000002C	SYS\$SDEF	SYSENGDEQ
SSS_ACCVIO	0000000C	SYS\$SDEF	COMDRVSUB IOCIOPST SYSACPFDT
SSS_BADPARAM	00000014	SYS\$SDEF	SYSENGDEQ COMDRVSUB SYSACPFDT
SSS_CANCEL	00000030	SYS\$SDEF	SYSCANCEL
SSS_CVTUNGRANT	0000213C	SYS\$SDEF	SYSENGDEQ
SSS_DEADLOCK	00000E0A	SYS\$SDEF	DEADLOCK
SSS_DEVFOREIGN	00000064	SYS\$SDEF	SYSACPFDT
SSS_DEVNOTMOUNT	0000007C	SYS\$SDEF	SYSACPFDT
SSS_DIRFULL	00000060	SYS\$SDEF	IMGACTSUB
SSS_ENDOFFILE	00000070	SYS\$SDEF	NLDRIIVER
SSS_EXASTLM	00002A04	SYS\$SDEF	SYSENGDEQ
SSS_EXDEPTH	00000E1A	SYS\$SDEF	SYSENGDEQ
SSS_EXENGLM	00002A44	SYS\$SDEF	SYSENGDEQ
SSS_EXQUOTA	0000001C	SYS\$SDEF	COMDRVSUB SYSACPFDT
SSS_FILALRACC	000000A4	SYS\$SDEF	SYSACPFDT
SSS_FILNOTACC	000000AC	SYS\$SDEF	SYSACPFDT
SSS_ILL0LKNUM	000000DC	SYS\$SDEF	IOCIOPST SYSACPFDT
SSS_IN\$FMEM	00000124	SYS\$SDEF	COMDRVSUB
SSS_IVBU\$LEN	0000034C	SYS\$SDEF	SYSENGDEQ
SSS_IVCHNL0EC	0000026C	SYS\$SDEF	SYSACPFDT
SSS_IVLOCKID	00002124	SYS\$SDEF	SYSENGDEQ
SSS_IVSTS\$FLG	0000017C	SYS\$SDEF	SYSSETPRV
SSS_IVTIME	00000184	SYS\$SDEF	SYSSETIME
SSS_NOLOCKID	00000E12	SYS\$SDEF	SYSENGDEQ
SSS_NOPRIV	00000024	SYS\$SDEF	SYSACPFDT SYSSETIME
SSS_NORMAL	00000001	SYS\$SDEF	COMDRVSUB OPENMSG SYSENGDEQ IMGACTSUB SYSACPFDT SYSSETIME
SSS_NOSH\$RIMG	000021BC	SYS\$SDEF	SYSENGDEQ
SSS_NOSYS\$LCK	000028F4	SYS\$SDEF	SYSENGDEQ
SSS_NOTALL\$PRIV	00000681	SYS\$SDEF	SYSSETPRV
SSS_NOTQUEUED	00000988	SYS\$SDEF	SYSENGDEQ
SSS_PARNOT\$GRANT	00002134	SYS\$SDEF	SYSENGDEQ
SSS_RELINK	0000220C	SYS\$SDEF	IMGACTSUB
SSS_SUBLOCKS	0000212C	SYS\$SDEF	SYSENGDEQ
SSS_SYNCH	00000689	SYS\$SDEF	SYSENGDEQ
SSS_W\$RITLCK	0000025C	SYS\$SDEF	SYSACPFDT
SWI\$GL_FQBL	8000270C-R	SYSCOMMON	
SWI\$GL_FQFL	80002708-R	SYSCOMMON	FORKCNTRL
SWP\$AL_P\$TRPAG	00000600	SHELL	
SWP\$A_K\$STK	80000C50-R	PDAT	SYSPARAM
SWP\$C_DBG\$PTCNT	00000001	SHELL	
SWP\$C_K\$STACK	00000003	SHELL	INIT
SWP\$C_N\$DYN	00000002	SHELL	
SWP\$C_SHELL\$PFIL	000000A2	SHELL	SYS\$CREPRC
SWP\$C_SHL\$F\$PTE	00000047	SHELL	
SWP\$C_SHL\$P\$IPT	00000002	SHELL	
SWP\$GB_I\$WPRI	8000213E-R	SDAT	OSWPSCHED SWAPPER



Symbol	Value	Defined By	Referenced By ...
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SYS%C_JOBCTLMB	3141424D	DEVICEDAT	
SYS%C_MBXUCBSIZ	00000084	DEVICEDAT	MBDRIVER
SYS%C_OPRMBX	3241424D	DEVICEDAT	
SYS%DACEFC	7FFEDED0	SYS\$P1_VECTOR	SYSRUNDWN
SYS%DALLOC	7FFEDED8	SYS\$P1_VECTOR	SYSDELPRC
SYS%DASSGN	7FFEDEE0	SYS\$P1_VECTOR	DISMOUNT
			SYSASSIGN
			SYSDELPRC
			SYSDBGLSC
			SYSSETIME
			SYSGETDEV
			SYSGETJPI
			SYSGETSYI
SYS\$DCLAST	7FFEDEE8	SYS\$P1_VECTOR	
SYS\$DCLEXH	7FFEDEF0	SYS\$P1_VECTOR	
SYS\$DELLOG	7FFEDEF8	SYS\$P1_VECTOR	
SYS\$DELPRC	7FFEDF08	SYS\$P1_VECTOR	PROCSTRT
SYS\$DELTV	7FFEDF10	SYS\$P1_VECTOR	OPENMSG
SYS\$DEQ	7FFEE3C8	SYS\$P1_VECTOR	EXCEPTION
SYS\$EXIT	7FFEDF40	SYS\$P1_VECTOR	EXCEPTION
			SYSDELPRC
			PHDUTL
			SYSDELPRC
			BUGCHECK
			CMOD\$SDSP
			PROCSTRT
			EXCEPTION
			RSE
			SYSEXIT
			SYSFORCEX
			SYSIMGACT
			SYSBRDCST
			SYSVRTIM
			SYSGETMSG
			SYSPUTMSG
			SYSSETPFM
			SWAPPER
SYS\$EXPREG	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	SYSPARAM	
SYS\$GB_DFMBC	80003393-R	SYSPARAM	
SYS\$GB_DFMBFHSH	80003399-R	SYSPARAM	
SYS\$GB_DFMBFIDX	80003398-R	SYSPARAM	
SYS\$GB_DFMBFREL	80003397-R	SYSPARAM	
SYS\$GB_DFMBFSDK	80003394-R	SYSPARAM	
SYS\$GB_DFMBFMT	80003395-R	SYSPARAM	
SYS\$GB_DFMBFUR	80003396-R	SYSPARAM	
SYS\$GB_MXPRTSYM	80003438-R	SYSPARAM	
SYS\$GB_RMSPROLOG	8000339A-R	SYSPARAM	
SYS\$GETCHN	7FFEE0C8	SYS\$P1_VECTOR	SYSSETPFM
SYS\$GETMSG	7FFEE0B0	SYS\$P1_VECTOR	SYSPUTMSG
SYS\$GL_BOOTDDB	80000C6C-R	DEVICEDAT	INIT
SYS\$GL_BOOTUCB	80000CA0-R	DEVICEDAT	
SYS\$GL_JOBCTLMB	8000103C-R	DEVICEDAT	ACCOUNT
SYS\$GL_OPRMBX	800010C0-R	DEVICEDAT	MOUNTVER
SYS\$GQ_VERSION	800028F0-R	SYSCOMMON	BUGCHECK
SYS\$GT_ANNOUNCE	8001C0DC-R	VERSION	INIT
SYS\$GW_BJOBENT	800028FC-R	SYSCOMMON	
SYS\$GW_BJOBIM	8000343C-R	SYSPARAM	
SYS\$GW_FILEPROT	8000339E-R	SYSPARAM	SYSREPRC
SYS\$GW_IJOBENT	800028F8-R	SYSCOMMON	
SYS\$GW_IJOBIM	8000343A-R	SYSPARAM	
SYS\$GW_NJOBENT	800028FA-R	SYSCOMMON	
SYS\$GW_NJOBIM	8000343E-R	SYSPARAM	
SYS\$GW_RJOBIM	80003440-R	SYSPARAM	
SYS\$GW_RMSXTEND	8000339C-R	SYSPARAM	
SYS\$HIBER	7FFEDF88	SYS\$P1_VECTOR	PROCSTRT
SYS\$IMGACT	7FFEDF90	SYS\$P1_VECTOR	IMGACTSUB
			PROCSTRT
			SYSIMGACT
			SYSIMGSTA
SYS\$IMGFIX	7FFEE400	SYS\$P1_VECTOR	PROCSTRT
			SYSIMGSTA

Symbol	Value	Defined By	Referenced By ...
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SYSSK_VERSION	594A3158	VERSION	BUGCHECK
SYSSMGBLSC	7FFEDFA8	SYSSP1_VECTOR	SYSCOMMON
SYSSNUMTIM	7FFEDF88	SYSSP1_VECTOR	SYSIMGACT
SYSSOPEN	7FFEE208	SYSSP1_VECTOR	SYSCVRTIM
SYSSPUT	7FFEE188	SYSSP1_VECTOR	SYSIMGACT
SYSSPUTMSG	7FFEE0E0	SYSSP1_VECTOR	EXCEPTMSG
SYSSQIO	7FFEDFC8	SYSSP1_VECTOR	SYSPUTMSG
SYSSQIOW	7FFEDE00	SYSSP1_VECTOR	PROCSTR
			SYSDASSGN
SYSSRESUME	7FFEDFD8	SYSSP1_VECTOR	SYSDLPRC
SYSSRMSRUNDWN	7FFEE268	SYSSP1_VECTOR	PROCSTR
SYSSRUNDWN	7FFEDFE0	SYSSP1_VECTOR	SYSDLPRC
SYSSSETEF	7FFEE000	SYSSP1_VECTOR	DISMOUNT
SYSSSETEXV	7FFEE008	SYSSP1_VECTOR	PROCSTR
SYSSSETPRT	7FFEE030	SYSSP1_VECTOR	IMGACTSUB
SYSSSETPRV	7FFEE100	SYSSP1_VECTOR	OPENMSG
SYSSSETRWM	7FFEE038	SYSSP1_VECTOR	SYSRUNDWN
SYSSSETFSM	7FFEE040	SYSSP1_VECTOR	EXCEPTION
SYSSSTRNLOG	7FFEE058	SYSSP1_VECTOR	OPENMSG
			SYSIMGSTA
SYSSUNKIND	7FFEE070	SYSSP1_VECTOR	EXCEPTION
SYSSWAIT	7FFEE1A8	SYSSP1_VECTOR	SYSFAO
SYSSWAITFR	7FFEE078	SYSSP1_VECTOR	SYSPUTMSG
			DISMOUNT
			SYSSASSIGN
			SYSSSETIME
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\$GW_ALTALARM	80003384-R	SYSPARAM	
TTY\$GW_ALTPAHO	80003382-R	SYSPARAM	
TTY\$GW_CLASSNAM	80003390-R	SYSPARAM	
TTY\$GW_DEFBUF	80003374-R	SYSPARAM	
TTY\$GW_DMASIZE	80003386-R	SYSPARAM	
TTY\$GW_PROT	80003388-R	SYSPARAM	CONINTDSP
TTY\$GW_TYPAHDSZ	80003380-R	SYSPARAM	
UBASINITIAL	80002F06-R	SYSLOAVEC	POWERFAIL
UBASINT0	80002EB0-R	SYSLOAVEC	
UBASUNEXINT	80002EB8-R	SYSLOAVEC	
VASM_BYTE	000001FF	GLOBALS	EXSUBROUT
VASM_P1	40000000	GLOBALS	SYSIMGACT
VASM_SYSTEM	80000000	GLOBALS	SYSIMGACT
VASM_VPG	FFFFFFE0	GLOBALS	
VASM_VPN	3FFFFFFE0	GLOBALS	



Symbol	Value	Defined By	Referenced By ...
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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	80018C80-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

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| Symbols By Value |
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Table with 5 columns: Value, Symbols..., and four columns of symbol names. Values range from 00000000 to 00000010. Symbols include ACPSV\_READCHK, EXESV\_MOUNTMSG, MMGSV\_NOLASTUPD, etc.

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	PR\$ 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	SS\$BADPARAM	
00000015	DEVSV_DMT	DYN\$C_GSD	EXESV_EXPLICIT\$	PCBSV_NETWRK	PRVSV_VOLPRO
	VASV_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
	VASV_VPG				
00000018	DYN\$C_ALCPHD	DEVSV_FOR	DYN\$C_KFI	EXESV_TBCHK	FCBS\$ DIRIDX
	FCBSW_A\$CNT	IPL\$HWCLK	PCBSL_P\$HYPCB	PCBSV_DISAW\$	PRVSV_P\$RMBL
	PSLSV_C\$URMOD	SGN\$C_BALSETCNT			
00000019	DYN\$C_MTL	EXESV_P\$AGFILDM	PRVSV_S\$Y\$GBL		
0000001A	DYN\$C_BRDCST	EXESV_SAVEDUMP	FCBSW_L\$CNT	PRVSV_P\$FNMAP	PSLSV_I\$
0000001B	DYN\$C_CXB	EXESV_JOBQUEUES	PRVSV_S\$HMEM	PSLSV_F\$PD	
0000001C	DYN\$C_NDB	EXESV_REINITQUE	FCBSW_W\$CNT	PCBSL_O\$WNER	PRVSV_S\$Y\$SPRV
	SS\$EXQUOTA				
0000001D	DYN\$C_S\$B	PRVSV_BYPASS			
0000001E	DYN\$C_DPT	FCBSW_S\$TATUS	PRVSV_S\$Y\$SLCK	PSLSV_T\$P	VASV_P\$I
0000001F	DYN\$C_JPB	IPL\$POWER	PSLSV_C\$M	VASV_S\$YSTEM	
00000020	BUGS_ALC\$M\$BCLR	DYN\$C_P\$BH	FCBSW_F\$ID	FCBSW_F\$ID_NUM	IOS_WRITEBLK
	PCBSL_W\$SSWP	PSLSM_IV			
00000021	DYN\$C_P\$DB	IOS_READBLK			
00000022	DYN\$C_P\$IB	FCBSW_F\$ID_SEQ			
00000023	DYN\$C_P\$FL				
00000024	DYN\$C_UNUSED	FCBSB_F\$ID_RVN	FCBSW_F\$ID_RVN	FILSC_DIR_SIZE	PCBSL_S\$TS
	SS\$N\$OPRIV				
00000025	DYN\$C_P\$TR	FCBSB_F\$ID_NMX			
00000026	DYN\$C_K\$FH	FCBSW_S\$EGN			
00000027	DYN\$C_R\$VX				
00000028	BUGS_A\$PTREFHIGH	DYN\$C_EXTGSD	FCBSL_S\$TVBN	PCBSB_P\$RISAV	PCBSL_W\$TIME
	SGN\$C_G\$BL\$ECCNT	SGN\$C_S\$Y\$D\$WSCNT			
00000029	DYN\$C_S\$HMGSD	PCBSB_P\$RIBSAV			
0000002A	DYN\$C_S\$HB				
0000002B	DYN\$C_M\$BX				
0000002C	DYN\$C_I\$RPE	FCBSL_S\$TLBN	PCBSW_S\$TATE	SS\$ABORT	
0000002D	DYN\$C_S\$LAVCEB				
0000002E	CTL\$C_P\$RCALLSIZ	DYN\$C_S\$HMCEB	PCBSB_W\$EFC		
0000002F	DYN\$C_J\$IB	PCBSB_P\$RIB			
00000030	BUGS_A\$PTWRERR	DYN\$C_T\$WP	FCBSL_H\$DLBN	PCBSW_A\$PTCNT	
00000031	DYN\$C_R\$BM	IOS_READVBLK			
00000032	DYN\$C_V\$CA	PCBSW_T\$MBU			
00000033	DYN\$C_B\$CB				
00000034	DYN\$C_C\$DB	FCBSL_F\$ILESIZE	PCBSW_G\$PGCNT		
00000035	DYN\$C_L\$PD				
00000036	DYN\$C_J\$MT	PCBSW_P\$PGCNT			
00000037	DYN\$C_L\$KB				
00000038	BUGS_A\$SYNCRTER	DYN\$C_R\$SB	FCBSL_F\$ILEOWNER	FCBSW_U\$ICMEMBER	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	SGNSC_NPROCS
00000041	PGL\$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
	SGNSC_SYSWSCNT				
00000061	DYN\$C_CI				
00000062	DYN\$C_LOADCODE				
00000063	DYN\$C_INIT				
00000064	DYN\$C_CLASSDRV	PCB\$L_PHD	SGNSC_DFWSCNT	SSS_DEVFOREIGN	
00000068	BUG\$BADFORKIPL	PCB\$T_LNAME			
00000070	BUG\$BADLCKNSLE				
00000078	BUG\$BADMCKCOD	PCB\$L_JIB	SGNSC_DFWSQUOTA		
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\$BADSMBLK	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_ILLBLKNUM				
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_INCPTREF
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_IVSSVRQST
000001FF	VASM_BYTE
00000200	BUGS_IVWSETLIST
00000208	BUGS_KRNLSTAKNV
00000210	BUGS_MACHINECHK
00000218	BUGS_MAKEWSLE
00000220	BUGS_MODRELNBK
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

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Value
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00000268      BUGS_+NOACPCHAN
0000026C      SSS_+IVCHNLSEC
00000270      BUGS_+NOACPMAIL
00000278      BUGS_+NOAGBACP
00000280      BUGS_+NOBUFPCKT
00000288      BUGS_+NOBVPVCB
00000290      BUGS_+NOMULTBK
00000298      BUGS_+NONEXSTACP
000002A0      BUGS_+NORCVBUF
000002A8      BUGS_+NOTDDBDDB
000002B0      BUGS_+NOTFCBFCB
000002B8      BUGS_+NOTFCBWCB
000002C0      BUGS_+NOTFCPWCB
000002C8      BUGS_+NOTIRPAQB
000002D0      BUGS_+NOTMTLMTL
000002D8      BUGS_+NOTPCB
000002E0      BUGS_+NOTRVTVCB
000002E8      BUGS_+NOTUCBIRP
000002F0      BUGS_+NOTUCBRVT
000002F8      BUGS_+NOTUCBUCB
00000300      BUGS_+NOTVCBUCB
00000308      BUGS_+NOTVVPVCB
00000310      BUGS_+NOTWCBIRP
00000318      BUGS_+NOUSRWCS
00000320      BUGS_+OUTSWPERR
00000328      BUGS_+PAGEREDERR
00000330      BUGS_+PAGEWRTERR
00000334      BOOSC_+SYSPARSZ
00000338      BUGS_+PAGNTRNVAL
00000340      BUGS_+PFNLSTCNT
00000348      BUGS_+PFNREFNZRO
0000034C      SSS_+IVBUFLEN
00000350      BUGS_+PGFGBLBAD
00000358      BUGS_+PGFIPLHI
00000360      BUGS_+PGFLOCBAD
00000368      BUGS_+PROCGONE
00000370      BUGS_+PTELENTVIOL
00000378      BUGS_+PTRCNT
00000380      BUGS_+PURGWSSCN
00000388      BUGS_+QUEUEMPTY
00000390      BUGS_+RDSNONRES
00000398      BUGS_+REFCNTNEG
000003A0      BUGS_+RMSBUG
000003A8      BUGS_+SCANDEADPT
000003B0      BUGS_+SECREFNEG
000003B8      BUGS_+SHRCNTNEG
000003C0      BUGS_+SSRVEXCEPT
000003C8      BUGS_+STRNOTWCB
000003D0      BUGS_+SWAPWSLE
000003D8      BUGS_+SYSADJWSL
000003E0      BUGS_+SYSTMERR
000003E8      BUGS_+TIPCUFLOW

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Symbol...  
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EXESC\_SYSPARSZ

Value	Symbol
000003F0	BUGS_UBMAPEXCED
000003F8	BUGS_UNABLCREVA
00000400	BUGS_UNEXUBAINT
00000408	BUGS_UNKRSTRT
00000410	BUGS_UNXINTEXC
00000418	BUGS_UNXSIGNAL
00000420	BUGS_VBNMAPFAIL
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_BRDM8GLOST
000004A8	BUGS_MBACBHUNG
000004B0	BUGS_NEGSHBREF
000004B8	BUGS_ACPRECURS
000004C0	BUGS_ACPUNSTAK
000004C8	BUGS_BADRVNWC8
000004D0	BUGS_ERRCACHFUL
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_RSBREFNEG
00000520	BUGS_RSBREFNZRO
00000528	BUGS_SCBRDERR
00000530	BUGS_STATENTSVD
00000538	BUGS_MPBADMCK
00000540	BUGS_MPMCHECK
00000548	BUGS_MPASYNCRWT
00000550	BUGS_MPUNKRSTRT
00000558	BUGS_MPIVLISTK
00000560	BUGS_MPDBLERR
00000568	BUGS_MPHALT
00000570	BUGS_MPILLVEC
00000578	BUGS_MPNQUSRWCS
00000580	BUGS_MPERRHALT
00000588	BUGS_MPCHMONIS

SGNSC\_MAXWSCNT

Value

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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  
000026F4  
00002A04  
00002A44  
000037FF  
00004000  
00006800  
00007800  
00018001  
000187BC  
00040000  
00080000  
00100000  
0015827C  
001F0000  
00200000  
00C00000  
01000000  
02000000  
03000000

Symbols...

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BUGS\_MPCHMVEC  
BUGS\_MPSCBRDERR  
BUGS\_MPKNLSTKNV  
BUGS\_MPUNEXPINT  
BUGS\_LKBGRANTED  
BUGS\_NOTLKB  
BUGS\_INVRSPID  
BUGS\_WCBFCBMNG  
BUGS\_NOTWC0WCB  
BUGS\_UDAPORT  
BUGS\_DISKCLASS  
BUGS\_CIPORT  
SWPSAL\_PTRPAG  
SSS\_NOTALLPRIV  
SSS\_SYNCH  
SGNSC\_MAXGPGCNT  
SSS\_CANCEL  
SSS\_DIRFULL  
SSS\_ENDOFFILE  
SSS\_NOTQUEUED  
CTLSC\_CLIDATASZ  
SWPSSHENIT  
SSS\_DEADLOCK  
SSS\_NOLOCKID  
SSS\_EXDEPTH  
SGNSC\_MAXPGFL  
SGNSC\_MAXVPGCNT  
SSS\_RELINK  
SSS\_IVLOCKID  
SSS\_SUBLOCKS  
SSS\_PARNOTGRANT  
SSS\_CVTUNGRANT  
SSS\_NOSHRING  
SSS\_NOSYSLCK  
SSS\_EXASTLM  
SSS\_EXENGLM  
PSLSM\_SAFBITS  
SGNSC\_MAXPAGCNT  
SGNSC\_NPAGEDYN  
PIOSC\_SEGSIZ  
RMSS\_STALL  
RMSS\_STR  
TTSM\_READSYNC  
DEVSM\_MNT  
DEVSM\_MBX  
LIBS\_ATTCONSTO  
PSLSM\_IPL  
DEVSM\_DMT  
PSLSM\_PVMOD  
DEVSM\_FOR  
DEVSM\_SWL  
PSLSM\_CURMOD

SGNSC\_PHPAGCNT

SGNSC\_PAGEDYN



Value	Symbol...
04000000	PSLSM_IS
08000000	PSLSM_FPD
31414240	SYSSC_JOBCTLMB
32414240	SYSSC_OPRMBX
3FFFFFF00	VASM_VPN
40000000	DEVSM_RCK
594A3158	SYSSK_VERSION
7FFD8E00	PIOSGL_FMLH
7FFD8E08	PIOSGL_IIOF8PLH
7FFD8E10	PIOSGW_STATUS
7FFD8E12	PIOSGT_ENDSTR
7FFD8E22	PIOSGW_DFPROT
7FFD8E24	PIOSGB_DFMBC
7FFD8E25	PIOSGB_DFMBSDK
7FFD8E26	PIOSGB_DFMBSMT
7FFD8E27	PIOSGB_DFMBSUR
7FFD8E28	PIOSGB_DFMFREL
7FFD8E29	PIOSGB_DFMFIDX
7FFD8E2A	PIOSGB_DFMFHSX
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_IAPFEXE
7FFE1E50	IACSGL_IMAGCTX
7FFE1E54	IACSGL_PROCCTX
7FFE1E58	IACSAI_VECADDR
7FFE1E68	IACSAI_VECOPCOD
7FFE1E6C	IACSAI_VECRESET
7FFE2000	CTLSA_PRCALLREG
7FFE7C00	CTLSAI_CLICALBK
7FFE7C08	CTLSAG_CLIMAGE
7FFE7C10	CTLSAG_CLIDATA
7FFE8000	MMGSIMGACTBUF
7FFE8000	CTLSA_DISPVEC
7FFE8400	MMGSIMGHDRBUF
7FFE8800	CTLSGL_KSTKBAS
7FFEAE00	CTLSGL_KPINI
7FFEDE00	P1SYSVECTORS

PSLSM\_TP VASM\_P1

PIOSGT\_DDSTRING

CTLSAI\_CMCNTX

CTLSGL\_IAPPERM

SYSSQIOW

Value	Symbol...
-----	-----
7FFEDE20	SYSSADJSTK
7FFEDE28	SYSSADJWSL
7FFEDE48	SYSSASCTIM
7FFEDE50	SYSSASSIGN
7FFEDE58	SYSSBINTIM
7FFEDE68	SYSSCANTIM
7FFEDE70	SYSSCANWAK
7FFEDE78	SYSSCRMP8C
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	SYSEXIT
7FFEDF48	SYSEXPRG
7FFEDF50	SYSSFAO
7FFEDF58	SYSSFAOL
7FFEDF60	SYSSFORCEX
7FFEDF88	SYSSHIBER
7FFEDF90	SYSSIMGACT
7FFEDFA8	SYSSMGBL8C
7FFEDFB8	SYSSNUMTIM
7FFEDFC8	SYSSQIO
7FFEDFD8	SYSSRESUME
7FFEDFE0	SYSSRUNDWN
7FFEE000	SYSSSETEF
7FFEE008	SYSSSETEXV
7FFEE030	SYSSSETPRT
7FFEE038	SYSSSETRWM
7FFEE040	SYSSSET9FM
7FFEE050	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_VECTORS
7FFEFE02	CTLSGL_CHINDX
7FFEFE04	CTLSGL_RMSPP
7FFEFE08	CTLSGL_RMSIP
7FFEFE10	CTLSAL_STACK
7FFEFE20	CTLSGL_LOGTBL
7FFEFE28	CTLSGL_CMSUPR
7FFEFE2C	CTLSGL_CMUSER
7FFEFE30	CTLSGL_CMHANDLR
7FFEFE34	CTLSAQ_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_FINALXC
7FFEFF38	CTLSGL_CCBBASE
7FFEFF3C	CTLSGO_DBGAREA

Value		Symbols...	
-----		-----	
7FFEFF44	CTLSGL_RMSBASE		
7FFEFF48	CTLSGL_PPMSG		
7FFEFF50	CTLSGB_MSGMASK		
7FFEFF51	CTLSGB_DEFLANG		
7FFEFF52	CTLSGW_PPMSGCHN		
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	FSLSM_CM	VASM_SYSTEM
80000010	SYSSCALL_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_OPTLIST		
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_FREEREQ
00001E04	R-SCHSGL_MFYLIM	
00001E0C	R-PFNSAL_LOLIMIT	R-SCHSGL_FREELIM
00001E10	R-SCHSGL_MFYLOLIM	
00001E18	R-SCHSGL_MFYLIMSV	
00001E1C	R-SCHSGL_MFYLOSV	
00001E20	R-PMSSGL_FAULTS	
00001E24	R-PMSSGL_PREADS	R-PMSSGL_RDFLT3
00001E28	R-PMSSGL_PREADIO	
00001E2C	R-PMSSGL_PWRITES	
00001E30	R-PMSSGL_PWRITIO	
00001E34	R-PMSSGL_DZROFLT3	
00001E38	R-PMSSAL_TRANSFLT	
00001E58	R-PMSSGL_DPTSCN	
00001E5C	R-PMSSGL_GVALID	
00001E60	R-MPWSAL_PTE	
00001E64	R-MPWSAL_PHVINDEK	
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	Symbol...
-----	-----
800020AC	R-SCHSGQ_PFWQ
800020B8	R-SCHSGQ_LEFWQ
800020C4	R-SCHSGQ_LEFOWQ
800020D0	R-SCHSGQ_HIBWQ
800020DC	R-SCHSGQ_HIBOWQ
800020E8	R-SCHSGQ_SUSP
800020F4	R-SCHSGQ_SUSPO
80002100	R-SCHSGQ_FPGWQ
8000210C	R-SCHSGQ_CURPCB
80002110	R-SCHSGQ_COMQS
80002114	R-SCHSGQ_COMOQS
80002118	R-SCHSGQ_SIP
80002119	R-SCHSGQ_RESCAN
8000211A	R-MMGSGB_FREWFLG8
8000211C	R-SCHSGW_PROCCNT
8000211E	R-SCHSGW_PROCLIM
80002120	R-SWPSGL_SLOTCNT
80002124	R-SCHSGQ_CEBHD
8000212C	R-SCHSGW_CEBCNT
8000212E	R-SCHSGW_DELPDCT
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-SCHSGQ_RESMASK
80002158	R-SCHSGB_PRI
8000215C	R-SWPSGL_SWTIME
80002160	R-MMGSGL_NULLPFL
80002164	R-MMGSGL_PAGSWPVC
80002168	R-MMGSGL_MAXPFIDX
8000216C	R-MMGSGW_MINPFIDX
80002190	R-EXESGL_PWRDONE
80002194	R-EXESGL_PWRINTVL
80002180	R-SWPSGW_BALCNT
80002182	R-SCHSGW_SWPFCNT
80002184	R-PHVSGL_PIXBAS
80002188	R-PHVSGL_REFCBAS
8000218C	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-SCHSGQ_NULLPCB
80002568	R-SCHSGQ_SWPPCB
800025C8	R-SCHSGQ_SWPPID

R-SGNSGW\_SWPFILCT

Value	Symbol...
-----	-----
00002600	R-MMGSAL_SYS PCB
000026A4	R-SCHSGL_PCBVEC
000026A8	R-SCHSGL_MAXPIX
000026AC	R-SCHSGL_SEQVEC
000026F0	R-EXESGL_FLAGS
000026F4	R-EXESGL_ERLMBX
000026FC	R-EXESGL_USRCHMK
00002700	R-EXESGL_USRCHME
00002708	R-SWISGL_FQFL
0000270C	R-SWISGL_FQBL
00002738	R-LOGSAL_LOGTBL
0000274C	R-LOGSAB_HTBLCNT
00002750	R-LOGSAL_MUTEX
00002758	R-EXESGL_SYSUCB
0000275C	R-FILSGT_DDDEV
0000276A	R-FILSGT_TOPSYS
00002774	R-FILSGQ_CACHE
0000277C	R-EXESGL_BOOTCB_D
00002780	R-EXESGL_BOOTCB
00002784	R-EXESGL_SAVEDUMP
00002788	R-IOCSGL_PSFL
0000278C	R-IOCSGL_PSSBL
00002790	R-IOCSGL_IRPFL
00002794	R-IOCSGL_IRPBL
00002798	R-IOCSGL_IRPREM
0000279C	R-IOCSGL_IRPCNT
000027A0	R-IOCSGL_IRPMIN
000027A4	R-IOCSGL_SRPFL
000027A8	R-IOCSGL_SRPBL
000027AC	R-IOCSGL_SRPSSIZE
000027B0	R-IOCSGL_SRPMIN
000027B4	R-IOCSGL_SRPSPPLIT
000027B8	R-IOCSGL_SRPREM
000027BC	R-IOCSGL_SRPCNT
000027C0	R-IOCSGL_LRPFL
000027C4	R-IOCSGL_LRPBL
000027C8	R-IOCSGL_LRPSSIZE
000027CC	R-IOCSGL_LRPMIN
000027D0	R-IOCSGL_LRPSPPLIT
000027D4	R-IOCSGL_LRPREM
000027D8	R-IOCSGL_LRPCNT
000027DC	R-IOCSGL_POOLFKB
000027F4	R-IOCSGL_PFKBINT
000027F8	R-IOCSGL_AQBLIST
000027FC	R-IOCSGL_MOUNTLST
00002804	R-IOCSGL_BRDCST
0000280C	R-IOCSGL_CRBTMOUT
00002810	R-EXESGL_GSDGRPFL
00002814	R-EXESGL_GSDGRPBL
00002818	R-EXESGL_GSDSYSFL
0000281C	R-EXESGL_GSDSYSBL
00002820	R-EXESGL_GSDFREFL

Value	Symbol...
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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_SYSWCBL
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-SYSSGL_IJOBNT
800028FA	R-SYSSGL_NJOBNT
800028FC	R-SYSSGL_BJOBNT
800028FE	R-EXESGL_SCANPIX
80002900	R-EXESGL_SYMSG
80002904	R-EXESGL_USRUNDWN
80002908	R-EXESGL_NONPAGED
80002914	R-EXESGL_SPLITADR
80002918	R-EXESGL_PAGED
80002920	R-RMSGL_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-IOCSGL_UBA_INT0
80002940	R-EXESGL_BLAKHOLE
80002944	R-IOCSGL_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...
-----	-----
00002960	R-LCK\$GL_MAXID
00002964	R-LCK\$GL_HASHTBL
00002968	R-LCK\$GL_HTBLCNT
0000296C	R-LCK\$GL_TIMEOUT
00002974	R-LCK\$GL_PRCMAP
00002978	R-LCK\$GB_MAXDEPTH
0000297C	R-EXE\$GL_SYSFLAGS
00002980	R-EXE\$GL_ACMFLAGS
00002984	R-EXE\$GL_SVAPTE
00002988	R-EXE\$GB_BLKHOLWG
00002D90	R-ERL\$AL_BUFADDR
00002D98	R-ERL\$GB_BUFIND
00002D99	R-ERL\$GB_BUFFLAG
00002D9A	R-ERL\$GB_BUFPTR
00002D9B	R-ERL\$GB_BUFTIM
00002D9C	R-ERL\$GL_ERLPID
00002DA0	R-ERL\$GL_SEQUENCE
00002DA4	R-PM\$GL_DIRIO
00002DA8	R-PM\$GL_BUFIO
00002DAC	R-PM\$GL_LOGNAM
00002DB0	R-PM\$GL_MBREADS
00002DB4	R-PM\$GL_MBWRITES
00002DB8	R-PM\$GL_TREADS
00002DBC	R-PM\$GL_TWRITES
00002DC0	R-PM\$GL_IOPFMPDS
00002DC4	R-PM\$GL_IOPFMSEQ
00002DC8	R-PM\$GL_ARRLOCPK
00002DCC	R-PM\$GL_DEPLOCPK
00002DD0	R-PM\$GL_ARRTRAPK
00002DD4	R-PM\$GL_TRCNGLOS
00002DD8	R-PM\$GL_RCVBUFFL
00002DDC	R-PM\$GL_ENQNEW
00002DE0	R-PM\$GL_ENQCVT
00002DE4	R-PM\$GL_DEQ
00002DE8	R-PM\$GL_ENQWAIT
00002DEC	R-PM\$GL_ENQNOTQD
00002DF0	R-PM\$GL_DLCKSRCH
00002DF4	R-PM\$GL_DLCKFND
00002DF8	R-PM\$GL_CHMK
00002DFC	R-PM\$GL_CHME
00002E00	R-PM\$GL_PAGES
00002E04	R-PM\$GW_BATCH
00002E08	R-PM\$GW_INTJOBS
00002E0B	R-PM\$AL_READTBL
00002E30	R-PM\$AL_WRITETBL
00002E58	R-PM\$GL_READCNT
00002E5C	R-PM\$GL_WRTCNT
00002E60	R-PM\$GL_PASSALL
00002E64	R-PM\$GL_RWP
00002E68	R-PM\$GL_LRGRWP
00002E6C	R-PM\$GL_RWPSUM
00002E70	R-PM\$GL_NOSTDTRM

Value		Symbols...
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80002E74	R-PMSSGL_RWPNOSTD	
80002E78	R-PMSSGL_LDPCTX	
80002E7C	R-PMSSGL_SWITCH	
80002E80	R-PMSSGB_PROMPT	
80002E84	R-PMSSGL_DOSTATS	
80002E88	R-EXESAL_LOAVEC	R-EXESMCHK
80002E90	R-EXESINT54	
80002E98	R-EXESINT58	
80002EA0	R-EXESINT5C	
80002EA8	R-EXESINT60	
80002EB0	R-UBASINT0	
80002EB8	R-UBASUNEXINT	
80002EBE	R-ECCSCREENABLE	
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	R-SCSSAL_LOAVEC
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	

Value	Symbol...
80002FA4	R-SCSSLKP_RDTCDRP
80002FAA	R-SCSSLKP_RDTWAIT
80002FB0	R-PATSA_NONPGD_DATA
80003200	R-EXESA_SYSPARAM
80003208	R-EXESGL_TODR
8000320C	R-SGNSGW_DFPFC
8000320E	R-SGNSGB_PGTBPFC
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_SYSDWSCNT
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-MPWSAW_INITVAL
80003280	R-MPWSGW_HILIM
80003282	R-MPWSGW_LOLIM
80003284	R-MPWSGB_PRIO
80003285	R-SWPSGB_PRIO
80003288	R-MPWSGL_THRESH
8000328C	R-MPWSGL_WAITLIM
80003290	R-SGNSGW_NSLMXSKP
80003294	R-MMGSGL_PHYPGCNT
80003298	R-SCHSGL_PFRATL

R-EXESGQ\_TODCBASE

R-MMGSA\_SYSPARAM

R-MPWSGW\_MPWPFPC

Value	Symbol...
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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_IDTBL8IZ
8000332C	R-LCKSGL_HTBL8IZ
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...
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8000334C	R-SCSSGW_PAPPDDG
8000334E	R-SCSSGB_PANPOLL
80003350	R-SCSSGW_PAPOLINT
80003352	R-SCSSGW_PAPOOLIN
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_OWNUIC
80003390	R-TTYSGW_CLASSNAM
80003392	R-TTYSGB_SILOTIME
80003393	R-SYSSGB_DFMBC
80003394	R-SYSSGB_DFM8FSDK
80003395	R-SYSSGB_DFM8FSMT
80003396	R-SYSSGB_DFM8FSUR
80003397	R-SYSSGB_DFM8FREL
80003398	R-SYSSGB_DFM8FIDX
80003399	R-SYSSGB_DFM8FHSH
8000339A	R-SYSSGB_RMSPROLOG
8000339C	R-PQLSAL_DEFAULT
8000339E	R-SYSSGW_FILEPROT
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-SYSSGW_RMSEXTEND
	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_EMPTYTE
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_PHDLCNT
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

Value	Symbol...			
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00003484	R-MMGSGL_MAXGPTE			
00003488	R-MMGSGL_FRESVA	R-MMGSGL_MAXSYSVA		
0000348C	R-MMGSGL_SPTBASE			
00003490	R-MMGSGL_SPTLEN			
00003494	R-MMGSGL_SYSPHD			
00003498	R-MMGSGL_SYSPHDLN			
0000349C	R-SWPSGL_BALBASE			
000034A0	R-SWPSGL_BALSPT			
000034A4	R-MMGSGL_SBR			
000034A8	R-MMGSGL_NPAGEDYN			
000034AC	R-MMGSGL_NPAGNEXT			
000034B0	R-MMGSGL_IRPNEXT			
000034B4	R-MMGSGL_LRPNEXT			
000034B8	R-MMGSGL_SRPNEXT			
000034BC	R-MMGSGL_PAGEDYN			
000034C0	R-MMGSGL_MAXPFN			
000034C2	R-MMGSGW_BIGPFN			
000034C4	R-MMGSGL_MINPFN			
000034C8	R-EXESGL_RPB			
000034CC	R-BOOSGL_SPTFREL			
000034D0	R-BOOSGL_SPTFRELH			
000034D4	R-EXESGL_SCB			
000034D8	R-EXESGB_CPUDATA			
000034E8	R-EXESGB_CPUATYPE			
000034E9	R-PFNSGB_LENGTH			
000034EA	R-EXESGW_PGFL_FID			
000034F0	R-PFNSAL_PTE	R-PFNSA_BASE		
000034F4	R-PFNSAL_BAK			
000034F8	R-PFNSAW_REFCNT			
000034FC	R-PFNSAX_FLINK	R-PFNSAX_SHRCNT		
00003500	R-PFNSAX_BLINK	R-PFNSAX_WSLX		
00003504	R-PFNSAW_SWPVBN			
00003508	R-PFNSAB_STATE			
0000350C	R-PFNSAB_TYPE			
00003510	R-EXESGT_STARTUP			
00003530	R-MMGSGL_PGDCOD	R-PATSGL_EXP_NPG2		
00003600	R-EXESRESTART	R-MMGSFRSTRONLY		
000037B4	R-EXESINIT_DEVICE			
00003802	R-EXESPWRTIMCHK			
000038A9	R-EXESBUG_CHECK			
0000397A	R-MPHSBUGCHKHK			
00003A0C	R-EXESBOOTCB_CHK			
00003A27	R-PMSSEND_IO			
00003A47	R-PMSSEND_RQ			
00003A75	R-PMSSTART_IO			
00003A98	R-PMSSTART_RQ			
00003B74	R-EXESAB_HEXTAB			
00003B84	R-ERLSVEC256	R-ERLSVEC320	R-ERLSVEC384	R-ERLSVEC448
00003B88	R-ERLSVEC260	R-ERLSVEC324	R-ERLSVEC388	R-ERLSVEC452
00003B8C	R-ERLSVEC264	R-ERLSVEC328	R-ERLSVEC392	R-ERLSVEC456
00003B90	R-ERLSVEC268	R-ERLSVEC332	R-ERLSVEC396	R-ERLSVEC460
00003B94	R-ERLSVEC272	R-ERLSVEC336	R-ERLSVEC400	R-ERLSVEC464

Value

Symbol...

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80003898  
8000389C  
800038A0  
800038A4  
800038A8  
800038AC  
800038B0  
800038B4  
800038B8  
800038BC  
800038C0  
800038C4

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-EXESOPCOEC  
R-EXESPAGRDERR  
R-EXESRADRMOD  
R-EXESROPRAND  
R-EXESTBIT  
R-EXESSFAIL  
R-EXESECEPTION  
R-EXESMCHK\_PRTCT  
R-EXESMCHK\_BUGCHK  
R-EXESMCHK\_TEST  
R-INISMASTERWAKE  
R-IOCSIOPOST  
R-IOCSQNXNSEG  
R-IOCSQNXNSEG1  
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-ERLSVEC244  
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  
80003E40  
80003E68  
80003E74  
80004242  
8000424E  
800042A5  
80004480  
80004408



Value	Symbol
-----	-----
80005078	R-MMGSPAGEFAULT
80005376	R-MMGSSVPCTX
800053A4	R-MMG\$RESRCWAIT
800053BF	R-MMG\$PGFLTWAIT
800057A4	R-MMG\$W8LEPFN
80005868	R-MMG\$FREWSLE
800058FF	R-MMG\$FREWSLX
80005924	R-MPH\$INVALIDHK
8000592C	R-MMG\$FRE_TRYSKIP
800059EF	R-MMG\$DELWSLEX
80005A13	R-MMG\$DELWSLEPPG
80005A39	R-MMG\$ININWPFN
80005A78	R-MMG\$MAKWSLE
80005ADF	R-MMG\$LOCKPGB
80005AES	R-MMG\$INCPTRF
80005B23	R-MMG\$DECPTRF
80005B8A	R-MMG\$DECPHDREF
80005B8E	R-MMG\$DECPHDREF1
80005B99	R-MMG\$INIBLDPKT
80005BEB	R-MMG\$ALLOCPFN
80005C00	R-MMG\$DELCONPFN
80005C02	R-MMG\$REMPFNH
80005C8D	R-MMG\$REMPFN
80005CE4	R-MMG\$RLPFNSAVPTE
80005CF9	R-MMG\$DELPFNLS
80005D01	R-MMG\$RELPFN
80005D48	R-MMG\$DALCBAKSTORE
80005D73	R-MMG\$INSPFNH
80005DAF	R-MMG\$DALLOCPFN
80005DB1	R-MMG\$INSPFNT
80005E35	R-MMG\$IOLOCK
80005F34	R-MMG\$IOLOCKPAG
80006051	R-MMG\$UNLOCK
800060A4	R-MMG\$REFCNTNEG
800060A8	R-MMG\$SHRCNTNEG
800060AC	R-MMG\$ALLOCSWPAREA
800060E4	R-MMG\$ALLOCPAGFIL1
8000624D	R-MMG\$ALLOCPAGFIL2
800062D8	R-MMG\$DALCPAGFIL
800062E1	R-MMG\$DEALLOCPAGFIL
800063CC	R-MMG\$CALCSWAPSIZE
80006402	R-MMG\$SUBSECF
8000640F	R-MMG\$DECFSECF
800064E7	R-MMG\$SVAPTECHK
80006500	R-MMG\$PTEADRCHK
80006509	R-MMG\$PTEREF
80006518	R-MMG\$PTEINDXCHK
80006521	R-MMG\$PTEINDX
80006668	R-MMG\$WRMFPYAG
800069A2	R-MMG\$SHRINKWS
80006A01	R-MMG\$EXTRADYNWS
80006AB8	R-MMG\$DELPAG

Value

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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-MMGSPURGHSSCN  
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-SCHSOSWPSCHED  
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

Symbols...

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R-EXESINSTIMQ

Value	Symbol...
-----	-----
00000330	R-EXESREADCHKR
00000396	R-EXESWRITECHKR
000003E7	R-EXESSETCHAR
00000405	R-EXESSETMODE
00000410	R-EXESSENSEMODE
00000443	R-EXESCARRIAGE
00000400	R-EXESSCHDWK
000004ED	R-EXESSETIMR
00000624	R-EXESQIO
0000087E	R-EXESBLDPKTGSR
00000806	R-EXESBLDPKTGSW
0000088E	R-EXESBLDPKTSWPR
00000896	R-EXESBLDPKTSWPW
0000089E	R-EXESBUILDPKTW
000008A6	R-EXESBUILDPKTR
000008FD	R-EXESABORTIO
0000090A	R-EXESFINISHIOC
0000090C	R-EXESFINISHIO
00000920	R-EXESQIODRVPKT
00000924	R-EXESALTQUEPKT
00000936	R-EXESQIOACPPKT
00000950	R-EXESQIORETURN
00000957	R-EXESINSIOQ
00000972	R-EXESINSERTIRP
00000909	R-EXESSETPRI
00000A00	R-MTSCHECK_ACCESS
00000A2C	R-SCHSASTDEL
00000A40	R-MPHSASTDELHK
00000A46	R-MPHSASTDELCONT
00000A5A	R-MPHSQEMPTYCONT
00000AF7	R-EXESASTDEL
00000AFA	R-EXESASTRET
00000BC3	R-EXESIPAPBKAST
00000BE8	R-MPHSQAST
00000C86	R-SCHSQAST
00000CA9	R-MPHSNEWLVL
00000CBA	R-MPHSNEWLVLHK
00000CBA	R-SCHSSWAPACBS
00000CBD	R-SCHSREMOVACB
00000CC4	R-EXESIOFORK
00000CC8	R-EXESFORK
00000CE4	R-EXESFRKIPL6DSP
00000CF0	R-EXESFRKIPL9DSP
00000CFC	R-EXESFRKIPL10DSP
00000D00	R-EXESFRKIPL11DSP
00000D14	R-EXESFRKIPL8DSP
00000D1C	R-EXESFORKDSPTH
00000D40	R-EXESHCLKINT
00000DA0	R-EXESWTIMINT
00000E69	R-EXESTIMEOUT
00000F9D	R-SCHSRSE
00000FEA	R-SCHSUNWAIT
0000901C	R-SCHSCHSE

Value	Symbols...
-----	-----
80009038	R-SCHSCHSEP
800090AE	R-SCHSGEND
80009108	R-SCHSFORCEEXIT
80009200	R-SCHSWAKE
80009225	R-SCHSSWPWAKE
80009288	R-SWPSGL_SHELIO
8000928C	R-EXESBUFFRQUOTA
80009298	R-EXESBUFQUOPRC
800092AD	R-EXESSNGLEQUOTA
800092B0	R-EXESMULTIQUOTA
800092E4	R-EXESPROBER
8000932D	R-EXESPROBEW
8000936E	R-EXESALLOCBUF
80009372	R-EXESALLOCCEB
80009378	R-EXESALLOCJIB
80009384	R-EXESALLOCIRP
8000938C	R-EXESALLOCPCB
80009394	R-EXESALLOCPCB
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-SCHSLOCKWNOWAIT
800097E1	R-SCHSIOLOCKW
800097E8	R-SCHSLOCKW
800097FB	R-SCHSIOLOCKR
80009802	R-SCHSLOCKR
80009858	R-SCHSRAVAIL
80009869	R-SCHSIOUNLOCK
80009870	R-SCHSUNLOCK
800098DD	R-SCHSPOSTEF
800099C4	R-EXESCHKWAIT2
80009A40	R-EXESPROCSTRT
80009A54	R-MPH\$RESCHED
80009A74	R-MPH\$SCHED
80009ACB	R-EXES\$SHM_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-SCHSWAITM
0000A32C	R-LCKSSSEARCHDLCK
0000A540	R-LCKSCOMPAT_TBL
0000A8A5	R-LCKSREGRANTLOCK
0000A8B9	R-LCKSGRANTCVTS
0000AAF1	R-LCKSGRANTWTRS
0000AB54	R-LCKSDEQLOCK
0000AC98	R-IOCSGETBYTE
0000ACA9	R-IOCSPUTBYTE
0000ACBA	R-IOCSINITBUFIND
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
0000AEF3	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

Value	Symbol...
-----	-----
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-IOCSWFIKPCB
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-IOCSUPDATRANSF
8000B86A	R-IOCSSENSEDISK
8000B875	R-IOCSLOADMBAMAP
8000B88F	R-IOCSLOADUBAMAPA
8000B8D6	R-IOCSLOADUBAMAP
8000B949	R-IOCSPTETOPFN
8000B95D	R-IOCSLOADUBAMAPN
8000B99C	R-IOCSLUBAUDAMAP
8000BA2D	R-EXESMOUNTVER
8000BD70	R-EXESIPCONTROL
8000BF89	R-COMSDDELATTNAST
8000BFEC	R-COMSFUSHATTNS
8000C01F	R-COMSP0ST
8000C02D	R-COMSDRVDEALMEM
8000C056	R-COMSDSETATTNAST
8000C0C3	R-COMSDDELCTRLAST
8000C147	R-COMSFUSHCTRLS
8000C194	R-COMSDSETCTRLAST
8000C3FC	R-INISBRK
8000C3FE	R-INISWRITABLE
8000C405	R-INISRONLY
8000C452	R-PATSA_NONPGD_CODE
8000CE00	R-EXESEXCPTNE
8000CE30	R-EXESCMODEXEX
	R-PAT\$GL_EXP_NPG1

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-EXESIMGFIX
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-LOGSTRNSLOGNAME
0000D912	R-LOGSTRNSLATE
0000D9A2	R-MMGSIMGRESET
0000DAB8	R-MMGSDALCSTXSCN1
0000DABF	R-MMGSDALCSTXSCN
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-EXESDELTVA
8000E74A	R-MMGSCREPAG
8000E92C	R-EXESCREPRC
8000EECA	R-EXESCRMPSC
8000EECF	R-EXESMGBLSC
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-MMGS0GBLSCI
8000FA0C	R-EXES0GBLSC
8000FB19	R-MMGS68DSCN
8000FC03	R-MMGSDELGBLWCB
8000FC98	R-EXESFAO
8000FCA5	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-EXESSET8FM
80010C41	R-EXESSET8WM
80010C61	R-EXESSETPRA
80010C95	R-EXESPOWERAST
80010D06	R-EXESSETPRT
80010D47	R-EXESNDACC
80010D5A	R-EXESND8MB
80010D6D	R-EXESNDOPR
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-MMGSCEFTRNLOG
00011462	R-MMGSMBXTRNLOG
0001146B	R-MMGSGSDTRNLOG
00011614	R-MMGSWRITE_GSD
0001161D	R-MMGSREAD_GSD
000117DB	R-MMGSFINDGSDNOTRN
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-EXESEDEQ
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-EXESXPANDSTK
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
80013B63	R=EXESCLOSE_MSG
80013BF4	R=PATSA_PAGED_CODE
80014AEB	R=MMGSRET_BYT_QUOTA
80015284	R=IACSFIXUP_IAF
800152C3	R=IACSSRCH_SHL_C
800152CF	R=IACSSRCH_SHL_D
80015383	R=IACSFIXUP_ADDR
80015459	R=IACSPRVSHRING
80015497	R=IACSRESET_IAF
800166D7	R=EXESIMGSTA
8001688E	R=EXESIMGPURMSG
80016897	R=EXESIMGDELMG
8001699E	R=EXESPRCPURMSG
800169A7	R=EXESPRCDELMG
80016B8E	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
800176B9	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
80019588	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=INISIOMAP
	R=BOOSGL_DSKDRV
	R=EXESA_BOOPARAM

Value	Symbols...
-----	-----
0001C000	R-B003GL_SYSLOA
0001C004	R-B003GL_TRMDRV
0001C008	R-B003GL_INILOA
0001C090	R-B003GL_NPAGEDYN
0001C094	R-B003GL_SPLITADR
0001C098	R-B003GL_IRPCNT
0001C09C	R-B003GL_LRPSize
0001C0A0	R-B003GL_LRPMIN
0001C0A4	R-B003GL_LRPSPLIT
0001C0A8	R-B003GL_LRPCNT
0001C0AC	R-B003GL_SRPSPIT
0001C0B0	R-B003GL_SRPCNT
0001C0B4	R-B003GL_FILCACHE
0001C0BC	R-B003GL_BOOTCB
0001C0C0	R-B003GT_TOPSYS
0001C0CA	R-B003GB_SYSTEMID
0001C0D0	R-B003GL_PRTDRV
0001C0D4	R-B003GL_UCODE
0001C0D8	R-B003GL_SCSLOA
0001C0DC	R-SYSSGT_ANNOUNCE
0001C110	R-IOCSINITDRV
0001C11E	R-IOCSREINITDRV
0001C1B9	R-IOCSRELOC_DDT
0001C200	R-BUGSA_PAGED
0001C734	R-EXESOUTHEX
0001C74E	R-EXESOUTBLANK
0001C753	R-EXESOUTCHAR
0001C7AE	R-EXESOUTCRLF
0001C7B8	R-EXESOUTCSTRING
0001C7BD	R-EXESOUTZSTRING
0001C7CC	R-BUGST_MESSAGES
0001E9C8	R-BUGSA_PAGEDEND
0001EA00	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 !
+-----+

Table with 4 columns: Performance Indicators, Page Faults, CPU Time, Elapsed Time. Rows include Command processing, Pass 1, Allocation/Relocation, Pass 2, Map data after object module synopsis, Symbol table output, and Total run values.

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,PMSDAT,SHELL,SDAT,SYSCOMMON,SYSLOAVEC,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,IOCIOPST,IOLOCK,-
IOSUBNPAG,IOSUBPAGD,IOSUBRAMS,LOADMREG,LOGNAMSUB,MEMORYALC,MOUNTVER,-
IPCNTROL,MUTEX,NULLPROC,OSWPSCHED,PAGEFAULT,PAGEFILE,PHDUTL,POSTEF,-
POWERFAIL,PROCSTRT,RMSRESET,RSE,SCHED,SVAPTE,SWAPPER,-
SYSPARAM,TIMESCHDL,WRTMFYPAG),-
RESOBJ$DELTA/INCLUDE:XDDELTA,-
RESOBJ$SDA/INCLUDE:(LIB$INS_DECODE,LIB$VAX_INST),-
LIB$SYS/INCLUDE:(SYSADJWSL,SYSADJSTK,SYSACPFDT,-
SYSASCEFC,SYSASSIGN,SYSASTCON,SYSBRDCST,SYSCANCEL,SYSCANEVT,SYSCHGMOD,-
SYSCREDEL,SYSREPRC,SYSRMPSC,SYSVRTIM,SYSDASSGN,SYSDCLCMH,SYSDCLEXH,-
SYSDELPRC,SYSERLMB,SYSDEVALC,SYSDGBLSC,SYSENQDEQ,SYSVTSRV,-
SYSEXIT,SYSFAO,SYSFORCEX,SYSGETDEV,SYSGETMSG,-
SYSGETJPI,SYSGETPTI,SYSGETSYI,SYSGETTIM,-
SYSIMGACT,SYSIMGSTA,SYSLKWSET,SYSLOGNAM,SYSMAILBX,SYSPCNTRL,-
SYSPURGWS,SYSPUTMSG,OPENMSG,SYSQIOFDT,SYSRUNDWN,SYSSCHEVT,-
SYSQIOREQ,SYSSETEXV,SYSSETMOD,SYSSETPFM,SYSSETPRA,SYSSETPRI,SYSSETPRT,-
SYSSETPRV,SYSSETSSF,SYSSETSTK,SYSSENDMSG,SYSUNWIND,SYSUPDSEC,-
SYSWAIT,SYSSETIME,-
SHMGSDRTN,DRINTHAND,MBAINTDSP,MBDRIVER,NLDRIVER,-
MTFDT,CONINTDSP,COMDRVSUB,MAHANDLER),-
RESOBJ$DELTA/INCLUDE:XDSTRING,-
LIB$SYS/INCLUDE:(VERSION,-
DEVICEDAT,-
MDAT_END)

```

! Last module linked into SYS.EXE