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SSSSSSSS YY YY SSSSSSSS CCCCCCCC 000000 MM MM MM MM 000000 NN NN
SSSSSSSS YY YY SSSSSSSS CCCCCCCC 000000 MM MM MM MM 000000 NN NN
SS SS YY YY SS SSSSSSSS CC CCCCCCCC 00 00 M M M M 00 00 NN NN
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(1) 271

SYSCOMMON

```

0000 1      .TITLE  SYSCOMMON DATA BASES
0000 2      .IDENT  'V04-000'
0000 3
0000 4      *****
0000 5      *
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0000 22     *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 23     *
0000 24     *
0000 25     *****
0000 26
0000 27     ++
0000 28     SYSTEM COMMON DATA BASES
0000 29     --
0000 30
0000 31
0000 32     AUTHOR: R. HEINEN 9-AUG-76
0000 33
0000 34     MODIFIED BY:
0000 35
0000 36     V03-049 WMC0049      Wayne Cardoza      28-Aug-1984
0000 37     New cells for tracking accvio hardware bug on 780.
0000 38
0000 39     V03-048 WMC0048      Wayne Cardoza      26-Aug-1984
0000 40     Text change to pool message.
0000 41
0000 42     V03-047 WMC0047      Wayne Cardoza      23-Aug-1984
0000 43     Add data area for 'unable to expand pool' message
0000 44
0000 45     V03-046 ACG0438      Andrew C. Goldstein,  20-Jul-1984 15:49
0000 46     Add cell for the file cache server process entry point
0000 47
0000 48     V03-045 ROW0386      Ralph O. Weber        7-JUL-1984
0000 49     Add IOCSGL_HIRT, a pointer the the Host Initiated Replacement
0000 50     Table, and IOCSGL_SHDW_WRK, a pointer to the shadowing work
0000 51     area.
0000 52
0000 53     V03-044 RAS0317      Ron Schaefer        27-Jun-1984
0000 54     Add cell for the logical name system directory sequence number.
0000 55
0000 56     V03-043 MSH0054      Michael S. Harvey     30-May-1984
0000 57     Remove cells related to obsolete known file database design.

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- V03-042 TMK0001 Todd M. Katz 27-Apr-1984
Cleanup the logical name portion of the system common data base
as follows:
1. Remove the data definition for \$LOGDEF.
 2. Remove the logical name table address table and the logical
name table variables that were utilized only under the old
logical name design.
 3. Under the old logical name design there were two logical name
mutexes, one for the group name table and the other for the
system name table. Under the new logical name design only a
single mutex is required. Eliminate the unnecessary mutex and
change the name of the remaining mutex from LOG\$AL_MUTEX to
LNMSAL_MUTEX.
- V03-041 JEJ0012 J E Johnson 25-Mar-1984
Add exec mode writable cell for global buffer quota count.
- V03-040 ACG0413 Andrew C. Goldstein, 22-Mar-1984 18:48
Add cell for PID of file server process; remove CIA\$GL_SUSPECT
- V03-039 SRB0117 Steve Beckhardt 17-Mar-1984
Added yet another cell for distributed deadlock detection:
LCK\$GQ_BITMAP_EXPLCL (local expiration time).
Also added LCR\$GB_REBLD_STATE (was in REBLDLOCK).
- V03-038 LMP0205 L. Mark Pilant, 7-Mar-1984 11:21
Move EXE\$GL_DYNAMIC_FLAGS and EXE\$GL_STATIC_FLAGS to
SYSPARAM.
- V03-037 SRB0114 Steve Beckhardt 22-Feb-1984
Added cell LCK\$GQ_BITMAP_EXP to hold the distributed
deadlock detection bitmap expiration timestamp. Also
deleted LCK\$GL_DIRSYSID and LCK\$GL_RQSEQNM and other
cells that are no longer used.
- V03-036 LMP0190 L. Mark Pilant, 6-Feb-1984 9:09
Add a mutex for synchronizing ACL modifications.
- V03-035 LJK0260 Lawrence J. Kenah 5-Feb-1984
Add hooks for exception handling by instruction emulators.
- V03-034 RSH0098 R. Scott Hanna 03-Feb-1984
Change the allocation size symbol for the security alarm
and journal vectors from NSASS_EVT to NSASK_EVT_LENGTH.
- V03-033 MSH0004 Michael S. Harvey 1-Feb-1984
Now that local memory and PFN-mapped GSDs are variable
length, remove the GSD lookaside list.
- V03-032 WMC0002 Wayne Cardoza 27-Jan-1984
New field for size of XQP DZRO.
- V03-031 LJK0257 LAWRENCE J. KENAH 28-DEC-1983
Add listhead for PQB lookaside list.

0000	115	:	V03-030	LMP0177	L. Mark Pilant,	7-Dec-1983	11:19
0000	116	:		Add three new longwords to (eventually) replace			
0000	117	:		EXESGL_FLAGS. They are:			
0000	118	:		EXESGL_DYNAMIC_FLAGS - Dynamic (SYSGEN) flags			
0000	119	:		EXESGL_STATIC_FLAGS - Static (SYSGEN) flags			
0000	120	:		EXESGL_STATE_FLAGS - State of the system flags			
0000	121	:					
0000	122	:	V03-029	SRB0105	Steve Beckhardt	11-Nov-1983	
0000	123	:		Added LCK\$GB_HTBLSHFT and LCK\$GL_DIRVEC.			
0000	124	:					
0000	125	:	V03-028	GAS0180	Gerry Smith	12-Sep-1983	
0000	126	:		Make a mutex for the CIA blocks.			
0000	127	:					
0000	128	:	V03-027	GAS0177	Gerry Smith	1-Sep-1983	
0000	129	:		Make the CIA listheads global. It's been a long week...			
0000	130	:					
0000	131	:	V03-026	ROW0199	Ralph O. Weber	29-JUL-1983	
0000	132	:		Add listheads for singly linked CDDB lists, one each for disk			
0000	133	:		class driver CDDBs and tape class driver CDDBs.			
0000	134	:					
0000	135	:	V03-025	GAS0151	Gerry Smith	6-Jul-1983	
0000	136	:		Add listheads for the Compound Intrusion Analysis			
0000	137	:		queues, lists of suspected and known intruders.			
0000	138	:		Also change the default for LCK\$GB_STALLREQS to -1			
0000	139	:		for Steve B.			
0000	140	:					
0000	141	:	V03-024	LJK0212	Lawrence J. Kenah	23-Jun-1983	
0000	142	:		Add cell called EXESGL_KNOWN_FILES as listhead for new			
0000	143	:		known file lists. Change lock name for known files.			
0000	144	:					
0000	145	:	V03-023	GAS0139	Gerry Smith	21-Jun-1983	
0000	146	:		Add the system password.			
0000	147	:					
0000	148	:	V03-022	RSH0036	R. Scott Hanna	16-Jun-1983	
0000	149	:		Add comment stating that the security auditing journal			
0000	150	:		and alarm vectors must remain contiguous and in the			
0000	151	:		current order.			
0000	152	:					
0000	153	:	V03-021	LJK0207	Lawrence J. Kenah	26-May-1983	
0000	154	:		Add cell for known file data base lock name and lock ID			
0000	155	:		of system owned lock for the system ID.			
0000	156	:					
0000	157	:	V03-020	WMC0002	Wayne Cardoza	19-May-1983	
0000	158	:		Add fields to control XQP merge.			
0000	159	:		Correct rights list for ACG.			
0000	160	:					
0000	161	:	V03-019	KDM0044	Kathleen D. Morse	03-May-1983	
0000	162	:		Move EXESGL_ARCHFLAGS to SYSPARAM and truncate name to			
0000	163	:		fifteen characters.			
0000	164	:					
0000	165	:	V03-018	RSH0015	R. Scott Hanna	29-Apr-1983	
0000	166	:		Increased size and renamed the security auditing journal			
0000	167	:		and alarm vectors.			
0000	168	:					
0000	169	:	V03-017	KDM0042	Kathleen D. Morse	27-Apr-1983	
0000	170	:		Added EXESGL_ARCHFLAGS.			
0000	171	:					

0000	172	:	V03-016	SRB0079	Steve Beckhardt	26-Apr-1983
0000	173	:		Changed name to cell LCK\$GL_DIRSYSUSB to LCK\$GL_DIRSUSCID.		
0000	174	:				
0000	175	:	V03-015	ROW0176	Ralph O. Weber	4-APR-1983
0000	176	:		Add listhead for fork-and-wait executive service work queue.		
0000	177	:		EXESGL_FKWAITFL and EXESGL_FKWAITBL.		
0000	178	:				
0000	179	:	V03-014	RSH0010	R. Scott Hanna	12-Mar-1983
0000	180	:		Added NSASGQ_AUDITVEC and NSASGQ_ALARMVEC		
0000	181	:				
0000	182	:	V03-013	SRB0069	Steve Beckhardt	9-Mar-1983
0000	183	:		Added cell LCK\$GL_RQSEQNM.		
0000	184	:				
0000	185	:	V03-012	ACG0318	Andrew C. Goldstein,	8-Mar-1983 19:42
0000	186	:		Add listhead for system rights list (EXESGQ_RIGHTSLIST)		
0000	187	:				
0000	188	:	V03-011	WMC0001	Wayne Cardoza	08-Mar-1983
0000	189	:		Add EXESGQ_BOOTTIME		
0000	190	:				
0000	191	:	V03-010	SRB0065	Steve Beckhardt	21-Jan-1983
0000	192	:		Added cell LCK\$GB_STALLREQS		
0000	193	:				
0000	194	:	V03-009	STJ3050	Steven T. Jeffreys	10-Jan-1983
0000	195	:		Added support for erase qio. This includes the longword		
0000	196	:		pointers EXESGL_ERASEPB and EXESGL_ERASEPPT.		
0000	197	:				
0000	198	:	V03-008	DMW4021	DMWalp	30-Dec-1983
0000	199	:		Added logical name system directory		
0000	200	:				
0000	201	:	V03-007	SRB0057	Steve Beckhardt	15-Dec-1982
0000	202	:		Added cell LCK\$GL_DIRSUSUSB for distributed lock manager.		
0000	203	:				
0000	204	:	V03-006	DMW4007	DMWalp	12-Nov-1982
0000	205	:		Added definitions for new logical name structure.		
0000	206	:				
0000	207	:	V03-005	TCM0001	Trudy C. Matthews	12-Oct-1982
0000	208	:		Add global symbol EXESGL_UBDELAY, which is the number of		
0000	209	:		times to execute a SOBGTR loop in order to delay 3 usec.		
0000	210	:		Used by the TIMEWAIT macro.		
0000	211	:				
0000	212	:	V03-004	PHL0101	Peter H. Lipman	21-Jun-1982
0000	213	:		Add global symbol definition for EXESC_SYSEFN, the		
0000	214	:		common system event flag used by various system		
0000	215	:		invocations of system services.		
0000	216	:				
0000	217	:	V03-003	PHL0042	Peter H. Lipman	02-Apr-1982
0000	218	:		Add EXESGQ_BOOTCB_D cell in front of EXESGL_BOOTCB		
0000	219	:		forming a descriptor for the portion of the Boot Control		
0000	220	:		Block to be checksummed.		
0000	221	:				
0000	222	:	V03-002	ROW0074	Ralph O. Weber	26-MAR-1982
0000	223	:		Enhance the infinite-due-time IQE, already used to mark the		
0000	224	:		end of the IQE queue, to be a canonical IQE with the repeat		
0000	225	:		bit off (IQSV REPEAT). Give this enhanced block a global		
0000	226	:		name, EXESAL_IQENOREPT, which routines not desiring to repeat		
0000	227	:		a timer call can use to place the address of the canonical IQE		
0000	228	:		in R5 before returning EXESWTIMINT thus ensuring no repeating		

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0000 229 : of the timer call.
0000 230 :
0000 231 : V03-001 PHL0040 Peter H. Lipman 21-Mar-1982
0000 232 : Add EXESGL_SAVEDUMP to record the number of blocks
0000 233 : of dump file saved in the page file. This is the
0000 234 : number of blocks to be released to the page file
0000 235 : when the dump has been saved/analyzed.
0000 236 :
0000 237 :
0000 238 : MACRO LIBRARY CALLS
0000 239 :
0000 240 : $ACMDEF ; DEFINE ACCOUNTING MANAGER OFFSETS
0000 241 : $CADEF ; DEFINE CONDITIONAL ASSEMBLY PARAMETERS
0000 242 : $DYNDEF ; DEFINE DATA STRUCTURE CODES
0000 243 : $FKBDEF ; DEFINE FORK BLOCK OFFSETS
0000 244 : $IPLDEF ; DEFINE INTERRUPT PRIORITIES
0000 245 : $IRPDEF ; DEFINE IO REQUEST PACKET STRUCTURE
0000 246 : $NSAEVTDEF ; DEFINE SECURITY AUDITING EVENT VECTOR
0000 247 : $SGNDEF ; DEFINE SYSGEN VALUES
0000 248 : $TQEDEF ; DEFINE TQE OFFSETS
0000 249 : $TTYDEF ; TWP
0000 250 : $WCBDEF ; DEFINE WCB OFFSETS
0000 251 :
0000 252 :
0000 253 : MACRO DEFINITIONS:
0000 254 :
0000 255 :
0000 256 : .MACRO TIME
0000 257 : .LONG 0 ;
0000 258 : .LONG ^X859034 ; HIGH ORDER BITS OF TIME
0000 259 : .ENDM TIME
0000 260 :
0000 261 : EQUATED SYMBOLS:
0000 262 :
0000 263 : THE SYSTEM EVENT FLAG IS USED BY VARIOUS SYSTEM ROUTINES THAT NEED AN
0000 264 : EVENT FLAG TO CALL A SYSTEM SERVICE. IN ALL CASES THE SPURIOUS SETTING
0000 265 : OF THIS EVENT FLAG WILL NOT DISRUPT THE PROPER EXECUTION OF THE GIVEN
0000 266 : ROUTINE SINCE THE IOSB WILL ACTUALLY DETERMINE THAT THE SERVICE HAS COMPLETED
0000 267 :
000001F 0000 268 : EXESC_SYSEFN == 31 ; COMMON SYSTEM EVENT FLAG
0000 269 :

```



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0000 271      .SBTTL  SYSCOMMON
0000 272
00000000 273      .PSECT  $$$260,QUAD,WRT
0000 274      :+
0000 275      : SYSTEM COMMON DATA BASES
0000 276      :
0000 277      : SYSTEM FLAGS LONG WORD
0000 278      :
0000 279      : NOTE: THE ACTUAL DEFAULT SETTING FOR EXESGL FLAGS IS IN SYSPARAM IN
0000 280      : CELL EXESGL DEFFLAGS AND IS COPIED INTO THE WORKING LOCATION,
0000 281      : EXESGL_FLAGS BY INIT.
0000 282      :
0000 283      EXESGL_FLAGS::
00000000 0000 284      .LONG  0          ; SYSTEM CONTROL FLAGS
0004 285
00000000 0004 286      EXESGL_STATE_FLAGS::
0004 287      .LONG  0          ; STATE OF THE SYSTEM CONTROL FLAGS
0008 288
0008 289      :
0008 290      : ERROR LOG MAILBOX CONTROL
0008 291      :
0008 292      EXESGL_ERLMBX::
0000 0008 293      .WORD  0          ; UNIT NUMBER (0 => NONE)
0000 000A 294      .WORD  0          ; RESERVED
00000000 000C 295      .LONG  0          ; PID OF ASSIGNER
0010 296
0010 297
0010 298      :
0010 299      : VECTORS FOR INTERCEPT OF EXCEPTION DISPATCHING
0010 300
00000000 0010 301      EXESGL_VAXEXCVEC::
0010 302      .LONG  0
00000000 0014 303      EXESGL_FPEXCVEC::
0014 304      .LONG  0
0018 305
0018 306      :
0018 307      : VECTORS TO USER SUPPLIED CHANGE MODE HANDLERS
0018 308      :
00000000 0018 309      EXESGL_USRCHK::
0018 310      .LONG  0          ; VECTOR TO USER SUPPLIED CHANGE MODE
001C 311      EXESGL_USRCHME::
00000000 001C 312      .LONG  0          ; TO KERNEL HANDLER
0020 313      : VECTOR TO USER SUPPLIED CHANGE MODE
0020 314      : TO EXECUTIVE HANDLER
0020 315      :
0020 316      :
0020 317      :
0020 318      .ALIGN  QUAD
00000020' 0020 319      SWISGL_FQFL::
0024 320      A: .LONG  A          ; FORWARD LINK
00000020' 0024 321      SWISGL_FQBL::
0024 322      .LONG  A          ; IPL-6 LISTHEAD
00000028' 00000028' 0028 323      2$: .LONG  2$,2$    ; BACKWARD LINK
00000030' 00000030' 0030 324      3$: .LONG  3$,3$    ;
00000038' 00000038' 0038 325      4$: .LONG  4$,4$    ; IPL-7 LISTHEAD
00000040' 00000040' 0040 326      5$: .LONG  5$,5$    ; IPL-8 LISTHEAD
00000048' 00000048' 0048 327      6$: .LONG  6$,6$    ; IPL-9 LISTHEAD
                                ; IPL-10 LISTHEAD
                                ; IPL-11 LISTHEAD

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6F
6E

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0050 328
0050 329
0050 330 : FORK-AND-WAIT WORK QUEUE LISTHEAD
0050 331 :
0050 332
0050 333 EXE$GL_FKWAITFL::
00000050' 0050 334 .LONG EXE$GL_FKWAITFL
0050 335 EXE$GL_FKWAITBL::
00000050' 0054 336 .LONG EXE$GL_FKWAITFL
0058 337
0058 338
0058 339 : LOGICAL NAME DIRECTORY AND HASH TABLE ADDRESSING POINTERS.
0058 340 :
0058 341 : NOTE: THE INDIRECTION TO BOTH PROCESS-PRIVATE AND SHAREABLE NAME SPACES IS
0058 342 : REQUIRED SO THAT THE CODE THAT ACCESSES BOTH NAME SPACES CAN BE
0058 343 : SYMMETRICAL AND SIMPLE.
0058 344 :
0058 345
0058 346 LNMSAL_HASHTBL:: : HASH TABLE ADDRESSING POINTERS
00000060' 0058 347 .LONG 30$ : INDIRECT PTR TO SHAREABLE HASH TABLE
00000000' 005C 348 .LONG CTL$GL_LNMHASH : INDIRECT PTR TO PROCESS HASH TABLE
00000000 0060 349 30$: .LONG 0 : DIRECT POINTER TO SHAREABLE HASH TABLE
0064 350
0064 351 LNMSAL_DIRTBL:: : DIRECTORY TABLE ADDRESSING POINTERS
0000006C' 0064 352 .LONG 40$ : INDIRECT PTR TO SYSTEM DIRECTORY TABLE
00000000' 0068 353 .LONG CTL$GL_LNMDIRECT : INDIRECT PTR TO PROCESS DIRECTORY TABLE
00000000' 006C 354 40$: .LONG LNMSYSTEM_DIRECTORY : DIRECT POINTER TO SYSTEM DIRECTORY TABLE
0070 355
0070 356 :
0070 357 : LOGICAL NAME MUTEX.
0070 358 :
0070 359
0070 360 LNMSAL_MUTEX:: : LOGICAL NAME MUTEX
0000 FFFF 0070 361 .WORD -1,0
0074 362
0074 363 :
0074 364 : LOGICAL NAME SYSTEM DIRECTORY SEQUENCE NUMBER
0074 365 :
0074 366
0074 367 LNMSGL_SYSDIRSEQ:: :
00000000 0074 368 .LONG 0 : SYSTEM DIRECTORY MODIFICATION COUNTER
0078 369
0078 370 :
0078 371 : ADDRESS OF SYSTEM BOOT DEVICE UCB AND DEFAULT DEVICE
0078 372 :
0078 373
0078 374 EXE$GL_SYSUCB:: : SYSTEM DEVICE UCB ADDRESS
00000000 0078 375 .LONG 0
007C 376 FIL$GT_DDDEV:: : FILE READ DEFAULT DEVICE STRING
49 56 45 44 53 59 53 24 53 59 53 00' 007C 377 .ASCII /SYS$SYSDEVICE/ : LOGICAL NAME STRING
45 43
OD 007C
008A 378 FIL$GT_TOPSYS:: : ASCII TOP LEVEL DIR STRING
00000094 008A 379 .BLKB 10 : FILLED IN BY INIT WITH STRING
0094 380 : FROM VMB AND SYSBOOT
0094 381 .ALIGN LONG
0094 382 FIL$GQ_CACHE:: : FILE READ CACHE DESCRIPTOR

```


	00D8	440	IOC\$GL_SRPMIN::	:	:
00000000	00D8	441	.LONG 0	:	:
	00DC	442	IOC\$GL_SRPSPLIT::	:	:
00000000	00DC	443	.LONG 0	:	:
	00E0	444	IOC\$GL_SRPREM::	:	:
00000000	00E0	445	.LONG 0	:	Address of packet remainder
	00E4	446	IOC\$GL_SRPCNT::	:	:
00000000	00E4	447	.LONG 0	:	Current count of allocated packets
	00E8	448	:	:	:
	00E8	449	:	:	:
	00E8	450	;	:	LARGE REQUEST PACKET LOOK ASIDE LISTHEAD AND DATA BASE
	00E8	451	:	:	:
	00E8	452	:	:	:
	00E8	453	IOC\$GL_LRPFL::	:	:
000000E8'	00E8	454	.LONG IOC\$GL_LRPFL	:	:
	00EC	455	IOC\$GL_LRPBL::	:	:
000000E8'	00EC	456	.LONG IOC\$GL_LRPFL	:	:
	00F0	457	IOC\$GL_LRPSIZE::	:	:
00000000	00F0	458	.LONG 0	:	:
	00F4	459	IOC\$GL_LRPMIN::	:	:
00000000	00F4	460	.LONG 0	:	:
	00F8	461	IOC\$GL_LRPSPLIT::	:	:
00000000	00F8	462	.LONG 0	:	:
	00FC	463	IOC\$GL_LRPREM::	:	:
00000000	00FC	464	.LONG 0	:	Address of packet remainder
	0100	465	IOC\$GL_LRPCNT::	:	:
00000000	0100	466	.LONG 0	:	Current count of allocated packets
	0104	467	:	:	:
	0104	468	;	:	FORK BLOCK TO USE FOR POOL EXPANSION
	0104	469	:	:	:
	0104	470	IOC\$GL_POOLFKB::	:	:
00000000 00000000	0104	471	.LONG 0,0	:	Flink, Blink
	0018	010C	.WORD FKB\$C_LENGTH	:	Size
	08	010E	.BYTE DYN\$C_FRK	:	Type
	06	010F	.BYTE IPL\$_QUEUEAST	:	Fork IPL (6)
00000000	0110	475	.LONG 0	:	Fork PC
00000000	0114	476	.LONG 0	:	Fork R3
00000000	0118	477	.LONG 0	:	Fork R4
	011C	478	IOC\$GL_PFKBINT::	:	:
00000000	011C	479	.LONG 0	:	Fork block interlock 0 => free
	0120	480	:	:	:
	0120	481	:	:	:
	0120	482	;	:	LISTHEAD FOR PQB LOOKASIDE LIST USED DURING PROCESS CREATION
	0120	483	:	:	:
	0120	484	:	:	:
	0120	485	EXE\$GL_PQBFL::	:	:
00000120'	0120	486	.ADDRESS EXE\$GL_PQBFL	:	:
	0124	487	EXE\$GL_PQBBL::	:	:
00000120'	0124	488	.ADDRESS EXE\$GL_PQBFL	:	:
	0128	489	:	:	:
	0128	490	:	:	:
	0128	491	:	:	:
	0128	492	;	:	SYSTEM AQB LISTHEAD
	0128	493	:	:	:
	0128	494	IOC\$GL_AQBLIST::	:	:
00000000	0128	495	.LONG 0	:	SINGLE LINK, EMPTY
	012C	496	:	:	:

SYS
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IOC
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IRP
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TQE
TQE
TQE
TTY
XQP

```

012C 497 : SYSTEM-WIDE MOUNTED VOLUME LIST
012C 498 :
0000012C' 012C 499 IOC$GQ_MOUNTLST::
0000012C' 012C 500 .LONG
0130 501 .LONG :-4
0134 502 :
0134 503 : TERMINAL BROADCAST MESSAGE LIST HEAD
0134 504 :
00000134'00000134' 0134 505 IOC$GQ_BRDCST:: : EMPTY
0134 506 1$: .LONG 1$,1$
013C 507 :
013C 508 :
013C 509 : SINGLY LINKED LIST OF CRB'S TO SCAN FOR TIMEOUTS
013C 510 :
00000000 013C 511 IOC$GL_CRBTMOUT::
013C 512 .LONG 0 ; EMPTY
0140 513 :
0140 514 :
0140 515 : SINGLY LINKED LIST OF CDBs FOR DISK CLASS DRIVER CONNECTIONS
0140 516 :
00000000 0140 517 IOC$GL_DU_CDDB::
0140 518 .LONG 0
0144 519 :
0144 520 : SINGLY LINKED LIST OF CDBs FOR TAPE CLASS DRIVER CONNECTIONS
0144 521 :
00000000 0144 522 IOC$GL_TU_CDDB::
0144 523 .LONG 0
0148 524 :
0148 525 :
0148 526 : Pointer to Host Initiated Replacement Table
0148 527 : (used by some MSCP disks)
0148 528 :
00000000 0148 529 IOC$GL_HIRT::
0148 530 .LONG 0
014C 531 :
014C 532 :
014C 533 : Pointer to area used for processing shadow set generation number comparisons.
014C 534 :
00000000 014C 535 IOC$GL_SHDW WRK::
014C 536 .LONG 0
0150 537 :
0150 538 :
0150 539 : GROUP GLOBAL SECTION DESCRIPTOR LIST HEAD
0150 540 :
0150 541 :
00000150' 0150 542 EXE$GL_GSDGRPFL:: : FORWARD LINK
0150 543 .LONG :
00000150' 0154 544 EXE$GL_GSDGRPBL:: : BACKWARD LINK
0154 545 .LONG :-4
0158 546 :
0158 547 :
0158 548 : SYSTEM GLOBAL SECTION DESCRIPTOR LIST HEAD
0158 549 :
0158 550 :
00000158' 0158 551 EXE$GL_GSDSYSFL:: : FORWARD LINK
0158 552 .LONG :
015C 553 EXE$GL_GSDSYSBL:: : BACKWARD LINK

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00000158' 015C 554          .LONG  -4
           0160 555
           0160 556 :
           0160 557 : GLOBAL SECTION DESCRIPTOR DELETE PENDING LIST
           0160 558 :
           0160 559 :
00000160' 0160 560 EX$GL_GSDDELFL::          ; FORWARD LINK
           0160 561          .LONG
00000160' 0164 562 EX$GL_GSDDELBL::          ; BACKWARD LINK
           0164 563          .LONG  -4
           0168 564
           0168 565 :
           0168 566 : WINDOW CONTROL BLOCK DELETE QUEUE - GLOBAL SECTION WINDOWS ARE
           0168 567 : PLACED HERE WHEN THE SECTION IS DELETED. THEY ARE THEN
           0168 568 : REMOVED FROM THIS QUEUE AND DEACCESSED.
           0168 569 :
           0168 570
00000168' 0168 571 EX$GL_WCBDELFL::          ; FORWARD LINK
           0168 572          .LONG
00000168' 016C 573 EX$GL_WCBDELBL::          ; BACKWARD LINK
           016C 574          .LONG  -4
           0170 575
           0170 576 :
           0170 577 : SYSTEM WINDOW CONTROL BLOCK LIST - ALL WINDOWS CRAFTED BY MMG$INIWCB
           0170 578 : AND INIT ARE PLACED HERE.
           0170 579 :
           0170 580
00000170' 0170 581 EX$GL_SYSWCBFL::          ; FORWARD LINK
           0170 582          .LONG
00000170' 0174 583 EX$GL_SYSWCBBL::          ; BACKWARD LINK
           0174 584          .LONG  -4
           0178 585
           0178 586 :
           0178 587 : SYSTEM-WIDE RIGHTS LIST DESCRIPTOR. THIS DESCRIPTOR IS USED TO POINT
           0178 588 : TO A RIGHTS LIST SEGMENT COMMON TO ALL PROCESSES IN THE SYSTEM, TO
           0178 589 : ALLOW IDENTIFIERS TO BE GRANTED TO THE SYSTEM AS A WHOLE.
           0178 590 :
           0178 591
00000000 00000000 0178 592 EX$GQ_RIGHTSLIST::          ; NULL DESCRIPTOR, NO FLAG SET
           0178 593          .LONG  0,0
           0180 594
           0180 595 :
           0180 596 : TIMER PERFORMANCE STATISTICS
           0180 597 :
           0180 598
00000002 0180 599          .IF NE  CAS_MEASURE          ; CHECK FOR MEASUREMENT ENABLED
           0180 600
           0180 601          .ALIGN  LONG
00000000 0180 602 PMS$GL_KERNEL::          ; TIME IN KERNEL MODE
           0180 603          .LONG  0
00000000 0184 604 PMS$GL_EXEC:          ; TIME IN EXECUTIVE MOVE
           0184 605          .LONG  0
00000000 0188 606 PMS$GL_SUPER:          ; TIME IN SUPERVISOR MODE
           0188 607          .LONG  0
00000000 018C 608 PMS$GL_USER:          ; TIME IN USER MODE
           018C 609          .LONG  0
           0190 610 PMS$GL_INTER:          ; TIME ON INTERRUPT STACK

```

```

00000000 0190 611 .LONG 0
          0194 612 PMS$GL_COMPAT:: ; TIME IN COMPATIBILITY MODE
00000000 0194 613 .LONG 0
          0198 614
          0198 615 .ENDC
          0198 616
          0198 617
          0198 618 ; SYSTEM ABSOLUTE TIME IN SECONDS
          0198 619
          0198 620
          0198 621 .ALIGN LONG
00000000 0198 622 EXE$GL_ABSTIM:: ; ABSOLUTE TIME IN SECONDS
          0198 623 .LONG 0
          019C 624
          019C 625 ;
          019C 626 ; SYSTEM ABSOLUTE TIME IN NANOSECONDS
          019C 627
          019C 628
          019C 629 .ALIGN QUAD
01A0 630 EXE$GQ_SYSTIME:: ; SYSTEM ABSOLUTE TIME IN NANOSECONDS
01A0 631 TIME ; QUAD WORD OF INITIAL TIME
01A8 632
01A8 633 ; SYSTEM BOOT TIME
01A8 634
00000000 01A8 635 EXE$GQ_BOOTTIME:: ; EXE$GQ_TODCBASE AT LAST BOOT
00000000 01A8 636 .LONG 0,0
01B0 637
00000000 01B0 638 EXE$GL_PFAILTIM:: ; TODR AT POWER FAIL
01B0 639 .LONG 0
00000000 01B4 640 EXE$GL_PFATIM:: ; DURATION OF LAST POWER FAILURE
01B4 641 .LONG 0 ; IN .01 SECOND UNITS FOR POWER FAIL
01B8 642 ; AST.
01B8 643
01B8 644
01B8 645 ; TIME DEPENDENT SCHEDULER REQUEST QUEUE
01B8 646
01B8 647
01B8 648 .ALIGN QUAD
000001C0' 01B8 649 EXE$GL_TQFL:: ; FORWARD LINK OF TIME QUEUE LISTHEAD
01B8 650 .LONG DEVICETIM ; LINK TO DEVICE TIME OUT ENTRY
000001E8' 01BC 651 EXE$GL_TQBL: ; BACK LINK OF TIME QUEUE LISTHEAD
01BC 652 .LONG PERMENTRY ; LINK TO PERMENTENT ENTRY
01C0 653
01C0 654
01C0 655 ; DEVICE TIME OUT TIME QUEUE ENTRY
01C0 656
01C0 657
01C0 658 .ALIGN QUAD
000001E8' 01C0 659 DEVICETIM: ; DEVICE TIME OUT TIME QUEUE ENTRY
01C0 660 .LONG PERMENTRY ; FORWARD LINK TO PERMENTENT ENTRY
000001B8' 01C4 661 .LONG EXE$GL_TQFL ; BACK LINK TO LISTHEAD
0000 01C8 662 .WORD 0 ; SIZE OF ENTRY
0F 01CA 663 .BYTE DYN$C_TQE ; TYPE OF DATA STRUCTURE
05 01CB 664 .BYTE TQESC_SSREPT ; REQUEST TYPE OF ENTRY
00000000' 01CC 665 .LONG EXE$TIMEOUT ; PC OF SYSTEM SUBROUTINE
00000000' 01D0 666 .LONG IOC$GL_DEVLIST ; ADDRESS OF I/O DATA BASE LISTHEAD
000001D8 01D4 667 .BLKL 1 ; ONE UNUSED LONGWORD

```

```

00989680 01D8 668 TIME ; QUAD WORD OF EXPIRATION TIME
00000000 01E0 669 .LONG 100000*100 ; DELTA REPEAT TIME OF 1 SECOND
00000000 01E4 670 .LONG 0 ;
01E8 671 ;
01E8 672 ;
01E8 673 ; PERMANENT TIME QUEUE ENTRY
01E8 674 ;
01E8 675 ;
01E8 676 .ALIGN QUAD
01E8 677 EXESAL_TQENOREPT:: ; Global name of canonical, no repeat,
01E8 678 ; timer queue entry
01E8 679 PERMENTRY: ; PERMENT TIME QUEUE ENTRY
000001B8' 01E8 680 .LONG EXESGL_TQFL ; FORWARD LINK TO LISTHEAD
000001C0' 01EC 681 .LONG DEVICETIM ; BACK LINK TO DEVICE TIME OUT ENTRY
0000 01F0 682 .WORD 0 ; SIZE OF ENTRY
OF 01F2 683 .BYTE DYN$C_TQE ; TYPE OF DATA STRUCTURE
00 01F3 684 ; This TQE cannot repeat.
00000200 01F3 685 .BYTE TQESC_TMSNGL & <^CTQESM_REPEAT> ; REQUEST TYPE OF ENTRY
FFFFFFF 0200 686 .BLKL 3 ; THREE UNUSED LONGWORDS
FFFFFFF 0204 687 .LONG ^XOFFFFFFFFF ; INFINITY EXPIRATION TIME
FFFFFFF 0204 688 .LONG ^XOFFFFFFFFF ;
0208 689 ;
0208 690 ;
0208 691 ;
0208 692 ; IOC DATA BASE MUTEX
0208 693 ;
0208 694 ;
0208 695 IOC$GL_MUTEX:: ; MUTEX FOR IOC DATA BASE
FFFF 0208 696 .WORD -1 ; INITIAL COUNT OF -1
0000 020A 697 .WORD 0 ; ALL FLAGS CLEARED
020C 698 ;
020C 699 ;
020C 700 ;
020C 701 ; COMMON EVENT LIST MUTEX
020C 702 ;
020C 703 ;
020C 704 EXESGL_CEBMTX:: ; MUTEX FOR COMMON EVENT CLUSTER LIST
FFFF 020C 705 .WORD -1 ; INITIAL COUNT OF -1
0000 020E 706 .WORD 0 ; ALL FLAGS CLEARED
0210 707 ;
0210 708 ;
0210 709 ; DYNAMIC PAGED MEMORY MUTEX
0210 710 ;
0210 711 ;
0210 712 EXESGL_PGDYNMTX:: ; PAGED DYNAMIC MEMORY MUTEX
FFFF 0210 713 .WORD -1 ; INITIAL COUNT OF -1
0000 0212 714 .WORD 0 ; ALL FLAGS CLEAR
0214 715 ;
0214 716 ; GLOBAL SECTION DESCRIPTOR TABLE MUTEX
0214 717 ;
0214 718 ;
0214 719 EXESGL_GSDMTX:: ; GLOBAL SECTION DESCRIPTOR MUTEX
FFFF 0214 720 .WORD -1 ; INITIAL COUNT OF -1
0000 0216 721 .WORD 0 ; ALL FLAGS CLEAR
0218 722 ;
0218 723 ;
0218 724 ; SHARED MEMORY GLOBAL SECTION DESCRIPTOR TABLE MUTEX

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0218 725 ;
0218 726 ;
0218 727 EX$GL_SHMGSMTX:: ; SHARED MEMORY GLOBAL SECTION DSC MUTEX
0218 728 ;
FFFF 0218 729 .WORD -1 ; INITIAL COUNT OF -1
0000 021A 730 .WORD 0 ; ALL FLAGS CLEAR
021C 731 ;
021C 732 ;
021C 733 : SHARED MEMORY MAILBOX TABLE MUTEX
021C 734 :
021C 735 ;
021C 736 EX$GL_SHMMBMTX:: ; SHARED MEMORY MAILBOX TABLE MUTEX
FFFF 021C 737 ;
0000 021C 738 .WORD -1 ; INITIAL COUNT OF -1
021E 739 .WORD 0 ; ALL FLAGS CLEAR
0220 740 ;
0220 741 ;
0220 742 : ENQUEUE/DEQUEUE TABLES MUTEX
0220 743 :
0220 744 ;
FFFF 0220 745 EX$GL_ENQMTX:: ; ENQUEUE/DEQUEUE TABLES MUTEX
0000 0220 746 .WORD -1 ; INITIAL COUNT OF -1
0222 747 .WORD 0 ; ALL FLAGS CLEAR
0224 748 ;
0224 749 ;
0224 750 : ACL MODIFICATION MUTEX
0224 751 :
0224 752 ;
FFFF 0224 753 EX$GL_ACLMTX:: ; ACL MODIFICATION MUTEX
0000 0224 754 .WORD -1 ; INITIAL COUNT OF -1
0226 755 .WORD 0 ; ALL FLAGS CLEAR
0228 756 ;
0228 757 ;
0228 758 : LOCK ID FOR SYSTEM ID LOCK
0228 759 :
0228 760 : WHEN THE SYSTEM IS BOOTED, A SYSTEM-OWNED LOCK WITH A NAME EQUAL TO THE
0228 761 : SYSTEM ID IS TAKEN OUT BY SYSINIT FOR EXCLUSIVE ACCESS. SYSTEM-WIDE LOCKS
0228 762 : THAT ARE LOCAL TO A NODE AND WISH TO AVOID UNNECESSARY CI TRAFFIC SHOULD
0228 763 : BE SUB LOCKS WITH THE CONTENTS OF THIS CELL AS THE PARENT LOCK.
0228 764 :
0228 765 ;
00000000 0228 766 EX$GL_SYSID_LOCK:: ; START WITH NO PARENT LOCK ID
0228 767 .LONG 0
022C 768 ;
022C 769 ;
022C 770 : KNOWN FILE TABLE DATA
022C 771 :
022C 772 ;
00000000 022C 773 EX$GL_KNOWN_FILES:: ; POINTER TO KNOWN FILE ENTRY
022C 774 .LONG 0 ; HASH TABLE
0230 775 ;
0230 776 KFE_LOCK_NAME:
0230 777 .ASCII "INSTALLS" ; FACILITY NAME FOR INSTALL UTILITY
45 4C 49 46 20 4E 57 4F 4E 4B 0238 778 .ASCII "KNOWN FILE" ; SOME DESCRIPTIVE TEXT
00000012 0242 779 KFE_LOCK_NAME_SIZE = . - KFE_LOCK_NAME
0242 780 ;
0242 781 .ALIGN LONG

```

```

00000012 0244 782
00000230' 0244 783 EXESGQ_KFE_LCKNAM::
0244 784 .LONG KFE_LOCK_NAME_SIZE
0248 785 .ADDRESS KFE_LOCK_NAME
024C 786
024C 787 :
024C 788 : GLOBAL PAGE TABLE
024C 789 :
024C 790
024C 791 EXESGL_GPT::
00000000 024C 792 .LONG 0 : ADDRESS OF FIRST FREE GLOBAL PTE
00000000 0250 793 : SETUP BY INIT
0250 794 .LONG 0 : NO BYTES IN BLOCK
0254 795
0254 796 :
0254 797 : SYSTEM VERSION NUMBER
0254 798 :
0254 799 SYSSGQ_VERSION:: :
00000000' 0254 800 .LONG SYSSK_VERSION
20 20 20 20 0258 801 .ASCII / 7
025C 802
025C 803 .ALIGN LONG
025C 804
025C 805 :
025C 806 : JOB CONTROLLER DATA CELLS
025C 807 :
0000 025C 808 SYSSGW_IJOBcnt:: .WORD 0 : CURRENT COUNT OF INTERACTIVE LOGINS
0000 025E 809 SYSSGW_NJOBcnt:: .WORD 0 : CURRENT COUNT OF NETWORK LOGINS
0000 0260 810 SYSSGW_BJOBcnt:: .WORD 0 : CURRENT COUNT OF BATCH LOGINS
0262 811
0262 812 :
0262 813 : PROCESS INDEX OF NEXT PROCESS TO CHECK FOR PRIORITY BOOST
0262 814 :
0002 0262 815 EXESGW_SCANPIX:: .WORD 2 ; START AFTER SWAPPER AND NULL
0264 816 .ALIGN LONG
0264 817
0264 818 :
0264 819 : ADDRESS OF SYSTEM-WIDE MESSAGE SECTION
00000000 0264 820 EXESGL_SYSMMSG:: .LONG 0 ; ADDRESS OF SYSTEM-WIDE MESSAGES
0268 821
0268 822 :
0268 823 : ADDRESS OF SYSTEM-WIDE USER RUNDOWN SERVICE VECTOR
0268 824 :
00000000 0268 825 EXESGL_USRUNDWN::
0268 826 .LONG 0 ; VECTOR FOR SYSTEM-WIDE RUNDOWN
026C 827
026C 828
026C 829 .ALIGN QUAD
0270 830 :
0270 831 : DYNAMIC STORAGE REGION - NONPAGED
0270 832 :
0270 833 :
00000270 0270 834 .PSECT $$$260,QUAD,WRT
0270 835 EXESGL_NONPAGED:: :
00000008 0270 836 .LONG 11 : DISABLE ALL FORK INTERRUPTS
00000000 0274 837 .LONG 0 : ADDRESS OF FIRST FREE BLOCK
00000000 0278 838 .LONG 0 : NO BYTES IN BLOCK

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00000000 027C 839 EX$GL_SPLITADR::          ; LOOKASIDE I/O PACKET LIST SPLIT ADDRESS
          027C 840                .LONG 0          ; ADDRESS OF FIRST FREE BLOCK
          0280 841
          0280 842
          0280 843 :
          0280 844 : DYNAMIC STORAGE REGION - PAGED
          0280 845 :
          0280 846
00000280 0280 847                .PSECT $$$260,QUAD,WRT
00000000 0280 848 EX$GL_PAGED::          ;
00000000 0280 849                .LONG 0          ; ADDRESS OF FIRST FREE BLOCK
          0284 850                .LONG 0          ; NO BYTES IN BLOCK
          0288 851
          0288 852
          0288 853 :
          0288 854 : POINTER TO RMS SHARED FILE DATA BASE
          0288 855 :
00000000 0288 856 RMS$GL_SFDBASE::        ; POINTER TO SHARED FILE DATA BASE
          0288 857                .LONG 0          ; INITIALLY EMPTY
          028C 858
          028C 859 :
          028C 860 : SHARED MEMORY CONTROL BLOCK LISTHEAD
          028C 861 :
00000000 028C 862 EX$GL_SHBLIST::        ; SHARED MEMORY CONTROL BLOCKS
          028C 863                .LONG 0
          0290 864
          0290 865 :
          0290 866 : Address of the realtime control block that describes and contains the
          0290 867 : bit map of SPTs us J in connect to interrupt requests.
          0290 868 :
          0290 869 :
00000000 0290 870 EX$GL_RTBITMAP::        ; Realtime SPT bit map.
          0290 871                .LONG 0
          0294 872
          0294 873 :
          0294 874 : Cells for Machine Check recovery block
          0294 875 :
          0294 876
00000294 0294 877                .PSECT $$$260,QUAD,WRT
          0294 878
00000000 0294 879 MCHK$GL_MASK::        ; Function mask for current recovery block
          0298 880                .LONG 0
00000000 0298 881 MCHK$GL_SP::        ; Saved SP for return at end of block
          0298 882                .LONG 0          ; 0 (zero) if no current recovery block
          029C 883
          029C 884 :
          029C 885 : CPU error counts
          029C 886 :
00000000 029C 887 EX$GL_MCHKERRS::        ; Count of machine checks since boot
          02A0 888                .LONG 0
00000000 02A0 889 EX$GL_MEMERRS::        ; Count of memory errors since boot
          02A4 890                .LONG 0
          02A4 891
          02A4 892 :
          02A4 893 : Cell to count unexpected DW780 Unibus Adapter interrupts through vector 0
          02A4 894 :
          02A4 895 IOS$GL_UBA_INT0::

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```

00000000 02A4 896          .LONG  0          ; Counter for UBA interrupts thru vector 0
          02A8 897          :
          02A8 898          : PFN of page used to remap virtual address of powerfailed adapters to
          02A8 899          :
00000000 02A8 900  EX$GL_BLAHOLE::
          02A8 901          .LONG  0          ; Page to use for anything you don't care ab
          02AC 902          :
          02AC 903          :
          02AC 904          : Cell for counting unexpected interrupts through SCB NEXUS vector 0 and
          02AC 905          : through SCB vector 0.
          02AC 906          :
00000000 02AC 907  IOSGL_SCB_INT0::
          02AC 908          .LONG  0          ; Counter for unexpected SCB interrupts
          02B0 909          :
          02B0 910          : Cell for initial value for wait loop counter, replacing use of hardware
          02B0 911          : interval timer in device drivers. Used by system macro $TIMEWAIT.
          02B0 912          :
00000000 02B0 913  EX$GL_TENUSEC::
          02B0 914          .LONG  0          ; No. of times loop executes in 10 u-sec.
          02B4 915          :
          02B4 916          : Cell for delay loop counter, used to introduce a 3 microsecond delay into
          02B4 917          : the bit test loop in the TIMEWAIT macro.
          02B4 918          :
00000000 02B4 919  EX$GL_UBDELAY::
          02B4 920          .LONG  0          ; # of times to loop to delay 3 usec.
          02B8 921          :
          02B8 922          : Pointer to MP code, that is loaded into pool.
          02B8 923          :
00000000 02B8 924  EX$GL_MP::
          02B8 925          .LONG  0          ; Pointer to MP code
          02BC 926          :
          02BC 927          : Site specific cell that can be used by users to contain the address of
          02BC 928          : allocated regions of pool or anything else they need.
          02BC 929          :
00000000 02BC 930  EX$GL_SITESPEC::
          02BC 931          .LONG  0          ; Site specific longword
          02C0 932          :
          02C0 933          : Address of top of interrupt stack (i.e. limit of stack)
          02C0 934          :
00000000 02C0 935  EX$GL_INTSTKLM::
          02C0 936          .LONG  0          ; Top of interrupt stack
          02C4 937          :
          02C4 938          : Lock manager variables
          02C4 939          :
00000000 02C4 940  LCK$GL_IDTBL::
          02C4 941          .LONG  0          ; Address of lock id table
          02C8 942  LCK$GL_NXTID::
          02C8 943          .LONG  0          ; Next lock id to use
00000000 02C8 944  LCK$GL_MAXID::
          02CC 945          .LONG  0          ; Max. lock id
00000000 02CC 946  LCK$GL_HASHTBL::
          02D0 947          .LONG  0          ; Address of resource hash table
00000000 02D0 948  LCK$GL_HTBLCNT::
          02D4 949          .LONG  0          ; Number of entries in hash table
          02D4 949          : (expressed as a power of two)
000002D8' 02D8 950  LCK$GL_TIMEOUTQ::
          02D8 951          .LONG  LCK$GL_!MOUTQ ; Lock timeout queue header
000002D8' 02DC 952          .LONG  LCK$GL_!MOUTQ ; (used for deadlock detection)

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```

00000000 02E0 953 LCK$GL_DIRVEC:: ; Address of directory vector
00000000 02E0 954 .LONG 0
00000000 02E4 955 LCK$GL_PRCMAP:: ; Address of process bitmap
00000000 02E4 956 .LONG 0 ; (one bit for each process)
02E8 957 ;
02E8 958 ; Note the next two cells must be contiguous and in this order
02E8 959 ;
00000000 00000000 02E8 960 LCK$GQ_BITMAP_EXP:: ; Process bitmap expiration timestamp
02E8 961 .QUAD 0 ; (exact time)
00000000 00000000 02F0 962 LCK$GQ_BITMAP_EXPLCL:: ; Process bitmap expiration timestamp
02F0 963 .QUAD 0 ; (approx. local time)
02F8 964 LCK$GB_HTBLSHFT:: ; Number of entries in hash table
00 02F8 965 .BYTE 0 ; (expressed as a shift count)
02F9 966 LCK$GB_MAXDEPTH:: ; Maximum depth of resource names
00 02F9 967 .BYTE 0
02FA 968 LCK$GB_STALLREQS:: ; stall lock requests flag
FF 02FA 969 .BYTE -1 ; -1 Stall all requests
02FB 970 ; 0 Allow normal locking
02FB 971 ; 1 Allow unprot. locking
02FB 972 ; 2 Allow sub-locking
FF 02FB 973 LCK$GB_REBLD_STATE:: ; Lock rebuild state:
FF 02FB 974 .BYTE -1 ; -1 Not in cluster
02FC 975 ; 0 Allow normal locking
02FC 976 ; 1 - 3 Various phases of rebuild
02FC 977 ;
02FC 978 ;
02FC 979 .ALIGN LONG
02FC 980 ;
02FC 981 ;
02FC 982 ; DEFINE A LONGWORD THAT CONTAINS THE ACCOUNTING MANAGER CONTROL FLAGS
02FC 983 ;
FF FFFFFFFD 02FC 984 EXE$GL_ACMFLAGS:: ; ACCOUNTING MANAGER CONTROL FLAGS
FF FFFFFFFD 02FC 985 .LONG ^C<1@ACMSV_IMAGE> ; ACCOUNTING ENABLED EXCEPT IMAGE
0300 986 ;
0300 987 ;
0300 988 ; RESERVE SPACE FOR THE SECURITY AUDITING JOURNAL AND ALARM BIT VECTORS.
0300 989 ; EACH BIT WHEN SET ENABLES JOURNALING OR ALARMS FOR A PARTICULAR CLASS
0300 990 ; OF SYSTEM EVENT. THESE VECTORS MUST REMAIN CONTIGUOUS AND IN THE CURRENT
0300 991 ; ORDER.
0300 992 ;
0300 993 NSASGR_JOURNVEC:: ; SECURITY JOURNALING BIT VECTOR
0300 994 .REPT NSASK_EVT_LENGTH
0300 995 .BYTE 0
00 0300 996 .ENDR
0328 997 NSASGR_ALARMVEC:: ; SECURITY ALARMS BIT VECTOR
0328 998 .REPT NSASK_EVT_LENGTH
00 0328 999 .BYTE 0
00 0328 1000 .ENDR
0350 1001 ;
0350 1002 ;
0350 1003 ; DEFINE A LONGWORD THAT CONTAINS THE SYSTEM VIRTUAL ADDRESS OF A PTE
0350 1004 ; (IN THE SPT) THAT MAPS THE BLAKHOLE PAGE INTO SYSTEM SPACE.
0350 1005 ;
00000000 0350 1006 EXE$GL_SVAPTE:: ; SVAPTE FOR PTE THAT MAPS BLAKHOLE PAGE
00000000 0350 1007 .LONG 0
0354 1008 ;
0354 1009 ;

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```

0354 1010 ; DEFINE TWO FIELDS TO CONTROL THE MAPPING OF THE XQP INTO PROCESSES
0354 1011 ;
00000000 0354 1012 XQP$GL_SECTIONS:: ; COUNT OF GLOBAL SECTIONS
0354 1013 .LONG 0
00000000 0358 1014 XQP$GL_DZRO:: ; SIZE OF DZRO SECTION
0358 1015 .LONG 0
035C 1016 ;
035C 1017 ;
035C 1018 ; PID OF THE XQP'S CACHE SERVER PROCESS IN A CLUSTER ENVIRONMENT
035C 1019 ;
00000000 035C 1020 XQP$GL_FILESERVER:: ; PID OF SERVER PROCESS
035C 1021 .LONG 0
00000000 0360 1022 XQP$GL_FILESERV_ENTRY:: ; AST ENTRY POINT OF PROCESS
0360 1023 .LONG 0
0364 1024 ;
0364 1025 ;
0364 1026 ; DEFINE A QUADWORD WHICH WILL CONTAIN THE ENCRYPTED SYSTEM PASSWORD
0364 1027 ;
00000000 0364 1028 SYS$GQ_PWD:: ; SYSTEM PASSWORD
0364 1029 .LONG 0 ; INITIALLY SET TO
00000000 0368 1030 .LONG 0 ; ALL ZERO
036C 1031 ;
036C 1032 ;
036C 1033 ; DEFINE A MUTEX FOR THE CIA QUEUES
036C 1034 ;
036C 1035 CIA$GL_MUTEX::
FFFF 036C 1036 .WORD -1 ; INITIAL COUNT OF -1
0000 036E 1037 .WORD 0 ; ALL FLAGS CLEARED
0370 1038 ;
0370 1039 ;
0370 1040 ; DEFINE A QUEUE LISTHEAD FOR KNOWN AND SUSPECTED INTRUDERS
0370 1041 ;
00000370' 0370 1042 CIA$GQ_INTRUDER::
00000370' 0370 1043 .LONG CIA$GQ_INTRUDER ; SET FLINK
0374 1044 .LONG CIA$GQ_INTRUDER ; SET BLINK
0378 1045 ;
0378 1046 ; Data structures for messages when unable to expand pool
0378 1047 ;
0378 1048 .ENABL LSB
0378 1049 IOC$GT_NOPOOL_TWP::
FFFFFFFF 0378 1050 .LONG -1 ; Preallocated TWP
000003A8 037C 1051 .BLKB TTY$K WB LENGTH-4
2D 57 2D 4D 45 54 53 59 53 25 0A 0D 03A8 1052 10$: .ASCII <13><T0>7%SYSTEM-W-POOLEXP, Pool expansion failure/<13><10>
6F 50 20 2C 46 50 58 45 4C 4F 4F 50 03B4
6E 6F 69 73 6E 61 70 78 65 20 6C 6F 03C0
0A 0D 65 72 75 6C 69 61 66 20 03CC
03D6 1053 20$: .ALIGN LONG
0000 03D8 1054 IOC$GL_POOLEXP_STS:: ; Status of pool expansion
002E 03D8 1055 .WORD 0 ; Status bits
03DA 1056 .WORD 20%-10$ ; Message length
03DC 1057 .DSABL LSB
03DC 1058 ;
03DC 1059 ; The following cells are used to track an accvio hardware bug in the 780/785
03DC 1060 ;
00000000 03DC 1061 EXE$GL_BADACV_T:: ; Time of the last bad accvio
03DC 1062 .LONG 0
03E0 1063 EXE$GL_BADACV_C:: ; Count of bad accvios

```

```

00000000 03E0 1064          .LONG  0
          03E4 1065      :++
          03E4 1066      :
          03E4 1067      : The following psect provides RMS with a system-wide writable area to allow
          03E4 1068      : for system quotas. It is given the strange name $$$000RMS in order to force
          03E4 1069      : it to follow the performance monitoring ps $$$000PMS which begins the UREW
          03E4 1070      : area of S0 space.
          03E4 1071      :
          03E4 1072      : Note that currently the UREW space is defined to be exactly one page in MDAT.
          03E4 1073      : If the combined length of $$$000PMS and $$$000RMS exceed this length then the
          03E4 1074      : FCP performance/RMS datapage length entry in MDAT must be changed to reflect
          03E4 1075      : this.
          03E4 1076      :
          03E4 1077      :--
          03E4 1078      :
          03E4 1079      :
00000000 1080          .PSECT $$$000RMS,QUAD,WRT
          0000 1081
0000 0000 1082 RMS$GW_GBLBUFQUO::          ; Current global buffer quota remaining
          0000 1083          .WORD  0
00000004 0002 1084          .BLKW  1          ; Spare space
00000040 0004 1085          .BLKL  15          ; for future use.
          0040 1087
          0040 1088          .END

```

A	00000020	R	02	EXESGL_SYSID_LOCK	00000228	RG	02
ACMSV_IMAGE	= 00000001			EXESGL_SYSMSG	00000264	RG	02
B	00000080	R	02	EXESGL_SYSUCB	00000078	RG	02
CAS MEASURE	= 00000002			EXESGL_SYSWCBBL	00000174	RG	02
CIASGL_Mutex	0000036C	RG	02	EXESGL_SYSWCBFL	00000170	RG	02
CIASGL_INTRUDER	00000370	RG	02	EXESGL_TENUSEC	00000280	RG	02
CTL\$GL_LNMDIRECT	*****	X	02	EXESGL_TQBL	000001BC	R	02
CTL\$GL_LNMHASH	*****	X	02	EXESGL_TQFL	000001B8	RG	02
DEVICETIM	000001C0	R	02	EXESGL_UBDELAY	000002B4	RG	02
DYN\$C_FRK	= 00000008			EXESGL_USRCHME	0000001C	RG	02
DYN\$C_TQE	= 0000000F			EXESGL_USRCHMK	00000018	RG	02
EXESAC_TQENOREPT	000001E8	RG	02	EXESGL_USRUNDWN	00000268	RG	02
EXESC_SYSEFN	= 0000001F	G		EXESGL_VAXEXCVEC	00000010	RG	02
EXESGL_ABSTIM	00000198	RG	02	EXESGL_WCBDELBL	0000016C	RG	02
EXESGL_ACLMTX	00000224	RG	02	EXESGL_WCBDELFL	00000168	RG	02
EXESGL_ACMFLGS	000002FC	RG	02	EXESGL_BOOTCB_D	0000004C	RG	02
EXESGL_BADACV_C	000003E0	RG	02	EXESGL_BOOTIME	000001A8	RG	02
EXESGL_BADACV_T	000003DC	RG	02	EXESGL_ERLMBX	00000008	RG	02
EXESGL_BLAHOC	000002A8	RG	02	EXESGL_KFE_LCKNAM	00000244	RG	02
EXESGL_BOOTCB	= 000000A0	RG	02	EXESGL_RIGHTSLIST	00000178	RG	02
EXESGL_CEBMTX	0000020C	RG	02	EXESGL_SYSTIME	000001A0	RG	02
EXESGL_ENQMTX	00000220	RG	02	EXESGL_SCANPIX	00000262	RG	02
EXESGL_ERASEPB	000000A8	RG	02	EXESTIMEOUT	*****	X	02
EXESGL_ERASEPPT	000000AC	RG	02	FIL\$GL_CACHE	00000094	RG	02
EXESGL_FKWAITBL	00000054	RG	02	FIL\$GT_DDDEV	0000007C	RG	02
EXESGL_FKWAITFL	00000050	RG	02	FIL\$GT_TOPSYS	0000008A	RG	02
EXESGL_FLAGS	00000000	RG	02	FKB\$C_LENGTH	= 00000018		
EXESGL_FPEXCVEC	00000014	RG	02	IO\$GL_SCB_INT0	000002AC	RG	02
EXESGL_GPT	0000024C	RG	02	IO\$GL_UBA_INT0	000002A4	RG	02
EXESGL_GSDDELBL	00000164	RG	02	IOC\$GL_AQBLIST	00000128	RG	02
EXESGL_GSDDELFL	00000160	RG	02	IOC\$GL_CRBTMOUT	0000013C	RG	02
EXESGL_GSDGRPBL	00000154	RG	02	IOC\$GL_DEVLIST	*****	X	02
EXESGL_GSDGRPFL	00000150	RG	02	IOC\$GL_DU_CDDB	00000140	RG	02
EXESGL_GSDMTX	00000214	RG	02	IOC\$GL_HIRT	00000148	RG	02
EXESGL_GSDSYSBL	0000015C	RG	02	IOC\$GL_IRPBL	000000BC	RG	02
EXESGL_GSDSYSFL	00000158	RG	02	IOC\$GL_IRPCNT	000000C4	RG	02
EXESGL_INTSTKLM	000002C0	RG	02	IOC\$GL_IRPFL	000000B8	RG	02
EXESGL_KNOWN FILES	0000022C	RG	02	IOC\$GL_IRPMIN	000000C8	RG	02
EXESGL_MCHKERRS	0000029C	RG	02	IOC\$GL_IRPREM	000000C0	RG	02
EXESGL_MEMERRS	000002A0	RG	02	IOC\$GL_LRPBL	000000EC	RG	02
EXESGL_MP	000002B8	RG	02	IOC\$GL_LRPCNT	00000100	RG	02
EXESGL_NONPAGED	00000270	RG	02	IOC\$GL_LRPFL	000000E8	RG	02
EXESGL_PAGED	00000280	RG	02	IOC\$GL_LRPMIN	000000F4	RG	02
EXESGL_PFAILTIM	000001B0	RG	02	IOC\$GL_LRPREM	000000FC	RG	02
EXESGL_PFATIM	000001B4	RG	02	IOC\$GL_LRPSIZE	000000F0	RG	02
EXESGL_PGDYNTX	00000210	RG	02	IOC\$GL_LRPSPLIT	000000F8	RG	02
EXESGL_POBBL	00000124	RG	02	IOC\$GL_Mutex	00000208	RG	02
EXESGL_POBFL	00000120	RG	02	IOC\$GL_PFKBINT	0000011C	RG	02
EXESGL_RTBITMAP	00000290	RG	02	IOC\$GL_POOLEXP_STS	000003D8	RG	02
EXESGL_SAVEDUMP	000000A4	RG	02	IOC\$GL_POOLFKB	00000104	RG	02
EXESGL_SHBLIST	0000028C	RG	02	IOC\$GL_PSBL	000000B4	RG	02
EXESGL_SHMGSMTX	00000218	RG	02	IOC\$GL_PSFL	000000B0	RG	02
EXESGL_SHMMBMTX	0000021C	RG	02	IOC\$GL_SHDW WRK	0000014C	RG	02
EXESGL_SITESPEC	000002BC	RG	02	IOC\$GL_SRPBL	000000D0	RG	02
EXESGL_SPLITADR	0000027C	RG	02	IOC\$GL_SRPCNT	000000E4	RG	02
EXESGL_STATE_FLAGS	00000004	RG	02	IOC\$GL_SRPFL	000000CC	RG	02
EXESGL_SVAPTE	00000350	RG	02	IOC\$GL_SRPMIN	000000D8	RG	02

SYSCOMMON
Symbol table

DATA BASES

C 10

16-SEP-1984 01:21:26 VAX/VMS Macro V04-00
5-SEP-1984 03:49:32 [SYS.SRC]SYSCOMMON.MAR;1

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SYS
V04

IOCSGL_SRPREM	000000E0	RG	02
IOCSGL_SRPSize	000000D4	RG	02
IOCSGL_SRPSPPLIT	000000DC	RG	02
IOCSGL_TU_CDDb	00000144	RG	02
IOCSGQ_BRDCST	00000134	RG	02
IOCSGQ_MOUNTLST	0000012C	RG	02
IOCSGT_NOPOOL_TWP	00000378	RG	02
IPL\$_QOEUEAST	= 00000006		
IRP\$C_LENGTH	= 000000C4		
KFE_LOCK_NAME	00000230	R	02
KFE_LOCK_NAME_SIZE	= 00000012		
LCK\$GB_HTBLSHFT	000002F8	RG	02
LCK\$GB_MAXDEPTH	000002F9	RG	02
LCK\$GB_REBLD STATE	000002FB	RG	02
LCK\$GB_STALLREQS	000002FA	RG	02
LCK\$GL_DIRVEC	000002E0	RG	02
LCK\$GL_HASHTBL	000002D0	RG	02
LCK\$GL_HTBLCNT	000002D4	RG	02
LCK\$GL_IDTBL	000002C4	RG	02
LCK\$GL_MAXID	000002CC	RG	02
LCK\$GL_NXTID	000002C8	RG	02
LCK\$GL_PRCMAP	000002E4	RG	02
LCK\$GL_TIMEOUTQ	000002D8	RG	02
LCK\$GQ_BITMAP_EXP	000002E8	RG	02
LCK\$GQ_BITMAP_EXPLCL	000002F0	RG	02
LNMSAL_DIRTBL	00000064	RG	02
LNMSAL_HASHTBL	00000058	RG	02
LNMSAL_MUTEX	00000070	RG	02
LNMSGL_SYSDIRSEQ	00000074	RG	02
LNMS\$SYSTEM DIRECTORY	*****	X	02
MCHK\$GL_MASK	00000294	RG	02
MCHK\$GL_SP	00000298	RG	02
NSASGR_ALARMVEC	00000328	RG	02
NSASGR_JOURNVEC	00000300	RG	02
NSASK_EVT_LENGTH	= 00000028		
PERMENTRY	000001E8	R	02
PMSS\$GL_COMPAT	00000194	RG	02
PMSS\$GL_EXEC	00000184	R	02
PMSS\$GL_INTER	00000190	R	02
PMSS\$GL_KERNEL	00000180	RG	02
PMSS\$GL_SUPER	00000188	R	02
PMSS\$GL_USER	0000018C	R	02
RMS\$GL_SFDBASE	00000288	RG	02
RMS\$GW_GBLBUFQUO	00000000	RG	03
SWIS\$GL_FQBL	00000024	RG	02
SWIS\$GL_FQFL	00000020	RG	02
SYSS\$GQ_PWD	00000364	RG	02
SYSS\$GQ_VERSION	00000254	RG	02
SYSS\$GW_BJOBcnt	00000260	RG	02
SYSS\$GW_IJOBcnt	0000025C	RG	02
SYSS\$GW_NJOBcnt	0000025E	RG	02
SYSS\$K_VERSION	*****	X	02
TQESC_SSREPT	= 00000005		
TQESC_TMSNGL	= 00000000		
TQESM_REPEAT	= 00000004		
TTY\$K_WB_LENGTH	= 00000030		
XQP\$GL_DZRO	00000358	RG	02

XQP\$GL_FILESERVER	0000035C	RG	02
XQP\$GL_FILESERV_ENTRY	00000360	RG	02
XQP\$GL_SECTIONS	00000354	RG	02

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$AB\$\$	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
\$\$\$260	000003E4 (996.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC QUAD
\$\$\$00RMS	00000040 (64.)	03 (3.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC QUAD

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	31	00:00:00.06	00:00:00.72
Command processing	113	00:00:00.56	00:00:03.04
Pass 1	252	00:00:07.58	00:00:21.86
Symbol table sort	0	00:00:01.02	00:00:03.12
Pass 2	193	00:00:02.73	00:00:10.89
Symbol table output	21	00:00:00.17	00:00:00.17
Psect synopsis output	2	00:00:00.03	00:00:00.13
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	614	00:00:12.15	00:00:39.93

The working set limit was 1500 pages.
41995 bytes (83 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 723 non-local and 10 local symbols.
1088 source lines were read in Pass 1, producing 24 object records in Pass 2.
19 pages of virtual memory were used to define 18 macros.

! Macro library statistics !

Macro library name	Macros defined
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	11
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	3
TOTALS (all libraries)	14

660 GETS were required to define 14 macros.

There were no errors, warnings or information messages.

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

