

17:47 SEP 08, 175 ID=010E
JOB :POST,BRU33323132,7 * TERMINAL JOB
LIMIT (CORE,16),(TIME,10)
ASSIGN M:SI,(FILE,GH0ST1D,:D00TSI)
ASSIGN M:CI,(FILE,GH0ST1D,:D00CI)
METASYM SI,CI,L0,CN
*SS R0,R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,R12,R13,R14,R15
SS SR1,SR2,SR3,SR4,D1,D2,D3,D4,
*END

AF					
ANLZT	56/LI				
BLANK	574/LD	614=TEXTC			
	496.1/M:PRINT	632= EQU			
BLNKLN	496.1-M:PRINT	511/EXU			
BBBTFLG	64/REF	285/MTW	295/LC	564/STW	
BBBTYPE	210= EQU	217/ EQU	545/CH		
CINIT050	682= EQU	682/ BLE			
CLSDUMP	442= GFN	522/ CAL1			
CLSPATCH	365= GFN	445/ CAL1			
CBIRCVD0FF	172/SREF	705/ EXU			
CBIXPSDB	175/SREF	683/ LW			
CBC	163/SREF	679/ LI			
CBCINIT	199/SREF	692/ B	694/ BCR	697/ BCR	719/ B
CBCINITNR	455/ BAL	672= EQU			
CBD:LPC	170/SREF	702/ LD			
CBH:DN	162/SREF	700/ LH			
CBH:IB	172/SREF	684/ LH			
CBNT	470/ LW	630= TEXT			
CNTDOWN					

	476/BANZ	490=EGU		
CONTINU	483.1/B	515=EGU		
CORED	122/REF	516/LW		
DABN	373/DATA	373/DATA	379-RFS	
DABN1	379.2/BE	379.2=EGU		
DCTSIZ	99/REF	462/CI	479/CI	
DCT16	93/REF	499/LD		
DCT3	87/REF	462/LB		
DCT8	90/REF	321/LW		
DCT9	92.1/REF	473.1/LW		
DFVDBWN	465/BANZ	489=EGU		
DFVBPB	291/CAL1	292/CAL1	301/CAL1	723=GEN
DISPLAY	492/BGZ	492=EGU		
D8WNC	475/CI	627.2=EGU		
D8WNCA	627.2=EGU	627.2/EGU		
D8WNCP	627.1=EGU	627.2/EGU		
D8WND	464/CI	627=EGU		
DSCCVT	158/REF	534/BAL		
DUMPFIL	108/REF	381/STW	519/STH	578/MTW

ENDITMS			
ENDPRT	512/M:PRINT	644=EGU	
ERFLG	482/BGEZ	510=EGU	
ERRLOG	386/MTB	454=BCS	
ERSKIP	139/REF	562/BAL	
EXIT	454/BCS	452=EGU	
FF:ARM	284/BCS	284/BE	610=LI
	207.7/SREF	719.12/EXU	
FFB:CDX	207.9/SREF	719.12/LB	
FPCP#	207.5/SREF	589.1/LI	719.9/LI
FPCPINIT	457.1/BAL	719.1=RES	
FFF:SUP	207.8/SREF	719.21/GEN	
FEH:ALV	207.6/SREF	719.11/LH	
FILLT	608/LD	615=TEXTC	
FINIT1	719.3/BFZ	719.2=RES	
FINIT2	719.11=LH	719.19/BDR	
FNAME	587/LD	612=TEXTC	
GH0ST1	5/DFP	282=EGU	726/END
GH0ST1D	4/DFP	32=CSECT	
GH0J0B			

GBTYPE	597/BFZ	604-EQU	
GTNXTCBC	544/BE	548-LI	
	702/BCS	713-EQU	
HA	217/EQU	217-EQU	
HASPIB	201/SREF	313/LI	322/CI
INT#	207.2/SREF	719.2/LI	
INTCONT	207.4/SREF	719.4/LW	
INTLOC	207.3/SREF	719.5/LB	
ITMPRT	496/M:PRINT	638-EQU	
KRD1	573/BCS	580-EQU	
LCOC	166/SREF	687/CI	715/CI
LF	56-LI		
LLNDD	85/REF	289/AND	
LOGFIL	589.2/BFZ	590-EQU	
LOGFIL2	592/BFZ	603/B	607-EQU
LOGRCVG	570/BNEZ	577-EQU	
M:DB	75/REF	287/LI	
M:LL	77/REF	294/LI	624/GEN
M:LB	79/REF	292/LI	

M:PATCH					
M:PRINT	33/REF	365/GEN			
	54-CNAME				
M:TM					
MASTER	81/REF	367/GEN	371/GEN	442/GEN	525/LW
	283/CAL1	622-DATA			
MESS					
MOSTOP	496/M:PRINT	496.1/M:PRINT	505/M:PRINT	512/M:PRINT	
	598-LB	602/BDR			
MPBITS					
MSGPRT	51.1-SET				
	471/STW	502/STW	504/STW	505/M:PRINT	641-EQU
NEWQ					
	207.10/REF	719.17/BAL			
NSCPU					
	311/LI	591/LI			
NXTCBC					
	699-EQU	716/BLE			
NXTCENT					
	473-EQU	480/BLE			
NXTDEV					
	462-EQU	469/BLE			
NXTLINE					
	704-EQU	712/BLE			
OPNAB					
	382/B	532-EQU			
OPNDUMP					
	371-GEN	524/CAL1			
PAGE					
	495/CAL1	624-GEN			
PASSO					
	145/REF	359/LI	361/BCR		
PASOCHK					

PASORTN	353/BCS	352-EQU		
PRINT	60/DEF	444-EQU		
RASIZE	57/CAL1	622=DATA		
RBLIMS	161/SREF	302/AI		
RCVCODE	105/REF	312/LW	319/CW	
RCVRCNT	132/REF	554/LW		
RFCOV	129/REF	550/LS		
RECOVER2	354-EQU			
RFCVRTN	141/REF	355/BAL	360/BCS	362/BAL
RSTTM	357/B	362/B	446-EQU	
RT:REBOOT	367-GEN	521/CAL1		
S:ACORE	156/REF	457/BAL		
S:ADR	116/REF	342/LW	348/STW	
S:PCORE	207/REF	557/LW		
S:STLC	118/REF	350/AWM		
SB:INIT	120/REF	310/STW	339/AWM	
SB:RCVA	187/SREF	592/LB	601/STB	
SB:RCVR	185/SREF	595/STW		
	183/SREF	594/STW		

SEEK4000								
SFTSTL	126/REF	537/STW						
SETSTL1	314/BNEZ	319-CW	328/B					
SFTSTL2	316/BFZ	320/BL	330-EQU					
SL:BSTRT	333/BFZ	337/BLEZ	341-EQU					
SL:CORE	191/SREF	596/MTW						
SL:IPWP	114/REF	345/CW	347/STW					
SL:RSVP	196/SREF	332/LI	335/AW	336/AW				
SL:STLM	112/REF	342/STW						
SMAKFLG	110/REF	309/STW	338/AWM					
SMUIS	135/REF	572/LC						
SNDDX	124/REF	520/AI						
STOPBIT	101/REF	306/LB						
SUABTFLE	599.1/AI							
SUPCODE	207.1/REF	528.1/STW	528.2/STW					
SYSMAK	719.14/BR	719.21-GEN						
T:RTSCHED	149/REF	447/BAL						
T:GJOBSTRT	154/REF	456/BAL						
	152/REF	567/BAL	575/BAL	582/BAL	586/BAL	588/BAL	589.4/BAL	
	606/BAL	609/BAL						

TBP:PAGE	494-EQU	514/EXU	
TXCFIFIL	525/LD	620-TEXTC	
TXCRBBAT	566/LD	616-TEXTC	
TXCRVGST	581/LD	617-TEXTC	
TXFR0G	589.3/LD	621.1-TEXTC	
TXM00SE	605/LD	621-TEXTC	
XFC	132/REF	599/AND	
2NXTCBNT	477-EQU	502/B	
2NXTDEV	466-EQU	507/BEZ	
278010	204/SREF	315/LI	324/CI
#000TS	217-EQU	542/LI	

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02 00000

*****
**M*      GH0ST1D  GH0ST1 DRIVER
*****
      DEF      GH0ST1D          MODULE NAME
      DEF      GH0ST1          GH0ST1DIS ENTRY POINT

**P*
**P*      NAME:      GH0ST1D
**P*      PURPOSE:  INITIATE THE GH0ST1 PROCESSOR.
**P*      DESCRIPTION: GH0ST1D EXITS IMMEDIATELY IF THE SYSTEM
**P*                   IS UP & RUNNING. OTHERWISE, GH0ST1D DETERMINES
**P*                   HOW IT WAS ENTERED, I.E., BY RECOVERY, BOOT
**P*                   UNDER THE FILES, COLD TAPE BOOT, OR FROM
**P*                   RAD/DISC BOOT. GH0ST1D THEN ENTERS SYMAK TO
**P*                   INITIALIZE THE PROCESSORS. COB INITIALIZATION,
**P*                   BATCH SCHEDULER INITIALIZATION, & REAL-TIME USER
**P*                   INITIALIZATION ARE THEN PERFORMED UNLESS
**P*                   RECOVERY HAS ABORTED. THEN NO INITIALIZATION
**P*                   IS DONE. GH0ST1D THEN DISPLAYS, IF REQUESTED,
**P*                   THE PARTITIONING INFO IDENTIFYING WHAT
**P*                   DEVICES &/OR CONTROLLERS ARE PARTITIONED.
**P*                   GH0ST1D ENTERS A SYSTEM START-UP ERROR LOG
**P*                   MESSAGE & THEN STARTS THE SYMBIONT GH0ST.
**P*                   OTHER GH0STS STARTED INCLUDE:
**P*                   ANLZ (ONLY AFTER RECOVERY)
**P*                   RVGH0ST (IF DUMP FILE EXISTS)
**P*                   ERR:FIL
**P*                   FIX
**P*                   MOOSE (IF SLAVE OVER-RIDE IS SET
**P*                           FOR MULTI-PROCESSING SYSTEM)
**P*                   GH0ST1D THEN CHANGES GH0ST1DIS ENTRY FOR GH0ST
**P*                   START-UP TO FILL. GH0ST1D THEN EXITS TO FILL.
**P*
GH0ST1D  CSECT  1

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34			PAGE	
35	00000000	R0	EGU	0
36	00000001	R1	EGU	1
37	00000002	R2	EGU	2
38	00000003	R3	EGU	3
39	00000004	R4	EGU	4
40	00000005	R5	EGU	5
41	00000006	R6	EGU	6
42	00000007	R7	EGU	7
43	00000008	R8	EGU	8
44	00000009	R9	EGU	9
45	0000000A	R10	EGU	10
46	0000000B	R11	EGU	11
47	0000000C	R12	EGU	12
48	0000000D	R13	EGU	13
49	0000000E	R14	EGU	14
50	0000000F	R15	EGU	15
51		*		
1*	00000001	MPBITS	SET	1
53			SYSTEM	UTS
54	00000000	MIPRINT	CNAME	
55			PRBC	
56		LF	LI,14	AF(1,2)
57			CAL1,2	PRINT
58			PEND	

MULTIPROCESSING FLAGS

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PAGE
DEF

PASORTN

RETURN ENTRY TO GHOST1
FROM GENMDG MODULE

LINE	CHARACTERS	PAGE	DESCRIPTION
62			
63	*		
64		REF	BOOTFLG
65	*,*		INPUT OUTPUT WORD
66	*,*		FLAG CONTAINING THE TYPE OF
67	*,*		ENTRY INTO GHOST1.
68	*,*		BYTE=0 CONTAINS THE FLAGS:
69	*,*		80 = I (TTY I/O)
70	*,*		40 = P (LP OUTPUT)
71	*,*		20 = C (CARD PATCHES)
72	*,*		10 = T (TAPE PATCHES)
73	*,*		08 = F (TAPE FILES)
74	*,*		04 = D (XDELTA RETAINED)
75		REF	M:DB
76	*,*		DCB
77		REF	M:LL
78	*,*		OPEN DIAGNOSTIC OUTPUT
79		REF	M:LB
80	*,*		DCB
81		REF	M:TM
82	*,*		OPEN LISTING OUTPUT
83		REF	M:PATCH
84	*,*		DCB
85		REF	LLNDD
86	*,*		PATCH FILE DCB
87		REF	DCT3
88	*,*		INPUT WORD
89	*,*		LISTING DEV.ADDR.DURING BOOT
90		REF	DCT8
91	*,*		INPUT BYTE
92	*,*		CHECK IF DEVICE IS PARTITIONED
1*		REF	DCT9
2*	*,*		BIT 2
3*	*,*		INPUT WORD
4*	*,*		CHECK HANDLER ADDRESSES FOR
93		REF	DCT16
94	*,*		SPECIAL HANDLERS
			INPUT WORD BITS 3-4
			CHECK IF CONTROLLER IS PARTITIONED
			BIT 3 = 1, ALTERNATE
			BIT 4 = 1, PRIMARY
			INPUT DOUBLE WORD
			DISPLAY 'YYNDD' FOR PARTITIONED

95	*,*		DEVICES
99		REF	DCTSIZ INPUT
100	*,*		SIZE OF DCT TABLES
101		REF	SNDDX INPUT BYTE
102	*,*		BYTE=0 * # ENTRIES IN SYMBIANT TABLES
103	*,*		USED TO SET UP PAGE STEALING DURING
104	*,*		BOOT
105		REF	RBLIMS INPUT DOUBLE WORD
106	*,*		REMOTE BATCH STATION SYMBIANT
107	*,*		INDEX LIMITS
108		REF	DUMPFIL OUTPUT TABLE
109	*,*		SET INFO FOR RVGH0ST
110		REF	SLISTLM OUTPUT WORD
111	*,*		MAX.# PAGES TO BE STOLEN
112		REF	SLIRSVF OUTPUT WORD
113	*,*		# RESERVED PAGES FOR STEALER
114		REF	SLICORE INPUT OUTPUT WORD
115	*,*		MAX.SWAPPER SIZE
116		REF	S:ACORE INPUT OUTPUT WORD
117	*,*		# PAGES AVAILABLE TO SYSTEM
118		REF	S:PCORE OUTPUT WORD
119	*,*		# PAGES AVAILABLE TO USER
120		REF	S:STLC OUTPUT WORD
121	*,*		# CURRENTLY STEALABLE PAGES
122		REF	CORED INPUT WORD
123	*,*		ADDRESS OF PHYSICAL MEMORY+1
124		REF	SMUIS INPUT
125	*,*		MAX.# USERS IN SYSTEM
126		REF	SEEK4000 OUTPUT WORD
127	*,*		DUMPFILS SEEK ADDRESS LOCATED IN
128	*,*		SEEK4000 =1
129		REF	RCVRCNT INPUT WORD
130	*,*		RECOVERY COUNT USED IN SYSTEM
131	*,*		START-UP ERROR LOG ENTRY
132		REF	RCVCODE INPUT WORD
133	*,*		CONTAINS RECOVERY SCREECH
134	*,*		CODE & SUB-CODE

135		REF	SMAKFLG	INPUT BITS 0=3
136	*,*			FLAG = 8, START RVGHOST INSTEAD OF
137	*,*			ANLZ AS DUMPFIL CONTAINS THE DUMP
138		REF	XFC	CONSTANT X'000000FC'
139		REF	ERRLOG	ROUTINE
140	*,*			ADD SYSTEM STARTUP ENTRY TO ERROR LOG
141		REF	RECOVER2	ROUTINE
142	*,*			GH0ST1 HAS BEEN ENTERED AS A
143	*,*			RESULT OF A RECOVERY OR
144	*,*			OPERATOR RECOVERY
145		REF	PASSO	ROUTINE
146	*,*			ENTER PASSO IF TAPE BOOT OR
147	*,*			AFTER RECOVER2 COMPLETES ITS
148	*,*			BOOT UNDER THE FILES FUNCTIONS
149		REF	SYSMAK	ROUTINE
150	*,*			ENTERED TO INITIALIZE THE SYSTEM
151	*,*			PROCESSORS
152		REF	T:GJOBSTRT	ROUTINE
153	*,*			START UP DESIGNATED GH0ST
154		REF	T:BTSCHEM	ROUTINE
155	*,*			INITIATE BATCH SCHEDULER
156		REF	RTIREBOOT	ROUTINE
157	*,*			INITIALIZE REAL-TIME USER(S)
158		REF	DSCCVT	ROUTINE
159	*,*			CONVERT SECTOR ADDRESS TO A
160	*,*			DISC SEEK ADDRESS
161		SREF	RASIZE	INPUT
162	*,*			# READ AHEAD ENTRIES
163		SREF	CBC	INPUT
164	*,*			= 0 NON-CBC SYSTEM
165	*,*			> 0 CBC SYSTEM
166		SREF	LCBC	INPUT
167	*,*			# CBCS =1
168		SREF	CBH:DN	INPUT HALF WORD
169	*,*			OBTAIN CBC ADDRESS
170		SREF	CB0: LPC	INPUT DOUBLE WORD
171	*,*			CBC'S LOGICAL LINE LIMITS

172		SREF	CO:RCVD0FF	INPUT
173	*,*			INSTRUCTION TO TURN RECEIVER
174	*,*			L DATASET OFF
175		SREF	CO:XPSD0	INPUT WORD
176	*,*			OBTAIN OUTPUT INTERRUPT XPSD
177	*,*			INSTRUCTION
178		SREF	COH:IO	INPUT HALF WORD
179	*,*			OBTAIN OUTPUT INTERRUPT ADDRESS
183		SREF	SB:RCVR	OUTPUT WORD
184	*,*			SET MASTER RECOVER FLAG =0
185		SREF	SB:RCVA	OUTPUT WORD
186	*,*			SET SLAVE RECOVER FLAG =0
187		SREF	SB:INIT	INPUT OUTPUT BYTE
188	*,*			SET BIT=7 =0 (START FLAG), &
189	*,*			SET BIT=6 =1 (STOP FLAG)
190	*,*			OF SLAVES FLAG
191		SREF	SL:BSTRT	INPUT WORD
192	*,*			SLAVE OVERRIDE FLAG CHECK
193	*,*			= 0 START MOOSE GHOST
194	*,*			> 0 FIX UP SB:INIT FLAG
195	*,*			& DON'T START MOOSE GHOST
196		SREF	SL:PWP	INPUT WORD
197	*,*			#PHYSICAL WORK PAGES REQUIRED FOR
198	*,*			TP. PASS2-GENERATED ON BASIS OF PWP OPTION
199		SREF	CO:INIT	ROUTINE
200	*,*			INITIALIZE COCS
201		SREF	HASPI0	ROUTINE
202	*,*			CHECK PRESENCE OF HASPI0 HANDLER
203	*,*			IN SYSTEM
204		SREF	2780I0	ROUTINE
205	*,*			CHECK PRESENCE OF 2780I0 HANDLER
206	*,*			IN SYSTEM
207		REF	S:ADR	CPU HARDWARE ADDRESS TABLE
1*		REF	SUABTFLE	SINGLE USER ABORT FDA OF DUMPFLE.
2*		SREF	INT#	# EXTERNAL INTS TO INIT
3*		SREF	INTLOC	WHERE THEY GO
4*		SREF	INTCONT	WHAT TO PUT THERE

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FECF#
FEH:ALV
FE:ARM
FEF:SUP
FEB:CDX
NEWQ

FECPS
INTERRUPT LEVEL BIT
ARM INSTRUCTION
SYSTEM UPPING FUNCTION CODE FOR FECF
FECF DCT INDEX
TELL FECPS SYSTEM IS UP

208						PAGE	
209						PCC	0
210		02	00000			FGU	\$
211	02	00000		D5D6	A	DATA,2	'N8'
212	02	00000	2	2210	A	DATA,2	X'2210'
213	02	00001		FFFF	A	DATA,2	X'FFFF'
214	02	00001	2	6C00	A	DATA,2	X'6C00'
215	02	00002		0000	A	DATA,2	X'0000'
216	02	00002	2	0001	A	DATA,2	X'0001'
217			00000005			#BBBTS	FGU
218							HA(\$)=HA(BBBTYPE)-1
219						*	
						*	

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221 *F*
222 *F* NAME: GHOST1
223 *F* PURPOSE: INITIATE THE GHOST1 PROCESSOR.
224 *F* DESCRIPTION: GHOST1 EXITS IMMEDIATELY IF THE SYSTEM
225 *F* IS UP & RUNNING, OTHERWISE, GHOST1 DETERMINES
226 *F* HOW IT WAS ENTERED, I.E., BY RECOVERY, BOOT
227 *F* UNDER THE FILES, COLD TAPE BOOT, OR FROM
228 *F* RAD/DISC BOOT. IF BOOT IS A TAPE BOOT OR
229 *F* BOOT UNDER FILES, GHOST1 THEN EXITS TO PASSO.
230 *F* OTHERWISE, GHOST1 ENTERS SYSMAK TO
231 *F* INITIALIZE THE PROCESSORS, COB INITIALIZATION,
232 *F* BATCH SCHEDULER INITIALIZATION, & REAL-TIME USER
233 *F* INITIALIZATION ARE THEN PERFORMED UNLESS
234 *F* RECOVERY HAS ABORTED, THEN NO INITIALIZATION
235 *F* IS DONE. GHOST1 THEN DISPLAYS, IF REQUESTED,
236 *F* THE PARTITIONING INFO IDENTIFYING WHAT
237 *F* DEVICES &/OR CONTROLLERS ARE PARTITIONED.
238 *F* GHOST1 ENTERS A SYSTEM START-UP ERROR LOG
239 *F* MESSAGE & THEN STARTS THE SYMBIONT GHOST.
240 *F* OTHER GHOSTS STARTED INCLUDE:
241 *F* ANLZ (ONLY AFTER RECOVERY)
242 *F* RVGHOST (IF DUMP FILE EXISTS)
243 *F* ERR:FIL
244 *F* FIX
245 *F* MOOSE (IF SLAVE OVER-RIDE IS SET
246 *F* FOR MULTI-PROCESSING SYSTEM)
247 *F* GHOST1 THEN CHANGES GHOST1'S ENTRY FOR GHOST
248 *F* START-UP TO FILL. GHOST1 THEN EXITS TO FILL.
249 *DB*
250 *D* NAME: GHOST1
251 * ENTRY: DABN
252 * PURPOSE: INITIATE THE GHOST1 PROCESSOR.
253 * DESCRIPTION: GHOST1 EXITS IMMEDIATELY IF THE SYSTEM
254 * IS UP & RUNNING, OTHERWISE, GHOST1 DETERMINES
255 * HOW IT WAS ENTERED, I.E., BY RECOVERY, BOOT
256 * UNDER THE FILES, COLD TAPE BOOT, OR FROM
257 * RAD/DISC BOOT. GHOST1 THEN ENTERS THE

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APPROPRIATE MODULE IN GHOST1'S LOAD MODULE
 TO PERFORM THE NECESSARY FUNCTIONS
 DEPENDING UPON HOW GHOST1 WAS ENTERED.

DABN * ENTERED WHEN I/O ERROR FROM M:TM.

THE TYPE OF BOOT INDEX USED THROUGHOUT GHOST1
 IS AS FOLLOWS:

INDEX	TYPE OF BOOT
0	INDETERMINATE
1	COLD TAPE BOOT
2	BOOT UNDER FILES
3	RAD BOOT
4	RECOVERY
5	OPERATOR RECOVERY

INTERFACE: EXIT, HASPI0, 2780I0, RECOVER2, RECVRTN,
 PASS0, BPNA0.

REGISTERS: ALL USED

ENVIRONMENT: MAPPED, MASTER

FIN

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282      02 00003
283 02 00003 046000FF
284 02 00004 698000EB
285 02 00005 33000000 X
286 02 00006 683000EB
287 02 00007 22100000 N
288 02 00008 22203FFF A
289 02 00009 4B200000 X
290 02 0000A 20204000 A
291 02 0000B 0410014F
292 02 0000C 22100000 N
293 02 0000D 0410014F
294 02 0000E 22100000 N
295 02 0000F 70200000 X
296 02 00010 69400012
297 02 00011 222005D6 A
  1* 02 00012 6830002A A
  2* 02 00013 64300015
299 02 00014 69300016
300 02 00015 222003D7 A
301 02 00016 0410014F
302
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306 02 00017 72100000 X
307 02 00018 2510007F A
308 02 00019 20100000 N
309 02 0001A 35100000 X
310 02 0001B 35100000 X
311 02 0001C 22A00003 N
312 02 0001D 22B00002 A
313 02 0001E 22000000 N
314 02 0001F 69300023
315 02 00020 22000000 N
316 02 00021 6830002E
317 02 00022 22B00001 A
    
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GH0ST1  FGU      $
          CAL1,6  MASTER
          BCS,8   EXIT
          MTW,0   BOOTFLG
          BE      EXIT
          LI,1    M:DB
          LI,2    X13FFF1
          AND,2   LLNDD
          AI,2    X140001
          CAL1,1  DEV0PN
          LI,1    M:L0
          CAL1,1  DEV0PN
          LI,1    M:LL
          LC      BOOTFLG
          BCS,4   $+2
          LI,2    IN01
          INT,3   X12A1
          BDR,3   $+2
          BNEZ    $+2
          LI,2    !LP1
          CAL1,1  DEV0PN
    
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DIDNT WORK
DONT RUN IF WE ARE UP

M:DB DCB

!LL1 DEVICE ADDRESS
DIAG BIT
OPEN M:DB DCB
M:L0 DCB
OPEN M:L0 DCB
OPEN LL
TO IN01 IF NO LP OUTPUT
SET ON ANY RAD BOOT(RECOV, ETC.)
    
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*
* SET UP PAGE STEALING CELLS SO THAT WRITE-AHEAD CAN
* BE DONE DURING BOOT
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          LB,1    SNDDX
          SLS,1   =1
          AI,1    RASIZE
          STW,1   SLISTLM
          STW,1   S:STLC
          LI,R10  3+NSCPU
          LI,11   2
          LI,0    HASPI0
          BNEZ    SETSTL=1
          LI,0    278010
          BEZ     SETSTL1
          LI,11   1
    
```

```

ADD # READ-AHEAD ENTRIES

DEFAULT PGS +1 FOR EACH SLAVE CPU DE
    
```

```

318 02 00023 32100001 N
319 02 00024 31100000 X
320 02 00025 6910002E
321 02 00026 32020000 X
322 02 00027 21000000 N
323 02 00028 6830002B
324 02 00029 21000000 N
325 02 0002A 6930002C
326 02 0002B 30A0000B A
327 02 0002C 201FFFFF A
328 02 0002D 68000024
329
330 02 0002E
331 02 0002E 25A0007F A
332 02 0002F 22100000 N
333 02 00030 68300038
334 02 00031 221FFFFA A
335 02 00032 30A00000 X
336 02 00033 30100000 X
337 02 00034 68200038
338 02 00035 66100000 X
339 02 00036 66100000 X
340 02 00037 38A00001 A
341 02 00038
342 02 00038 35A00000 X
343 02 00039 32100000 X
344 02 0003A 3810000A A
345 02 0003B 31100000 X
346 02 0003C 6810003E
347 02 0003D 35100000 X
348 02 0003E 35100000 X
349 02 0003F 3AA0000A A
350 02 00040 66A00000 X
351
352 02 00041 7020002A A
353 02 00042 69F00046
354 02 00043

```

```

SETSTL LW,1 RBLIMS+1
        CW,1 RBLIMS
        BL SFTSTL1
        LW,0 DCT8,1
        CI,0 HASPI8
        BE *+3
        CI,0 278018
        BNE *+2
        AW,10 11
        AI,1 =1
        B SETSTL
*
SETSTL1 FGU *
        SLS,10 =1
        LI,1 SL:PWP
        BEZ SETSTL2
        LI,1 =6
        AW,10 SL:PWP
        AW,1 SL:PWP
        BLEZ SETSTL2
        AWM,1 SL:STLM
        AWM,1 S:STLC
        SW,10 1
SETSTL2 FGU *
        STW,10 SL:RSVP
        LW,1 S:ACORE
        SW,1 10
        CW,1 SL:CORE
        BGE *+2
        STW,1 SL:CORE
        STW,1 S:ACORE
        LCW,10 10
        AWM,10 S:PCORE
*
REC0V LC X'2A'
        BCS,15 PASOCHK
        EQU *

```

CK FOR PRESENCE OF TP PHYSICAL WK PG
B, IF NONE
WILL SUBTRACT 6 PGS FROM SL:PWP
ASSUME SL:PWP LESS THAN OR = 6
BUT, CHECK ON THIS
B, IF S8; ALL PAGES TO SL:RSVP
ELSE, ADD SL:PWP =6 PGS TO STLM
UPDATE INITIAL STLM COUNT ALSO
GET EXCESS OVER 6 PGS BACK FROM RSVP

GET BOOT TYPE
NOT RECOVERY

HC1 17147 SEP 08, 175

355 02 00043 6AB00000 X
 356 02 00044 73F00070
 357 02 00045 6800006F
 358 02 00046
 359 02 00046 22B00000 N
 360 02 00047 69800000 X
 361 02 00048 68400000 X
 362 02 00049 6AB00000 X
 363 02 0004A 6800006F

PASOCHK

BAL,11 RECOVER2
 MTB,=1 ERFLG
 B RECVRTN
 FGU \$
 LI,11 PASS0
 BCS,8 RECOVER2
 BCR,4 PASS0
 BAL,11 RECOVER2
 B RECVRTN

ERROR, DONT RESTART USERS

EXIT TO PASS0 FROM RECOVER2
 IF BOOT UNDER FILES
 TAPE BOOT
 RESTORE ZAPPED DATA IF RAD BOOT

H01 17147 SEP 08, 175

365 02 0004B 15000000 N
 366 02 0004C 80000000 A
 02 0004D 00000002 A
 367 02 0004E 14000000 N
 368 02 0004F 00007001 A
 369 02 00050 00000001 A
 370 02 00051 03 A
 02 00051 1 00 A
 02 00051 2 00 A
 02 00051 3 00 A
 02 00052 04 A
 02 00052 1 00 A
 02 00052 2 00 A
 02 00052 3 00 A
 02 00053 05 A
 02 00053 1 00 A
 02 00053 2 00 A
 02 00053 3 00 A
 02 00054 06 A
 02 00054 1 00 A
 02 00054 2 00 A
 02 00054 3 00 A
 02 00055 05 A
 02 00055 1 01 A
 02 00055 2 00 A
 02 00055 3 00 A
 371 02 00056 14000000 N
 1* 02 00057 C5441001 A
 373 02 00058 00000063
 02 00059 00000063
 374 02 0005A 00000003 A
 02 0005B 00000002 A
 02 0005C 00000002 A
 1* 02 0005D 80000002 A
 375 02 0005E 80000003 A
 376 02 0005F 01 A
 02 0005F 1 01 A

CLSPATCH GEN,8,24 X:15',M:PATCH
 DATA X:80000000',2 CLOSE AND SAVE PATCH FILE

 RSTTM GEN,8,24 X:14',M:TM
 DATA X:7001'
 DATA 1
 DATA,1 3,,,,4,,,,5,,,,6,,,,11,1,,

 BPNDUMP GEN,8,24 X:14',M:TM
 DATA X:C5441001'
 DATA DABN,DABN

 DATA 3,2,2 RANDOM,BUT,SAVE

 PZE *R2 BP LABEL
 PZE *3
 DATA,1 1,1,3,3

H01 17147 SEP 08, '75

	02	0005F	2	03	A
	02	0005F	3	03	A
377	02	00060		08C4F4D4	A
	02	00061		D7C6C9D3	A
	02	00062		C5404040	A

TEXTC (DUMPFILF)

H01 17147 SEP 08, 1975

379 02 00063
 1* 02 00063 212004D7 A
 2* 02 00064 68300068
 3* 02 00065 222004D7 A
 4* 02 00066 208FFFFFF A
 5* 02 00067 E8000008 A
 6* 02 00068
 380 02 00068 222FFFFFF A
 381 02 00069 35200000 X
 382 02 0006A 680000B1

DABN

RES
 CI,R2
 BE
 LI,R2
 AI,R8
 B

'DP'
 DABN1
 'DP'
 =1
 *R8

DISK PACK
 YES=CANT GET FILE
 NO=TRY DISK PACK
 POINT BACK TO CAL
 TRY TO GET DUMPFIL E BN PACK

DABN1

EQU
 LI,R2
 STW,R2
 B

\$
 =1
 DUMPFIL E
 @PNAB

SET DUMPFIL E TO CANT GET FILE

```

384 *F*
385 *F*
386 *F*
387 *F*
388 *F*
389 *F*
390 *F*
391 *F*
392 *F*
393 *F*
394 *F*
395 *F*
396 *F*
397 *F*
398 *F*
399 *F*
400 *F*
401 *F*
402 *F*
403 *F*
404 *F*
405 *F*
406 *F*
407 *D*
408 *D*
409 *D*
410 *D*
411 *D*
412 *D*
413 *D*
414 *D*
415 *D*
416 *D*
417 *D*
418 *D*
419 *D*
420 *D*

```

NAME: PASORTN
PURPOSE: GHOST1'S GENMDG MODULE RETURN POINT.
DESCRIPTION: CLOSE PATCH FILE & THEN ENTER SYMAK TO
INITIALIZE THE PROCESSORS. COB INITIALIZATION,
BATCH SCHEDULER INITIALIZATION, & REAL-TIME USER
INITIALIZATION ARE THEN PERFORMED UNLESS
RECOVERY HAS ABORTED, THEN NO INITIALIZATION
IS DONE. PASORTN THEN DISPLAYS, IF REQUESTED,
THE PARTITIONING INFO IDENTIFYING WHAT
DEVICES &/OR CONTROLLERS ARE PARTITIONED.
PASORTN ENTERS A SYSTEM START-UP ERROR LOG
MESSAGE & THEN STARTS THE SYMBIONT GHOST.
OTHER GHOSTS STARTED INCLUDE:
ANLZ (ONLY AFTER RECOVERY)
RVGHOST (IF DUMP FILE EXISTS)
ERR:FIL
FIX
MOOSE (IF SLAVE OVER-RIDE IS SET
FOR MULTI-PROCESSING SYSTEM)
PASORTN THEN CHANGES GHOST1'S ENTRY FOR GHOST
START-UP TO FILL. PASORTN THEN EXITS TO FILL.

```

NAME: PASORTN
ENTRY: RECVRTN
ENTRY: 0PNAB
PURPOSE: GHOST1'S GENMDG MODULE RETURN POINT.
DESCRIPTION: CLOSE PATCH FILE & THEN ENTER SYMAK TO
INITIALIZE THE PROCESSORS. COB INITIALIZATION,
BATCH SCHEDULER INITIALIZATION, & REAL-TIME USER
INITIALIZATION ARE THEN PERFORMED UNLESS
RECOVERY HAS ABORTED, THEN NO INITIALIZATION
IS DONE. PASORTN THEN DISPLAYS, IF REQUESTED,
THE PARTITIONING INFO IDENTIFYING WHAT
DEVICES &/OR CONTROLLERS ARE PARTITIONED.
PASORTN ENTERS A SYSTEM START-UP ERROR LOG

```

```

421 *D* MESSAGE & THEN STARTS THE SYMBIANT GHOST.
422 *D* OTHER GHOSTS STARTED INCLUDE:
423 *D* ANLZ (ONLY AFTER RECOVERY)
424 *D* RVGHOST (IF DUMP FILE EXISTS)
425 *D* ERR:FIL
426 *D* FIX
427 *D* MOOSE (IF SLAVE OVER-RIDE IS SET
428 *D* FOR MULTI-PROCESSING SYSTEM)
429 *D* PASORTN THEN CHANGES GHOST1'S ENTRY FOR GHOST
430 *D* START-UP TO FILL. PASORTN THEN EXITS TO FILL.
431 *D*
432 *D* RECVRTN - ENTERED DIRECTLY FROM GHOST1 IF PASS0 IS
433 *D* NOT ENTERED.
434 *D* BPNAB - ENTERED ONLY IF I/O ERROR/ABNORMAL OCCURS
435 *D* WHEN OPENING THE DUMPFIL.
436 *D*
437 *D* INTERFACE: SYMAK,C0CINITNR,T:BTSCHE,RT;REBOOT,
438 *D* DSCCVT,MSMSET,ERRLOG,T:GJOBSTRT.
439 *D* REGISTERS: ALL USED
440 *D* ENVIRONMENT: MAPPED, MASTER
441 *D*
442 02 0006B 15000000 N CLSDUMP GEN,R,24 X:15',M:TM
443 02 0006C 80000000 A DATA X:80000000',2
444 02 0006D 00000002 A
445 02 0006E 0410004B PASORTN EQU $
446 02 0006F 6AB00000 X RECVRTN CAL,1,1 CLSPATCH CLOSE AND SAVE THE PATCH FILE AFTER
447 02 0006F 6AB00000 X RECVRTN EQU $
448 * BAL,11 SYMAK INITIALIZE PROCESSORS
449 *
450 * THE FOLLOWING INSTRUCTION BECOMES A BRANCH IF
451 * RECOVER2 OR HGPRECONSTRUCT ABORT
452 * USER REINITIALIZATION CODE SHOULD THEREFORE BE
453 * PLACED BETWEEN ERFLG AND ERSKIP
454 02 00070 69000075 * ERFLG BCS,0 ERSKIP
455 02 00071 6AB0011D * BAL,R,1 C0CINITNR BAL/INITIALIZE C0C
456 02 00072 6AB00000 X * BAL,11 T:BTSCHE

```

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457 02 00073 6A800000 X
 1* 02 00074 6A80013C
 458 02 00075
 459 02 00075 22A00000 A
 460 02 00076 22BFFFFFF A
 461 02 00077 22100001 A
 462 02 00078
 463 02 00078 72320000 X
 464 02 00079 21300020 A
 465 02 0007A 6940008B
 466 02 00079
 467 02 0007B 20100001 A
 468 02 0007C 21100000 N
 469 02 0007D 68200078
 470 02 0007E 32A00103
 471 02 0007F 35A0010E
 472 02 00080 22100001 A
 473 02 00081
 1* 02 00081 32320000 X
 2* 02 00082 72300003 A
 475 02 00083 21300018 A
 476 02 00084 6940008B
 477 02 00085
 478 02 00085 20100001 A
 479 02 00086 21100000 N
 480 02 00087 68200081
 481 02 00088 21B00000 A
 482 02 00089 6810009D
 483
 1* 02 0008A 680000A1
 488
 489 02 00089
 490 02 00089
 491 02 0008B 20B00001 A
 492 02 0008C 69200092
 493
 494 02 0008D

BAL,R11 RT:REBOOT
 BAL,R8 FECINIT
 FRSKIP EQU \$
 LI,R10 0
 LI,R11 =1
 LI,R1 1
 NXTDEV EQU \$
 LB,R3 DCT3,R1
 CI,R3 DOWND
 BANZ DEVDOWN
 2NXTDEV EQU \$
 AI,R1 1
 CI,R1 DCTSIZ
 BLE NXTDEV
 LW,R10 CNT
 STW,R10 MSGPRT+1
 LI,R1 1
 NXTCNT EQU \$
 LW,R3 DCT9,R1
 LB,R3 R3
 CI,R3 DOWNC
 BANZ CNTDOWN
 2NXTCNT EQU \$
 AI,R1 1
 CI,R1 DCTSIZ
 BLE NXTCNT
 CI,R11 0
 BGEZ ENDPRT
 *
 B CONTINU
 *-----
 DEVDOWN EQU \$
 CNTDOWN EQU \$
 AI,R11 1
 BGZ DISPLAY
 *
 TOP:PAGE EQU \$

REAL-TIME USER INITIALIZATION
 INITIALIZE FECP IF ANY
 =0 DEVICE, >0 CONTROLLER
 1ST TIME FLAG (I.F., DEVICE)
 DCT INDEX (FOR DEVICE)
 GET FLAGS
 YES-- DEV.PARTITIONED
 NO--- 2 NEXT DCT
 NO--- DONE
 YES-- SET MESSAGE
 FOR CONTROLLER
 DCT INDEX (FOR CONTROLLER)
 GET FLAGS
 YES-- CNT.PARTITIONED
 NO--- 2 NEXT DCT
 NO--- DONE
 YES-- ANY PARTITIONED ITEMS
 NO---
 SET FLAG TO NOT 1ST TIME
 NO--- WAS THIS THE 1ST TIME
 YES--

Line No.	Op	Code	Address	Label	Op	Code	Address	Description
495	02	0008D	04100102	CAL1,1	PAGE			TOP OF PAGE
496	02	0008E	22E00105	M:PRINT	(MESS,ITMPRT)			ITEMS PARTITIONED
	02	0008F	042000FF					
1*	02	00090	22E00104	BLNKLN	M:PRINT	(MESS,BLANK)		BLANK LINE
	02	00091	042000FF					
498		02	00092	DISPLAY	FQU	\$		
499	02	00092	12220000 X	LD,R2	DCT16,R1			GET 'YYNDD'
500	02	00093	25200108 A	SLD,R2	8			
501	02	00094	20300040 A	AI,R3	1			
502	02	00095	35300110	STW,R3	MSGPRT+3			PUT 'NDD' INTO MESSAGE
503	02	00096	22300001 A	LI,R3	1			
504	02	00097	5526010F	STH,R2	MSGPRT+2,R3			PUT 'YY' INTO MESSAGE
505	02	00098	22E0010D	M:PRINT	(MESS,MSGPRT)			'DEV/CONT YYNDD PART'
	02	00099	042000FF					
506	02	0009A	21A00000 A	CI,R10	0			
507	02	0009B	6830007B	BEZ	2NXTDEV	YES==	DEV.TYPE	
508	02	0009C	68000085	B	2NXTCONT	NO==	CONT.	
509								
510		02	0009D	ENDPRT	FQU	\$		
511	02	0009D	67000090	FXU	BLNKLN			BLANK LINE
512	02	0009E	22E00115	M:PRINT	(MESS,ENDITMS)			END OF PART ITEMS
	02	0009F	042000FF					
514	02	000A0	6700008D	EXU	TOP:PAGE			TOP OF PAGE
515		02	000A1	CONTINU	FQU	\$		
516	02	000A1	32300000 X	LW,R3	CORED			
517	02	000A2	203FFFFFF A	AI,R3	=1			
518	02	000A3	25300077 A	SLS,R3	=9			HIGHEST PAGE NUMBER IN MEMORY
519	02	000A4	55300001 N	STH,3	DUMPFIL+1			
520	02	000A5	20300001 N	AI,3	SMUIS+1			PLUS ROOM FOR USER JITS
521	02	000A6	0410004E	CAL1,1	RSTTM			CLEAN OUT THE M:TM DCB
1*	02	000A7	222004C3 A	LI,R2	'DC'			TRY TO GET DUMPFIL ON RAD
524	02	000A8	04100056	CAL1,1	OPNDUMP			OPEN THE FILE
525	02	000A9	32100001 N	LW,1	M:TM+1			CFUADDRESS
1*	02	000AA	32820001 A	LW,R8	1,R1			FDA OF DUMPFIL
527	02	000AB	32320005 A	LW,3	5,1			SIZE
528	02	000AC	0410006B	CAL1,1	CLSDUMP			
1*	02	000AD	35800000 X	STW,R8	SUABTFLE			FDA OF SUA RANDOM FILE

```

2* 02 000AE 35300001 N
536 02 000AF 6AB00000 X
537 02 000B0 3581FFFF N
538 02 000B1
539
540
541
542
543 02 000B1 22100005 A
544 02 000B2 5220002A A
545 02 000B3 51220000
546 02 000B4 683000B6
547 02 000B5 641000B3
548 02 000B6 22A01804 A
549 02 000B7 22300007 A
550 02 000B8 4A300000 X
551 02 000B9 5530000A A
552 02 000BA 7510000A A
553 02 000BB 25A00210 A
554 02 000BC 32D00000 X
555 02 000BD 25D00210 A
556 02 000BE 75D0000D A
557 02 000BF 32800000 X
558
559 02 000C0 2290FFFF A
560 02 000C1 4780000D A
561 02 000C2 2260000A A
562 02 000C3 6A500000 X
563 02 000C4 22100000 A
564 02 000C5 35100000 X
565
566 02 000C6 120000F2
567 02 000C7 6AA00000 X
568
569 02 000C8 7300002A A
570 02 000C9 693000CE
572 02 000CA 70200000 X
    
```

```

STW,R3 SUABTFLE+1 NUMBER OF SECTORS IN FILE
BAL,R11 DSCCVT GO-CONVERT TO SEEK
STW,R8 SEEK4000-1 SEEK OF X'4000'
EQU *
*
* INSERT SYSTEM START-UP ERROR LOG MESSAGE
*
*
LI,1 #BOOTS MAX LOOP
LM,2 X'2A' GET INDICATOR
CH,2 BOOTYPE,1 FIND MATCHUP
BE BOTYPE GOTCHA
BDR,1 *-2
BOTYPE LI,10 X'1804' CODE/COUNT FOR MSG
LI,3 7 MASK TO GET
LS,3 RCVRcnt COUNT
STH,3 10 TO PUT AWAY COUNT
STB,1 10 PUT AWAY TYPE
SCS,10 16 AND POSITION PROPERLY
LW,13 RCVCODE GET SCREECH CODE/SUBCODE
SCS,13 16 POSITION PROPERLY
STB,13 13
LW,R8 S:ADR GET HARDWARE ADDRESS
O FOR SIGMA 7
*
LI,R9 X'FFFF'
STS,R8 R13 POSITION IN RIGHT HALFWORD
LI,6 10 LOC OF ERR MSG
BAL,5 ERRLOG AND INSERT IT INTO LOG
LI,1 0 SET RUNNING FILA
STW,1 BOOTFLG
*
LD,0 TXCRBBAT
BAL,10 T:GJOBSTRT START SYMBIONT GHST
* NOTE: ANLZ MUST BE FIRST GHST STARTED AFTER RBBAT
MTB,0 X'2A'
BNEZ LOGRCVG
LC SMAKFLG DUMPFILF CONTAIN THE DUMP
    
```

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573	02	000CB	698000D0	BCS,8	KRD1	YES-DONT START ANLZ; START RVGH0ST
574	02	000CC	120000EE	LD,0	ANLZT	
575	02	000CD	6AA00000 X	BAL,10	T:GJOBSTRT	START ANLZ
576				*		
577		02	000CE	LOGRCVG	FQU	\$
578	02	000CE	33000000 X	MTW,0	DUMPFIL	
579	02	000CF	682000D2	BLEZ	\$+3	SINGLE USER ABORT !DUMPFIL! FREE
580		02	000D0	KRD1	FQU	\$
581	02	000D0	120000F4	LD,0	TXCRVGS	
582	02	000D1	6AA00000 X	BAL,10	T:GJOBSTRT	START THE RECOVER GH0ST
583				*	START ERR:FI	
584				*		
585	02	000D2	120000F8	LD,R0	TXCE:FIL	
586	02	000D3	6AA00000 X	BAL,R10	T:GJOBSTRT	
587	02	000D4	120000F6	LD,R0	FNAME	
588	02	000D5	6AA00000 X	BAL,R10	T:GJOBSTRT	START IT
589				*		
1*	02	000D6	22000000 N	LI,0	FECPS	IF FECPS, START GR0F
2*	02	000D7	683000DA	BEZ	LOGFIL	
3*	02	000D8	120000FC	LD,0	TXFR0G	
4*	02	000D9	6AA00000 X	BAL,10	T:GJOBSTRT	
590		02	000DA	LOGFIL	FQU	\$
591	02	000DA	22100000 N	LI,1	NSCPU	MP SYSTEM
592	02	000DB	683000E9	BEZ	LOGFIL2	N0
593	02	000DC	22000000 A	LI,0	0	
594	02	000DD	35000000 X	STW,0	SB:RCVR	ZER0 BUT MASTER RCVR FLAG
595	02	000DE	35000000 X	STW,0	SB:RCVA	ZER0 BUT SLAVE RCVR FLAG
596	02	000DF	33000000 X	MTW,0	SL:BSTRT	SLAVE 0VERRIDE SET
597	02	000E0	683000E7	BEZ	G0GJOB	N0, START M00SE
598	02	000E1	72A20000 X	M0ST0P	LB,10	GET FLAGS
599	02	000E2	4BA00000 X	AND,10	XFC	MASK BUT START/ST0P
1*	02	000E3	20A00002 A	AI,10	ST0PBIT	SET ST0P FLAG
601	02	000E4	75A20000 X	STB,10	SB:INIT,1	REST0RE FLAG
602	02	000E5	641000E1	BDR,1	M0ST0P	D0NE ALL
603	02	000E6	680000E9	B	LOGFIL2	YES,SKIP M00SE
604		02	000E7	G0GJOB	FQU	\$
605	02	000E7	120000FA	LD,0	TXM00SE	N0 0VERRIDE,START

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32

606 02 000E8 6AA00000 X
 607 02 000E9
 608 02 000E9 120000F0
 609 02 000EA 6AA00000 X
 610 02 000EB 22600000 A
 611 02 000EC 04900001 A

LOGFIL2

EXIT

BAL,10 T;GJOBSTRT
 EGU *
 LD,0 FILLT
 BAL,10 T;GJOBSTRT
 LI,6 0
 CAL1,9 1

M00SE

START UP FILL

EXIT TO FILL

613					BUND	R	
614	02	000EE	04C1D5D3	A	ANLZT	TEXTC	IANLZ!
	02	000EF	E9404040	A			
615	02	000F0	04C6C9D3	A	FILLT	TEXTC	IFILL!
	02	000F1	D3404040	A			
616	02	000F2	05D9C2C2	A	TXCRBBAT	TEXTC	IRBBAT!
	02	000F3	C1E34040	A			
617	02	000F4	07D9F5C7	A	TXCRVGST	TEXTC	IRVGHST!
	02	000F5	C8D6F2E3	A			
618	02	000F6	03C6C9E7	A	FNAME	TEXTC	IFIX!
619	02	000F7	40404040	A		TEXT	! !
620	02	000F8	07C5D9D9	A	TXCEIFIL	TEXTC	!ERRIFIL!
	02	000F9	7AC6C9D3	A			
621	02	000FA	05D4D6D6	A	TXM88SE	TEXTC	IM88SE!
	02	000FB	E2C54040	A			
1*	02	000FC	04C6D9D6	A	TXFR8G	TEXTC	IFR8G!
	02	000FD	C7404040	A			
622	02	000FE	08	A	MASTER	DATA,1	8,0,0,0
	02	000FE	1 00	A			
	02	000FE	2 00	A			
	02	000FE	3 00	A			
623	02	000FF	01000000	A	PRINT	DATA	X:1000000!,X:180000000!,X:18000000E!
	02	00100	80000000	A			
	02	00101	8000000E	A			
624	02	00102	04000000	N	PAGE	GEN,8,24	4,M:LL

MUST HAVE TRAILING BLANKS

626
 627 00000020
 1* 00000008
 2* 00000010
 3* 00000018

```

*****
DBWND   FGU      X'20'      DEV.DOWN
DBWNCP  FGU      X'08'      PRIM.CENT.DOWN
DBWNCA  FGU      X'10'      ALT.CENT.DOWN
DBWNC   EGU      DOWNCP+DOWNCA  CENT.DOWN
    
```

629
 630 02 00103 C3D6D5E3 A
 631
 632 02 00104
 633 02 00104 01404040 A
 637
 638 02 00105
 639 02 00105 1F405C5C A
 02 00106 565C5C40 A
 02 00107 C9E3C5D4 A
 02 00108 E240D7C1 A
 02 00109 D9E3C9E3 A
 02 0010A C9D6D5C5 A
 02 0010B C4405C5C A
 02 0010C 565C5C5C A

```

*****
CBNT    TEXT     'CBNT'
*****
BLANK   FGU      $
        TEXTC    ' '
*****
ITMPRT  FGU      $
        TEXTC    ' ***** ITEMS PARTITIONED ***** '
    
```

640
 641 02 0010U
 642 02 0010D 1E404040 A
 02 0010E C4C5F540 A
 02 0010F 4040F8E8 A
 02 00110 D5C4C440 A
 02 00111 40404040 A
 02 00112 D7C1D9E3 A
 02 00113 C9E3C9D6 A
 02 00114 D5C5C440 A

```

*****
MSGPRT  FGU      $
        TEXTC    ' DEV YYND PARTITIONED '
    
```

643
 644 02 00115
 645 02 00115 1F405C5C A
 02 00116 40C5D5C4 A
 02 00117 40D6C640 A
 02 00118 D7C1D9E3 A
 02 00119 C9E3C9D6 A

```

*****
ENDITMS FGU      $
        TEXTC    ' ** END OF PARTITIONED ITEMS ** '
    
```

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02 0011A D5C5C440 A
02 0011B C9E3C5D4 A
02 0011C E2405C5C A

646

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678      02 00110
679      02 0011D      22000000 N
680      02 0011E      E830000B A
681      02 0011F      22300000 A
682      02 00120
683      02 00120      32160000 X
684      02 00121      52560000 X
    
```

```

*****
*DB*
*D*      NAME:      CBCINITR
*      DESCRIPTION:
*
*      CBC INITIALIZATION
*
*      RETURN IF THIS IS A NON-CBC SYSTEM.
*
*      SET UP THE CBC INPUT AND OUTPUT INTERRUPT XPSD INSTRUCTIONS.
*
*      IF THIS IS A RAD OR TAPE BOOT (AS OPPOSED TO A RECOVERY),
*      AND IF SENSE SWITCH 2 IS IN THE UP POSITION,
*      WE EXECUTE A 'TURN RECEIVER L DATASET OFF - TURN BACK-TO-BACK
*      TEST OFF' WRITE DIRECT TO EACH RECEIVER. THIS IS IN CASE THE CE'S
*      HAVE TURNED THE BACK-TO-BACK TEST FEATURE ON WITH THEIR DIAGNOSTICS.
*      WE THEN DELAY FOR AT LEAST 80 MILLI-SECONDS BEFORE TURNING THE
*      RECEIVERS ON (IN CBCINIT). NOTE THAT THIS WILL HANG UP THE
*      PHONE LINE IF DIAL-UP.
*
*      CALL CBCINIT (IN THE CBC MODULE IN THE ROOT) TO COMPLETE
*      INITIALIZATION.
*
*      CALL:      R11 = LINK
*
*      INTERFACE:  CBCINIT.
*      REGISTERS:  R0-R1,R3-R5,R7-R8 USED, R11 SAVED
*      ENVIRONMENT: MAPPED, MASTER
*FIN*
*****
CBCINITR      EQU      $
LI,R0         CBC      SEE IF NON-CBC SYSTEM
BEZ          *R11      B/NON-CBC; RETURN
LI,R3         0        L/O; CBC #
CINIT050     EQU      $
LW,R1         C0;XPSD0,R3  L/OUTPUT INTERRUPT XPSD INSTRUCTION
LH,R5         C0H;I0,R3   L/OUTPUT INTERRUPT ADR
    
```

685	02	00122	391A0000	A	STW,R1	0,R5	S/XPSD
686	02	00123	20300001	A	AI,R3	1	+1 TO C0C #
687	02	00124	21300000	N	CI,R3	LC0C	C/C0C # W/LAST C0C #
688	02	00125	68200120		BLE	CINIT050	BLE; SET UP NEXT C0C'S INTERRUPTS
689					*****		
690					* N0P THE FOLLOWING INSTRUCTION TO TURN ON THE BACK-TO-BACK MODE CHECK.		
691					*****		
692	02	00126	68000000	X	B	C0CINIT	B/C0CINIT; N0 BACK-TO-BACK MODE TEST
693	02	00127	7020002A	A	LC	XI2A'	CHECK TYPE 0F SYSTEM STARTUP
694	02	00128	68F00000	X	BCR,R15	C0CINIT	B/RECOVERY; DONIT TURN DATA SETS OFF
695							GO TO C0CINIT; R11 IS RETURN REG
696	02	00129	6C000000	A	RD,R0	0	CHECK SENSE SWITCHES
697	02	0012A	68400000	X	BCR,R4	C0CINIT	B/SS2 DOWN; DONIT CHECK BACK-TO-BACK
698	02	0012B	22300000	A	LI,R3	0	L/O; C0C NUMBER
699	02	0012C			NXTC0C	FGU	\$
700	02	0012C	52060000	X	LH,R0	C0H:DN,R3	L/C0C DEVICE ADR
701	02	0012D	C0000000	A	:TI0,R0	*R0	TI0, SEE IF C0C IS THERE
702	02	0012E	69C00136		BCS,R12	GTNXTC0C	B/C0C N0T THERE; SKIP TO NEXT
703	02	0012F	22700000	A	LI,R7	0	L/O; LINE NUMBER
704	02	00130			NXTLINE	FGU	\$
705	02	00130	67060000	X	EXU	C0:RCV00FF,R3	TURN RECEIVER L DATASET 0FF =
706							TURN BACK-TO-BACK TEST 0FF
707	02	00131	20700001	A	AI,R7	1	+1 TO LINE NUMBER
708	02	00132	12460000	X	LD,R4	C0D:LPC,R3	L/LIMITS 0F LOGICAL LINES FOR C0C
709	02	00133	38500004	A	SW,R5	R4	LAST PHYSICAL LINE # = LAST LOGICAL
710							FIRST LOGICAL LINE #
711	02	00134	31700005	A	CW,R7	R5	C/CURRENT LINE # W/LAST LINE #
712	02	00135	68200130		BLE	NXTLINE	BLE; CHECK NEXT LINE
713	02	00136			GTNXTC0C	FGU	\$
714	02	00136	20300001	A	AI,R3	1	+1 TO C0C NUMBER
715	02	00137	21300000	N	CI,R3	LC0C	C/CURRENT C0C # W/LAST C0C #
716	02	00138	6820012C		BLE	NXTC0C	BLE; CHECK NEXT C0C
717	02	00139	22817000	A	LI,R8	XI17000'	DELAY FOR AT LEAST 80 MILLI-SECONDS
718	02	0013A	6480013A		BDR,R8	\$	BEFORE INITIALIZING C0C
719	02	0013B	68000000	X	B	C0CINIT	B/C0CINIT; R11 IS RETURN REG
1*	02	0013C			F0CPINIT	RES	
2*	02	0013C	22100000	N	LI,1	INT#	MOVE INTERRUPTS

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3* 02 0013D 6830n142
 4* 02 0013E 3202n000 X
 5* 02 0013F 7222n000 X
 6* 02 00140 3504n000 A
 7* 02 00141 6410n13E
 8* 02 00142
 9* 02 00142 2270n000 N
 10* 02 00143 E830n008 A
 11* 02 00144 52CEn000 X
 12* 02 00145 670En000 X
 13* 02 00146 72CEn000 X
 14* 02 00147 49C0n14E
 15* 02 00148 1800n000 A
 16* 02 00149 18E0n00E A
 17* 02 0014A 6AB0n000 X
 18* 02 0014B 0200n000 A
 19* 02 0014C 6470n144
 20* 02 0014D E800n008 A
 21* 02 0014E 00FF1000 N

FINIT1

FINIT2

SUPCODE

BEZ FINIT1
 LW,0 INTCNT,1
 LB,2 INTLOC,1
 STW,0 0,2
 BDR,1 \$=3
 RES
 LI,7 FECP#
 BEZ *8
 LH,12 FEH:ALV,7
 EXU FE:ARM,7
 LB,12 FEB:CDX,7
 BR,12 SUPCODE
 SD,0 0
 SD,14 14
 BAL,11 NEWQ
 NBP
 BDR,7 FINIT2
 B *8
 GEN,8,24 FEF:SUP,X:FF1000!

NONE

ARM THE INTERRUPT

DCTX OF FECP
 FUNCTION, ETC.
 NO END ACTION
 NO BYTES

IGNORE DOWN DEVICES

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721

*

722

*

723 02 0014F 94000001 A

DEV8PN

GEN,1,7,7,17 1,X114',0,1 8PEN *1

724 02 00150 00040003 A

DATA X:00040003! DEVICE

725 02 00151 80000002 A

PZE *2

726 02 00003

FND GH8ST1

CONTROL SECTION SUMMARY: 01 00000 PT 0

02 00152 PT 1

*

SYMBOL VALUES

ANLZT/02 000EE	ANSPR0C/00000000	BITS/00000000	BLANK/02 00104
BLNKLN/02 00090	B00TYPE/02 00000	CINIT050/02 00120	CLSDUMP/02 0006B
CLSPATCH/02 0004B	C0CINITNR/02 0011D	C0NT/02 00103	C0NTD0WN/02 0008B
C0NTINU/02 000A1	DABN/02 00063	DABN1/02 00068	DCBPR0C/00000000
DEV00WN/02 00080	DEV00PN/02 0014F	DISCBPR0C/00000000	DISPLAY/02 00092
D0WNC/00000018	D0WNC0/00000010	D0WNCP/00000008	D0WND/00000020
ENDITMS/02 00115	ENDPRT/02 0009D	ERFLG/02 00070	ERSKIP/02 00075
EXIT/02 000EB	F0CPINIT/02 0013C	FILLT/02 000F0	FINIT1/02 00142
FINIT2/02 00144	FNAME/02 000F6	G0GJ0B/02 000E7	G0TYPE/02 000B6
GTNXTC0C/02 00136	IDLE/00000001	ITMPRT/02 00105	KRD1/02 000D0
L0GFIL/02 000DA	L0GFIL2/02 000E9	L0GRCVG/02 000CE	MASTER/02 000FE
M0NPR0C/00000000	M0ST0P/02 000E1	MPBITS/00000001	MSGPRT/02 0010D
N0CPU/00000001	NSTARTB/00000001	NST0PB/00000002	NXTC0C/02 0012C
NXTC0NT/02 00081	NXTDEV/02 00078	NXTLINE/02 00130	0PNAB/02 000B1
0PNDUMP/02 00056	PAGE/02 00102	PAS0CHK/02 00046	PRINT/02 000FF
RE00V/02 00043	RECVRTN/02 0006F	RSTTM/02 0004E	R0/00000000
R1/00000001	R10/0000000A	R11/0000000B	R12/0000000C
R13/0000000D	R14/0000000E	R15/0000000F	R2/00000002
R3/00000003	R4/00000004	R5/00000005	R6/00000006
R7/00000007	R8/00000008	R9/00000009	SETSTL/02 00024
SETSTL1/02 0002E	SETSTL2/02 0003A	STARTBIT/00000001	ST0PBIT/00000002
ST0PPED/00000000	SUPC0DE/02 0014E	S69PR0C/00000001	T0P:PAGE/02 0008D
TXCF:FIL/02 000F8	TXCRBBAT/02 000F2	TXCRVGST/02 000F4	TXFR0G/02 000FC
TXM00SF/02 000FA	UFLAGS/00000000	USER/00000002	UTSPR0C/00000001
VPXPSDT/00000001	2NXTC0NT/02 00085	2NXTEV/02 0007B	I/A/02 0012D

*

EXTERNAL DEFINITIONS

GH0ST1/02 00003	GH0ST1D/02 00000
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*

PRIMARY REFERENCES

B00TFLG	C0REFD	DCTSIZ	DCT16	DCT3	DCT8	DCT9
DSCCVT	DUMPFLE	ERRL0G	LLNDD	M:ID0	M:LL	M:LB
M:PATCH	M:TM	NB31T00	NEWQ	NSCPU	PASSO	RBLIMS
RCVCRDF	KCVRCNT	RE00VER2	RT:REB00T	S:AC0RE	S:ADR	S:PC0RE
S:STLC	SEEK4000	SL:C0RE	SL:RSVP	SL:STLM	SMAKFLG	SMUIS
SNDDX	SUABTFLE	SYMAK	T:BTSCHEd	T:GJ0BSTRT	XFC	

*

SECONDARY REFERENCES

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C0:RCVD0FF C0:XPSD0
FE:ARM FE:CDX
INTC0NT INTI0C
SL:RSTRT SL:PWP

C0C
F0CP#
LC0C
278010

C0CINIT
FF:SUP
RASIZE

C0D:LPC
FE:IALV
SB:INIT

C0H:DN
HASPI0
SB:RCVA

41
C0H:ID
INT#
SB:RCVR

- * N0 UNDEFINED SYMBOLS
- * ERROR SEVERITY LEVEL: 0
- * N0 ERROR LINES