

13:44 SEP 08, 1975 ID=00E6
JOB IP06T, BRU33323132, 7 . TERMINAL JOB
LIMIT (CORE, 16), (TIME, 10)
ASSIGN MICI, (FILE, INITRCVR, IDOOCI)
METASYM 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

ABORT		608=EQU				
BA	23/DEF					
BLOCK1	134/GEN	156/GEN	160/GEN	476/EQU	476/EQU	504/GEN
BOOTS BAND	169=GEN	190/LRP				
CITIC	25/DEF	145=RES				
CITINC	173/REF	328/LW				
CIT1	173/REF	329/SW				
CNDD	96/REF	510/LB				
CO:INTFL	28/DEF	143=DATA				
CO:FLAG	274/SREF	276/MTM				
COMMPACK	113/SREF	169/GEN				
CORED	160=GEN	564/STS	581/LI			
CSEDPATH	179/REF	240/CW	244/CW			
CSEI:PATH:RECOV	90/REF	197/STS				
DA	91=EQU	196/LI				
DCT6IZ	342/LI	435/LI	450/LI	497/LI	581/LI	
DCT1	95/REF	408/LI				
DCT1P	93/REF	326/LH	414/LH	431/LH	518/LH	
DCT2	96/REF	519/CH				

DCT24	96/REF	509/LB					
DCT3	94/REF	411/LB					
DCT4	95/REF	409/LC					
DCT5	96/REF	521/LB					
DCT6	272/REF	515/LC	545/LC	549/LB	551/STB		
DISCBPRBC	273/REF	552/LB					
DUMP	130-SET						
DUMPCOM	262/BE	301-EQU					
DUMPFIL	156-GEN	435/LI					
DUMPRTN	30/DEF	299/MTW	304/MTW	347/MTW	350/STB	421/MTW	464-DAT
FORCEIO	303/BEZ	305/BNEZ	307/BG	383-MTW			
GETN	96/REF	367/BAL	369/BAL	374/BAL			
GTN	211-MTB	216/BDR					
IA	212/BNEZ	214/BEZ	216-BDR				
INH	458/IPSD	459/IPSD	460/IPSD	461/IPSD	462/IPSD		
INITRCVR	458/IPSD	459/IPSD	460/IPSD	462/IPSD			
INTSIM	21/DEF	89-EQU					
IO	96/REF	548/BAL					
	344/BAL	438/BAL	452/BAL	479-EQU			

I002	96/REF	536/LB		
I003	97/REF	512/LC	553/LB	555/STB
I004	97/REF	556/LB		
I005	97/REF	557/STB		
I007	97/REF	514/LB		
I01	482=LI	485/BCS		
I02	481=ISI0	496/BDR		
I03	490/BCS	494=AI		
I04	499=ITI0	500/BCS		
JIJIT	177/REF	239/AI	629/STM	
JITELFLGS	182/REF	293/CW	295/STS	
JXICMAP	176/REF	239/AI		
KRD1	438=BAL	582/B		
KRD10	429/BE	431=LH		
KRD2	338/B	420/BEZ	422/BNEZ	425=EQU
KRD3	355/BE	358=EQU		
KRD4	318/BE	320/BE	323=EQU	
KRD5	281/BE	284=CW		
KRD6				

KRD61	382/BAZ	387-EQU				
KRD7	389/BEZ	395-EQU				
KRD8	409-LC	416/BDR				
KRD9	410/BCS	413/BANZ	416-BDR			
LLNDD	424/B	430-LDCTX				
LOW	32/DEF	142-DATA				
MISWAPD	94/REF	268/CW	306/CW			
MAP	100/REF	325/IHI0*	343/LW	451/LW		
MAPED	458/PSD	461/PSD				
MARMAP	291-LPSD	458/PSD				
MBISDI	291/LPSD	458-IPSD				
MING	272/REF	309/LB	311/CB	351/LB	366/LB	427/LB
MP:HPN	182/REF	297/CI				
MPBRANCH	108/REF	203/BAL				
MPBRANCH2	170-B	200/LW				
MPPSEEK	171-B	390/LW				
M5	34/DEF	340/LW	455-DATA			
M7	97/REF	550/AND				
	97/REF	554/AND				

M9								
NOMP	181/REF	246/AND						
NOPUT	199/BEZ	218/BEZ	220-EQU					
NSCPU	624/BLE	626/BGE	630-EQU					
OCNDD	104/SREF	198/LI	210/LI	388/LI				
PDFOFF	37/DEF	141-DATA						
PDFPSD	408-LI	462/PSD						
PFSRSW	407/LPSD	462-PSD						
PPSTART	101/REF	195/STCF						
RCVCODE	88/DEF	644-RES						
RCVDISC	39/DEF	147-DATA	255/STW	260/STS	270/LH	380/LW	397/LH	
RCVPSD	41/DEF	134/GEN	138-DATA	341/XW	346/STW			
RCVRAD	222/AND	227/LH	283/LD	383/MTW	386/LPSD			
RCVRCNT	46/DEF	140-DATA						
RCVRDSZ	98/REF	348/MTW	349/LW					
RCVSIZE	49/DEF	139-DATA						
RCVSTART	52/DEF	137-GEN	265/AND					
RCV1	54/DEF	146-DATA	454/B*					
	259/BEZ	263/BG	269/BG	277/BNEZ	285/BANZ	287/BAZ	294/BANZ	
	298/BLE	300/BNEZ	400-EQU					

RCV41	236/BG	250/BNEZ	255=STW	474/B			
RCV42	241/BGE	473=AI					
RCV43	245/BGE	472=AI					
RCV60	229/BAZ	231/BL	248=LI				
RECOVERO	56/DEF	189=EQU					
REDDWD	134=GEN	342/LI	450/LI				
RESTRT	209=LI	219/BDR					
RESTRT10	58/DEF	352/BAL	357/BAL	363/BAL	544=EQU		
RTIRCVR	99/REF	405/BAL					
RTNPSD	399/LPSD	461=IPSD					
SIADR	109/REF	204/CW					
SICUN	175/REF	234/LW	296/LW	335/LW			
SISTOUT	111/SREF	208/LW					
SAVEDCTX	313/STB	319/CB	322/STB	360/LB	362/STB	364/LB	371/LB
	373/STB	375/LB	377/STW	466=DATA			
SAVEREGS	61/DEF	164=RES	193/STM	226/AI	251/LW	385/LM	589/LI
	619/STM	632/LM					
SAVEREGS1	63/DEF	165=RES	191/STM				
SBIRCVA	106/SREF	211/MTB	394/STW				
SBIRCVR							

SB:STATE	105/SREF	207/STW	393/STW			
SCODES	102/SREF	213/MTB				
SCR61	280/CB	475=DATA	476/EQU			
SCR61E	65/DEF	587=EQU				
SCR7EE	588/STS	603=SUA				
SEEK	614/STS	643=SUA				
SEEK1	153=DATA	156/GEN	432/STW			
SEEK4000	154=DATA	160/GEN	434/STS	560/MTW		
SLVWAIT	67/DEF	152=DATA	423/LW	426/LW		
SMAKFLG	110/SREF	205/BNE				
SMUIS	69/DEF	469=DATA				
ST0PI0	180/REF	235/CI				
ST0PI01	310/BAL	315/BAL	508=EQU			
ST0PI02	524/BGE	533=HIO				
ST0PI03	513/BCR	516/BCR	517/BCR	520/BNE	536=LB	
ST0PI04	512=LC	537/BNEZ				
SUABTFLE	526=LI	531/BDR				
SUACNT	71/DEF	302/MTW	314/LDCTX	316/LDCTX	353/LDCTX	368/LDCTX
	430/LDCTX	467=DATA				419/MTW

SUACUN	73/DEF	166=DATA	332/AND	333/MTW			
SUARTN	75/DEF	168=DATA	336/STB				
SUATIME	77/DEF	339=EQU					
SYSTRT	79/DEF	167=DATA	334/STW				
SYSVERS	103/SREF	170/B	201/STW	391/STW			
T1ABORTM	81/DEF	144=RES					
T1GJOBSTRT	174/REF	461/IPSD					
T1SIDLER	271/REF	379/BAL					
TBIFLGS	107/SREF	171/B					
TDV*STATUS	97/REF	522/LB					
TEMP	150=DATA	488/STW					
T10*STATUS	112/REF	615/STW	622/AND				
TRAPPSD	149=DATA	444/STS	445/LH	486/STD	491/LH	563/AND	568/AND
TRAPSAVE	84/DEF	133=DATA	278/LD				
TSTACK	86/DEF	132=DATA					
TXCRVGST	92/REF	592/LW	616/LW				
TYCOMM	378/LD	457=TEXTC					
TYMESS	497/LI	504=GEN					
	504/GEN	506=TEXT					

UNEND				
	449/BANZ	560=MTM		
UNMAPPSD				
	324/LPSD	460=IPSD		
UNMAP1				
	324=LPSD	460/IPSD		
UNMPSD				
	459=IPSD	620/LPSD		
UNMPSD1				
	459/IPSD	620=LPSD		
UX;JIT				
	178/REF	237/LOAD		
WK				
	461/IPSD			
Y004				
	174/REF	192/LRP	286/CW	292/LW
Y07				
	272/REF	284/CW		
24BM15				
	112/REF	618/LM*	628/LM*	
#CODES				
	279/LI	476=EQU		

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1  *M* INITRCVR RECEIVER FOR RCVPSD. READ RECOVER INTO CORE.
2  *P* NAME: INITRCVR
3  *P* DESCRIPTION:
4  *P* SCREECH: HALT ALL I/O.
5  *P*          DUMP CORE X'4000'-X'7FFF' TO SWAPPER.
6  *P*          READ RECOVER AT X'4000'.
7  *P*          BRANCH TO RECOVERY ENTRY POINT.
8  *P* SUA: CHECK ALL SUA CONDITIONS, IF NOT SATISFIED GO TO SCREECH.
9  *P*          HALT I/O ON SWAPPER CHANNEL AND DUMPFIL DEVICE CHANNEL
10 *P*          IN SUCH A WAY THAT I/O CAN BE RESTARTED.
11 *P*          DUMP CORE AT X'4000'-X'7FFF'.
12 *P*          READ RECOVER INTO CORE AT X'4000'.
13 *P*          BRANCH TO SUA ENTRY POINT IN RECOVER.
14 *P*          READ MONITOR BACK INTO CORE AT X'4000'.
15 *P*          RESTART I/O ON SWAPPER CHANNEL AND DUMPFIL DEVICE CHANNEL.
16 *P*          START GHOST JOB RUGHOST.
17 *P*          GO TO TIABORTM MAPPED.
18 *P* DUMP: CHECK FOR DUMPFIL BUSY, IF BUSY RETURN TO CALLER AT XPSD+2.
19 *P*          EXECUTE SUA TO TAKE CORE DUMP.
20 *P*          RETURN TO CALLER AT XPSD+2.
21 DEF          INITRCVR
22 *,*          PATCHING DEF FOR XDELTA
23 DEF          ABORT
24 *,*          ENTRY POINT TO REPORT SUA 7E.
25 DEF          BOOTSAND
26 *,*          SYSTEM DISK ADDRESS ON PRIMARY SWAPPER TO
27 *,*          USER #4.
28 DEF          CNDD
29 *,*          DEVICE ADDRESS FROM WHERE PATCH CARDS ARE READ.
30 DEF          DUMPFIL
31 *,*          INFORMATION WORD FOR THE SUA DUMPFIL.
32 DEF          LLNDD
33 *,*          DEVICE ADDRESS TO PRINT PATCH DECK AT BOOT TIME.
34 DEF          MPPSEEK
35 *,*          DEVICE SEEK ADDRESS OF MONITOR LOCATION
36 *,*          X'4000' ON PRIMARY SWAPPER.
37 DEF          BCNDD

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38      *,*      DEVICE ADDRESS OF TY DEVICE FOR XDELTA.
39      DEF      RCVCODE
40      *,*      CODE, SUBCODE OF LAST RECOVERY.
41      DEF      RCVDISC
42      *,*      DEVICE SEEK ADDRESS OF RECOVERY ON PRIMARY SWAPPER.
43      *
44      *
45      *,*      ENTRY PSD FOR SCREECH, SUA AND DUMP.
46      DEF      RCVRAD
47      *,*      SYSTEM DISK ADDRESS OF THE RECOVERY BUFFER ON
48      *,*      PRIMARY SWAPPER.
49      DEF      RCVRDSZ
50      *,*      GRANULE SIZE OF THE RECOVERY BUFFER PLUS
51      *,*      SHARED PROCESSOR ON PRIMARY SWAPPER.
52      DEF      RCVSIZE
53      *,*      BYTE SIZE OF RECOVERY ON PRIMARY SWAPPER.
54      DEF      RCVSTART
55      *,*      START ADDRESS OF RECOVERY.
56      DEF      RECOVERO
57      *,*      PATCHING DEF FOR XDELTA.
58      DEF      RESTRTO
59      *,*      ROUTINE TO CLEANUP I/O TABLES FOR SUA, DUMP AND
60      *,*      POWER FAIL-SAFE.
61      DEF      SAVEREGS
62      *,*      SAVE AREA FOR REGISTER BLOCK ZERO.
63      DEF      SAVEREGS1
64      *,*      SAVE AREA FOR REGISTER BLOCK ONE.
65      DEF      SCR61
66      *,*      ENTRY POINT TO REPORT SUA61
67      DEF      SEEK4000
68      *,*      DEVICE SEEK ADDRESS TO DUMP CORE X'4000'='X'7FFF'.
69      DEF      SMAKFLG
70      *,*      INFORMATION WORD TO INDICATE A SYMAK IS NEEDED.
71      DEF      SUABTFLE
72      *,*      SYSTEM DISK ADDRESS OF SUA DUMPFLE.
73      DEF      SUACNT
74      *,*      COUNT OF SUAS SINCE LAST CRASH.

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75		DEF	SUACUN	
76		*,*	USER NUMBER OF LAST FOUR SUA'S	
77		DEF	SUARTN	
78		*,*	RETURN POINT FOR SUA DUMP ROUTINE IN CYCUSR.	
79		DEF	SUATIME	
80		*,*	TIME OF LAST FOUR SUA'S.	
81		DEF	SYSVERS	
82		*,*	CELL TO RESTORE THE CONTENTS OF X'12B' AFTER A BOOT	
83		*,*	AT CRASH.	
84		DEF	TRAPPSD	
85		*,*	CELLS TO SAVE THE TRAP PSD.	
86		DEF	TRAPSAVE	
87		*,*	CELLS TO SAVE X'140' AND X'146' FOR ANLZ.	
88		DEF	PPSTART	END OF MONITOR DATA AREA
89	01 00000	INITRCVR EQU	*	
90		REF	CSED\$PATH	TRACK BITS FOR FAULT HANDLERS
91	00000002	CSEI\$PATH\$RCV EQU	X'02'	
92		REF	TSTACK	TEMP STACK
93		REF	DCT1	
94		REF	LOW,DCT24	
95		REF	DCTSIZ,DCT3	
96		REF	CIT1,DCT1P,DCT2,DCT4,FORCEIO,INTSIM,I0Q2	
97		REF	I0Q3,I0Q4,I0Q5,I0Q7,M5,TB:FLGS,M7	
98		REF	RCVRCNT	
99		REF	RTIRCVR	
100		REF	M;SWAPD	
101		REF	PFSRSW	
102		SREF	SBISTATE	MP SLAVE STATE
103		SREF	SYSTRT	SLAVE SYS START
104		SREF	N\$CPU	#SLAVES
105		SREF	SBIRCVR	MASTER RCVR FLAG
106		SREF	SBIRCVB	SLAVE ACK RCVR FLAG
107		SREF	T;SIDLER	SLAVE RTN FOR SUA
108		REF	MP;HPN	GET HARDWARE CPU ADDRESS
109		REF	SIADR	CPU HARDWARE ADDRESS TABLE
110		SREF	SLVWAIT	SLAVE BAIL OUT IF GET HERE
111		SREF	SISTOUT	SLAVE TIMEOUT VALUE

Address	Hex	Hex	Label	Value	Comments
112			REF	248M15,TEMP	
113			SREF	COCFLAG	
114	00000000		R0	EQU	0
115	00000001		R1	EQU	1
116	00000002		R2	EQU	2
117	00000003		R3	EQU	3
118	00000004		R4	EQU	4
119	00000005		R5	EQU	5
120	00000006		R6	EQU	6
121	00000007		R7	EQU	7
122	00000008		SR1,R8	EQU	8
123	00000009		SR2,R9	EQU	9
124	0000000A		SR3,R10	EQU	10
125	0000000B		SR4,R11	EQU	11
126	0000000C		D1,R12	EQU	12
127	0000000D		D2,R13	EQU	13
128	0000000E		D3,R14	EQU	14
129	0000000F		D4,R15	EQU	15
130	00000001		DISCBPRBC	SET	1
131			SYSTEM	UTS	
132	01 00000	00000000	TRAPSAVE	DATA	, SAVE 040 & 046 IN RECOVERY
133	01 00002	00000000	TRAPPSD	DATA	, PSD OF TRAP
134	01 00004	03000020	REDDWD	GEN,8,24	3,BA(RCVDISC)
135	01 00005	2A000004		GEN,8,24	X12A1,4
136	01 00006	02010000		GEN,8,24	2,X'4000' *4
137	01 00007	08000000	RCVSIZE	GEN,8,24	8,0
138	01 00008	00000000	RCVDISC	DATA	0
139	01 00009	00000000	RCVRDSZ	DATA	0
140	01 0000A	00000000	RCVRADEDATAE0		
141	01 0000B	00000001	0CNDDEDATAE1		
142	01 0000C	00000002	LLNDDEDATAE2		
143	01 0000D	00000003	CNDDEDATAE3		
144	01 0000E		SYSVERSERESE1		
145	01 0000F		BOOTS BAND RES		1
146	01 00010	00000000	RCVSTART	DATA	0

START ADDRESS OF RECOVERY

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147 01 00011 00000000 A
 148
 149 01 00012 00000000 A
 01 00013 00000000 A
 150 01 00014 00000000 A
 151 01 00015 00000000 A
 152 01 00016 00000000 A
 153 01 00017 00000000 A
 154 01 00018 00000000 A
 155
 156 01 0001A 0300005C
 157 01 0001B 2A000004 A
 158 01 0001C 01010000 A
 159 01 0001D 08000000 A
 160 01 0001E 03000060
 161 01 0001F 2A000004 A
 162 01 00020 08000000 A
 163 01 00021 00000000 A
 164 01 00022
 165 01 00032
 166 01 00042 00000000 A
 167 01 00043 00000000 A
 01 00044 00000000 A
 01 00045 00000000 A
 01 00046 00000000 A
 168 01 00047 00000000 A
 169 01 00048 00000000 N
 170 01 00049 68000000 X
 171 01 0004A 68000000 X

RCVCODE DATA 0
 BOUND 8
 TIO\$STATUS DATA 0,0
 TDV\$STATUS DATA 0
 DATA 0
 SEEK4000 DATA 0
 SEEK DATA 0
 SEEK1 DATA 0
 BOUND 8
 DUMPCOM GEN,8,24 3,BA(SEEK)
 GEN,8,24 X12A1,4
 GEN,8,24 1,4*X14000'
 GEN,8,24 8,0
 COMMPACK GEN,8,24 X1031,BA(SEEK1)
 GEN,8,24 X12A1,4
 GEN,8,24 X1081,0
 GEN,8,24 0,0
 SAVEREGS RES 16
 SAVEREGS1 RES 16
 SUACNT DATA 0
 SUATIME DATA 0,0,0,0
 SUACUN DATA 0
 BLOCK1 GEN,28,4 C0CFLAG,0
 MPBRANCH B SYSTRT
 MPBRANCH2 B T:SIDLER

CRASH CODE & SUBCODE
 SEEK OF X'4000' FOR SUA FILE
 SEEK OF X'4000' FOR RECOVER
 SEEK TO PUT X'4000'-X'7FFF'
 SEEK TO CROSS CYCL.
 SEEK TO NEXT CYLINDER
 TIC BACK INTO COMMRAD
 REGS AT TIME OF ENTRY TO RECOVERY
 REGISTER BLOCK ONE AT TIME OF CRASH
 COUNT OF SUAS SINCE LAST CRASH
 TIME OF SUAS
 USER NUMBER OF SUAS
 BLK 1 C0C SYS, BLK 0 NON C0C SYS
 SLAVE SYS STARTLOOP
 SLAVE RTN FOR SUA

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172
173
174
175
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178
179
180
181
182
183
184
185
186
187
188
189
190 01 0004B 2F000048
191 01 0004C 2B000032
192 01 0004D 2F000000 X
193 01 0004E 2B000022
194 01 0004F 6C000000 A
195 01 00050 74000000 X
196 01 00051 22D00002 A
197 01 00052 47D00000 X
198 01 00053 22100000 N
199 01 00054 68300069
200 01 00055 32E00049
201 01 00056 35E00000 X
202 01 00057 22800000 A
203 01 00058 6AB00000 X
204 01 00059 31800000 X
205 01 0005A 69300000 X
206 01 0005B 22EFFFFFF A
207 01 0005C 35E00000 X
208 01 0005D 32E00000 X
    
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PAGE
REF CITIC,CITINC
REF Y004, YIABORTM
REF S;CUN
REF JX;CMAP
REF JIJIT
REF UX;JIT
REF CORED
REF SMUIS
REF M9
REF MING,J;TELFLGS
    
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*
*
* ENTER FROM RCVPSD WITH INHIBITS ON, MAP OFF, AND CC = 0
*F* NAME: RECOVERO
*F* PURPOSE: RECEIVER FROM RCVPSD TO START A SCREECH,
*F* SUA, OR DUMP.
    
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RECOVERO EQU *
LRP BLOCK1 GO TO REGISTER BLOCK ONE
STM,R0 SAVEREGS1 SAVE REGISTER BLOCK ONE
LRP Y004 GO TO REGISTER BLOCK ZERO
STM,R0 SAVEREGS SAVE REGISTER BLOCK ZERO
RD,0 0 GET SENSE SWITCH SETTINGS AT TIME OF
STCF PFSRSW SAVE FOR DUMP OUTPUT
LI,13 CSEI,PATH,RECOV SET FLAG FOR FAULT HANDLERS
SYS,13 CSEDPATH
LI,1 NSCPU MP SYSTEM
BEZ NOMP NO,SKIP THIS
LW,14 MPBRANCH STORE SLAVE BRANCH
STW,14 SYSTRY IN SYSTRY
LI,R8 0
BAL,R11 MPIHPN GET HARDWARE ADDRESS
CW,R8 SIADR AM I MASTER
BNE SLVWAIT NO,GET OUT QUICK
LI,R14 #1
STW,R14 SB;RCVR
LW,14 SISTOUT MAX # OF TRIES
    
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209	01	0005E	22D00000	A	RESTR	LI,13	0	FLAG FOR ANY FAILURES
210	01	0005F	22100000	N		LI,R1	NSCPU	#OF SLAVES
211	01	00060	73020000	X	GETN	MTB,0	\$BIRCVA,R1	SLAVE ACKED
212	01	00061	69300065			BNEZ	GTN	YES
213	01	00062	73020000	X		MTB,0	\$BISTATE,R1	WAS IT STOPPED
214	01	00063	68300065			BEZ	GTN	YES
215	01	00064	20D00001	A		AI,13	1	NO,SET CHECK FAILURE
216	01	00065	64100060		GTN	BDR,R1	GETN	ALL DONE
217	01	00066	20D00000	A		AI,13	0	ANY CHECK FAILURES
218	01	00067	68300069			BEZ	NOMP	NO!
219	01	00068	64E0005E			BDR,14	RESTR	YES,GG TRY AGAIN
220		01 00069			NOMP	EQU	\$	YEP
221	01	00069	22E1FFFF	A		LI,14	X11FFFF!	L/WORD ADDRESS MASK
222	01	0006A	4BE00000	X		AND,14	RCVPSD	& XPSD ADR + 1
223	01	0006B	22D30001	A		LI,13	X130001!	L/SCREECH CODE FOR BAD SCREECHES
224	01	0006C	21E0000F	A		CI,14	15	C/XPSD ADR + 1 W/15
225	01	0006D	6920006F			BG	*+2	BG, SCREECH CODE NOT IN REGS
226	01	0006E	20E00022			AI,14	SAVEREGS	*ADDR OF SAVEREGS; CODE IN REGS
227	01	0006F	52100000	X		LH,1	RCVPSD	L/LH OF WD 0 OF STORED PSD
228	01	00070	21100040	A		CI,1	X140!	CHECK MAP BIT
229	01	00071	68400084			BAZ	RCV60	B/RESET; NO MAPPING PROBLEMS
230	01	00072	21E08000	A		CI,14	X18000!	C/XPSD ADR + 1 W/.8000
231	01	00073	69100084			BL	RCV60	BL; XPSD IN ROOT
232	01	00074	3250000E	A		LW,5	14	L/XPSD ADR + 1
233	01	00075	25500077	A		SLS,5	*9	SHIFT; G/VIRTUAL PAGE #
234	01	00076	32200000	X		LW,2	S;CUN	L/CURRENT USER #
235	01	00077	21200000	N		CI,2	SMUIS	C/CUR USER # W/MAX
236	01	00078	69200088			BG	RCV41	BG; ILLEGAL USER #; SCREECH 03=01
237	01	00079	72240000	N		LOAD,2	UXIJIT,2	L/PHYSICAL PAGE # OF USER'S JIT
238	01	0007A	25200009	A		SLS,2	9	SHIFT; GET WORD ADR OF JIT
239	01	0007B	20200000	N		AI,2	JXICMAP,JIJIT	*WORD DISP FROM JIT TO CMAP
240	01	0007C	31200000	X		CW,2	CBRED	C/ADR W/# OF WORDS OF PHYS CORE
241	01	0007D	68100159			BGE	RCV42	BGE; UXIJIT PROBABLY BAD; SCR 03=02
242	01	0007E	F22A0002	N		LOAD,2	*2,5	L/PHYSICAL PAGE # OF XPSD ADR + 1
243	01	0007F	25200009	A		SLS,2	9	SHIFT; GET WD ADR OF PHYSICAL PAGE
244	01	00080	31200000	X		CW,2	CBRED	C/ADR W/# OF WDS OF PHYS CORE
245	01	00081	68100158			BGE	RCV43	BGE; JX;CMAP PROBABLY BAD; SCR 03=03

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246	01	00082	48E00000	X
247	01	00083	30E00002	A
248	01	00084	22DF00FF	A
249	01	00085	CBD0000E	A
250	01	00086	6930008B	
251	01	00087	32D00031	
252	01	00088	21DF0000	A
253	01	00089	6940008B	
254	01	0008A	25D00010	A
255	01	0008B	35D00011	
256	01	0008C	22C00300	A
257	01	0008D	22D00300	A
258	01	0008E	CBC0000E	A
259	01	0008F	68300113	
260	01	00090	47C00011	
261	01	00091	21C00200	A
262	01	00092	683000B2	
263	01	00093	69200113	
264	01	00094	2247FFFF	A
265	01	00095	4B400007	
266	01	00096	204107FF	A
267	01	00097	25400075	A
268	01	00098	31400000	X
269	01	00099	69200113	
270	01	0009A	52F00011	
271				
272				
273				
274				
275	01	0009B	22000000	A
276	01	0009C	53000000	X
277	01	0009D	69300113	
278	01	0009E	12200002	
279	01	0009F	22100003	A
280	01	000A0	71F2015B	
281	01	000A1	683000A4	
282	01	000A2	441000A0	

RCV60

RCV41

```

AND,14 M9
AW,14 2
LI,D2 X'FOOFF!'
AND,D2 *D3
BNEZ RCV41
LW,13 SAVEREGS+15
CI,13 *1**16
BANZ **2
SLS,13 16
STW,13 RCVCODE
LI,D1 X'300!'
LI,D2 X'300!'
AND,D1 *D3
BEZ RCV1
STS,D1 RCVCODE
CI,D1 X'200!'
BE DUMP
BG RCV1
LI,R4 X'7FFFF!'
AND,R4 RCVSIZE
AI,R4 X'4000!'**2*X'7FF!'
SLS,R4 *11
CW,R4 LOW
BG RCV1
LH,D4 RCVCODE
REF TIGJOBSTRY
REF Y07,MBISQ1,DCT5
REF DCT6
SREF C01INTFL
LI,R0 0
MTH,0 C01INTFL
BNEZ RCV1
LD,R2 TRAPPSD
LI,R1 #CODES
CB,D4 SCODES,R1
BE KRDS
BDR,R1 **2

```

```

E(XPSD ADR + 1) W/*1FF!
G/PHYS WD ADR OF XPSD + 1

GET SCREECHCODE,SUBCODE
BNEZ
L/SCREECH CODES FROM SAVEREGS+15
SEE IF LW OF R15 IS NON-ZERO
BANZ, R15 HAS CODE & SUBCODE
SHIFT, R15 HAD ONLY SCREECH CODE
S/SCREECH CODE AND SUBCODE

SCREECH,SUA,DUMP
SCREECH
SAVE SCREECH,SUA,DUMP FOR ANLZ

DUMP
ERROR=NO SUCH TYPE CRASH

BYTE SIZE OF RECOVERY
RECOVERY BIAS
PAGE AFTER RECOVERY
OVERLAP USER AREA
YES=CANT SUA
SUA=SCREECHCODE

TEST R0 IN NON C0C SYSTEM
C0C INTERRUPTS DISABLED
YES=CRASH
TRAP PSD
NUMBER OF SUA CODES
SUA CODE
YES

```

```

283 01 000A3 12200000 X
284 01 000A4 31300000 X
285 01 000A5 69400113
286 01 000A6 31200000 X
287 01 000A7 68400113
288
289
290
291 01 000A8 0E000148
292 01 000A9 32100000 X
293 01 000AA 31100000 X
294 01 000AB 69400113
295 01 000AC 47100000 X
296 01 000AD 32C00000 X
297 01 000AE 21C00000 N
298 01 000AF 68200113
299 01 000B0 33000152
300 01 000B1 69300113
301 01 000B2 000B2
302 01 000B2 33000155
303 01 000B3 68300104
304 01 000B4 33000152
305 01 000B5 69300104
306 01 000B6 31400000 X
307 01 000B7 69200104
308 01 000B8 22700001 A
309 01 000B9 72100000 X
310 01 000BA 6AB00178
311 01 000BB 71100000 X
312 01 000BC 683000BE
313 01 000BD 751E0154
314 01 000BE 52100155
    01 000BF 4B100000 X
315 01 000C0 6AB00178
316 01 000C1 52200155
    01 000C2 4B200000 X
317 01 000C3 31100002 A
    
```

```

KRDS LD,R2 RCV,PSD RECOVER PSD
      CW,R3 Y07 INHIBITED
      BANZ RCV1 YES-CRASH
      CW,R2 Y004 MAPPED
      BAZ RCV1 NO-CRASH
*
* SINGLE USER ABORT
*
MAPED LPSD,0 MAPMAP GO MAPED
      LW,R1 Y004
      CW,R1 JITELFLGS THIS USER SUICED BEFORE
      BANZ RCV1 YES-CRASH
      STS,R1 JITELFLGS NO-SET SUICED
      LW,12 SICUN
      CI,D1 MING
      BLE RCV1 CRASH IF SYSTEM GHOST
      MTW,0 DUMPFLE DUMP FILE BUSY
      BNEZ RCV1 YES-CRASH
DUMP EQU $
      MTW,0 SUABTFLE RADDM FILE OBTAINED
      BEZ DUMPRTN NO-RETURN TO CALLER
      MTW,0 DUMPFLE DUMP FILE BUSY
      BNEZ DUMPRTN YES-CANT DUMP RETURN TO CALLER
      CW,R4 LOW RECOVERY OVERLAP USER AREA
      BG DUMPRTN YES-CANT DUMP
      LI,R7 1 INDEX TO SAVE DCTX
      LB,R1 MBISDI DCTX OF SWAPPER
      BAL,SR4 STOP10 STOP 10 ON THIS DEVICE
      CB,R1 MBISDI DID ANOTHER DEVICE ON THE CHANNEL GO
      BE *+2 NO
      STB,R1 SAVEDCTX,R7 YES SAVE ITS DCTX
      LDCTX,R1 SUABTFLE DCTX OF DUMP DEVICE
      BAL,SR4 STOP10 STOP 10 ON THIS DEVICE
      LDCTX,R2 SUABTFLE
      CW,R1 R2 ANOTHER DEVICE ON THIS CHANNEL STOP
    
```

318 01 000C4 683000C9
 319 01 000C5 711E0154
 320 01 000C6 683000C9
 321 01 000C7 22700002 A
 322 01 000C8 751E0154
 323 01 000C9
 324 01 000C9 0E00014C
 325 01 000CA CF000000 X
 326 01 000CB 52040000 X
 327 01 000CC CF000000 A
 328 01 000CD 32600000 X
 329 01 000CE 38600000 X
 330 01 000CF 2060001E A
 331 01 000D0 22100003 A
 332 01 000D1 4B100042
 333 01 000D2 33100042
 334 01 000D3 35620043
 335 01 000D4 32600000 X
 336 01 000D5 75620047
 337 01 000D6 226FFFFFF A
 338 01 000D7 68000127
 339 01 000D8
 340 01 000D8 32700145
 341 01 000D9 46700008
 342 01 000DA 22000002
 343 01 000DB 32100000 X
 344 01 000DC 6AB0015C
 345 01 000DD 680000DA
 346 01 000DE 35700008
 347 01 000DF 33100152
 348 01 000E0 33100000 X
 349 01 000E1 32100000 X
 350 01 000E2 75100152
 351 01 000E3 72100000 X
 352 01 000E4 6AB00196
 353 01 000E5 52200155
 01 000E6 4B200000 X

KRD4
UNMAP1

SUARTN

BE KRD4
 CB,R1 SAVEDCTX,R7
 BE KRD4
 LI,R7 2
 STB,R1 SAVEDCTX,R7
 EQU *
 LPSD,0 UNMAPPSD
 IH10,0 *MISWAPD
 LW,R0 DCT1,R2
 IH10,0 *0
 LW,R6 C,TIC
 SW,R6 CITINC
 AI,R6 30
 LI,R1 3
 AND,R1 SUACNT
 MTW,1 SUACNT
 STW,R6 SUATIME,R1
 LW,R6 SICUN
 STB,R6 SUACUN,R1
 LI,R6 =1
 B KRD2
 EQU *
 LW,R7 MPPSEEK
 XW,R7 RCVDISC
 LI,0 DA(REDDWD)
 LW,R1 MISWAPD
 BAL,R11 I0
 B *3
 STW,R7 RCVDISC
 MTW,1 DUMPFIL
 MTW,1 RCVRCNT
 LW,R1 RCVRCNT
 STB,R1 DUMPFIL
 LB,R1 MB,SDI
 BAL,SR4 RESTRTO
 LDCTX,R2 SUABTFLE

NO
 DEVICE ALL REDEADY REMEMBERED
 YES
 INDEX TO SAVE DCTX
 SAVE DCTX
 GO UNMAPED
 HALT I/O ON SYSTEMM DEVICE
 ADDRESS OF DUMPFIL
 ADDRESS OF DUMPFIL
 HALT I/O ON DUMP DEVICE
 TIME SINCE LAST CRASH
 ADD TIME OF THIS QUANTUM
 CIRCULAR BUFFER
 COUNT THIS SUA
 SAVE TIME OF THIS SUA
 SAVE USER NUMBER OF THIS SUA
 RECOVERY'S START ADDRESS=1 (S U A)
 RETURN FROM RECOVERY
 SEEK OF MONITOR UNDER RECOVERY
 TO REED BACK AFTER SUA
 ADDRESS OF PRIMARY SWAPPER
 READ MONITOR UNDER RECOVERY
 ERROR RETURN=TRY AGAIN
 RESTORE RECOVERY SEEK ADDRESS
 SET TO INDICATE SUA TO RVGH0ST
 INC RECOVER COUNT FOR SUA PATH
 PUT M0NDMP NO. IN DUMPFIL
 DCTX OF SYSTEM SWAPPER
 YES-RESTART THE I0

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354 01 000E7 31100002 A
 355 01 000E8 683000EB
 356 01 000E9 32100002 A
 357 01 000EA 6AB00196
 358 01 000EB 22700002 A
 359 01 000EC 721E0154
 360 01 000ED 683000F1
 361 01 000EE 75700154
 362 01 000EF 6AB00196
 363 01 000F0 72700154
 364 01 000F1 647000EC
 365 01 000F2 72100000 X
 366 01 000F3 6A200000 X
 367 01 000F4 52100155
 368 01 000F5 4B100000 X
 369 01 000F6 6A200000 X
 370 01 000F7 22700002 A
 371 01 000F8 721E0154
 372 01 000F9 683000FD
 373 01 000FA 75700154
 374 01 000FB 6A200000 X
 375 01 000FC 72700154
 376 01 000FD 647000F8
 377 01 000FE 35700154
 378 01 000FF 12000146
 379 01 00100 6AA00000 X
 380 01 00101 32700011
 381 01 00102 21700200 A
 382 01 00103 68400108
 383 01 00104 33100000 X
 384 01 00105 02200000 A
 385 01 00106 2A000022
 386 01 00107 0E800000 X
 387 01 00108 22F00000 N
 388 01 00109 6830010F

KRD3

DUMPRTN

KRD6

CW,R1 R2
 BE KRD3
 LW,R1 R2
 BAL,SR4 RESTRTO
 EQU \$
 LI,R7 2
 LB,R1 SAVEDCTX,R7
 BEZ \$+4
 STB,R7 SAVEDCTX
 BAL,SR4 RESTRTO
 LB,R7 SAVEDCTX
 BDR,R7 \$=5
 LB,R1 MBISDI
 BAL,R2 FORCEIO
 LDCTX,R1 SUABTFLE
 BAL,R2 FORCEIO
 LI,R7 2
 LB,R1 SAVEDCTX,R7
 BEZ \$+4
 STB,R7 SAVEDCTX
 BAL,R2 FORCEIO
 LB,R7 SAVEDCTX
 BDR,R7 \$=5
 STW,R7 SAVEDCTX
 LD,R0 TXCRVGS
 BAL,SR3 TIGJORSTR
 LW,R7 RCVCODE
 CI,R7 X'200'
 BAZ KRD6
 MTW,1 RCVPSD
 LCI 0
 LM,R0 SAVEREGS
 LPSD,8 RCVPSD
 EQU \$
 LI,15 NSCPU
 BEZ KRD61

SWAP AND DUMP DEVICE THE SAME
 YES-THIS ALL THE IO NEEDED TO RESTART
 DCTX OF DUMP DEVICE
 YES-RESTART THE IO
 DCTX SAVED
 NO
 SAVE R7
 START IO
 RESTORE R7
 DCTX OF SWAPPER
 GO-START IO
 DCTX OF DUMP DEVICE
 GO-START IO
 DCTX SAVED
 NO
 SAVE R7
 GO START IO
 RESTORE R7
 ZERO SAVEDCTX
 GO-START RECOVER GHOST
 SCREECH CODE INFO
 DUMP
 NO-SUA
 RETURN TO XPSD*2
 RESTORE REG BLOCKO
 RETURN TO XPSD*2
 MP SYSTEM
 NO

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427	01	00128	72100000	X
428	01	00129	21600000	A
429	01	0012A	4830012D	
430	01	0012B	52100155	
	01	0012C	4B100000	X
431	01	0012D	52120000	X
432	01	0012E	35200017	
433	01	0012F	223F0000	A
434	01	00130	47200018	
435	01	00131	2200000D	
436	01	00132	2227A120	A
437	01	00133	44200133	
438	01	00134	6AB0015C	
439	01	00135	02000000	A
440	01	00136	205003FF	A
441	01	00137	4B5001D9	
442	01	00138	2240FFFF	A
443	01	00139	46400005	A
444	01	0013A	47400013	
445	01	0013B	52500013	
446	01	0013C	70200003	A
447	01	0013D	68200140	
448	01	0013E	21500800	A
449	01	0013F	694001A4	
450	01	00140	22000002	
451	01	00141	32100000	X
452	01	00142	6AB0015C	
453	01	00143	68000140	
454	01	00144	F80C0010	
455	01	00145	00000000	A
456				
457	01	00146	07D9E5C7	A
	01	00147	08D6E2E3	A
458	01	00148	004000A9	N
			07000000	
459	01	0014A	000001CC	N
			07000000	

	LB,R1	MBISDI
	CI,R6	0
	BE	KRD10
KRD9	LDCTX,R1	SUABTFLE
KRD10	LW,R1	DCT1,R1
	STW,R2	SEEK
	LI,R3	X'F0000'
	STS,R2	SEEK1
	LI,R0	DA(DUMPCOM)
	LI,R2	500000
KRD1	BDR,R2	\$
	BAL,R11	10
	NBP	
	AI,R5	1023
	AND,R5	=X'FFFFFFC00'
	LI,R4	X'FFFF'
	XW,R4	R5
	STS,R4	TIO*STATUS+1
	LW,R5	TIO*STATUS+1
	LC	R3
	BCR,2	\$*3
	CI,R5	X'800'
	BANZ	UNEND
	LI,0	DA(REDDWD)
	LW,R1	M;SWARD
	BAL,R11	10
	B	\$*3
	B	*RCVSTART,R6
MPPSEEK	DATA	0
	BOUND	8
TXCRVGST	TEXTC	IRVGH0ST'
MAPMAP	IPSD	MAP,(IA,MAPED+1),INH
UNMpSD	IPSD	(IA,UNMpSD1+1),INH

DCT OF SYSTEM SWAP
SUA
NO
YES=GET DCT OF SUA FILE

DEVICE ADDRESS
SEEK TO PUT CORE AT X'4000'

CYLINDER NUMBER
DUMP COMM LIST

DELAY FOR PACK ARM
DUMP X'4000'=X'7FFF'
ERROR RETURN

ROUND UP TO SECTOR

STATUS BITS
SECTOR UNAVAILABLE
NO=

UNUSUAL END=CYL CROSSING

ADDRESS OF PRIMARY SWAPPER
READ RECOVERY
ERROR RETURN=TRY AGAIN
ENTER RECOVERY.

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460	01	0014C	000000CA	N	UNMAPPSD	:PSD	(IA,UNMAP1+1),INH	
			07000000					
461	01	0014E	00400000	N	RTNpSD	:pSD	MAP,(IA,T:ABORTM),(WK,1)	
			10000000					
462	01	00150	00000116	N	PDFPSD	:PSD	(IA,PDFOFF),INH	
			07000000					
463						BOUND	4	
464	01	00152	00000000	A	DUMPFLE	DATA	0	Z DUMP FILE FREE,NZ DUMP FILE BUSY
465	01	00153	0000	A		DATA,2	0,0	NUMBER OF CORE PAGES,NUMBER OF JITS
	01	00153	2 0000	A				
466	01	00154	00000000	A	SAVEDCTX	DATA	0	SAVE DCTX OF DEVICES STOPED FOR SUA
467	01	00155	00000000	A	SUABTFLE	DATA	0	FIRST DISC ADDRESS OF DUMP FILE
468	01	00156	00000000	A		DATA	0	GRANULE SIZE OF DUMP FILE
469	01	00157	00000000	A	SMAKFLG	DATA	0	Z SYSMAX NEEDED
470					*			NZ SYSMAX PERFORMED
471					*			NEG UP AFTER CRASH
472	01	00158	20D00001	A	RCV43	AI,13	1	+1 TO RECOVERY SUBCODE (03,03)
473	01	00159	20D00001	A	RCV42	AI,13	1	+1 TO RECOVERY SUBCODE (03,02)
474	01	0015A	48000088			B	RCV41	B
475	01	0015B	00	A	SCODES	DATA,1	0,X1611,X1791,X17E1	
	01	0015B	1 61	A				
	01	0015B	2 79	A				
	01	0015B	3 7E	A				
476			00000003		#CODES	EGU	BA(*)=BA(SCODES)=1	
477					BOUND		4	

478					PAGE	
479		01 0015C		I0	EQU	* I/O WITH ERROR CHECKING
480	01	0015C	2280000A	A	LI,R8	10 RETRY COUNT
481	01	0015D	CC000001	A	ISI0,0	*R1 START I/O DEVICE IN R1
482	01	0015E	22200029	A	I01 LI,R2	41
483	01	0015F	6420015F		BDR,R2	* DELAY
484	01	00160	CD400001	A	ITI0,R4	*R1 TIO STATUS
485	01	00161	69C0015E		BCS,12	I01 WAIT FOR TRANSFER TO COMPLETE
486	01	00162	15400012		STD,R4	TIO*STATUS SAVE TIO STATUS
487	01	00163	CE300001	A	;TDV,R3	*R1 TDV STATUS
488	01	00164	35300014		STW,R3	TDV*STATUS SAVE TDV STATUS
489	01	00165	70200003	A	LC	R3
490	01	00166	6960016A		BCS,6	I03 SECTOR UNAVAILABLE
491	01	00167	52200013		LH,R2	TIO*STATUS+1 TIO STATUS BITS
492	01	00168	2120007E	A	CI,R2	X'7E' ANY ERROR BITS SET
493	01	00169	6940016C		BANZ	*+3 ERROR BIT SET TRY AGAIN
494	01	0016A	20B00001	A	I03 AI,R11	1 SET TO NORMAL RETURN
495	01	0016B	F800000B	A	B	*R11 RETURN
496	01	0016C	6480015D		BDR,R8	I02 YES-TRY AGAIN
497	01	0016D	2200008A		LI,R0	DA(TYCOMM)
498	01	0016E	4C000001	A	ISI0,0	1 TYPE 0N 0C 'RCIO ERR'
499	01	0016F	4D000001	A	I04 ;TI0,0	1
500	01	00170	69C0016F		BCS,12	I04
501	01	00171	68000171		B	* STOP FOR OPERATOR
502	01	00172	F800000B	A	B	*R11 TAKE ERROR RETURN
503						
504	01	00174	050005D8		TYCOMM	8
505	01	00175	00000008	A	GEN,8,24	5,BA(TYMESS)
506	01	00176	09C3C9D6	A	TYMESS	0,8
	01	00177	40C5D9D9	A	TEXT	;RCIO ERR,

507					PAGE		
508		01 00178			ST0PI0 EQU	\$	DCTX IN R1
509	01	00178	72320000	X	LB,R3	DCT2,R1	CITX
510	01	00179	72460000	X	LB,R4	CIT1,R3	I00X
511	01	0017A	F830000B	A	BEZ	*SR4	NO QUEUE CHAIN,RETURN
512	01	0017B	70280000	X	ST0PI03 LC	I003,R4	REQUEST BUSY
513	01	0017C	68800193		BCR,8	ST0PI02	NO
514	01	0017D	72280000	X	LB,R2	I007,R4	DCTX OF BUSY DEVICE
515	01	0017E	70240000	X	LC	DCT5,R2	DEVICE BUSY
516	01	0017F	68800193		BCR,8	ST0PI02	NO
517	01	00180	68100193		BCR,1	ST0PI02	NO DATA TRANSFERING
518	01	00181	52640000	X	LW,R6	DCT1,R2	DEVICE ADDRESS
519	01	00182	51640000	X	CH,R6	DCT1P,R2	DATA TRANSFERING ON PRIMARY CHANNEL
520	01	00183	69300193		BNE	ST0PI02	NO-DO NOT STOP IO
521	01	00184	72540000	X	LB,R5	DCT4,R2	TYPE INDEX
522	01	00185	725A0000	X	LB,R5	TBIFLGS,R5	
523	01	00186	215000C0	A	CI,R5	XIC01	ROTATING DEVICE
524	01	00187	68100190		BGE	ST0PI01	YES-HALT THE IO
525	01	00188	22202000	A	LI,R2	X'2000'	LOOP COUNTER
526	01	00189	225003E8	A	ST0PI04 LI,R5	1000	
527	01	0018A	6450018A		BDR,R5	\$	DELAY
528	01	0018B	CD500006	A	ITIO,R5	*R6	TIO TO GET STATUS
529	01	0018C	70200005	A	LC	R5	INTERRUPT PENDING FOR TAPE
530	01	0018D	F980000B	A	BCS,8	*SR4	YES-RETURN CHANNEL QUIET
531	01	0018E	64200189		BDR,R2	ST0PI04	LOOP
532	01	0018F	F800000B	A	B	*SR4	GIVE UP ON DELAY FOR TAPE
533	01	00190	CF000006	A	ST0PI01 IHI0,0	*R6	HALT I/O ON ROTATING DEVICE
534	01	00191	32100002	A	LW,R1	R2	DCTX OF HALTED DEVICE
535	01	00192	F800000B	A	B	*SR4	RETURN
536	01	00193	72480000	X	ST0PI02 LB,R4	I002,R4	CHAIN DOWN THE QUEUE
537	01	00194	6930017B		BNEZ	ST0PI03	
538	01	00195	F800000B	A	B	*SR4	RETURN END OF CHAIN

```

539
540
541
542
543
544      01 00196
545      01 00196      70220000 X
546      01 00197      F8E0000B A
547      01 00198      4880019A
548      01 00199      6A500000 X
549      01 0019A      72220000 X
550      01 0019B      4B200000 X
551      01 0019C      75220000 X
552      01 0019D      72220000 X
553      01 0019E      72340000 X
554      01 0019F      4B300000 X
555      01 001A0      75340000 X
556      01 001A1      72340000 X
557      01 001A2      75340000 X
558      01 001A3      F800000B A
    
```

```

PAGE
NAME:
PURPOSE:
*F*
*F*
*F*
*F*
RESTRTIO EQU
    
```

```

RESTRTIO
RESTART I/O ON ROTATING DEVICE THAT WERE
STOPPED DUE TO A SUA, DUMP OR POWER FAIL-
SAFE.
    
```

```

$
LC          DCT5,R1
BCR,X'E'   *SR4
BCR,8      $+2
BAL,R5     INTSIM
LB,R2      DCT5,R1
AND,R2     M5
STB,R2     DCT5,R1
LB,R2      DCT6,R1
LB,R3      I0Q3,R2
AND,R3     M7
STB,R3     I0Q3,R2
LB,R3      I0Q4,R2
STB,R3     I0Q5,R2
B          *SR4
    
```

```

DEVICE BUSY
NO. NOTHING TO RESTART
GO-SET DEVICE IN CLEANUP-PENDING ST/
CLEAN UP DCT5 FOR RESTART
I0QX
CLEAR THE BUSY BIT FROM I0Q3
SET FUNCTION CODE
RETURN
    
```

ADDRESS	MODE	OPERAND	HEX VALUE	UNEND	PAGE	INSTR	OPERANDS	OPERANDS	OPERANDS
559									
560	01	001A4	53100018			SEEK ₁		INC CURRENT CYLINDER NUMBER	
561	01	001A5	2230FFFF	A		LI,R3	X'FFFF'		
562	01	001A6	2220FFFF	A		LI,R2	X'FFFF'		
563	01	001A7	4B200012			AND,R2	TIO*STATUS		
564	01	001A8	47200020			STS,R2	COMMPACK+2	DA(COMMRAD) ADDRESS	
565	01	001A9	25200001	A		SLS,R2	1	ADDRESS OF COMMRAD ENTRY	
566	01	001AA	2250FFFF	A		LI,R5	X'FFFF'		
567	01	001AB	2240FFFF	A		LI,R4	X'FFFF'		
568	01	001AC	4B400013			AND,R4	TIO*STATUS+1	REMAINGING BYTE COUNT	
569	01	001AD	693001AF			BNEZ	*+2		
570	01	001AE	22410000	A		LI,R4	X'10000'	REMAING BYTE COUNT	
571	01	001AF	21400400	A		CI,R4	X'400'	ODD NUMBER OF SECTORS/CYLINDER	
572	01	001B0	4B4001B2			BAZ	*+2	NO	
573	01	001B1	20400400	A		AI,R4	X'400'	YES-RE-WRITE THE LAST SECTOR	
574	01	001B2	4B340001	A		INT,R3	1,R2	STARTING BYTE COUNT FROM COMMRAD	
575	01	001B3	21300000	A		CI,R3	0		
576	01	001B4	693001B6			BNE	*+2		
577	01	001B5	22310000	A		LI,R3	X'10000'	STARTING BYTE COUNT	
578	01	001B6	47440001	A		STS,R4	1,R2	NEW BYTE COUNT	
579	01	001B7	38300004	A		SW,R3	R4		
580	01	001B8	46340000	A		AWM,R3	0,R2	INC MEMORY ADDRESS BY AMOUNT WRITTEN	
581	01	001B9	2200000F			LI,R0	DA(COMMPACK)		
582	01	001BA	48000134			B	KRD ₁		

583
584
585
586
587 01 001BB
588 01 001BB 476001C3
589 01 001BC 22100031
590 01 001BD 716001DA
591 01 001BE 683001C0
592 01 001BF 32100000 X
593 01 001C0 02200000 A
594 01 001C1 2A03FFF1 A
595
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597
598
599
600
601
602
603 01 001C2 0F000000 X
01 001C3 00610100 A

PAGE
NAME: SCR61
PURPOSE: REPORT A SUA CODE 61 WHERE THE SUBCODE IS
THE TRAP CELL ADDRESS.
F
F
F
SCR61
EQU *
STS,R6 SCR61E+1 TRAP CELL AS SUB CODE
LI,1 SAVEREGS+15 L/ADR OF LAST REG IN SAVEREGS
CB,6 =X'421**24 C/TRAP TYPE W/X'421
BE \$+2 BE: GET REGS FROM SAVEREGS
LW,1 TSTACK L/TOP OF STACK ADR, REGS FROM TSTACK
LCI 0 L/CCI'S OF 0 FOR LM
LM,0 =15,1 L/REGS (AT TIME OF TRAP)
S SCREECH CODE: 61-(TRAP CELL)
S REPORTED BY: INITRCVR
S MESSAGE: TEL OR CCI HAS TRAPED.
S TYPE: SUA
S REGISTERS: REGISTERS AT TIME OF TRAP.
S REMARKS: TRAP OCCURRED WHILE OPERATING MAPPED,
SLAVE, AND WITH TEL-IN CONTROL SET.
S SUBCODE IS TRAP LOCATION.
SCR61E SUA X'61' SUA X'61'

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641			*S*		
642			*S*		
643	01 001D7	0F000000 X	SCR7EE	SUA	
	01 001D8	007E0100 A			
644	01 001D9		PPSTART	RES	
645				END	
	01 001D9	FFFFFFC00 A			
	01 001DA	42000000 A			

LOCATION AND THE TRAP LOCATION ARE STORED
 IN THE MONITOR JIT AT X'8DF0' X'8DFF',
 X'17E' SUA X'17E'

CONTROL SECTION SUMMARY; 01 001DB PT 0

* SYMBOL VALUES

ANSPRBC/00000000
 CSEI\$PATH\$REC\$V/00000002
 DCT\$SHIFT\$AMT/00000010
 DUMPCBM/01 0001A
 D3/0000000E
 I0/01 0015C
 I04/01 0016F
 KR03/01 000EB
 KR061/01 0010F
 MAPED/01 000A8
 MPBRANCH/01 00049
 PDF\$FF/01 00116
 R\$STDC TX/00000000
 RCV42/01 00159
 RESTRY/01 0005F
 R10/0000000A
 R14/0000000E
 R4/00000004
 R8/00000008
 SCR61E/01 001C2
 SEEK1/01 00018
 SR4/0000000B
 ST0PI03/01 00178
 T10\$STATUS/01 00012
 UFLAGS/00000000
 UNMPSD/01 0014A
 #CODES/00000003

* EXTERNAL DEFINITIONS

ABRT/01 001C4
 INITRCVR/01 00000
 PPSTART/01 00109
 RCVRDSZ/01 00009
 RESTRY0/01 00196
 SEEK4000/01 00016
 SUACUN/01 00047
 TRAPPSD/01 00002

BITS/00000000

DUMPRTN/01 00104
 D4/0000000F
 I01/01 0015E
 KR01/01 00134
 KR04/01 000C9
 KR07/01 00117
 MAPMAP/01 00148
 MPBRANCH2/01 0004A
 PDFPSD/01 00150
 R\$STSECTA/00000000
 RCV43/01 00158
 RTNPSD/01 0014E
 R11/0000000B
 R15/0000000F
 R5/00000005
 R9/00000009
 SCR7EE/01 001D7
 SR1/00000008
 ST0PI0/01 00178
 ST0PI04/01 00189
 TXCRV GST/01 00146
 UNEND/01 001A4
 UNMPSD1/01 001CB

B00TSBAND/01 0000F
 LLND0/01 0000C
 RCVC0DE/01 00011
 RCVSIZE/01 00007
 SAVEREGS/01 00022
 SMAKFLG/01 00157
 SUARTN/01 00008
 TRAPSAVE/01 00000

BL0CK1/01 00048
 DCBPRBC/00000000
 DISCBPRBC/00000001
 D1/0000000C
 GETN/01 00060
 I02/01 0015D
 KR010/01 0012D
 KR05/01 000A4
 KR08/01 0011E
 M0NPRBC/00000000
 N0MP/01 00069
 R\$LDcTX/00000000
 RCV1/01 00113
 RCV60/01 00084
 R0/00000000
 R12/0000000C
 R2/00000002
 R6/00000006
 SAVEDCTX/01 00154
 SECT\$FLD/LIST
 SR2/00000009
 ST0PI01/01 00190
 S69PRBC/00000001
 TYCOMM/01 00174
 UNMAPPSD/01 0014C
 UTSPRBC/00000001

CND0/01 0000D
 MPPSEEK/01 00145
 RCVDISC/01 00008
 RCVSTART/01 00010
 SAVEREGS1/01 00032
 SUABTFLE/01 00155
 SUATIME/01 00043

COMMPACK/01 0001E
 DCT\$FLD/LIST
 DUMP/01 000B2
 D2/0000000D
 GTN/01 00065
 I03/01 0016A
 KR02/01 00127
 KR06/01 00108
 KR09/01 0012B
 MPBITS/00000000
 N0PUT/01 00105
 R\$LSECTA/00000000
 RCV41/01 0008B
 REDDWD/01 00004
 R1/00000001
 R13/0000000D
 R3/00000003
 R7/00000007
 SC0DES/01 0015B
 SEEK/01 00017
 SR3/0000000A
 ST0PI02/01 00193
 TDV\$STATUS/01 00014
 TYMESS/01 00176
 UNMAP1/01 000C9
 !A/01 00190

DUMPFLE/01 00152
 0CND0/01 0000B
 RCVRAD/01 0000A
 RECOVER0/01 0004B
 SCR61/01 0018B
 SUACNT/01 00042
 SYSVERS/01 0000E

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* PRIMARY REFERENCES

CITIC	CITINC
DCT1	DCT1P
DCT6	FORCEI0
I0Q7	JIJIT
MJNG	MP:HPN
RCVRCNT	RT:RCVR
TEIFLGS	TEMP
IBIG	IB560

CIT1
DCT2
INTSIM
JITELFLGS
M5
SIADR
TSTACK
IB9

C0RED
DCT24
I0Q2
JX:CMAP
M7
S:ICUN
UX:JIT

CSED:PATH
DCT3
I0Q3
LBW
M9
SMUIS
Y004

DCT:MASK
DCT4
I0Q4
MISWAPD
PFSRSW
TIABORTM
Y07

DCTSIZ
DCT5
I0Q5
MB:SDI
RCVPSD
T:GJOBSTF
24BM15

* SECONDARY REFERENCES

CO:INTFL	CO:FLAG
SLVWAIT	SYSTRT

NSCPU
T:SIDLER

SISTOUT

SB:RCVA

SB:RCVR

SB:STATE

- * NO UNDEFINED SYMBOLS
- * ERROR SEVERITY LEVEL: 0
- * NO ERROR LINES