

13:44 SEP 08, 1975 ID#00E6
JOB IP06T, BRU333323132, 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				
COFLAG	274/SREF	276/MTH				
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				
DCTSIZ	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		
DISCBPR6C	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-DATA
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=;PSD				
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					
BCNDD	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/MTW				
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				
STOP10	180/REF	235/CI				
STOP101	310/BAL	315/BAL	508=EQU			
STOP102	524/BGE	533=H10				
STOP103	513/BCR	516/BCR	517/BCR	520/BNE	536=LB	
STOP104	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		
UXJIT				
	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,TBIFLGS,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	NSCPU	#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

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	,
	01 00001	00000000			
133	01 00002	00000000	TRAPPSD	DATA	,
	01 00003	00000000			
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	0CNDDDEDATAE1		
142	01 0000C	00000002	LLNDDDEDATAE2		
143	01 0000D	00000003	CNDDDEDATAE3		
144	01 0000E		SYSVERSERESE1		
145	01 0000F		BOOTS BAND RES		1
146	01 00010	00000000	RCVSTART	DATA	0

SAVE .40 & .46 IN RECOVERY

PSD OF TRAP

BYTE SIZE OF RECOVERY

START ADDRESS OF RECOVERY

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147	01	00011	00000000	A	RCVCODE DATA	0	CRASH CODE & SUBCODE
148					BOUND	8	
149	01	00012	00000000	A	TIO\$STATUS DATA	0,0	
	01	00013	00000000	A			
150	01	00014	00000000	A	TDV\$STATUS DATA	0	
151	01	00015	00000000	A	DATA	0	SEEK OF X'4000' FOR SUA FILE
152	01	00016	00000000	A	SEEK4000 DATA	0	SEEK OF X'4000' FOR RECOVER
153	01	00017	00000000	A	SEEK DATA	0	SEEK TO PUT X'4000'-X'7FFF'
154	01	00018	00000000	A	SEEK1 DATA	0	SEEK TO CROSS CYCL.
155					BOUND	8	
156	01	0001A	0300005C		DUMPCOM GEN,8,24	3,BA(SEEK)	
157	01	0001B	2A000004	A	GEN,8,24	X'2A1,4	
158	01	0001C	01010000	A	GEN,8,24	1,4*X'4000'	
159	01	0001D	08000000	A	GEN,8,24	8,0	
160	01	0001E	03000060		COMMPACK GEN,8,24	X'031,BA(SEEK1)	SEEK TO NEXT CYLINDER
161	01	0001F	2A000004	A	GEN,8,24	X'2A1,4	
162	01	00020	08000000	A	GEN,8,24	X'081,0	TIC BACK INTO COMMRAD
163	01	00021	00000000	A	GEN,8,24	0,0	
164	01	00022			SAVEREGS RES	16	REGS AT TIME OF ENTRY TO RECOVERY
165	01	00032			SAVEREGS1 RES	16	REGISTER BLOCK ONE AT TIME OF CRASH
166	01	00042	00000000	A	SUACNT DATA	0	COUNT OF SUAS SINCE LAST CRASH
167	01	00043	00000000	A	SUATIME DATA	0,0,0,0	TIME OF SUAS
168	01	00047	00000000	A	SUACUN DATA	0	USER NUMBER OF SUAS
169	01	00048	00000000	N	BLCK1 GEN,28,4	CBCFLAG,0	BLK 1 CBC SYS; BLK 0 NON CBC SYS
170	01	00049	68000000	X	MPBRANCH B	SYSTRT	SLAVE SYS STARTLOOP
171	01	0004A	68000000	X	MPBRANCH2 B	TISIDLER	SLAVE RTN FOR SUA

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173
174
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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 2D000002 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 22FFFFFF 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 BUT QUICK
LI,R14 #1
STW,R14 SB;RCVR
LW,14 SISTOUT MAX # OF TRIES
    
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209	01	0005E	22D00000	A	RESTRT	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	SBIRCVA,R1	SLAVE ACKED
212	01	00061	69300065			BNEZ	GTN	YES
213	01	00062	73020000	X		MTB,0	SBISTATE,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	RESTRT	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	X'40!	CHECK MAP BIT
229	01	00071	68400084			BAZ	RCV60	B/RESET; NO MAPPING PROBLEMS
230	01	00072	21E08000	A		CI,14	X'8000!	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	CORED	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	CORED	C/ADR W/# OF WDS OF PHYS CORE
245	01	00081	68100158			BGE	RCV43	BGE; JXICMAP 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	C8D0000E	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	C8C0000E	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	641000A0	

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

```

```

&(XPSD ADR + 1) W/.1FF:
G/PHYS WD ADR OF XPSD + 1

```

```

GET SCREECHCODE,SUBCODE
BNEZ
L/SCREECH CODES FROM SAVEREGS+15
SEE IF LH 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 483000BE
313 01 000BD 751E0154
314 01 000BE 52100155
315 01 000BF 4B100000 X
315 01 000C0 6AB00178
316 01 000C1 52200155
316 01 000C2 4B200000 X
317 01 000C3 31100002 A
    
```

KR05

```

LD,R2 RCV,PSD
CW,R3 Y07
BANZ RCV1
CW,R2 Y004
BAZ RCV1
    
```

```

RECOVER PSD
INHIBITED
YES-CRASH
MAPPED
NO-CRASH
    
```

* SINGLE USER ABORT

MAPED

```

LPSD,0 MAPMAP
LW,R1 Y004
CW,R1 JITELFLGS
BANZ RCV1
STS,R1 JITELFLGS
LW,12 SICUN
CI,D1 MING
BLE RCV1
MTW,0 DUMPFLE
BNEZ RCV1
    
```

```

GO MAPED
THIS USER SUAIED BEFORE
YES-CRASH
NO-SET SUAIED
    
```

DUMP

```

EQU $
MTW,0 SUABTFLE
BEZ DUMPRTN
MTW,0 DUMPFLE
BNEZ DUMPRTN
CW,R4 LOW
BG DUMPRTN
LI,R7 1
LB,R1 MBISDI
BAL,SR4 STOP10
CB,R1 MBISDI
BE $+2
STB,R1 SAVEDCTX,R7
LDCTX,R1 SUABTFLE
    
```

```

CRASH IF SYSTEM GHOST
DUMP FILE BUSY
YES-CRASH
RANDOM FILE OBTAINED
NO-RETURN TO CALLER
DUMP FILE BUSY
YES-CANT DUMP RETURN TO CALLER
RECOVERY OVERLAP USER AREA
YES-CANT DUMP
INDEX TO SAVE DCTX
DCTX OF SWAPPER
STOP 10 ON THIS DEVICE
DID ANOTHER DEVICE ON THE CHANNEL GO
NO
YES SAVE ITS DCTX
DCTX OF DUMP DEVICE
STOP 10 ON THIS DEVICE
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
IHI0,0 *MISWAPD
LW,R0 DCT1,R2
IHI0,0 *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 DUMPFIE
MTW,1 RCVRCNT
LW,R1 RCVRCNT
STB,R1 DUMPFIE
LB,R1 MB,SDI
BAL,SR4 RESTRTO
LDCTX,R2 SUABTFLE

```

```

NO
DEVICE ALL REDEADY REMEMBERED
YES
INDEX TO SAVE DCTX
SAVE DCTX

GB UNMAPED
HALT I/O ON SYSTEMM DEVICE
ADDRESS OF DUMPFIE DEVICE
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 DUMPFIE
DCTX OF SYSTEM SWAPPER
YES-RESTART THE I0

```

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20

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 BLCKO
 RETURN TO XPSD*2
 MP SYSTEM
 NO


```

427 01 00128 72100000 X
428 01 00129 21600000 A
429 01 0012A 4830012D
430 01 0012B 52100155
      01 0012C 48100000 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 485001D9
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 48200140
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
    
```

```

      LBR,R1 MBISDI
      CI,R6 0
      BF KRD10
      LDCTX,R1 SUABTFLE
KRD9
      LHR,R1 DCT1,R1
      STW,R2 SEEK
      LI,R3 X'F0000'
      STS,R2 SEEK1
      LI,R0 DA(DUMPCOM)
      LI,R2 500000
      BDR,R2 $
KRD1 BAL,R11 10
      NBP
      AI,R5 1023
      AND,R5 =X'FFFFFFC00'
      LI,R4 X'FFFF'
      XW,R4 R5
      STS,R4 TIO*STATUS+1
      LHR,R5 TIO*STATUS+1
      LC R3
      BCR,2 $*3
      CI,R5 X'800'
      BANZ UNEND
      LI,0 DA(REDWD)
      LW,R1 M;SWAPD
      BAL,R11 10
      B $*3
      B RCVSTART,R6
MPPSEEK DATA 0
      BOUND 8
TXCRVGST TEXTC IRVGH0ST!
MAPMAP IPSD MAP,(IA,MAPED+1),INH
UNMPD IPSD (IA,UNMPD1+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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23

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	6800008B			B	RCV41	B
475	01	0015B	00	A	SCODES	DATA,1	0,X161,X179,X17E	
	01	0015B	1 61	A				
	01	0015B	2 79	A				
	01	0015B	3 7E	A				
476			00000003		#CODES	EQU	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	E800000B	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	E800000B	A	B	*R11 TAKE ERROR RETURN
503					BOUND	8
504	01	00174	050005D8	TYCOMM	GEN,8,24	5,BA(TYMESS)
505	01	00175	00000008	A	GEN,8,24	0,8
506	01	00176	09C3C9D6	A	TEXT	;RCIO ERR,
	01	00177	40C5D9D9	A		

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	IBGX
511	01	0017A	F830000B	A	BEZ	*SR4	NO QUEUE CHAIN RETURN
512	01	0017B	70280000	X	ST0PI03 LC	IBQ3,R4	REQUEST BUSY
513	01	0017C	68800193		BCR,8	ST0PI02	NO
514	01	0017D	72280000	X	LB,R2	IBQ7,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	X'CO1	ROTATING DEVICE
524	01	00187	68100190		BGE	ST0PI01	YES HALT THE IO
525	01	00188	22202000	A	LI,R2	X'20001	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	IBQ2,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.
    
```

```

$
DCT5,R1
*SR4
$+2
INTSIM
DCT5,R1
DCT6,R1
10Q3,R2
M7
10Q3,R2
10Q4,R2
10Q5,R2
*SR4
    
```

```

DEVICE BUSY
NO. NOTHING TO RESTART
GO-SET DEVICE IN CLEANUP-PENDING STA
CLEAN UP DCT5 FOR RESTART
10QX
CLEAR THE BUSY BIT FROM 10Q3
SET FUNCTION CODE
RETURN
    
```

ADDRESS	OPERAND	HEX VALUE	UNEND	PAGE	OPERAND	OPERAND
559						
560	01 001A4	53100018		MTH,1	SEEK1	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	684001B2		BAZ	*+2	NO
573	01 001B1	20400400 A		AI,R4	X'400'	YES-RE-WRITE THE LAST SECTOR
574	01 001B2	6B340001 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	66340000 A		AWM,R3	0,R2	INC MEMORY ADDRESS BY AMOUNT WRITTE
581	01 001B9	2200000F		LI,R0	DA(COMMPACK)	
582	01 001BA	68000134		B	KRD1	

```

583
584
585
586
587      01 001aB
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
596
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,
          *S* 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'

30

CONTROL SECTION SUMMARY: 01 001DB PT 0

* SYMBOL VALUES

ANSPRBC/00000000
 CSEI\$PATH\$REC0V/00000002
 DCT\$SHIFT\$AMT/00000010
 DUMPCOM/01 0001A
 D3/0000000E
 I0/01 0015C
 I04/01 0016F
 KRD3/01 000EB
 KRD61/01 0010F
 MAPED/01 000A8
 MPBRANCH/01 00049
 PDF0FF/01 00116
 R\$STDCTX/00000000
 RCV42/01 00159
 RESTRT/01 0005F
 R10/0000000A
 R14/0000000E
 R4/00000004
 R8/00000008
 SCR61E/01 001C2
 SEEK1/01 00018
 SR4/0000000B
 ST0PI03/01 0017B
 T10\$STATUS/01 00012
 UFLAGS/00000000
 UNMPSD/01 0014A
 #CODES/00000003

BITS/00000000
 DUMPRTN/01 00104
 D4/0000000F
 I01/01 0015E
 KRD1/01 00134
 KRD4/01 000C9
 KRD7/01 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
 TXCRVGS/01 00146
 UNEND/01 001A4
 UNMPSD1/01 001CB

BLOCK1/01 00048
 DCBPRBC/00000000
 DISCBPRBC/00000001
 D1/0000000C
 GETN/01 00060
 I02/01 0015D
 KRD10/01 0012D
 KRD5/01 000A4
 KRD8/01 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

COMMPACK/01 0001E
 DCT\$FLD/LIST
 DUMP/01 000B2
 D2/0000000D
 GTN/01 00065
 I03/01 0016A
 KRD2/01 00127
 KRD6/01 00108
 KRD9/01 0012B
 MPBITS/00000000
 N0PUT/01 001D8
 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

* EXTERNAL DEFINITIONS

AB0RT/01 001C4
 INITRCVR/01 00000
 PPSTART/01 001D9
 RCVRDSZ/01 00009
 RESTRT10/01 00196
 SEEK4000/01 00016
 SUACUN/01 00047
 TRAPPSD/01 00002

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

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

DUMPFLE/01 00152
 0CNDD/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:CUN
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:GJOBST
24BM15

* SECONDARY REFERENCES

CO:INTFL	CO:FLAG
SLVWAIT	SYSTR

NSCPU
T:SIDLER

SISTOUT

SB:RCVA

SB:RCVR

SB:STATE

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