

ASSIGN MICI, (FILE, CLOCK4, !DooCI)

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, S

•END

BA					
C:CTUN	377/LI				
	56/REF	106/LCW	117/LW	119/STW	319/LW
C:MSM	192/REF	322/STW			
C:TIC					
	35/REF	112/AWM	321/AW		
C:TINC	192/REF	234/LW	320/SW		
CK:SCREECH1					
	104/BEZ	162-EQU			
CK:SCREFCH2					
	102/BLZ	170-EQU			
CK:SCREECH3					
	157/BEZ	172-EQU			
CKZER8					
	110/BEZ	132-EQU			
CK0					
	102-RES	122/BLEZ			
CK1					
	106-LCW	116/BNEZ			
CK2					
	112/BGE	114-LW			
CK23					
	212/LI	215-EQU			
CK25					
	217/LI	220-EQU			
CK26					
	231/LI	234-EQU			
CK28					
	227/BNEZ	262/BEZ	266-EQU		
CK29					
	277/BGEZ	285-RES			
CK3					
	136/BAZ	142-STD			
CK30					

CK4	268/BGZ	292=EGU			
CK5	141/B	148=LW			
CK6	160/BEZ	163=STW			
CK7	180/BAZ	162/B	164=LW		
CLK2	111=CW	166/B			
CLK3	302/BNE	306/BNE	314/BNE	360=AI	
CLK3PSD	311/BNE	313=CI			
CLK4	51/REF	96/LD			
CLK5	340/BNE	342=CW			
CLK6	343/BLE	351/BNE	356=AI		
CLOCK1	348/BNE	350=CI			
CLOCKISZ	5/DEF	7=EGU	446/EGU		
CLOCKTMP	446=EGU				
CLOCK4	54/REF	132/STD	140/LD	142/STD	147/LD
CSED\$RTRY\$CNT	1/DEF	2=EGU			
CTRIQ	52/REF	195/STW			
DATE	50/REF	242/BAL			
DATE\$TIME	38/REF	329/INT	354/MTW	358/STW	
	273/BAL	297=EGU			

E:SYMD				
E:WU	428/REF	434/LI		
ERRLOG	36/REF	419/LI		
ERRLOGS	192/REF	366/BAL		
HSAKTIM	192/REF	192/BAL		
HALFSEC	216/SREF	212/LI		
ICBBLNK	32/DEF	441-EQU		
ICBCLK	81-EQU	152/LI		
ICBLNK	78-EQU	107/AWM	109/LW	165/STW
ICBSTAT	79-EQU	114/LW	152/LI	
ICBSYSEP	80-EQU	134/LW	148/LW	
ICBTUN	82-EQU	137/LW		
ICBUN	83-EQU	164/LW		
INCSTL	77-EQU			
IOCLINC	206/REF	210/BAL		
IOCLOCK	42/REF	226/MTW	241/STW	
KA	49/REF	239/MTW		
KF	64-EQU	332/MI		
KFO	65-EQU	332/LI		

KFOFO	66-EQU	322/LI			
KFOF1	72-EQU	302/LI			
KFOOO	73-EQU	345/LI			
KF1	71-EQU	354/AI	360/AI		
KF6	67-EQU	353/LI			
KF6FO	68-EQU	304/AI	312/AI	341/AI	349/AI
K1	74-EQU	305/CI			
K1F3	63-EQU	300/AI	309/AI	338/AI	346/AI
K2F4	69-EQU	350/CI			
MNTB1	70-EQU	313/CI			
M16	336/LH	443=DATA			
M17	39/REF	337/AND			
NFWQ	57/REF	115/AND	151/LW	155/AND	
N0TH0UR	52/REF	386/BAL			
0CDCT	362/BNE	367-EQU			
PFRQ	378/LI	379/REF			
PH:FRQ	274=SET	275/DB	287/FIN		
PPR0CS	281/LH	283/STH	286/REF		
	280/LI	284/REF			

R:SYMD			
RBSS	429/REF	435/LI	
RPWPCLK	230/SREF	232/LI	
	60/SREF	212/LI	
RTICBCLKHDR			
	55/REF	103/LW	163/STW
S:EVF			
	46/REF	402/LW	413/CW
S:MBSF			
	44/REF	262/XW	
S:PFNI			
	276/MTW	279/STW	286/REF
S:SEVF			
	47/REF	194/MTW	
S:STLC			
	206/REF	202/LW	
SB:HQ			
	36/REF	397/LB	410/LB
SB:RQ			
	430/REF	436/LB	
SGB			
	427/REF	432/MTW	
SL:PFNI			
	272/LW	284/REF	
STAT0			
	84-EQU	149/CW	
STATSY			
	85-EQU	135/CW	
SW			
	36/REF	394/LI	409/LI
T:BTSCHEP			
	259/REF	264/BAL	
T:COCHC			
	40/REF	203/BAL	
T:RUE			

T:SAVE	37/REF	420/BAL	438/B		
T:SSFC	34/REF	97/BAL			
T:SYSTEMLOAD	41/REF	131/B			
T:WAKEUP	42/REF	290/BAL			
TEMP	191/BAL	392-EQU			
TIME	53/REF	376/STD	377/LI		
TINC	38/REF	299/INT	369/STW		
TSTACK	38/REF	120/AWM			
UIMISC	95/PSM				
UBIFL	37/REF	399/MTW	400/CW	416/LW	
UINTQ	36/REF	403/LB	415/LB		
WAKE15	59/SREF	145/BAL			
WAKE20	399-MTW	404/BNE			
WAKE22	408-LW	414/BNE			
WAKE25	412-DISABLE	424/BNE			
WAKE26	418/BANZ	423-LW			
YFA	407/BDR	411/BEZ	425-RFS		
Y004	39/REF	301/CB	310/CB	339/CB	347/CB
	57/REF	85/EQU			

Y04	43/REF	242/LW	
Y1	57/REF	84/EQU	
1MIN	45/REF	267/MTW	271/STW
1SEC	87-EQU	105/LI	237/AI
1SEC:EP	6/DEF	175-EQU	

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2 01 00000
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7 01 00000
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19 00000002
20 00000003
21 00000004
22 0000000C
23 0000000U
24 0000000F
25

CLOCK4 DEF
EQU
* 704754
SYSTEM
DEF
DEF
CLOCKI EQU

CLOCK4
*
SIGMA 5/7 BPM MICLOCKI
UTS
CLOCKI
1SECIER
*

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*
R2
R3
R4
D1
D2
D4
*

FOLLOWING FUNCTIONS:

1. UPDATE TIME AND DATE
2. DECREMENT MRT EVERY MINUTE
3. INCREMENT CEXT EVERY 1/100 MINUTE.

CLOCK RESOLUTION = 4 KILOCYCLES

PROGRAMMERS = D. HEYING, P. HEINRICH

SYMBOLIC REGISTER DEFINITIONS.

2
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FQU
FQU
FQU
FQU
FQU
FQU

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PAGE

DEFS AND REFS FOR OBJECT MODULE.

DEFS.

DEF

HALFSEC

REF

T:SAVE

REF

C:TIC

REF

E:WU,SW,SB;HQ,UB;FL

REF

T:RUE,U:MISC

REF

T:INC,TIME,DATE

REF

YFA,M16

REF

T:CBCHC

REF

T:SSEC

REF

T:SYSTEMLOAD

REF

Y04

REF

S:MBSF

REF

1MIN

REF

S:EVF

REF

S:SEVF

REF

I0CLINC

REF

I0CLOCK

REF

CTRIG

REF

CLK3PSD

REF

NEWQ

REF

TEMPT

REF

CLOCKTMP

REF

RTICBCLKHDR

REF

C:CTUN

REF

M17,Y1,Y004

REF

CSED,RTRY,CNT

SREF

UINTQ

SREF

RPWPCLK

ENTRY POINT FOR DELAYED RPWP

			PAGE		
61					
62		*			IMMEDIATE CONSTANTS USED BY MONITOR.
63	00000001	K1	FGU	1	
64	0000000A	KA	FGU	10	
65	0000000F	KF	FGU	15	
66	000000F0	KF0	FGU	X'F0'	
67	000000F1	KF1	FGU	X'F1'	
68	000000F6	KF6	FGU	X'F6'	
69	000001F3	K1F3	FGU	X'1F3'	
70	000002F4	K2F4	FGU	X'2F4'	
71	0000F000	KF000	FGU	X'F000'	
72	0000F0F0	KF0F0	FGU	X'F0F0'	
73	0000F0F1	KF0F1	FGU	X'F0F1'	
74	0000F6F0	KF6F0	FGU	X'F6F0'	
75		*			
76		*			ICB TABLE DEFINITIONS USED
77	0000001C	ICBUN	FGU	28	BYTE DISPLACEMENT
78	00000002	ICBCLK	FGU	2	WORD DISPLACEMENT
79	00000000	ICBLNK	FGU	0	WORD DISPLACEMENT
80	00000000	ICBSTAT	FGU	0	WORD DISPLACEMENT
81	00000004	ICBBLNK	FGU	4	WORD DISPLACEMENT
82	00000003	ICBSYSEP	FGU	3	WORD DISPLACEMENT
83	00000001	ICBTUN	FGU	1	WORD DISPLACEMENT
84	EXT	STAT0	FGU	Y1	'ONESHOT' BIT MASK
85	EXT	STATSY	FGU	Y004	
86		*			
87	00000258	1SEC	FGU	600	MAX. TIMER UNITS (IE., 1.2 SEC.)
88		*			

89					PAGE	
90				*		
91				*		
92				*		AT THIS POINT WE ARE USING REG BLOCK 0
93				*		AND ARE UNMAPPED.
94				*		
95	01	00000	05D00000 X		PSM,13	TSTACK
96	01	00001	12000000 X		LD,0	CLK3PSD
97	01	00002	6A200000 X		BAL,2	T:SAVE
98				*		CC SET TO 6 BY INT PSD
99	01	00003	22E00080 A		LI,14	X:80'
100	01	00004	6DE01300 A		WD,14	X:1300'
101				*		
102	01	00005		CK0	RES	0
103	01	00005	32200000 X		LW,2	RTICBCLKHDR
104	01	00006	6830003B		BEZ	CK:SCREECH1
105	01	00007	22300258 A		LI,3	1SEC
106	01	00008	3AA00000 X	CK1	LCW,10	C:CTUN
107	01	00009	66A40002 A		AWM,10	ICBCLK,2
108	01	0000A	6910003D		BLZ	CK:SCREECH2
109	01	0000B	32840002 A		LW,8	ICBCLK,2
110	01	0000C	6830001B		BEZ	CKZERO
111	01	0000D	31800003 A	CK7	CW,8	3
112	01	0000E	68100010		BGE	CK2
113	01	0000F	32300008 A		LW,3	8
114	01	00010	32240000 A	CK2	LW,2	ICBLNK,2
115	01	00011	48200000 X		AND,2	M17
116	01	00012	69300008		BNEZ	CK1
117	01	00013	32800000 X		LW,8	C:CTUN
118	01	00014	66800000 X		AWM,8	C:TIC
119	01	00015	35300000 X		STW,3	C:CTUN
120	01	00016	66300000 X		AWM,3	TINC
121				*		
122				*		
123				*		IF COUNTER REACHED 0 WHILE SYSTEM WAS IN DISABLED
124				*		CODE, THE COUNTER WILL GO NEGATIVE; WE KEEP ADDING
125				*		THE NEW C:CTUN VALUE AND GOING THROUGH CLOCK CODE
				*		UNTIL THERE IS A POSITIVE # OF CLOCK PULSES TO GO

H01 17:51 SEP 08, 1975

12

126
127
128 01 00017 68200005
129 01 00018 22D00080 A
130 01 00019 60D01400 A
131 01 0001A 68000000 X

*
*

BEFORE THE NEXT CLOCK INTERRUPT.

BLEZ CKO
LI,13 X:80'
WD,13 X:1400' ENABLE CLOCKS
B T:SSC

132					PAGE		
133		01 0001B		CKZERO	EGU	*	ICBCLK=0 PROCESSING ROUTINE
134	01	0001B	32840000 A		LW,8	ICBSTAT,2	
135	01	0001C	31800000 X		CW,8	STATSY	IS THIS A SYSTEM ICB
136	01	0001D	68400023		BAZ	CK3	NO
137	01	0001E	32C40003 A		LW,12	ICBSYSEP,2	PICK UP SYSTEM ENTRY POINT
138	01	0001F	15200000 X		STD,2	CLOCKTMP	SAVE CRITICAL REGS (2 & 3)
139	01	00020	EAB0000C A		BAL,11	*12	EXECUTE SYSTEM CODE
140	01	00021	12200000 X		LD,2	CLOCKTMP	RESTORE CRITICAL REGS (2 & 3)
141	01	00022	68000028		B	CK4	THAT'S ALL FOR A SYSTEM ICB
142	01	00023	15200000 X	CK3	STD,2	CLOCKTMP	SAVE CRITICAL REGS (2 & 3)
143	01	00024	32100002 A		LW,1	2	PASS ICB ADR. TO UINIQ
144	01	00025	6D000037 A		DISABLE		*****
145	01	00026	6AB00000 X		BAL,11	UINIQ	REPORT EVENT & BUILD De-LIST ENTRY
146					*		RETURN 'ENABLED'
147	01	00027	12200000 X		LD,2	CLOCKTMP	RESTORE CRITICAL REGS (2 & 3)
148	01	00028	32740000 A	CK4	LW,7	ICBSTAT,2	PICK UP ICBSTAT
149	01	00029	31700000 X		CW,7	STAT0	ONESHOT BIT SET
150	01	0002A	68400038		BAZ	CK6	NO
151	01	0002B	32500000 X		LW,5	M17	
152	01	0002C	22600000 A		LI,6	ICBLNK	
153	01	0002D	22700004 A		LI,7	ICBBLNK	
154	01	0002E	B24C0002 A		LW,4	*2,6	PICK UP FORWARD LINK IN CURRENT ICB
155	01	0002F	4B400000 X		AND,4	M17	MASK ADR. FIELD
156	01	00030	B28E0002 A		LW,8	*2,7	PICK UP BACK LINK IN CURRENT ICB
157	01	00031	6830003F		BEZ	CK1SCREECH3	IMPOSSIBLE SITUATION
158	01	00032	C74C0008 A		STS,4	*8,6	NEW FORWARD LINK FOR THIS GUY
159	01	00033	32400004 A		LW,4	4	IS THERE A FORWARD LINK
160	01	00034	68300037		BEZ	CK5	NO: MUST BE LAST GUY IN THE CHAIN
161	01	00035	B58E0004 A		STW,8	*4,7	NEW BACK=LINK FOR THIS GUY
162	01	00036	68000038		B	CK6	
163	01	00037	35800001 N	CK5	STW,8	RTICBCLKHDR+1	NEW CHAIN TAIL
164	01	00038	32840001 A	CK6	LW,8	ICBTUN,2	PICK UP INITIALIZATION VALUE
165	01	00039	35840002 A		STW,8	ICBCLK,2	RESET CLOCK IN ICB
166	01	0003A	6800000D		B	CK7	

H01 17:51 SEP 08, 1975

14

167
 168 01 0003B 0F000000 X
 169 01 0003C 00430001 A
 170 01 0003D 0F000000 X
 171 01 0003E 00430002 A
 172 01 0003F 0F000000 X
 173 01 00040 00430003 A

PAGE
 CK:SCREECH1 EQU \$
 SCREECH X1431,1
 CK:SCREECH2 EQU \$
 SCREECH X1431,2
 CK:SCREECH3 EQU \$
 SCREECH X1431,3

NO ACTIVE ICB'S

ICBCLK WENT NEGATIVE

TRYING TO FREE ICBSYS1 (CLOCK3)

174				PAGE	
175	01	00041		1SEC:EP	9
176					
177					
178					
179					
180					
181					
182					
183					
184					
185					
186					
187					
188					
189	01	00041	09B00000 N	PUSH	11
190					
191	01	00042	6A1000C0	BAL,1	T:WAKEUP
192				REF	ERRLOG5,C:MSM,C:ITINC,ERRLOG
193	01	00043	6A500000 X	BAL,5	ERRLOG5
194	01	00044	22500003 A	LI,5	3
195	01	00045	35500000 X	STW,5	CSED,RTRY,CNT
196	01	00046	33100000 X	MTW,+1	S:SEVF
197					
198					
199					
200					
201					
202					
203	01	00047	6A800000 X	BAL,8	T:CBCHC
204					
205					
206					
207	01	00048	60000037 A	REF	S:STLC,INCSTL
208	01	00049	32300000 X	DISABLE	
209	01	0004A	6910004C	LW,3	S:STLC
210	01	0004B	6AB00000 X	BLZ	*+2
				BAL,11	INCSTL

THIS IS THE EFFECTIVE ADDRESS OF THE ICBSYSEP FIELD OF THE SYSTEM ICB ASSOCIATED WITH CLOCK3 (COUNTER EQUALS ZERO) PROCESSING. THIS ROUTINE IS ENTERED EVERY 1.2 SECONDS ON A 'BAL,11'. THE CRITICAL REGISTERS HAVE BEEN PRESERVED BY THE CALLING ROUTINE. ALL THAT NEED BE PRESERVED IS THE RETURN ADR. IN 11.

WAKE ITEM UP
 FLUSH THE ERRLOG BUFFERS
 CAUSES 3 RETRIES
 ...OF HARDWARE FAULTS
 PERMIT SWAP SCHEDULE IF PREVIOUS FAILURE

GO TO CBC TO CHECK FOR LINES THAT SHOULD BE INITIALIZED OR THAT SHOULD BE TIMED BUT ASSUME THAT T:CBCHC DESTROYS ALL REGISTERS

THIS CODE SMOOTHS PAGE STEALER PEAKS

H01 17:51 SEP 08, 175

211 01 0004C 60000027 A
 212 01 0004D 22800050
 213 01 0004E 22800000 N
 214 01 0004F E9300008 A
 215 01 00050
 216
 217 01 00050 22800053
 218 01 00051 22800000 N
 219 01 00052 E9300008 A
 220 01 00053
 221
 222
 223
 224
 225
 226 01 00053 33F00000 X
 227 01 00054 69300064
 228
 229
 230
 231 01 00055 22E00058
 232 01 00056 22800000 N
 233 01 00057 E9300008 A
 234 01 00058
 235
 236 01 00058 32800000 X
 237 01 00059 20800258 A
 238 01 0005A 6910005C
 239 01 0005B 33100000 X
 240 01 0005C 22E00004 A
 241 01 0005D 35E00000 X
 242 01 0005E 32800000 X
 243 01 0005F 6AB00000 X
 244
 245
 246
 247

FNABLE
 LI,11 CK23
 LI,8 RPWPCLK
 BNEZ *8
 CK23 EQU *
 SREF H\$AKTIM
 LI,11 CK25
 LI,8 H\$AKTIM
 BNEZ *8
 CK25 EQU *
 *
 * I/O TIME-OUT CLOCK ROUTINE
 *
 * CELL 'I/O CLOCK' IS INCREMENTED EVERY 4.8 SECS.
 *
 * MTW,-1 I\$CLINC DEC PULSE COUNTER
 BNEZ CK28 NOT 4.8 SECS YET
 *
 * KEEP REMOTE BATCH SYMBIANTS BUSY
 SREF RBSS
 LI,14 CK26
 LI,8 RBSS
 BNEZ *8
 CK26 EQU *
 *
 * LW,11 C:INC CHECK FOR CATCH UP MODE
 AI,11 1SEC ARE WE MUCH BEHIND
 BLZ *+2 YES SKIP I/O TIME CLCK
 MTW,1 I\$CLCK INC I/O TIME-OUT CLCK
 LI,14 4
 STW,14 I\$CLINC RESET PULSE COUNTER
 LW,8 Y04
 BAL,11 CTRIG
 *
 *
 *
 * TIBTSCHED MOVED TO MODULE C88P.

SET RETURN IF RPWPCLK CALLED
 DETERMINE IF IT EXISTS
 IF SO, GO THERE
 TIMING DELAY ON IDLE
 HASP LINES - CALL IT
 .7 SECONDS AVERAGE
 ALL REGS ARE ZAPPED

RETURN ADDRESS
 RBSS WONT BE DEFFED IF
 SYSTEM ISNT REMOTE BATCH

H01 17:51 SEP 08, 1975

18

285 01 00072
 286
 287
 288
 289
 290 01 00072 6AB00000 X
 291
 292 01 00073
 293 01 00073 08B00000 N
 294 01 00074 E800000B A

CK29
 *
 *
 *
 CK30

RES 0
 REF SL:PFNI,S:PFNI,PPR0CS,PH:FRQ
 FIN PFRQ
 BAL,11 T:SYSTEMLOAD
 FQU *
 PULL 11
 B *11

RETURN TO ICB-PROCESSING ROUTING

			PAGE	
295				
296				
297		C1 00075	DATESTIME EQU	*
298				* 1 MINUTE PASSED. UPDATE TIME AND DATE.
299	01	00075	65200000 X	INT,R2 TIME
300	01	00076	20300001 A	AI,R3 K1
301	01	00077	71300000 X	CB,R3 YFA
302	01	00078	693000A6	BNE CLK2
303				* INCREMENT MINUTES TO MULT. OF 10.
304	01	00079	203000F6 A	AI,R3 KF6
305	01	0007A	2130F6F0 A	CI,R3 KF6F0
306	01	0007B	693000A6	BNE CLK2
307				* HOUR EXPIRED, UPDATE
308	01	0007C	2230F0F0 A	LI,R3 KFOF0
309	01	0007D	20200001 A	AI,R2 K1
310	01	0007E	71200000 X	CB,R2 YFA
311	01	0007F	69300081	BNE CLK3
312	01	00080	202000F6 A	AI,R2 KF6
313	01	00081	212002F4 A	CLK3 CI,R2 K2F4
314	01	00082	693000A6	BNE CLK2
315				* AT END OF DAY RESET ERROR LOGGING TIME COUNTERS
316				*
317				*
318	01	00083	60000037 A	DISABLE
319	01	00084	32E00000 X	LW,14 C:CTUN
320	01	00085	38E00000 X	SW,14 C:TINC
321	01	00086	30E00000 X	AW,14 C:TIC
322	01	00087	3AE0000E A	LCW,14 14
323	01	00088	35E00000 X	STW,14 C:MSM
324	01	00089	60000027 A	ENABLE
325				*
326				*
327				*
328	01	0008A	222000F0 A	LI,R2 KFO
329	01	0008B	65C00000 X	INT,D1 DATE
330	01	0008C	32F0000C A	LW,D4 D1
331	01	0008D	25F00078 A	SLS,D4 =8

S01S ERRLOG GETS CORRECT NEW TIME

332	01	0008E	23F0000A	A		MI,D4	KA	
333	01	0008F	2240000F	A		LI,R4	KF	
334	01	00090	4B40000C	A		AND,R4	D1	
335	01	00091	3040000F	A		AW,R4	D4	
336	01	00092	52F800E6			LH,D4	MNTB1,R4	
337	01	00093	4BF00000	X		AND,D4	M16	
338	01	00094	20D00001	A		AI,D2	K1	
339	01	00095	71D00000	X		CB,D2	YFA	
340	01	00096	69300098			BNE	CLK4	
341	01	00097	20D000F6	A		AI,D2	KF6	
342	01	00098	31D0000F	A	CLK4	CW,D2	D4	
343	01	00099	682000A3			BLE	CLK5	
344					*		MONTH G0NF, UPDATE IT	
345	01	0009A	22D0F0F1	A		LI,D2	KF0F1	
346	01	0009B	20C00001	A		AI,D1	K1	
347	01	0009C	71C00000	X		CB,D1	YFA	
348	01	0009D	6930009F			BNE	CLK6	
349	01	0009E	20C000F6	A		AI,D1	KF6	
350	01	0009F	21C001F3	A	CLK6	CI,D1	K1F3	
351	01	000A0	693000A3			BNE	CLK5	
352					*		END OF YEAR, UPDATE	
353	01	000A1	22C000F1	A		LI,D1	KF1	
354	01	000A2	33100001	N		MTW,1	DATE+1	
355					*		PUT AWAY MONTH AND DAY	
356	01	000A3	20C0F000	A	CLK5	AI,D1	KF000	
357	01	000A4	55C0000D	A		STH,D1	D2	
358	01	000A5	35D00000	X		STW,D2	DATE	
359					*		PUT AWAY TIME.	
360	01	000A6	2020F000	A	CLK2	AI,R2	KF000	
361	01	000A7	2130F5F9	A		CI,3	159'	HOUR ABOUT TO TICK OVER
362	01	000A8	693000AD			BNE	N0TH0UR	N0
363	01	000A9	22D02303	A		LI,13	X12303'	0N THE HOUR
364	01	000AA	55D00003	A		STH,13	3	CREATE ERROR LOG MSG
365	01	000AB	22600003	A		LI,6	3	L0C 0F MSG
366	01	000AC	6A500000	X		BAL,5	ERRLOG	INJECT TIME STAMP INTO LOG
367		01	000AD		N0TH0UR	0QU	*	
368	01	000AD	55200003	A		STH,R2	R3	

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369 01 000AE 35300000 X
 370
 371 01 000AF 22200015 A
 372 01 000B0 25200110 A
 373 01 000B1 20301500 A
 374 01 000B2 25200008 A
 375 01 000B3 2020007A A
 376 01 000B4 15200000 X
 377 01 000B5 22000000 N
 378 01 000B6 22C00000 N
 379
 380 01 000B7 22E001FF A
 381 01 000B8 55E0000C A
 382 01 000B9 22E00007 A
 383 01 000BA 22F00000 A
 384 01 000BB 32500000 A
 385 01 000BC 22000000 A
 386 01 000BD 6AB00000 X
 387 01 000BE 02000000 A
 388 01 000BF E8000005 A

*

STW,R3 TIME
 OUTPUT TIME OF DAY ON BC EVERY MINUTE
 LI,2 X'15'
 SLD,2 16
 AI,3 X'1500'
 SLS,2 8
 AI,2 C'1'
 STD,2 TEMPT
 LI,13 BA(TEMPT)
 LI,D1 0CDCT DCT INDEX FOR BC
 REF 0CDCT
 LI,14 X'1FF'
 STH,14 12
 LI,14 7 BYTE COUNT
 LI,15 0
 LW,5 0 LINK REGISTERS
 LI,0 0 NO END ACTION
 BAL,11 NEWQ
 NOP
 B *5

```

389
390
391
392
393      01 000C0
394 01 000C0 22700000 N
395 01 000C1 2267FFFF A
396 01 000C2 60000037 A
397 01 000C3 725E0000 X
398 01 000C4 68320000 A
399 01 000C5 33FA0000 X
400 01 000C6 316A0000 X
401 01 000C7 694000C9
402 01 000C8 22700000 A
403 01 000C9 725A0000 X
404 01 000CA 693000C5
405 01 000CB 60000027 A
406 01 000CC 09100000 N
407 01 000CD 647000DE
408 01 000CE 32D00000 X
409 01 000CF 22700000 N
410 01 000D0 725E0000 X
411 01 000D1 683000DE
412 01 000D2 60000037 A
413 01 000D3 31D00000 X
414 01 000D4 693000CE
415 01 000D5 727A0000 X
416 01 000D6 321A0000 X
417 01 000D7 2117FFFF A
418 01 000D8 694000DC
419 01 000D9 22600000 N
420 01 000DA 6AB00000 X
421
422 01 000DB 20D00002 A
423 01 000DC 32500007 A
424 01 000DD 693000D2
425 01 000DE
    
```

```

PAGE
* THIS ROUTINE IS INVOKED BY THE CLOCK3 ROUTINE, SO CLOCK IS
* DISABLED I.E. THE CODE IS NON-REENTRANT
*
T;WAKEUP EQU *
LI,7 SW SLEEP STATE NUMBER
LI,6 X'7FFFF' (MASK FOR CHECKING SLEEP=DONE)
DISABLEF ***** INHIBIT *****
LB,5 SB;HQ,7 GET HEAD OF SLEEP Q AGAIN
BEZ 0,1 THEY ALL DISAPPEARED
WAKE15 MTW,-1 U:MISC,5 DECREMENT SLEEP INTERVAL REMAINING
CW,6 U:MISC,5 IS INTERVAL USED UP...
BANZ $+2 ***> NB.
LI,7 0 CLEAR FLAG
LB,5 UB;FL,5 FLINK FORWARD
BNE WAKE15 AND CONTINUE
ENABLE ***** UNINHIBIT *****
PUSH 1 SAVE RETURN REGISTER
BDR,7 WAKE26 TEST REPORT NEED FLAG
WAKE20 LW,13 SIEVF GET EVENT FLAG
LI,7 SW SLEEP STATE NUMBER
LB,5 SB;HQ,7 GET HEAD OF SLEEP Q
BEZ WAKE26 NONE LEFT
WAKE22 DISABLEF ***** INHIBIT *****
CW,13 SIEVF CHECK FOR ANY STATE Q ACTIVITY
BNE WAKE20 YES RECYCLE
LB,7 UB;FL,5 SAVE FLINK TO NEXT USER
LW,1 U:MISC,5 TEST CLOCK FOR RUNOUT
CI,1 X'7FFFF' CHECK FOR NON-ZERO
BANZ WAKE25 NOT YET
LI,6 E;WU WAKEUP EVENT CODE
BAL,11 T;RUE REPORT WAKEUP TO SCHEDULER
***** UNINHIBIT *****
*
AI,13 2 BUMP EVENT COUNTER BY 2 IF REPORT
WAKE25 LW,5 7 GET FLINK
BNE WAKE22 AND CONTINUE IF ANY LEFT
WAKE26 RES 0
    
```

```

426
427
428
429
430
431 01 000DE 08800000 N
432 01 000DF 33000000 X
433 01 000E0 E830000B A
434 01 000E1 22600000 N
435 01 000E2 22500000 N
436 01 000E3 725A0000 X
437 01 000E4 E830000B A
438 01 000E5 68000000 X
    
```

*

```

REF SGB
REF E;SYMD
REF R;SYMD
REF SB;RQ
PULL 11
MTW,0 SGB
BEZ *11
LI,6 E;SYMD
LI,5 R;SYMD
LB,5 SB;RQ,5
BEZ *11
B T;RUE
    
```

```

CHECK FOR SYMBIANT GRANS AVAIL
NO
SYMBIANT DISC AVAIL EVENT
RESOURCE INDEX
GET HEAD OF SUB-QUEUE
NONE
WADE INTO T;RUE
    
```


439					PAGE	
440						
441		0000000A		* HALFSEC	FGU	10
442				* MNTB1	DATA,2	0,131,128,131,130,131,130,131,131,130,131
443	01	000E6	0000	A		
	01	000E6	2 F3F1	A		
	01	000E7	F2F8	A		
	01	000E7	2 F3F1	A		
	01	000E8	F3F0	A		
	01	000E8	2 F3F1	A		
	01	000E9	F3F0	A		
	01	000E9	2 F3F1	A		
	01	000EA	F3F1	A		
	01	000EA	2 F3F0	A		
	01	000EB	F3F1	A		
444	01	000EB	2 F3F0	A	DATA,2	130,131
	01	000EC	F3F1	A		
445					BOUND	4
446		000000ED		CLOCKISZ	FGU	*-CLOCKI
447					END	

CONTROL SECTION SUMMARY: 01 000ED PT 0

* SYMBOL VALUES
 ANSPR0C/00000000
 CK1SCREECH2/01 0003D
 CKZFR0/01 0001B
 CK23/01 00050
 CK29/01 00072
 CK5/01 00037
 CLK3/01 00081
 CL0CKISZ/000000ED
 D1/0000000C
 ICBCLK/00000002
 ICBTUN/00000001
 KFO/000000F0
 KF1/000000F1
 K1F3/000001F3
 MPBITS/00000000
 R3/00000003
 S69PR0C/00000001
 WAKE15/01 000C5
 WAKE26/01 000DE

BITS/00000000
 CK0/01 00005
 CK25/01 00053
 CK3/01 00023
 CK6/01 0003R
 CLK4/01 00098
 DATESTIME/01 00075
 D2/0000000D
 ICBLNK/00000000
 ICBUN/0000001C
 KFOF0/0000F0F0
 KF6/000000F6
 K2F4/000002F4
 N0TH0UR/01 000AD
 R4/00000004
 T:WAKEUP/01 000C0
 WAKE20/01 000CE
 1SEC/00000258

CK1SCREECH1/01 0003B
 CK1SCREECH3/01 0003F
 CK1/01 0000R
 CK26/01 00058
 CK30/01 00073
 CK7/01 0000D
 CLK5/01 000A3
 DCBPR0C/00000000
 D4/0000000F
 ICBSTAT/00000000
 KA/0000000A
 KFOF1/0000F0F1
 KF6F0/0000F6F0
 MNTB1/01 000E6
 PFRQ/00000001
 STAT0/EXT
 UFLAGS/00000000
 WAKE22/01 000D2

CK2/01 00010
 CK28/01 00064
 CK4/01 00028
 CLK2/01 000A6
 CLK6/01 0009F
 DISCBPR0C/00000000
 ICBBLNK/00000004
 ICBSYSEP/00000003
 KF/0000000F
 KFO00/0000F000
 K1/00000001
 M0NPR0C/00000000
 R2/00000002
 STATSY/EXT
 UTSPR0C/00000001
 WAKE25/01 000DC

* EXTERNAL DEFINITIONS

CL0CK1/01 00000

CL0CK4/01 00000

HALFSEC/0000000A

1SEC:EP/01 00041

* PRIMARY REFERENCES

CICTUN C:MSM
 CSED0RTRY0CNT
 ERRLOG5 INC0TL
 0CDCT PH:FRQ
 SIMBSF S:PFNI
 SLIPFNI SW
 TISYSTEMLOAD
 UBIFL YFA

CITIC
 CTRIG
 I0CLINC
 PPR0CS
 S:SEVF
 T:BTSCHEC
 TEMPT
 Y004

CITINC
 DATE
 I0CL0CK
 R:SYMD
 S:STLC
 T:CBCHC
 TIME
 Y04

CLK3PSD
 E:SYMD
 M16
 RCVPSD
 SB:HQ
 T:RUE
 TINC
 Y1

CL0CKTMP
 E:WU
 M17
 RTICBCLKHDR
 SB:RQ
 T:SAVE
 TSTACK
 1MIN
 ERRLOG
 NEWQ
 SIEVF
 SGB
 T:SSC
 U:MISC

* SECONDARY REFERENCES

H0AKTIM KBSS

RPWPCLK

UINTQ

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