

11110 SEP 08, 1975 ID=00C7  
JOB :POST, BRU333323132, 7 • TERMINAL JOB  
LIMIT (CORE, 16), (TIME, 20)  
ASSIGN MICI, (FILE, LITERALS, IDOOCI)  
METASYM CI, L0

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1

L I T E R A L S • M O N I T O R C O N S T A N T S  
P C C 0

1

L I T E R A L S - M O N I T O R C O N S T A N T S 2

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*P*****
*M*          L I T E R A L S - M O N I T O R C O N S T A N T P O O L
*P*          N A M E : L I T E R A L S
*P*          P U R P O S E : T H I S M O D U L E C O N T A I N S T H E P O O L O F F I X E D C O N S T A N T S
*P*          F O R T H E C P - V M O N I T O R .
*P*          D E S C R I P T I O N : T H I S M O D U L E I S L O A D E D A S T H E F I R S T M O D U L E
*P*          O F T H E M O N I T O R R O O T I N O R D E R T O B E L O C A T E D I N
*P*          V I R T U A L P A G E X ' 0 0 ' A N D H E N C E V I S I B L E T O U S E R S
*P*          O F N O R M A L P R I V I L E G E L E V E L . S O M E U S E F U L V A R I A B L E S
*P*          D A T A S U C H A S T I M E , D A T E E T C . H A V E A L S O B E E N I N C L U D E D
*P*          I N T H I S M O D U L E F O R T H E S A M E R E A S O N .
*P*****
*P*
*P*          N A M I N G C O N V E N T I O N F O R C O N S T A N T S
*P*          -----
*P*
*P*          M A S K S : R I G H T J U S T I F I E D M A S K S A R E N A M E D B Y T H E W I D T H
*P*          O F T H E M A S K ( D E C I M A L ) P R E F I X E D W I T H A N ' M ' .
*P*          F O R E X A M P L E , A 6 B I T M A S K W O U L D B E C A L L E D M 6 .
*P*          M A S K S W H I C H A R E N O T R I G H T J U S T I F I E D A R E G E N E R A L L Y
*P*          N A M E D F O R T H E I R H E X A D E C I M A L V A L U E A S D E S C R I B E D F O R
*P*          X A N D Y V A L U E S .
*P*          C O N S T A N T S : R I G H T J U S T I F I E D C O N S T A N T S A R E N A M E D B Y P R E F I X I N G
*P*          T H E H E X A D E C I M A L V A L U E W I T H A N ' X ' . F O R E X A M P L E ,
*P*          T H E C O N S T A N T X ' 1 0 ' W O U L D B E N A M E D X 1 0 , M U C H L I K E
*P*          T H E M E T A S Y M B O L C O N S T A N T W I T H O U T T H E Q U O T E S .
*P*          L E F T J U S T I F I E D C O N S T A N T S A R E N A M E D B Y P R E F I X I N G
*P*          T H E V A L U E W I T H A ' Y ' . T H E V A L U E F O L L O W I N G T H E ' Y '
*P*          I S L E F T A L I G N E D I N A W O R D F I L L E D W I T H T R A I L I N G Z E R O E S .
*P*          F O R E X A M P L E , T H E C O N S T A N T X ' 0 9 0 0 0 0 0 0 ' W O U L D B E
*P*          N A M E D Y 0 9 .
*P*****
L I T E R A L S E Q U          *

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L I T E R A L S - M O N I T O R C O N S T A N T S

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37  
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\* EXTERNAL DEFINITIONS  
\*\*\*\*\*

41	DEF	BLANK	CONSTANT X1404040401
42	DEF	BT31T80	ORDERED TABLE OF BITS
43	DEF	C:CTUN	CLOCK3 INTERVAL CURRENT
44	DEF	CIMSM	MILLISECONDS SINCE MIDNIGHT
45	DEF	CITIC	# OF 2MS TICS SINCE STARTUP
46	DEF	CITINC	# OF TICS REMAINING IN CLOCK3 INTERV
47	DEF	CORED	PHYSICAL CORE SIZE IN WORDS
48	DEF	DATE	DATE: IMMDD YY1
49	DEF	DOUBLEONE	DOUBLEWORD 1,1
50	DEF	DOUBLEZERO	DOUBLEWORD 0,0
51	DEF	FF3FFFFFF	CONSTANT X'FF3FFFFFF1
52	DEF	FIN	CONSTANT 1 FIN1
53	DEF	GRANCYL	COUNT OF CYLINDER ALLOCATED GRANS
54	DEF	GRANMIN	#GRAN BEFORE PURGE THRESHOLD
55	DEF	GRANPACK	COUNT OF PACK GRANULES
56	DEF	GRANRAD	COUNT OF RAD GRANULES
57	DEF	GRANRESET	#GRAN TO RELEASE BEFORE RESETTING GRA
58	DEF	GRANSYM	COUNT OF SYMBIONT GRANULES REMAINING
59	DEF	GRAVA1L	GRANULE AVAILABLE COUNTS
60	DEF	HEX	TEXT '0123456789ABCDEF1
61	DEF	LITERALS	MODULE NAME FOR PATCHING
62	DEF	MASKS	ORDERED TABLE OF MASKS
63	DEF	MINUS2	CONSTANT X'FFFFFFFE1 (-2)
64	DEF	MN9	CONSTANT X'0001FE001 PAGE MASK
65	DEF	M11	CONSTANT X'000007FF1
66	DEF	M13	CONSTANT X'00001FFF1
67	DEF	M15	CONSTANT X'0000EFFF1
68	DEF	M16	CONSTANT X'0000FFFF1
69	DEF	M17	CONSTANT X'0001FFFF1
70	DEF	M19	CONSTANT X'0007FFFF1
71	DEF	M2	CONSTANT X'000000031
72	DEF	M21	CONSTANT X'001FFFFFF1

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C O N S T A N T S

4

73	DEF	M22	CONSTANT X'003FFFFFF'
74	DEF	M23	CONSTANT X'007FFFFFF'
75	DEF	M24	CONSTANT X'00FFFFFF'
76	DEF	M3	CONSTANT X'00000007'
77	DEF	M31	CONSTANT X'7FFFFFFF'
78	DEF	M32	CONSTANT X'FFFFFFFF'
79	DEF	M4	CONSTANT X'0000000F'
80	DEF	M5	CONSTANT X'0000001F'
81	DEF	M6	CONSTANT X'0000003F'
82	DEF	M7	CONSTANT X'0000007F'
83	DEF	M8	CONSTANT X'000000FF'
84	DEF	M9	CONSTANT X'000001FF'
85	DEF	NB31T80	ORDERED TABLE OF INVERTED BITS
86	DEF	PURGEFLAG	PURGE-READY FLAG
87	DEF	SIC0UP	TERMINAL COUPLING FLAGS
88	DEF	SYSACCT	CONSTANT 'SYS '
89	DEF	SYSACT	DOUBLEWORD TEXT 'SYS '
90	DEF	TINC	SAME AS CITINC
91	DEF	TIME	TIME: 'HHMM'
92	DEF	TJOB	CONSTANT 'JOB' BANG=JOB
93	DEF	XA	CONSTANT X'0000000A'
94	DEF	XCF	CONSTANT X'000000CF'
95	DEF	XDFFF	CONSTANT X'FFFFFFDFFF'
96	DEF	XE7	CONSTANT X'000000E7'
97	DEF	XF	CONSTANT X'0000000F'
98	DEF	XFB	CONSTANT X'000000FB'
99	DEF	XFC	CONSTANT X'000000FC'
100	DEF	XFE	CONSTANT X'000000FE'
101	DEF	XFF	CONSTANT X'000000FF'
102	DEF	XFFEF	CONSTANT X'FFFFFFEF'
103	DEF	XFFF	CONSTANT X'00000FFF'
104	DEF	XFFFD	CONSTANT X'FFFFFFFD'
105	DEF	XFFFE00	CONSTANT X'00FFFE00'
106	DEF	XFFFF	CONSTANT X'0000FFFF'
107	DEF	XFFFF00	CONSTANT X'00FFFF00'
108	DEF	XFFF0	CONSTANT X'0000FFF0'
109	DEF	XFFF800	CONSTANT X'00FFF800'

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C O N S T A N T S

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110	DEF	XFF00	CONSTANT	X'0000FF00'
111	DEF	XF0	CONSTANT	X'000000F0'
112	DEF	XF1FFFFFFF	CONSTANT	X'F1FFFFFFF'
113	DEF	XF3FF	CONSTANT	X'FFFFFF3FF'
114	DEF	XF7FF	CONSTANT	X'FFFFFF7FF'
115	DEF	XN2	CONSTANT	X'FFFFFFFE'
116	DEF	X0	CONSTANT	X'00000000'
117	DEF	X1	CONSTANT	X'00000001'
118	DEF	X1FE00	CONSTANT	X'0001FE00'
119	DEF	X1FFFF	CONSTANT	X'0001FFFF'
120	DEF	X10	CONSTANT	X'00000010'
121	DEF	X100	CONSTANT	X'00000100'
122	DEF	X100FFFF	CONSTANT	X'1000FFFF'
123	DEF	X1000001	CONSTANT	X'01000001'
124	DEF	X2	CONSTANT	X'00000002'
125	DEF	X20	CONSTANT	X'00000020'
126	DEF	X3	CONSTANT	X'00000003'
127	DEF	X3FFE00	CONSTANT	X'003FFE00'
128	DEF	X4	CONSTANT	X'00000004'
129	DEF	X40	CONSTANT	X'00000040'
130	DEF	X400	CONSTANT	X'00000400'
131	DEF	X4000	CONSTANT	X'00004000'
132	DEF	X44	CONSTANT	X'00000044'
133	DEF	X500000D	CONSTANT	X'0500000D'
134	DEF	X7	CONSTANT	X'00000007'
135	DEF	X7F	CONSTANT	X'0000007F'
136	DEF	X7000	CONSTANT	X'00007000'
137	DEF	X8	CONSTANT	X'00000008'
138	DEF	X80	CONSTANT	X'00000080'
139	DEF	X8000	CONSTANT	X'00008000'
140	DEF	YA	CONSTANT	X'A0000000'
141	DEF	YBE	CONSTANT	X'BE000000'
142	DEF	YC	CONSTANT	X'C0000000'
143	DEF	YC1FF	CONSTANT	X'C1FF0000'
144	DEF	YE	CONSTANT	X'E0000000'
145	DEF	YF	CONSTANT	X'F0000000'
146	DEF	YFA	CONSTANT	X'FA000000'

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C O N S T A N T S

6

147	DEF	YFF	CONSTANT	X'FF000000'
148	DEF	YFFF	CONSTANT	X'FFF00000'
149	DEF	YFFFE	CONSTANT	X'FFFE0000'
150	DEF	YFFFF	CONSTANT	X'FFFF0000'
151	DEF	Y0A	CONSTANT	X'0A000000'
152	DEF	Y0C	CONSTANT	X'0C000000'
153	DEF	Y00FE	CONSTANT	X'00FE0000'
154	DEF	Y00FF	CONSTANT	X'00FF0000'
155	DEF	Y000A	CONSTANT	X'000A0000'
156	DEF	Y000C	CONSTANT	X'000C0000'
157	DEF	Y0001	CONSTANT	X'00010000'
158	DEF	Y0002	CONSTANT	X'00020000'
159	DEF	Y0003	CONSTANT	X'00030000'
160	DEF	Y0004	CONSTANT	X'00040000'
161	DEF	Y0008	CONSTANT	X'00080000'
162	DEF	Y001	CONSTANT	X'00100000'
163	DEF	Y002	CONSTANT	X'00200000'
164	DEF	Y003	CONSTANT	X'00300000'
165	DEF	Y003E	CONSTANT	X'003E0000'
166	DEF	Y0038	CONSTANT	X'00380000'
167	DEF	Y004	CONSTANT	X'00400000'
168	DEF	Y008	CONSTANT	X'00800000'
169	DEF	Y01	CONSTANT	X'01000000'
170	DEF	Y01FE	CONSTANT	X'01FE0000'
171	DEF	Y02	CONSTANT	X'02000000'
172	DEF	Y03	CONSTANT	X'03000000'
173	DEF	Y04	CONSTANT	X'04000000'
174	DEF	Y05	CONSTANT	X'05000000'
175	DEF	Y06	CONSTANT	X'06000000'
176	DEF	Y07	CONSTANT	X'07000000'
177	DEF	Y08	CONSTANT	X'08000000'
178	DEF	Y09	CONSTANT	X'09000000'
179	DEF	Y1	CONSTANT	X'10000000'
180	DEF	Y15	CONSTANT	X'15000000'
181	DEF	Y18	CONSTANT	X'18000000'
182	DEF	Y2	CONSTANT	X'20000000'
183	DEF	Y3	CONSTANT	X'30000000'

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C O N S T A N T S

7

184	DEF	Y4	CONSTANT X'40000000'
185	DEF	Y40	CONSTANT X'40000000'
186	DEF	Y6	CONSTANT X'60000000'
187	DEF	Y7D	CONSTANT X'7D000000'
188	DEF	Y7F	CONSTANT X'7F000000'
189	DEF	Y8	CONSTANT X'80000000'
190	DEF	Y82	CONSTANT X'82000000'
191	DEF	1MIN	1.2 SECOND TICS REMAINING IN MINUTE
193	DEF	24BM14	24 BIT =14
194	DEF	24BM15	24 BIT =15
195	DEF	24BM18	24 BIT =18
196	DEF	24BM2	24 BIT =2



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198  
199  
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L I T E R A L S - M O N I T O R C O N S T A N T S 8

\*\*\*\*\*  
\* FIXED CONSTANTS  
\*\*\*\*\*

202  
203 01 00000 00000000 A  
01 00001 00000000 A  
204 01 00000  
205 01 00002 00000001 A  
01 00003 00000001 A

BBUND 8  
XO DATA 0.0  
DOUBLEZERO EQU XO  
DOUBLEONE DATA 1.1

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207  
208  
209  
210  
211  
212

```

01 00003
00000020
01 00004 00000001 A
01 00005 00000002 A
01 00006 00000004 A
01 00007 00000008 A
01 00008 00000010 A
01 00009 00000020 A
01 0000A 00000040 A
01 0000B 00000080 A
01 0000C 00000100 A
01 0000D 00000200 A
01 0000E 00000400 A
01 0000F 00000800 A
01 00010 00001000 A
01 00011 00002000 A
01 00012 00004000 A
01 00013 00008000 A
01 00014 00010000 A
01 00015 00020000 A
01 00016 00040000 A
01 00017 00080000 A
01 00018 00100000 A
01 00019 00200000 A
01 0001A 00400000 A
01 0001B 00800000 A
01 0001C 01000000 A
01 0001D 02000000 A
01 0001E 04000000 A
01 0001F 08000000 A
01 00020 10000000 A
01 00021 20000000 A
01 00022 40000000 A
01 00023 80000000 A

```

L I T E R A L S = M O N I T O R C O N S T A N T S  
 \* ORDERED TABLE OF BITS

```

*****
BT31T80 EQU $=1
I DB 32
DATA 1** (I-1)
FIN

```

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```

214
215
216          01 00023
217          00000020
218 01 00024      FFFFFFFE A
219
01 00025      FFFFFFFD A
01 00026      FFFFFFFB A
01 00027      FFFFFFF7 A
01 00028      FFFFFFFE A
01 00029      FFFFFFFD A
01 0002A      FFFFFFFB A
01 0002B      FFFFFFF7 A
01 0002C      FFFFFFFE A
01 0002D      FFFFFFFD A
01 0002E      FFFFFFFB A
01 0002F      FFFFFFF7 A
01 00030      FFFFFFFE A
01 00031      FFFFFFFD A
01 00032      FFFFFFFB A
01 00033      FFFFFFF7 A
01 00034      FFFFFFFE A
01 00035      FFFFFFFD A
01 00036      FFFFFFFB A
01 00037      FFFFFFF7 A
01 00038      FFFFFFFE A
01 00039      FFFFFFFD A
01 0003A      FFFFFFFB A
01 0003B      FFFFFFF7 A
01 0003C      FFFFFFFE A
01 0003D      FFFFFFFD A
01 0003E      FFFFFFFB A
01 0003F      FFFFFFF7 A
01 00040      FFFFFFFE A
01 00041      FFFFFFFD A
01 00042      FFFFFFFB A
01 00043      FFFFFFF7 A

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L I T E R A L S - M O N I T O R C O N S T A N T S  
\* ORDERED TABLE OF INVERTED BITS

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*****
NB31T00 EQU *-1
! DB 32
DATA X'FFFFFFFF'-1** (I-1)
FIN

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221  
 222  
 223 01 00043  
 224 00000020  
 225 01 00044 00000001 A  
 226

01 00045 00000003 A  
 01 00046 00000007 A  
 01 00047 0000000F A  
 01 00048 0000001F A  
 01 00049 0000003F A  
 01 0004A 0000007F A  
 01 0004B 000000FF A  
 01 0004C 000001FF A  
 01 0004D 000003FF A  
 01 0004E 000007FF A  
 01 0004F 00000FFF A  
 01 00050 00001FFF A  
 01 00051 00003FFF A  
 01 00052 00007FFF A  
 01 00053 0000FFFF A  
 01 00054 0001FFFF A  
 01 00055 0003FFFF A  
 01 00056 0007FFFF A  
 01 00057 000FFFFFF A  
 01 00058 001FFFFFF A  
 01 00059 003FFFFFF A  
 01 0005A 007FFFFFF A  
 01 0005B 00FFFFFF A  
 01 0005C 01FFFFFF A  
 01 0005D 03FFFFFF A  
 01 0005E 07FFFFFF A  
 01 0005F 0FFFFFFF A  
 01 00060 1FFFFFFF A  
 01 00061 3FFFFFFF A  
 01 00062 7FFFFFFF A  
 01 00063 FFFFFFFF A

L I T E R A L S = M O N I T O R C O N S T A N T S

11

\*  
 ORDERED TABLE OF MASKS  
 \*\*\*\*\*  
 MASKS EQU #=1  
 I DB 32  
 DATA =1+1\*\*I  
 FIN

L I T E R A L S   M O N I T O R   C O N S T A N T S

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228
229
230
231      01 00004
232      01 00005
233      01 00006
234      01 00007
235      01 00008
236      01 00009
237      01 0000A
238      01 0000B
239      01 0000C
240      01 0000D
241      01 0000E
242      01 0000F
243      01 00010
244      01 00011
245      01 00012
246      01 00013
247      01 00014
248      01 00015
249      01 00016
250      01 00017
251      01 00018
252      01 00019
253      01 0001A
254      01 0001B
255      01 0001C
256      01 0001D
257      01 0001E
258      01 0001F
259      01 00020
260      01 00021
261      01 00022
262      01 00023
    
```

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*****
*                                     NAMES FOR BITS
*****
X1      EQU      BT31T80+1
X2      EQU      BT31T80+2
X4      EQU      BT31T80+3
X8      EQU      BT31T80+4
X10     EQU      BT31T80+5
X20     EQU      BT31T80+6
X40     EQU      BT31T80+7
X80     EQU      BT31T80+8
X100    EQU      BT31T80+9
X200    EQU      BT31T80+10
X400    EQU      BT31T80+11
X800    EQU      BT31T80+12
X1000   EQU      BT31T80+13
X2000   EQU      BT31T80+14
X4000   EQU      BT31T80+15
X8000   EQU      BT31T80+16
Y0001   EQU      BT31T80+17
Y0002   EQU      BT31T80+18
Y0004   EQU      BT31T80+19
Y0008   EQU      BT31T80+20
Y001    EQU      BT31T80+21
Y002    EQU      BT31T80+22
Y004    EQU      BT31T80+23
Y008    EQU      BT31T80+24
Y01     EQU      BT31T80+25
Y02     EQU      BT31T80+26
Y04     EQU      BT31T80+27
Y08     EQU      BT31T80+28
Y1      EQU      BT31T80+29
Y2      EQU      BT31T80+30
Y4      EQU      BT31T80+31
Y8      EQU      BT31T80+32
    
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L I T E R A L S \* M O N I T O R C O N S T A N T S

264  
 265  
 266  
 267 01 00044  
 268 01 00045  
 269 01 00046  
 270 01 00047  
 271 01 00048  
 272 01 00049  
 273 01 0004A  
 274 01 0004B  
 275 01 0004C  
 276 01 0004D  
 277 01 0004E  
 278 01 0004F  
 279 01 00050  
 280 01 00051  
 281 01 00052  
 282 01 00053  
 283 01 00054  
 284 01 00055  
 285 01 00056  
 286 01 00057  
 287 01 00058  
 288 01 00059  
 289 01 0005A  
 290 01 0005B  
 291 01 0005C  
 292 01 0005D  
 293 01 0005E  
 294 01 0005F  
 295 01 00060  
 296 01 00061  
 297 01 00062  
 298 01 00063  
 299 01 0004F

\*\*\*\*\*  
 \* NAMES FOR MASKS  
 \*\*\*\*\*  
 M1 EQU MASKS+1  
 M2 EQU MASKS+2  
 M3 EQU MASKS+3  
 M4 EQU MASKS+4  
 M5 EQU MASKS+5  
 M6 EQU MASKS+6  
 M7 EQU MASKS+7  
 M8 EQU MASKS+8  
 M9 EQU MASKS+9  
 M10 EQU MASKS+10  
 M11 EQU MASKS+11  
 M12 EQU MASKS+12  
 M13 EQU MASKS+13  
 M14 EQU MASKS+14  
 M15 EQU MASKS+15  
 M16 EQU MASKS+16  
 M17 EQU MASKS+17  
 M18 EQU MASKS+18  
 M19 EQU MASKS+19  
 M20 EQU MASKS+20  
 M21 EQU MASKS+21  
 M22 EQU MASKS+22  
 M23 EQU MASKS+23  
 M24 EQU MASKS+24  
 M25 EQU MASKS+25  
 M26 EQU MASKS+26  
 M27 EQU MASKS+27  
 M28 EQU MASKS+28  
 M29 EQU MASKS+29  
 M30 EQU MASKS+30  
 M31 EQU MASKS+31  
 M32 EQU MASKS+32  
 XFFF EQU M12

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L I T E R A L S - M O N I T O R C O N S T A N T S

14

301  
302  
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309  
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315  
316  
317  
318  
319  
320  
321  
322

01 00024  
01 00025  
01 00026  
01 00027  
01 00028  
01 00029  
01 0002A  
01 0002B  
01 0002C  
01 0002D  
01 0002E  
01 0002F  
01 00030  
01 00031  
01 00032  
01 00033  
01 00024  
01 00024  
01 0002C

\*\*\*\*\*  
\* N A M E S F O R I N V E R T E D B I T S \*  
\*\*\*\*\*  
XFFFE EQU NB31T80+1  
XFFFD EQU NB31T80+2  
XFFFB EQU NB31T80+3  
XFFF7 EQU NB31T80+4  
XFFEF EQU NB31T80+5  
XFFDF EQU NB31T80+6  
XFFBF EQU NB31T80+7  
XFF7F EQU NB31T80+8  
XFEFF EQU NB31T80+9  
XFDF EQU NB31T80+10  
XF8FF EQU NB31T80+11  
XF7FF EQU NB31T80+12  
XEFFF EQU NB31T80+13  
XDFFF EQU NB31T80+14  
XBFFF EQU NB31T80+15  
X7FFF EQU NB31T80+16  
MINUS2 EQU NB31T80+1  
XN2 EQU NB31T80+1  
XFFFFFFF EQU NB31T80+9

L I T E R A L S \* M O N I T O R C O N S T A N T S

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324
325
326
327      01 00047      XF      EQU      M4
328      01 00048      XFF     EQU      M8
329      01 00053      XFFFF   EQU      M16
330      01 00014      X10000 EQU      Y0001
331      01 00054      X1FFFF EQU      M17
332      01 00056      X7FFFF EQU      M19
333      01 00064      0001FE00 A  X1FE00 DATA  X'1FE00'
334      01 00064      MN9     EQU      X1FE00
335      01 00065      000000FE A  XFE     DATA  X'FE'
336      01 0004A      X7F     EQU      M7
337      01 00045      X3      EQU      M2
338      01 00066      000000FB A  XFB     DATA  X'FB'
339      01 00067      000000E7 A  XE7     DATA  X'E7'
340      01 00046      X7      EQU      M3
341      01 00068      00000044 A  X44     DATA  X'44'
342      01 00069      0000FF00 A  XFF00   DATA  X'FF00'
343      01 0006A      0000F3FF A  XF3FF   DATA  X'F3FF'
344      01 0006B      F1FFFFFF A  XF1FFFFFF DATA X'F1FFFFFF'
345      01 0006C      000000F0 A  XF0     DATA  X'F0'
346      01 0006D      003FFE00 A  X3FFE00 DATA X'3FFE00'
347      01 0006E      00FFFE00 A  XFFFE00 DATA X'00FFFE00'
348      01 0006F      1000FFFF A  X1000FFF DATA X'1000FFFF'
349      01 00070      00007000 A  X7000   DATA  X'7000'
350      01 00071      00FFF800 A  XFFF800 DATA X'00FFF800'
351      01 00072      0000000A A  XA      DATA  X'A'
352      01 00073      00FFFF00 A  XFFFF00 DATA X'00FFFF00'
353      01 00074      000000FC A  XFC     DATA  X'000000FC'
354      01 00075      000000CF A  XCF     DATA  X'CF'
355      01 00076      01000001 A  X1000001 DATA X'1000001'
356      01 00077      0500000D A  X500000D DATA X'500000D'
357      01 00078      0000FFFO A  XFFFO   DATA  X'FFFO'
358      01 00079      000A0000 A  Y000A   DATA  X'000A0000'
359      01 0007A      BE000000 A  YBE     DATA  X'BE000000'
360      01 0007B      000C0000 A  Y000C   DATA  X'C0000'
    
```

```

*****
*
* MISC CONSTANTS
*****
    
```



361	01	0007C	00300000	A	Y003	DATA	X'300000'
362	01	0007D	00380000	A	Y0038	DATA	X'380000'
363	01	0007E	00FE0000	A	Y00FE	DATA	X'FE0000'
364	01	0007F	00FF0000	A	Y00FF	DATA	X'FF0000'
365	01	00080	03000000	A	Y03	DATA	X'3000000'
366	01	00081	05000000	A	Y05	DATA	X'05000000'
367	01	00082	06000000	A	Y06	DATA	X'6000000'
368	01	00083	07000000	A	Y07	DATA	X'07000000'
369	01	00084	09000000	A	Y09	DATA	X'9000000'
370	01	00085	0A000000	A	Y0A	DATA	X'0A000000'
371	01	00086	E0000000	A	YE	DATA	X'E0000000'
372	01	00087	F0000000	A	YF	DATA	X'F0000000'
373	01	00088	0C000000	A	Y0C	DATA	X'C000000'
374	01	00089	01FE0000	A	Y01FE	DATA	X'01FE0000'
375	01	0008A	15000000	A	Y15	DATA	X'15000000'
376	01	0008B	18000000	A	Y18	DATA	X'18000000'
377	01	0008C	30000000	A	Y3	DATA	X'30000000'
378		01 00022			Y40	EGU	Y4
379	01	0008D	60000000	A	Y6	DATA	X'60000000'
380	01	0008E	00030000	A	Y0003	DATA	X'30000'
381	01	0008F	70000000	A	Y7D	DATA	X'7D000000'
382	01	00090	7F000000	A	Y7F	DATA	X'7F000000'
383	01	00091	C1FF0000	A	YC1FF	DATA	X'C1FF0000'
384	01	00092	003E0000	A	Y003E	DATA	X'3E0000'

Address	Mode	Label	Value	Category	Text
386				*	
387				*	ORDERED TABLE FOR CONVERTING HEX AND DECIMAL FOR OUTPUT
388				*	
389	01 00093	F0F1F2F3	A	HEX	TEXT '0123456789ABCDEF'
	01 00094	F4F5F6F7	A		
	01 00095	F8F9C1C2	A		
	01 00096	C3C4C5C6	A		
390	01 00097	82000000	A	Y82	DATA X'82000000'
391	01 00098	A0000000	A	YA	DATA X'A0000000'
392	01 00099	C0000000	A	YC	DATA X'C0000000'
393	01 0009A	FA000000	A	YFA	DATA X'FA000000'
394	01 0009B	FF000000	A	YFF	DATA X'FF000000'
395	01 0009C	FFF00000	A	YFFF	DATA X'FFF00000'
396	01 0009D	FFFE0000	A	YFFFE	DATA X'FFFE0000'
397	01 0009E	FFFF0000	A	YFFFF	DATA X'FFFF0000'
398	01 0009F	FF3FFFFFF	A	FF3FFFFFF	DATA X'FF3FFFFFF'
399					DEF X'1FFFE'
400	01 000A0	0001FFFE	A	X1FFFE	DATA X'1FFFE'
401	01 000A1	00FFFFFFE	A	24BM2	GEN,8,24 0,=2
402	01 000A2	00FFFFFFE2	A	24BM18	GEN,8,24 0,=18
403	01 000A3	00FFFFFFF2	A	24BM14	GEN,8,24 0,=14
404	01 000A4	00FFFFFFF1	A	24BM15	GEN,8,24 ,=15

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L I T E R A L S - M O N I T O R C O N S T A N T S

18

406  
407  
408  
409

\*\*\*\*\*  
\* VARIABLE DATA FOR PAGE ZERO \*  
\* (VISIBLE TO ALL USERS) \*  
\*\*\*\*\*

411	01	000A5	5AC6C9D5	A	FIN	TEXT	' FIN'
412	01	000A6	40404040	A	BLANK	TEXT	' '
413	01	000A7	5AD1D6C2	A	TJOB	TEXT	' JOB'
414						BOUND	8
415	01	000A8	7AE2F8E2	A	SYSACCT	TEXT	' ;SYS '
	01	000A9	40404040	A			
416		01 000A8			SYSACT	EQU	SYSACCT
417	01	000AA	F0F1F0F1	A	DATE	TEXT	' 0101 70'
	01	000AB	4040F7F0	A			
418	01	000AC	F0F0F0F0	A	TIME	TEXT	' 0000'
419	01	000AD	00000032	A	1MIN	DATA	50

# OF 1.2 SEC INTERVALS PER MINUTE

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421					
422					
423	01	000AE	00000001	A	GRANRESET DATA
424					
425	01	000AF	00000001	A	GRANMIN DATA
426					
427					
428					
429	01	000B0	00000000	A	PURGEFLAG DATA
430					
431		01 000B1			GRAVAIL EQU
432	01	000B1	00000000	A	GRANRAD DATA
433	01	000B2	00000000	A	GRANPACK DATA
434	01	000B3	00000000	A	GRANSYM DATA
435	01	000B4	00000000	A	GRANCYL DATA

L I T E R A L S

\* M O N I T O R C O N S T A N T S 19  
 COUNTERS FOR BUFGRAN PURGE, USED IN DETERMINING  
 WHEN OPERATOR MESSAGES AND AUTO PURGES MUST BE DONE  
 1 NO. GRANULES TO RELEASE BEFORE  
 RESETTING GRANMIN  
 1 NO. GRANULES THAT MAY BE ALLOCATED  
 BEFORE REACHING A PURGE THRESHOLD  
 ABOVE VALUES ASSURE PURGE WILL BE CALLED TO  
 RESET THESE ITEMS  
 0 BUFGRAN CALLS PURGE ONLY IF LATTER  
 READY, NON-ZERO SAYS READY

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L I T E R A L S = M O N I T O R C O N S T A N T S 20

437  
438  
439

\*\*\*\*\*  
\* C L O C K 3 D A T A F O R T I M E O F D A Y \*  
\*\*\*\*\*

441	01	00085	00000000	A	CITIC	DATA	0	# OF TICS SINCE SYSTEM STARTUP
442	01	00086	00000258	A	C:CTUN	DATA	600	CURRENT CLOCK3 INTERVAL
443	01	00087	00000258	A	CITINC	DATA	600	WORKING INTERVAL FOR CLOCK3
444	01	00088	00000000	A	C:MSM	DATA	0	MILLISECONDS SINCE MIDNIGHT
445					*			(TARGET OF MTW,-1)
446		01	00087		TINC	EQU	CITINC	SYNONYM

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L I T E R A L S - M O N I T O R C O N S T A N T S 21

448 \*\*\*\*\*  
449 \* TERMINAL COUPLING CONTROL  
450 \*\*\*\*\*

452 01 000B9 000000FF A SICBUP DATA X'FF' TERMINAL COUPLING CONTROL FLAGS  
453 \*\*\*\*\*  
454 \* PHYSICAL MEMORY SIZE  
455 \*\*\*\*\*

457 \* THIS CELL CONTAINING THE SIZE OF PHYSICAL MEMORY IN WORDS  
458 \* IS OF INTEREST TO THE LOADER. USED TO ENABLE SPECIAL ACTION  
459 \* REQUIRED FOR SYSGENS ON 64K SYSTEMS.

461 01 000BA 00000000 A CORED DATA 0 PHYSICAL MEMORY SIZE IN WORDS  
462 \* SETUP AT INITIALIZATION  
463 END

CONTROL SECTION SUMMARY: 01 000BB PT 0 02 00000 PT 0 03 00000 PT 1 04 00000 PT 0

## \* SYMBOL VALUES

I/00000020  
 M12/01 0004F  
 M25/01 0005C  
 M29/01 00060  
 XEFFF/01 00030  
 XFFBF/01 0002A  
 XFFFFFFE/01 0002C  
 X10000/01 00014  
 X7FFFF/01 00056

MASK/FUNC  
 M14/01 00051  
 M26/01 0005D  
 M30/01 00061  
 XFBFF/01 0002E  
 XFFDF/01 00029  
 XFFF7/01 00027  
 X200/01 0000D  
 X800/01 0000F

M1/01 00044  
 M18/01 00055  
 M27/01 0005E  
 NMASK/FUNC  
 XFDFF/01 0002D  
 XFFFB/01 00026  
 XFF7F/01 0002B  
 X2000/01 00011

M10/01 0004D  
 M20/01 00057  
 M28/01 0005F  
 XBFFF/01 00032  
 XFEFF/01 0002C  
 XFFFE/01 00024  
 X1000/01 00010  
 X7FFF/01 00033

## \* EXTERNAL DEFINITIONS

BLANK/01 000A6  
 CITIC/01 000B5  
 DOUBLEONE/01 00002  
 GRANCYL/01 000B4  
 GRANRESET/01 000AE  
 LITERALS/01 00000  
 M11/01 0004E  
 M17/01 00054  
 M22/01 00059  
 M31/01 00062  
 M6/01 00049  
 NB31780/01 00023  
 SYSACT/01 000A8  
 XA/01 00072  
 XF/01 00047  
 XFF/01 0004B  
 XFFFE00/01 0006E  
 XFFF800/01 00071  
 XF3FF/01 0006A  
 X1/01 00004  
 X10/01 00008  
 X2/01 00005  
 X4/01 00006  
 X44/01 00068  
 X7000/01 00070  
 YA/01 00098

BT31780/01 00003  
 CITINC/01 000B7  
 DOUBLEZERO/01 00000  
 GRANMIN/01 000AF  
 GRANSYM/01 000B3  
 MASKS/01 00043  
 M13/01 00050  
 M19/01 00056  
 M23/01 0005A  
 M32/01 00063  
 M7/01 0004A  
 PURGEFLAG/01 000B0  
 TIME/01 000AC  
 XCF/01 00075  
 XFB/01 00066  
 XFFEF/01 00028  
 XFFFF/01 00053  
 XFF00/01 00069  
 XF7FF/01 0002F  
 X1FE00/01 00064  
 X100/01 0000C  
 X20/01 00009  
 X40/01 0000A  
 X500000D/01 00077  
 X8/01 00007  
 YBE/01 0007A

CICTUN/01 000B6  
 CBRD/01 000BA  
 FF3FFFFFF/01 0009F  
 GRANPACK/01 000B2  
 GRAVAIL/01 000B1  
 MINUS2/01 00024  
 M15/01 00052  
 M2/01 00045  
 M24/01 0005B  
 M4/01 00047  
 M8/01 0004B  
 SICBUP/01 000B9  
 TINC/01 000B7  
 XDFFF/01 00031  
 XFC/01 00074  
 XFFF/01 0004F  
 XFFFF00/01 00073  
 XF0/01 0006C  
 XN2/01 00024  
 X1FFFE/01 000A0  
 X1000FFFF/01 0006F  
 X3/01 00045  
 X400/01 0000E  
 X7/01 00046  
 X80/01 0000B  
 YC/01 00099

C:MSM/01 000B8  
 DATE/01 000AA  
 FIN/01 000A5  
 GRANRAD/01 000B1  
 HEX/01 00093  
 MN9/01 00064  
 M16/01 00053  
 M21/01 00058  
 M3/01 00046  
 M5/01 00048  
 M9/01 0004C  
 SYSACCT/01 000A8  
 TJ8B/01 000A7  
 XE7/01 00067  
 XFE/01 00065  
 XFFFD/01 00025  
 XFFF0/01 00078  
 XF1FFFFFF/01 0006B  
 X0/01 00000  
 X1FFFF/01 00054  
 X1000001/01 00076  
 X3FFE00/01 0006D  
 X4000/01 00012  
 X7F/01 0004A  
 X8000/01 00013  
 YC1FF/01 00091

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YE/01 00086  
YFFF/01 0009C  
Y0C/01 00088  
Y000C/01 0007B  
Y0004/01 00016  
Y003/01 0007C  
Y008/01 0001B  
Y03/01 00080  
Y07/01 00083  
Y15/01 0008A  
Y4/01 00022  
Y7F/01 00090  
24BM14/01 000A3

- \* NO PRIMARY REFERENCES
- \* NO SECONDARY REFERENCES
- \* NO UNDEFINED SYMBOLS
- \* ERROR SEVERITY LEVEL: 0
- \* NO ERROR LINES

L I T E R A L S • M O N I T O R C O N S T A N T S

YF/01 00087  
YFFFE/01 0009D  
Y00FE/01 0007E  
Y0001/01 00014  
Y0008/01 00017  
Y003E/01 00092  
Y01/01 0001C  
Y04/01 0001E  
Y08/01 0001F  
Y18/01 0008B  
Y40/01 00022  
Y8/01 00023  
24BM15/01 000A4

YFA/01 0009A  
YFFFF/01 0009E  
Y00FF/01 0007F  
Y0002/01 00015  
Y001/01 00018  
Y0038/01 0007D  
Y01FE/01 00089  
Y05/01 00081  
Y09/01 00084  
Y2/01 00021  
Y6/01 0008D  
Y82/01 00097  
24BM18/01 000A2

YFF/01 0009B  
Y0A/01 00085  
Y000A/01 00079  
Y0003/01 0008E  
Y002/01 00019  
Y004/01 0001A  
Y02/01 0001D  
Y06/01 00082  
Y1/01 00020  
Y3/01 0008C  
Y7D/01 0008F  
1MIN/01 000AD  
24BM2/01 000A1