

RCSL: 43-GL2805
AUTHOR: DHA
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MUI04

? KEYWORDS: MUS, INITIALIZATION, LISTING.
? ABSTRACT: MUS SYSTEM INITIALIZATION.
? ASCII PAPER TAPE RCSL 43-GL2806
? REL. BIN PAPER TAPE RCSL 43-GL2807

***** INIT MONITOR *****

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.NREL
000001 .TXTM 1
      .TITL MUI04
000012 .RDX 10
000156 R12=110
000367 I0=247

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000002 .LOC 2
000002 000000' I8
.NREL
I8:

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00000 060277 INTDS
00001 060430 DIA 0 24
00002 024520 LDA 1 I2
00003 107404 AND 0,1 SZR
00004 063077 HALT
00005 020126 LDA 0 .NL
00006 061135 DOAS 0 29
00007 063535 SKPBZ 29
00010 000777 JMP .-1
00011 020510 LDA 0 I29
00012 061111 DOAS 0 TTO
00013 101400 INC 0,0
00014 101400 INC 0,0
00015 063511 SKPBZ TTO
00016 000777 JMP .-1
00017 034122 LDA 3 .5
00020 174400 NEG 3,3
00021 061111 DOAS 0 TTO
00022 063511 SKPBZ TTO
00023 000777 JMP .-1
00024 175404 INC 3,3 SZR
00025 000774 JMP .-4
00026 062677 IORST
00027 020067 LDA 0 MASK
00030 062077 MSKO 0
00031 020066 LDA 0 FREQUENCY
00032 061114 DOAS 0 RTC
00033 024006 LDA 1 6
00034 044002 STA 1 2
00035 044005 STA 1 5
00036 102000 ADC 0,0
00037 042465 STA# 0 I31

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; SYSTEM START:
; INTERRUPT DISABLE;
; SENSE(MT0,STATUS);
; IF STATUS AND ERROR THEN
; HALT;
; CLEAR DISPLAY;
; HOMEUP;
; COUNT:=-5;
; REPEAT
; DOAS(ERASE EOF);
; UNTIL INC(COUNT)=0;
; RESET ALL DEVICES;
; MASK OUT(MASK);
; START(RTC,FREQUENCY);
; WORD 2 := WORD 6;
; WORD 5 := WORD 6;
; 0.TOPDEV:=-1;

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↑ 0003 MUI04
01 00040 030463 LDA 2 I30 ;
02 00041 050020 STA 2 16 ; INDEX:= WORD 401;
03 00042 030054 I10: LDA 2 PROCESS ; OLD:= PROCESS CHAIN;
04 ; NEXT PROCESS;
05 00043 036020 LDA# 3 16 ; PROC:= 0.INCR(INDEX);
06 00044 175015 MOV# 3,3 SNR ; IF PROC=0 THEN
07 00045 000775 JMP I10 ; GOTO NEXT PROCESS;
08 00046 175415 INC# 3,3 SNR ; IF PROC=-1 THEN
09 00047 000415 JMP I11 ; GOTO CLEAR DEVICE TABLE;
10 00050 025002 LDA 1 CHAIN,2 ;
11 00051 045402 STA 1 CHAIN,3 ; CHAIN.PROC:= CHAIN.PROCESS;
12 00052 055002 STA 3 CHAIN,2 ; CHAIN.PROCESS:= PROC;
13 00053 054367 STA 3 IO ;
14 ;
15 ; PROGRAM CHAIN:
16 00054 035412 LDA 3 PROG,3 ; PROG:= PROG.PROC;
17 00055 030071 LDA 2 PROGRAM ;
18 00056 025002 LDA 1 CHAIN,2 ;
19 00057 055002 STA 3 CHAIN,2 ; CHAIN.PROG:= CHAIN.PROGRAM;
20 00060 045402 STA 1 CHAIN,3 ; CHAIN.PROGRAM:= PROG;
21 00061 030367 LDA 2 IO ;
22 ; RUNNING QUEUE:
23 00062 006156 JSR# R12 ; LINK PROCESS(PROC);
24 00063 000757 JMP I10 ; GOTO NEXT PROCESS;
25

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01
02
03 00064;030112 I11: LDA 2 CUR2 ; SET DEVICE TABLE;
04 00065;034045 LDA 3 TABLE ; VALUE:= CUR*2;
05 00066;024046 LDA 1 TOPTABLE ; INDEX:= DEVICE TABLE;
06 00067;051403 I12: STA 2 +3,3 ; SET NEXT;
07 00070;051400 STA 2 0,3 ; 0,INDEX:=VALUE;
08 00071;175400 INC 3,3 ; 3,INDEX:=VALUE;
09 00072;136414 SUB# 1,3 SZR ; INDEX:= INDEX+1;
10 00073;000774 JMP I12 ; IF INDEX<>TOP OF DEV TABLE THEN
11 ; GOTO SET NEXT;
12 00074;151400 INC 2,2 ;
13 00075;151400 INC 2,2 ;
14 00076;034045 LDA 3 TABLE ; RTC.DEVTABLE:=
15 00077;020127 LDA 0 ,RTC ; VALUE+1
16 00100;117000 ADD 0,3 ;
17 00101;051400 STA 2 +0,3 ;
18 00102;024105 LDA 1 ,2048 ; CALCULATE SIZE;
19 00103;152221 ADCZR 2,2 SKP ; ADDR:=32K+2048;
20 ; NEXT ADDR;
21 00104;132400 I13: SUB 1,2 ; ADDR:= ADDR-2048;
22 00105;021000 LDA 0 +0,2 ; OLD:= 0,ADDR;
23 00106;051000 STA 2 +0,2 ; 0,ADDR:= ADDR;
24 00107;035000 LDA 3 +0,2 ; NEW:= 0,ADDR;
25 00110;041000 STA 0 +0,2 ; 0,ADDR:= OLD;
26 00111;156404 SUB 2,3 SZR ; IF NEW<>ADDR THEN
27 00112;000772 JMP I13 ; GOTO NEXT ADDR;
28 00113;151400 INC 2,2 ; INCR(ADDR);
29 00114;050070 STA 2 CORESIZE ; CORE SIZE:= ADDR;
30 00115;024116 LDA 1 ,4 ; LOADER:= CORESIZE-4;
31 00116;132400 SUB 1,2 ;
32 00117;050060 STA 2 FFIRST ; FIRST FREE:= LOADER;
33 00120;002056 JMP# EXIT ; EXIT;
34 I0: ; COMMENT: GOTO INTERRUPT RETURN;
35 00121;000035 I29: 29 /
36 000002 ,RDX 2
37 00122;000040 I2: 000000000100000
38 000012 ,RDX 10
39 00123;000401 I30: DEVTA+9 ;
40 00124;000464 I31: TOPDEV ;
41
42 ; ***** END OF INIT MONITOR *****
43
44 .END ; GOTO SYSTEM START;

```

0005 MUI04

I0	000367	2/08	3/13	3/21
I10	000042'	3/03	3/07	3/24
I11	000064'	3/09	4/02	
I12	000067'	4/06	4/10	
I13	000104'	4/20	4/27	
I2	000122'	2/17	4/37	
I29	000121'	2/24	4/35	
I30	000123'	3/01	4/39	
I31	000124'	2/46	4/40	
I8	000000'	2/12	2/14	
R12	000156	2/07	3/23	

MULTS

```

LDA 0 0 1
LDA 1 .1 ;
DJA 0 3 ;
DIZ 1 3 ;
CWE# 1,0 52K ;
JMP ;
LDA 3 GETBHE - 60S ;
LDA 0 6B + 0 ;
STA 0 + 0, 3 ;
LDA 0 6B + 1 ;
STA 0 + 1, 3 ;
LDA 3 PUTBHE - 60S ;
LPA 0 PB + 0 ;
STA 0 + 0, 3 ;
LDA 0 PB + 1 ;
STA 0 + 1, 3 ;

```

• RDX 2

LDB = 0110010110100001

STB = 0110011110000001

~~6B~~

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6B: LDB ;
      JMP +0, 3 ;
STB: STB ;
      JMP +0, 3 ;

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