

RCSL: 43-GL2451
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FD302

: KEYWORD: MUS, DRIVER, FLEXIBLE DISC, FLOPPY, DISCETTE, LISTING.
: ABSTRACT: DRIVER FOR FLEXIBLE DISC RC3650, UNIT 1.
: ASCII PAPER TAPE RCSL: 43-GL2452
: BINARY PAPER TAPE RCSL: 43-GL2453

10002 FD302

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01 ; ***** START OF FLOPPY DISC DRIVER, SECONDARY UNIT *****
02 ; VERSION: 76.03.17/1
    .TITL FD302
04 .NREL
05 000012 .RDX 10
06 000001 .TXTM 1
07 ;
08 00000'140001 FD00: 1B0+1B1+1 ; SPECIFICATION
09 00001'000007' FD01 ; START OF PROGRAM
10 00002'000000 0 ; CHAIN
11 00003'000024 DE0-FD00 ; SIZE OF PROGRAM
12 00004'043104 .TXT .FD1<0><0>. ; NAME
13 030400
14 000000
15
16
17
18 00007'024071 FD01: LDA 1 PROGRAM ; START OF SECOND DRIVER:
19 00010'030410 LDA 2 .FD0 ;
20 00011'006010 SEARCHITEM ; SEARCHITEM(FD0,PROGRAM,RESULT);
21 00012'151005 MOV 2,2 SNR ; IF RESULT = 0 THEN
22 00013'000774 JMP FD01 ; SEARCH AGAIN;
23 00014'035001 LDA 3 PSTART,2 ; STARTADDR.:=
24 00015'030040 LDA 2 CUR ; STARTADDR. OF !MOTHER!;
25 00016'055016 STA 3 BREAD,2 ; BREAKADDR.:= STARTADDR.;
26 00017'001400 JMP +0,3 ; GOTO STARTADDR. OF !MOTHER!;
27 ; END OF SECOND DRIVER;
28
29 ;
30 00020'000021' .FD0: .+1 ;
31 00021'043104 .TXT .FD0<0><0>. ; NAME OF !MOTHER!
32 030000
33 000000
34
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10003 FD302

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01 ; PROCESS DESRIPTOR
02 000064 DEVNO= 52 ; DEVICE NUMBER
03
04 00024'000000 DE0: 0 ; NEXT PROCESS IN THE QUEUE
05 00025'000000 0 ; PREV. PROCESS
06 00026'000000 0 ; NEXT PROCESS IN CHAIN
07 00027'000100 FD02-DE0 ; PROCESS DESCRIPTOR SIZE
08 00030'043104 .TXT .FD1<0><0>. ; NAME OF PROCESS
09 030400
10 000000
11 00033'000033' DE0+EVENT ; FIRST EVENT
12 00034'000033' DE0+EVENT ; LAST EVENT
13 00035'000000 0 ; FIRST MESSAGE BUFFER
14 00036'000000' FD00 ; PROGRAM ADDRESS
15 00037'000000 0 ; PROCESS STATE
16 00040'000000 0 ; TIMER COUNT
17 00041'100000 180 ; PRIORITY:= DRIVER
18 00042'000007' FD01 ; BREAK ADDRESS
19 00043'000000 0 ; SAVED AC0
20 00044'000000 0 ; SAVED AC1
21 00045'000024' DE0 ; SAVED AC2
22 00046'000024' DE0 ; SAVED AC3
23 00047'000016" FD01*2 ; PROCESS STATUS WORD (PSW)
24 00050'000000 0 ;SAVE ; WORK USED BY MONITOR UTILITIES
25 ; OPTIONAL WORDS
26 00051'000000 0 ;BUF ; MESSAGE BUFFER ADDRESS
27 00052'000000 0 ;ADDRESS ; CURRENT BYTE ADDRESS OF SHARE
28 00053'000000 0 ;COUNT ; CURRENT VALUE OF COUNT
29 00054'000000 0 ;RESERVER; RESERVER
30 00055'000000 0 ;CONVT ; CONVERSION TABLE ADDRESS
31 00056'100166 CLEAR ; STANDARD INTERRUPT CLEAR ADDRESS
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01          ; OTHER OPTIONAL WORDS
02          000033 TR.SYNC= .-DE0
03 00057'000000          0          ;CUR+27; LAST READ(TRACK<8+SYNC.BYTE)
04          000034 FDSOFT= .-DE0
05 00060'000000          0          ;CUR+28; UNMODIFIED STATUS
06          000035 DEVICE= .-DE0
07 00061'000064          DEVNO          ; DEVICE ADDRESS
08          000036 FDMODE= .-DE0
09 00062'000000          0          ; CURRENT MODE BITS
10          000037 FDCOMMAND=. -DE0
11 00063'000000          0          ; IO-COMMAND EXCL. (FDUNIT)
12          000040 SECTOR= .-DE0
13 00064'000000          0          ; CALC. SECTOR NO.
14          000041 TRACK= .-DE0
15 00065'177777          -1          ; CALC. TRACK NO.;-1 -> UNDEFINED
16          000042 BLOCK= .-DE0
17 00066'000000          0          ; LOGICAL BLOCKCOUNT (=MESS3.BUF - 1)
18          000043 FDRLOCK= .-DE0
19 00067'000000          0          ; PHYSICAL BLOCKCOUNT (INTERNAL)
20          000044 SLICE= .-DE0
21 00070'000000          0          ; SLICE SIZE = BYTES//128
22          000045 FDSLICE= .-DE0
23 00071'000000          0          ; SLICE COUNT: FOR EACH PHYSICAL BLOCK
24          ; DECREMENT FROM SLICESIZE TO ZERO
25          000046 I.TLINK= .-DE0
26 00072'000000          0          ; RETURN(LOCAL TRANSPUT)
27          000047 I.SLINK= .-DE0
28 00073'000000          0          ; RETURN(SLICE COUNT TEST)
29          000050 POLINK= .-DE0
30 00074'000000          0          ; RETURN(POSITION)
31          000051 STALINK= .-DE0
32 00075'000000          0          ; RETURN(TEST STATUS)
33          000052 WRLINK= .-DE0
34 00076'000000          0          ; RETURN(WRITE,ERASE)
35          000053 RELINK= .-DE0
36 00077'000000          0          ; RETURN(READBLOCK,WRITE/READ)
37          000054 RESEM= .-DE0
38 00100'000000          0          ; COMMAND SPECIFICATION;
39          ; USED BY "STACHECK";
40          ; IF -1 THEN LAST COMMAND=READ BLOCK
41          ; ELSE ANY OTHER COMMAND;
42          000055 FDDISP= .-DE0
43 00101'000000          0          ; TRACK DISPLACEMENT, USED FOR
44          ; DISCETTES WITH DELETED TRACKS;
45

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01      ; ROUTINES INPUT/OUTPUT:
02      ;
03      000056 IODOAS=  .-DE0      ; CONTROL COMMAND:
04 00102'061164      DOAS  0      DEVNO      ; START DEVICE(COMMAND);
05 00103'001400      JMP      +0,3      ; RETURN(LINK);
06      ;
07      000060 IODOB=  .-DE0      ; OUTCHAR:
08 00104'062064      DOB   0      DEVNO      ; OUTCHAR(CHAR,DEVNO);
09 00105'001400      JMP      +0,3      ; RETURN(LINK);
10      ;
11      000062 IODOC=  .-DE0      ; OUTSYNC:
12 00106'063064      DOC   0      DEVNO      ; OUTSYNC(FIELD SYNC. BYTE,DEVNO);
13 00107'001400      JMP      +0,3      ; RETURN(LINK);
14      ;
15      000064 IODIC=  .-DE0      ; INSYNC:
16 00110'062464      DIC   0      DEVNO      ; INSYNC(TRACK<8 + SYNC. BYTE,DEVNO);
17 00111'041033      STA   0      TR.SYNC,2 ; SAVE, FOR SERVICE ONLY;
18 00112'001400      JMP      +0,3      ; RETURN(LINK);
19      ;
20      000067 IODIB=  .-DE0      ; INCHAR:
21 00113'061464      DIB   0      DEVNO      ; INCHAR(CHAR,DEVNO);
22 00114'001400      JMP      +0,3      ; RETURN(LINK);
23      ;
24      000071 IODIA=  .-DE0      ; SENSE NORMAL:
25 00115'064464      DIA   1      DEVNO      ; SENSE(STATUS);
26 00116'001400      JMP      +0,3      ; RETURN(LINK);
27      ;
28      000073 IOSPEC= .-DE0      ; REDEFINE TRACK ADDRESS:
29 00117'061064      DOA   0      DEVNO      ; LOAD THE TRACK ADDRESS;
30 00120'001400      JMP      +0,3      ; RETURN(LINK);
31      ;
32      000075 IOCLEAR=.-DE0      ; CLEAR ALL:
33 00121'060264      NIOC  DEVNO      ; CLEAR(DONE,BUSY);
34      ;
35      000076 IONIOP= .-DE0      ; PULSE:
36 00122'060364      NIOP  DEVNO      ; CLEAR BUFFER;
37 00123'001400      JMP      +0,3      ; RETURN(LINK);
38      ;
39      FD02:      ; END OF PROCESS DESCRIPTOR;
40
41      ; ***** END OF FLOPPY DISC DRIVER *****
42
43      .END DE0

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BLOCK 000042	4/16						
DE0 000024'	2/11	3/04	3/07	3/11	3/12	3/21	3/22
	4/02	4/04	4/06	4/08	4/10	4/12	4/14
	4/16	4/18	4/20	4/22	4/25	4/27	4/29
	4/31	4/33	4/35	4/37	4/42	5/03	5/07
	5/11	5/15	5/20	5/24	5/28	5/32	5/35
	5/43						
DEVIC 000035	4/06						
DEVND 000064	3/02	4/07	5/04	5/08	5/12	5/16	5/21
	5/25	5/29	5/33	5/36			
FD00 000000'	2/08	2/11	3/14				
FD01 000007'	2/09	2/18	2/22	3/18	3/23		
FD02 000124'	3/07	5/39					
FDBLO 000043	4/18						
FDCOM 000037	4/10						
FDDIS 000055	4/42						
FDMOD 000036	4/08						
FDSL1 000045	4/22						
FDSOF 000034	4/04						
IOCLE 000075	5/32						
IODIA 000071	5/24						
IODIB 000067	5/20						
IODIC 000064	5/15						
IODJA 000056	5/03						
IODOB 000060	5/07						
IODOC 000062	5/11						
IONIO 000076	5/35						
IOSPE 000073	5/28						
I.SLI 000047	4/27						
I.TLI 000046	4/25						
POLIN 000050	4/29						
RELIN 000053	4/35						
RESEM 000054	4/37						
SECTO 000040	4/12						
SLICE 000044	4/20						
STALI 000051	4/31						
TRACK 000041	4/14						
TR.SY 000033	4/02	5/17					
WRLIN 000052	4/33						
.FDO 000020'	2/19	2/30					