

HOST ECHO PROGRAM V3.1 (USER PORTION)

INITIALIZATION

```
DISP EQU $4000 ;LOCAL VARIABLE
ORG $E000
SEI ; Turn off interrupts
CLD ; Set CPU to binary mode
LDX #$FF
TXS ; Set SP to $FF
LDA #$06
STA BLKID ; Set BLKID to $06
LDA #$00
STA NOV RD ; NO OVERRIDE ON NORTH TRACK
STA SOV RD ; NO OVERRIDE ON SOUTH TRACK
STA DFLAG ; NO DATA TO SEND
JSR INIT ; Initialization subroutine
```

RDATA = 0 ?

YES

```
HECHO LDA RDATA ; Get RDATA
      BEQ HECHO
```

SEND DATA BACK TO HOST

```
STA DISP ; Display it
STA WDATAH ; Send RDATA value as the 'request code'
LDA #$FF
STA DFLAG ; Set DFLAG to $FF - tell ISR to send data
```

RDATA = 80 ?

NO

```
AGAIN LDA RDATA ; Get RDATA
      CMP #$80 ; = $80 ? -- 'acknowledge code'
      BNE AGAIN ; No -- continue to wait
```

SET RDATA = 0

```
LDA #$00 ; Yes
STA RDATA ; SET RDATA = 0
JMP HECHO
```