

Panel Copy

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One of the best features of the Memotech MTX series computers is their built in assembler/disassembler, the Panel. Unfortunately, the one thing missing from it is the ability to dump the contents thereof, to a printer. This program remedies that problem.

(1) For SDX Users

Type in listing, then type *GOTO 100*. This will autosave the program to disc as

"*PANEL.COD*". To use the program, just type *USER LOAD "PANEL.COD"*. This will reload the program back into memory and auto-initialise itself in high memory. Therefore when you enter *PANEL*, function keys F5-F8, are now initialised (see later for meanings).

(2) For SDX/FDX CP/M Users

As in (1), except replace the references to *USER* with *DISC*.

(3) For Tape Users

As in (1), except remove the references to *USER*. To load use *LOAD "PANELCOD"*.

You should now have on disc or tape a program called *PANEL.COD* or *PANELCOD*. This program is interrupt driven and is at top of free memory,

therefore it won't be overwritten. However, when the computer is reset, the *PANEL* extension location at £FA9E is reset, and this subroutine will become invisible to the Operating System and *PANEL*. As the program is still in memory at the desired location, £B007, you simply re-initialise it with *RAND USR(45063)*.

The screen is divided up into three key areas. The *disassembly*, the *registers* and the *Hexdump* at the bottom of the screen. This *PANEL* extension allows you to get a hardcopy of the whole *PANEL* screen (F5), the disassembly and registers (F6), the disassembly only (F7) and the *hexdump* only (F8). See figure below for a snapshot of the panel whole screen.

10 CODE

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4007 JPANEL:LD A,£C3           ; SET PANEL EXTENSION WITH
4009         LD (£FA9E),A     ; JP £B012.
400C         LD HL,£B012     ;
400F         LD (£FA9F),HL   ;
4012 PSTART:LD A,(£FD7D)     ; WHAT WAS THE LAST KEYPRESS.
4015         CP £84          ; CHECK TO SEE IF IT ONE OF
4017         JR Z,F5         ; THE FOLLOWING OPTIONS.
4019         CP £85          ;
401B         JR Z,F6         ;
    
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408A         JR NZ,PSEND     ; IF NOT F7,KEEP READING.
408C         LD A,(COUNT)   ; UPDATE ROW COLUMN COUNTER
408F         AND A           ; AND CHECK TO SEE IF END OF
4090         INC A           ; ROW YET.
4091         LD (£B0B5),A    ;
4094         LD B,A          ;
4095         LD A,(£B0B0)    ;
4098         CP B           ;
4099         JR Z,UPDVDP     ; UPDATE VDP ROW COUNTER.
409B         JR PSEND       ; NOT AT LINE END YET.
409D UPDVDP: PUSH DE        ; MOVE VDP ON BY 40 (SCREEN
409E         LD DE,40        ; WIDTH).
40A1         ADC HL,DE       ;
40A3         POP DE         ;
40A4         PUSH HL        ;
40A5         XOR A          ;
40A6         LD (£B0B5),A    ; ZERO F7 COL COUNTER.
40A9         JR VDPSET      ;
40AB LF:     DB 27,"A",16   ; SET PRINTER SPACING.
40AE         DB 27,"Q"     ; SET COLUMN
40B0 COL:    DS 1           ; WIDTH.
40B1 SCRNST:DS 2           ; £B0B1
40B3 LENPAN:DS 2           ; £B0B3
40B5 COUNT: DS 1           ; £B0B5
40B6 END:    LD B,13        ; SEND CR.
40B8         CALL £0CE3     ;
40BB         LD B,10        ; SEND LF.
40BD         CALL £0CE3     ;
40C0         RET           ; RETURN TO PANEL EDITOR.
    
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20 CODE

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MOVECODE: LD HL,£4007       ; (OR £B007) START OF CODE.
          LD DE,£B007       ; NEW LOCATION IN MEMORY.
          LD BC,186         ; LENGTH OF CODE TO MOVE.
          LDIR              ; MOVE IT
          RET               ;
    
```

30 RETURN

```

100 USER SAVE "PANEL.COD"
110 GOSUB 20
120 RAND USR(45063)
130 NEW
    
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