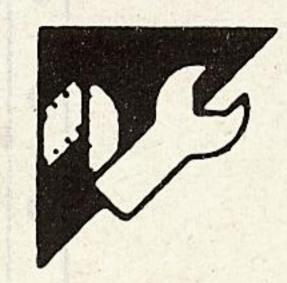
## PRUGRAM FILE



## Memotech MTX PANEL Fill Utility

## by Terry Trotter

The Memotech computers have a valid command, in this case F, and if 'front panel' display of registers for assembly language program debugging. There are several commands panel commands. available on this front panel, but one The program starts by transferring that is missing is a memory FILL command. Memotech has provided a call in the ROM routines to a RAM setting up the jump, and returning to location (FEXPAND) to allow expansion of the available commands. If a jump is placed at this location to the When the command has been acticode to be executed, this will add a new command.

The FILL command checks for a value.

found, continues with the FILL command. Otherwise, it returns to the

the rest of the program code to high memory, resetting the stack limit, Basic. The utility is then safe in memory.

vated by F, it will prompt for a start address, an end address, and a FILL

```
10 CODE
4007 PANEXT: LD DE, £F6F0
                                ; point to where we will be
400A
             LD (£FA92), DE
                                ; change stack limit
400E
            LD (£FA9F), DE
                                ; change panel expand bytes
4012
             LD HL, FILL ; point to the start
4015
             LD BC, £27 ; how many bytes to move
4018
             LDIR
                       ; move them !
401A
             LD A, £C3 ; set up the jump to fill
401C
             LD (£FA9E), A
```

```
401F
             RET
4020 FILL:
            LD A, (£FD7D)
                                ; was the last character a "F" ?
4023
             CP "F"
4025
             RET NZ
                    ; if not return
4026
             RST 28
                      ;print Fill and get bytes
4027
             DB £AB
4028
             DB "Fil", £EC
                                ; last byte has bit 7 set to 1
402C
             PUSH BC
                      ; save the start address on stack
402D
             RST 28
                      print To and get bytes
402E
            DB £AB
402F
            DB "T", £EF ; last byte has bit 7 set to 1
4031
             PUSH BC
                      ; save the end address on stack
4032
             RST 28
                        ;print "With" and get byte
4033
            DB £AB
4034
             DB "Wit", £E8 ; last byte has bit 7 set to 1
4038
            LD A, C
                        ; fetch the byte into A
4039
             POP HL
                      ; get the end address
403A
            POP DE
                        ; get the start address
403B
             AND A
                        ; clear carry flag
403C
            SBC HL, DE
                        ; calculate how many bytes
403E
            LD B,H
                        ; set up length in BC
403F
            LD C, L
4040
            LD H, D
                        ; set up start address in HL
4041
            LD L,E
4042
            LD (DE),A
                        ; fill the first byte
4043
             INC DE
                        ;point to the next with DE
4044
            LDIR
                        ; fill the rest
4046
            RET
Symbols:
FILL
        4020
                FANEXT
                       4007
```