Cingra

Memotech Owners Club Public Domain Software Library Document LL04 - RST10 Codes Explained

## Screen Output Using RST 10

Sending Messages To The Screen

RST 10 DB £8D,"MEMOTECH LTD" RET

The byte following the RST 10 is made up in the following way:

# RST 10 Control byte - Bit Format

Where bit 5 indicates that the routine should continue to interpret data after this instruction. n is the number of bytes in the string.

## Control Codes and RST 10

In the ASCII character set there are 32 invisible characters before the first printable character (space). These invisible characters are called control characters. These codes are extremely powerful in the MTX when used with RST 10.

The following is a list of commands available through RST 10:-

ASCII	
CODE	FUNCTION
1	PLOT X, Y
2	LINE x1, y1, x2, y2
3	CURSER X, Y
7	BELL
10	LINE FEED, CURSER DOWN
11	VERTICAL TAB
12	CLS & HOME (FF)
13	CARRIAGE RETURN
14	CTLSPR p,x
15	GENPAT p,n,d0,d1,d2,d3,d4,d5,d6,d7
16	COLOUR p,n
17	ADJSPR p,n,v
18	SPRITE n,p,xp,yp,xs,ys,col
19	MOVSPR p,n,d
20	VIEW dir, dis
21	INSERT KEY
22	DELETE KEY
23	BACK TAB
25	TAB KEY
26	HOME KEY
27,65	ATTR p, state

27,89 CRVS n,t,x,y,w,h,s 27,90 VS n 27,67 GR\$ x,y,b

The following program demostrates the use of Control codes:-

LOOP: RST 10

DB £8B,15,0,"\*",£10,£10,£38

DB £54,£10,£10,£10,£38

CALL PAUSE

RST 10

DB £8B,15,0,"\*",0,0,£10,£54

DB £38,£10,£7C,£44

CALL PAUSE JP LOOP 1

RET

PAUSE: LD B,50 PAUSE1: HALT

DJNZ PAUSE1

RET

This program is demonstrating the use of GENPAT in mode 1 (Re-define an ASCII character).

### Output BC Register to the screen

The RST 10 call also allows the transfer of the BC Reg. to screen: -

It's format is:-

#### RST 10 Control Byte - Bit Format

Where c is the continuation bit \* = don't matter

The following is an example of RST 10 and CALL £79, Keyboard input:-

START: CALL £79

(The principle of this program is that it JR Z, START reads the keyboard äwith de-bounceu and LD C, A LD B,0 returns a value in the Accumulator)

RST 10

(Rem: - To get into Assembler to type this DB 192 program in type ASSEM 10 éRETç, éRETç & CP 13 JR NZ, START don't forget the label `START:'.)

RET

This routine reads the keyboard & echo's it to the screen.

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LL04