

```

. C listing: TYPMC.C
/*****
/*
/*                      T Y P M C                      */
/*-----*/
/*      Task           : Sets the typematic rate on the MF II keyboard */
/*                      according to user preferences.                  */
/*-----*/
/*      Author          : Michael Tischer                          */
/*      Developed on     : 08/28/88                                  */
/*      Last update      : 01/21/92                                  */
/*-----*/
/*      Memory model    : SMALL                                     */
/*-----*/
/*      Modules          : TYPMC.C + TYPMCA.ASM                     */
/*      Info              : Microsoft C requires separate compiling and */
/*                          linking:                                  */
/*                          CL /AS /c TYPMC.C                        */
/*                          LINK TYPMC TYPMCA;                       */
/*                          If you omit the /c switch, Microsoft C will */
/*                          give an 'unresolved external' error.       */
/*-----*/
/*****

/*== Add include files =====*/

#include <stdlib.h>
#include <stdio.h>

/*== Type definitions =====*/

typedef unsigned char byte;           /* Create a byte */
typedef byte bool;                   /* Specify TRUE or FALSE */

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/*== Constants =====*/

#define TRUE  ( 1 == 1 )          /* Needed when working with BOOL */
#define FALSE ( 0 == 1 )

/*== Link external functions from the assembly language module =====*/

extern bool set_typm( byte trate );          /* Set the typematic rate */

/*****
**                               MAIN PROGRAM                               **
*****/

void main(int argc, char *argv[] )
{
    int delay,                      /* Stores the specified delay */
        speed;                    /* Stores the specified repeat rate */

    printf("\nTYPMC - (c) 1988, 92 by MICHAEL TISCHER\n");
    if (argc!=3 || ( (delay = atoi(argv[1]))<0 || delay>3 ) ||
        ( (speed = atoi(argv[2]))<0 || speed>31 ))
    {
        /* Illegal parameters were passed */
        printf("Syntax: TYPMC      delay      key_repeat_rate\n");
        printf("          \xle          \xle\n");
        printf("          3          3\n");
        printf("      ÊííííííííííííííííÊ» ÊííííííííííííííííÊ»\n");
        printf("      ° 0 : 1/4 second ° ° 0 : 30.0 reps/sec. °\n");
        printf("      ° 1 : 1/2 second ° ° 1 : 26.7 reps/sec. °\n");
        printf("      ° 2 : 3/4 second ° ° 2 : 24.0 reps/sec. °\n");
        printf("      ° 3 : 1 second ° ° 3 : 21.8 reps/sec. °\n");
        printf("      ÇÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ¶ ° . °\n");
        printf("      ° All values +-20% ° ° . °\n");
    }
}

```

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printf("      Èíííííííííííííííííííí%° °\n");
printf("      ° 28 :   2.5 reps/sec. °\n");
printf("      ° 29 :   2.3 reps/sec. °\n");
printf("      ° 30 :   2.1 reps/sec. °\n");
printf("      ° 31 :   2.0 reps/sec. °\n");
printf("      Èíííííííííííííííííííí%\n");
}
else /* The parameters are O.K. */
{
    if (set_ttypm( (byte) ((delay << 5) + speed )) /* Set typematic */
        printf("Typematic rate now set.\n");
    else
        printf("Keyboard controller access error.\n");
}
}
```