

```

_KNAPP:   RMB      $1

_main:
          CLR      _KNAPP
          JSR      _irqinit

_2:
          LDAB     _KNAPP
          STAB     $400
          BRA      _2
          RTS

_irqinit: LDD      #_IRQHandler
          STD      $FFF2
          STD      $3FF2

          CLR      $DC2
          CLR      $DC3

          CLI

          RTS

_IRQHandler:
          LDAB     $DC0
          ANDB     #$01
          BEQ      _6

          LDAB     _KNAPP
          CMPB     #$FF
          BCC      _7

          INC      _KNAPP
_7:       CLR      $DC2
          BRA      _8

_6:
          TST      _KNAPP
          BLS      _9

          DEC      _KNAPP
_9:       CLR      $DC3

_8:       RTI

```

```

unsigned char KNAPP;

void main(void){
    KNAPP = 0;
    irqinit();

    while(1) {
        ML4WRITE = KNAPP;
    }
}

void irqinit(void) {           //Interrupt init
    IRQVECT1WRITE = IRQHandler_ADR;
    IRQVECT2WRITE = IRQHandler_ADR;

    IRES1WRITE = 0;           //Clear IRQ-flip-flops
    IRES2WRITE = 0;

    __asm(" CLI");

}

__interrupt void IRQHandler( void ){ // Interrupt handler
if (IRQSRCREAD & 1) {

    if(KNAPP < 255)

        KNAPP++;
        IRES1WRITE = 0;
    }

else
{
    if(KNAPP > 0)

        KNAPP--;
        IRES2WRITE = 0;
    }
}
}

```