

```

_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;
            }
        }
}

```