Example for multiple interrupts.

TB_0:

SEP P8,0;

CHIP ROM8K ; This program is for multi-interrupt test ; In this program only could accept two interrupt, one from INTO(P8,2) ; You could run this program in two way. 1'st. drop the instruction in "line #", and free run program, you will see P8,1 out a spuare wave. then tie P8,2 to low. the spuare wave will disapear.it's because program run loop within INTO ISR routine, you sould stop the ICE and check the TA value, it is start counting from overflow. this means TAI ISR is not executed. 2'nd. keep the instruction in "line #", and free run, you could see the same condition as 1'st way, then connect P8,2 to low. the square will never stop. it's because even the program is executing INTO ISR, it still can accept TAI ISR. ; RAM definition DSEG: data segment ; PROGRAM initial code segment CSEG; ORG OOH; LBR RESET; LBR INTO; LBR HTCI; LBR TA; LBR TB; LBR TIMEBASE; LBR INT1; INT1: RTI; INTO: EICIL 1111111B; line # ; set EIF will accept TAI during INTO ISR ; drop this will hold on this loop and TAI will not happened TFP P8,2; B INTO; RTI; -----HTCI: TB: TFP P8,0; B TB_0; CLP P8,0; RTI;

```
RTI;
TIMEBASE:
TA:
              LDIA #00H;
              STATAL;
              STATAM;
              STATAH;
              STATBL;
              STATEM;
              STATBH;
              TFP P8,1;
              B TA_0;
              CLP P8,1;
              RTI;
TA_0:
              SEP P8,1;
              RTI;
RESET:
              LDIA #OCH;
              STASP;
                          initial spw
              LDIA #0000B;
              OUTA P21;
LOOP_X:
              B LOOP_X;
;
              LDIA #OEH;
              STATAL;
              STATAM;
              STATAH;
               LDIA #1000B;
               OUTA P28;
                              initial TA
               LDIA #1001B;
               OUTA P29;
               LDIA #0100B;
               OUTA P25;
               LDIA #0000B;
               OUTA P11;
               LDIA #0000B;
               OUTA P10;
               LDIA #0100B;
               OUTA P31;
              LDIA #1111B; only active mask for TAI
                             mask has no effect on INTO
              EICIL 111111B; set EIF and reset IL's
MAIN:
              B MAIN;
              END;
```