;File: wdt42kk.a51

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;Development progress: Wdt834.df

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;WdtKk==========Kick watchdog.

;C Function prototype: char WdtKk(void);

;Description of Function: Restarts watchdog timeout if watchdog on.

;User interface: Call WdKk. Returns 1 if watchdog was running else 0.

;Robustness: No known issues.

;Side effects: Disables interrupts for 4 instruction cycles.

; Overwrites a, p and c.

;

NAME WDTKK

$NOMOD51

$IC(..kei842.inc) ; Parameter passing registers for Keil .

$IC(..kei842.dat) ; SFR definition for Keil .

;

public \_WdtKk

;

?PR?\_WdtKk?WDTKK SEGMENT CODE

RSEG ?PR?\_WdtKk?WDTKK

USING 0

;

\_WdtKk: mov a,WDCON ;If watchdog condition wrong

jnb ACC.1,WdKBad

jnb ACC.7,WdKDo

jb ACC.6,WdKBad

jnb ACC.5,WdKDo

WdKBad: mov cp1l,#0 ; return 0.

sjmp WdKR

WdKDo: mov c,EA ;Save EA for later.

clr EA ;Write 1 to WDE.

setb WDWR

orl WDCON,#2

mov EA,c

mov cp1l,#1 ;Return success.

WdKR: ret

;

;Function End==========================================================Function End

END