;File: wdt42cfg.a51

;Author: Eckart Hartmann Date:17/10/2003

;Development progress: Wdt834.df

;

;WdtCfg==========Initialise watchdog

;C Function prototype: char WdtCfg(char cCon);

;Description of Function: Writes cCon to the watchdog SFR WDCON.

;User interface: Put required value cCon in parameter1 then call WdtCfg.

; Returns 0 if cCon invalid else 1.

;Robustness: cCon bit 0 may be 1 without problem.

;Side effects: Uses 2 stack levels.

; Disables interrupts for 4 instruction cycles.

; Overwrites a, p, c.

;

NAME WDTCFG

$NOMOD51

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

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

;

public \_WdtCfg

;

?PR?\_WdtCfg?WDTCFG SEGMENT CODE

RSEG ?PR?\_WdtCfg?WDTCFG

USING 0

;

\_WdtCfg:

mov a,cp1l ;If cCon invalid

jnb ACC.7,WdIDo

jb ACC.6,WDIBad

jnb ACC.5,WdIDo

WdIBad: mov cp1l,#0 ; return with 0.

sjmp WdCfR

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

clr EA ;Write cp1

setb WDWR

mov WDCON,cp1l ; to WDCON.

mov EA,c

mov cp1l,#1 ;Return success.

WdCfR: ret

;

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

END