;File: adc42get.a51

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; Development progress: Adc842.df

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;AdcGet==========Get ADC conversion.

;C Function prototype: int AdcGet(char cChan);

;Description of Function: Does a complete conversion on channel cChan with

; cMode mode.

; User interface: Set up the ADC using AdcCfg() .

; Set cChan to channel to convert.

; Call AdcGet(). This starts a single conversion on channel

; cChan then waits for conversion to complete and returns

; conversion result.

;Robustness: Invalid cChan will be changed to 12..

;Side effects: Overwrites a, P, c, r0 and uses 2 stack bytes.

;

NAME ADCGET

$NOMOD51

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

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

;

extrn CODE (\_AdcGo)

extrn CODE (AdcBsy)

extrn CODE (AdcRd)

public \_AdcGet

;

?PR?\_AdcGet?ADCGET SEGMENT CODE

RSEG ?PR?\_AdcGet?ADCGET

;

\_AdcGet:

mov cP2lc,#1 ; AdcGo(cChan,1) ;

lcall \_AdcGo

AdGBsy: mov a,ADCCON3 ; while( AdcBsy() );

jb ACC.7,AdGBsy

lcall AdcRd ; return AdcRd() .

ret

;

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

END